

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)



## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS)**  
**BACHELOR OF SOCIAL WORK**  
**PROGRAMME DESCRIPTION**

The BSW programme in Social Work offers knowledge, values and skills necessary to explore Social Work as a profession. The curriculum offers human rights, social justice, policy, human behaviour, health, administration, gender and research courses that promote social and economic justice and enhance social functioning of individuals, families, groups, organisations and communities. The Field Work component allows students' to practice theoretical knowledge in various scenarios under the guidance and supervisions of faculty in NGO settings. It is an integral part of the programme to organise innovatively designed workshops, seminars and interactive programmes to facilitate in-depth learning. The programme provides students a platform and opportunities to pursue their higher studies and effect development at all levels.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Demonstrate a broad understanding of the discipline of Social Work and describes the critical concepts in the discipline of Social Work
- Apply knowledge, theories, methods, and practices in the discipline of Social Work to address real-world challenges and opportunities
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Identify issues, analyse and plan interventions based on evidence
- Understand the different forms of social injustice existing in society
- Apply the skills learnt into practice by reinstating the rights based approach and evidence based practice
- Demonstrate communication skills and present a clear, coherent and independent exposition of knowledge and ideas
- Develop critical thinking and judgement in identifying and solving problems with rationality
- Engage, assess, intervene, and evaluate the individuals, families, groups, organisations, and communities
- Apply the social work ethical principles in professional practice
- Empower communities to develop coping and support strategies' towards a self-reliance and sustainability
- Demonstrate the knowledge acquired in research for practice

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.S.W. DEGREE: SOCIAL WORK**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19SW/MC/SP13	Social Work Profession-History and Philosophy	3	3	1	0	3	50	50	100
19SW/MC/FW11	Field Work-I	1	0	0	8	-	50	-	100
19SW/AC/SS15	Introduction to Sociology	5	5	0	0	3	50	50	100
19SW/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Life Skills:Personlity Development (EL)	3	3	0	0	-	50	-	100
<b>SEMESTER-II</b>									
19SW/MC/WI24	Working with Individuals	4	4	0	0	3	50	50	100
19SW/MC/WG24	Working with Groups	4	4	0	0	3	50	50	100
19SW/MC/FW21	Field Work-II	1	0	0	8	-	50	-	100
19SW/MC/AM21	Alternative Media Skills in Social Work Practice	1	0	0	8	-	50	-	100
19SW/AC/PY25	Introduction to Psychology	5	5	0	0	3	50	50	100
19SW/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
<b>SEMESTER-III</b>									
19SW/MC/SM34	Working with Communities and Social Action	4	4	0	0	3	50	50	100
19SW/MC/FW31	Field Work III	1	0	0	8	-	50	-	100
19SW/MC/RC31	Rural Camp	1	0	0	8	-	50	-	100
19SW/MC/FS33	Fields of Social Work	3	3	1	0	3	50	50	100
19SW/AC/IE35	Indian Economy and Development Issues	5	5	0	0	3	50	50	100
19SW/SA/AW32	Societal Analysis for Social Workers-Workshop	2	2	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
<b>SEMESTER-IV</b>									
19SW/MC/GP44	Generalist Practice in Social Work	4	4	0	0	3	50	50	100
19SW/MC/FW43	Field Work IV	3	0	0	8	-	50	-	100
19SW/AC/HR45	Human Rights, Social Justice and Advocacy	5	5	0	0	3	50	50	100
19SW/SS/PS13	Life Skills:Persoanl and Social	2	2	0	0	-	50	-	100
	Major Elective I								
<b>SEMESTER-V</b>									
19SW/MC/HC53	Health Care and Services	3	3	1	0	3	50	50	100
19SW/MC/RS54	Basic Research and Statistics for Social Work	4	4	0	0	3	50	50	100
19SW/MC/AD54	Social Work Administration	4	4	0	0	3	50	50	100
19SW/MC/FW53	Field Work V	3	0	0	8	-	50	-	100

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**B.S.W. DEGREE: SOCIAL WORK**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
19SW/MC/CN53	Basic Counselling in Social Work Practice	3	3	1	0	3	50	50	100
19SW/MC/ST50	Study Tour	CC							
Interdisciplinary Core Course (BSW and BBA) to students of B.S.W.									
19ID/IC/SE55	Social Enterprises	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
SEMESTER-VI									
19SW/MC/GD63	Gender and Development-Issues and Concerns	3	3	1	0	3	50	50	100
19SW/MC/FW64	Field Work VI	4	0	0	16	-	50	-	100
19SW/MC/PR64	Mini Research Project on Social Issues	4	3	0	2	-	50	50	100
19SW/MC/BP62	Block Placement	2	0	0	8	-	50	-	100
19SW/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100
Major Elective Courses									
19SW/ME/EI45	Ecology,Development and Social Work Intervention	5	5	0	0	3	50	50	100
19SW/ME/DR45	Social Work Intervention in Disaster Management	5	5	0	0	3	50	50	100
19SW/ME/DS45	Disability and Social WorkPractice	5	5	0	0	3	50	50	100
19SW/ME/FN45	Food and Nutrition	5	5	0	0	3	50	50	100
General Elective Courses									
19SW/GE/MH22	Migration Issues and Human Security	2	2	0	0	-	50	-	100
19SW/GE/MF22	Marriage and Family Life Education	2	2	0	0	-	50	-	100
19SW/GE/UN22	UN Systems for Development and Social Change	2	2	0	0	-	50	-	100
19SW/GE/HJ22	Human Rights and Justice Issues	2	2	0	0	-	50	-	100
19SW/GE/CP22	Conflict and Peace Building	2	2	0	0	-	50	-	100
Independent Elective Course									
19SW/UI/LT23	Leadership Development Training	3	0	0	0	-	-	100	100

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**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**SOCIAL WORK PROFESSION - HISTORY AND PHILOSOPHY**

**CODE:19SW/MC/SP13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To help students gain an understanding of the history and philosophy of Social Work and its emergence as a profession
- To help students understand Social Work as a profession – its objectives, values and principles
- To help students develop an understanding of the various methods and fields of Social Work practice

**COURSE LEARNING OUT COMES**

On successful completion of the course, students will be able to

- Apply the Principles of Social Work Profession
- Understand and have an over view of the various Social work methods
- Practice ethical and professional behavior
- Learn about the various professional Social Work associations.

**Unit 1 (11 Hours)**

**Social Work Profession**

- 1.1 Social Work Profession: Meaning and Definition of Social Work Profession
- 1.2 Goals, Objectives and Principles of Social Work Profession
- 1.3 Values and Code of Ethics of Social Work Profession (NASW)

**Unit 2 (11 Hours)**

**Historical Development of Social Work Profession**

- 2.1 Overview of Historical Development of Social Work in England and USA
- 2.2 Overview of Historical Development of Social Work in India
- 2.3 Contribution of Social Reformers – Raja Ram Mohan Roy, Sarojini Naidu, Periyar, Gandhi, Christian Missionaries. Contributions of other Religions (Hinduism, Islam, Jainism, Buddhism) to Social Work in India

**Unit 3 (10 Hours)**

**Definition and Meaning of Concepts relevant to Social Work**

- 3.1 Social Service
- 3.2 Social Security
- 3.3 Social Change
- 3.4 Social Welfare

- 3.5 Social Policy
- 3.6 Social Planning
- 3.7 Social Action
- 3.8 Social Development
- 3.9 Social Justice
- 3.10 Empowerment

**Unit 4 (10 Hours)**

**Introduction to Social Work Practice**

- 4.1 A brief overview of the fields and methods of Social Work Practice.
- 4.2 Major Theories in Social Work - Problem Solving Model, Behaviour Modification Model, and Crisis Intervention Model
- 4.3 Roles and skills of a Social Worker

**Unit 5 (10 Hours)**

**Social Work Education and Practice**

- 5.1 Social Work Education in India
- 5.2 Nature and content of social work Theory
- 5.3 Nature and content Fieldwork
- 5.4 Importance of field work supervision
- 5.5 Professional Associations - International Federation of Social Workers (IFSW), The National Association of Social Workers (NASW), National Association of Professional Social Workers in India (NAPSWI) and the Professional Social Worker's Association (PSWA)
- 5.6 International Social Work

**BOOKS FOR STUDY**

- Friedlander, WA: *Introduction to Social welfare* New York : Prentice Hall, 1959
- Gangrade, K. D. *Dimensions of Social Work*, Marwah Publications, New Delhi
- Joshi, S., C. *Hand Book of Social Work*. New Delhi: Akansha, 2004.
- Kulkarni, PD and MC Nanavati: *NGOs in the Changing Scenario* New Delhi: Uppal Publishing House, 1998
- Paul Chowdry D. *Introduction to Social Work, History, Concept, Methods and Fields*
- Pathak, S: *Social welfare*, New Delhi : Mac Millan India, 1981
- Payne, M. *Modern Social Work Theory*. New York: Palgrave MacMillan, 2005.
- Sanjay Bhattacharya: *Introduction to Social Work*, Deep and Deep Publications, New Delhi-2008.

**BOOKS FOR REFERENCE**

- Adams, R. *Social Work and Empowerment*. New York: Palgrave Macmillan, 2003.
- Alston, M. and Mckinnon, J. *Social Work – Fields of Practice*. Australia: Oxford UP, 2003.
- Banks, S. *Ethics and Values in Social Work*. New York: Palgrave Macmillan, 2001.
- Black, K., J. *Development in Theory and Practice- Paradigms and Paradoxes*. Jaipur: Rawat, 2007.
- Bogo, M. *Social Work Practice- Concepts, Processes and Interviewing*. New York: Columbia University Press, 2006.
- Clark, L., C. *Social Work Ethics – Politics, Principles and Practice*. New York: Palgrave Macmillan, 2001.

Desai, M. *Ideologies and Social Work- Historical and Contemporary Analyses*. Jaipur: Rawat, 2006.

Doel, M. and Shardlow, M., S. *Modern Social Work Practice- Teaching and Learning in Practice Settings*. London: Ashgate, 2005.

Dominelli, L. *Social Work-Theory and Practice for a Changing Profession*. New Delhi: Rawat, 2005.

Subhedar, T. S. *Field Work Training in Social Work*. Jaipur: Rawat, 2001.

Sumit Dutta. *Social Work and Social Development*. New Delhi: Wisdom Press, 2013.

Thompson, N. *Understanding Social Work- Preparing and Practice*. New York: Palgrave Macmillan, 2002.

## **JOURNAL**

The Journal of Social Work Education (JSWE)

## **WEB RESOURCES**

[www.socialworktoday.com](http://www.socialworktoday.com)

[www.cswe.org](http://www.cswe.org)

[www.naswdc.org](http://www.naswdc.org)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)

Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FIELD WORK-1**

**CODE:19SW/MC/FW11**

**CREDITS:1**

**OBJECTIVES OF THE FIELDWORK**

- To understand the Social realities
- To develop the Skills in Social work practice
- To give an orientation to Social work Profession

**COURSE LEARNING OUTCOMES**

On successful completion of Field Work, students will be able to

- Understand the Social realities
- Develop and practice the skills in Social work practice
- Learn and develop knowledge about the values and principles of Social work Profession
- Assess the needs and problems of the people in the community

**Lab Sessions**

Sessions on Life skills, Soft skills and Professional skills.

**Orientation Visits**

Visits to Governmental and Non-Governmental Organizations to obtain an orientation about the agency and its functioning.

**Recording and Documentation**

A detailed report of the lab sessions and agency visits, with the personal and professional learning obtained is submitted.

**METHODS OF ASSESSMENT**

- A report on their observations and learning will have to be submitted
- A viva voce will be conducted by the faculty supervisor to assess the personal and professional learning by the student



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**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO SOCIOLOGY**

**CODE:19SW/AC/SS15**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand Sociology as a discipline and its relevance to Social Work
- To develop an understanding of basic Sociological concepts about society, its structure and dynamics
- To develop in students the ability to analyse the Indian social system, social phenomena and social problems
- To develop an interest and commitment to change society for the better.

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Use sociological concepts and theoretical frameworks in Social Work Practice.
- Familiarize themselves with the process and indicators of Social Change in India
- Become aware of social problems and strategies.
- Use Social Work methods to change society

**Unit 1 (13 Hours)**

**Individual in Society**

- 1.1 Sociology as a discipline – Definition and Major areas, Sociology and its relation to Social Work
- 1.2 Society – Definition, Characteristics, Types
- 1.3 Socialisation – Definition, Meaning, Process, Agents and Functions
- 1.4 Culture – Definition, Meaning, Components of Culture, Cultural Lag
- 1.5 Social Control – Definition, Meaning, Forms and Functions
- 1.6 Definition, Meaning, Characteristics – Norms, Folkways and Mores
- 1.7 Social Groups – Definition, Meaning, Types
- 1.8 Social Processes – Cooperation, Competition, Conflict, Accommodation and Assimilation

**Unit 2 (10 Hours)**

**Social Stratification**

- 2.1 Caste and Class – Definition, Difference between Caste and Class, Changing Patterns, Impact of Caste on Indian Society
- 2.2 Gender Roles, Gender issues and Gender Discrimination in India
- 2.3 Social Mobility – Definition, Meanings, forms of Social Mobility

**Unit 3** (12 Hours)  
**Social Institutions**

- 3.1 Marriage: Definition, Meaning, Types, Functions, Changing Trends
- 3.2 Family: Definition, Meaning, Types, Functions, Changing Patterns
- 3.3 Kinship: Definition, Meaning, Types
- 3.4 Religion: Definition, Meaning, Functions

**Unit 4** (13 Hours)  
**Social Change and Social Movements**

- 4.1 Concept of Social Change, Factors Contributing to Social Change, acceptance or Resistance to Social Change, Causes for Social Change in India
- 4.2 Social Movements – Definition, Meaning, Types and factors essential for Social Movements

**Unit 5** (17 Hours)  
**Social Problems in India**

- 5.1 Social Problems - Definition, Meaning, Types, Causes of Social Problems in India, Poverty, Unemployment, Crime, Corruption, Addiction, Illiteracy, Environmental Pollution, Human Trafficking, Children in Conflict with Law, Child Labour and Health and Nutrition

**BOOKS FOR STUDY**

Rao Shankar, C.N. *Principles of Sociology*. New Delhi: S. Chand, 2018  
Bushan Vidya., Sachdeva. D.R., *Introduction to Sociology*, New Delhi, Kitab Mahal, 2014.

**BOOKS FOR REFERENCE**

Ram, Ahuja. *Social Problems in India*. Jaipur and New Delhi: Rawat, 2014.  
Dhanagare, D., N. *Indian Sociology*. Jaipur and New Delhi: Rawat, 1993.  
Frances, V., Moulder. *Social Problems of the Modern World*. U.S.A.: Eve Harward, 2000.  
Mac, Iver R., M. and Page, C., H. *Society: An Introductory Analysis*. Chennai: Macmillan, 1990.  
Sharma, Rajendra, K. *Indian society – Institutions and Change*. New Delhi: Atlantic, 1997.  
Shepard, Jon, M. *Sociology*. New York: West Publishing Co, 1981.  
Upadhyaya, Sharma, V., P. *Contemporary Indian Society* New Delhi: Anmol, 1992.

**JOURNALS**

Journal of Sociology  
Society for the study of Social Problems

**WEB RESOURCES**

<http://www.sociologyguide.com/>  
<http://www.importantindia.com/3910/essay-on-social-problems-in-india/>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $4 \times 3 = 12$  marks (All questions to be answered)

Section B –  $3 \times 6 = 18$  marks (3 out of 5 questions to be answered)

Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered)

### **Other Component:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 3 = 30$  marks (All questions to be answered)

Section B –  $5 \times 6 = 30$  marks (5 out of 8 questions to be answered)

Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19SW/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2** **(13 Hours)**  
**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3** **(13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

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**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WORKING WITH INDIVIDUALS**

**CODE:19SW/MC/WI24**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To introduce students to direct method of Social Work practice – Social Case Work
- To enable students to identify the appropriate usages of Social Case Work practice
- To equip students with knowledge in various models of Case Work

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Practice Social Case Work
- Help people solve their problems
- Imbibe the various skills and techniques of Social Case Work
- Understand the current trends in Social Case Work

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Historical Evolution of Case Work in the West and India
- 1.2 Definition, Meaning of Social Case Work, Social Case Work as a method of Social Work
- 1.3 Objectives, Principles, Philosophy of Social Case Work
- 1.4 Limitations of Social Case Work practice in India

**Unit 2 (11 Hours)**

**Components of Social Case Work**

- 2.1 Values of Social Case Work
- 2.2 Components of Social Case Work
- 2.3 Social Case Work process

**Unit 3 (11 Hours)**

**Models of Social Case Work**

- 3.1 Models of Social Case Work – Basic Principles of Psychosocial Model, Functional Model, Problem Solving Model, Behaviour Modification Model and Crisis Intervention Model
- 3.2 Client-caseworker Relationship

**Unit 4 (10 Hours)**

**Skills and Techniques of Social Case Work**

- 4.1 Skills in Social Case Work

- 4.2 Techniques of Social Case Work
- 4.3 Role of a Social Case Worker in different settings - Medical, Child Guidance Clinics, Correctional Settings, Family and Child Welfare Settings and Geriatric Care

**Unit 5 (10 Hours)**

**Interviewing, Recording and Supervision in Social Case Work**

- 5.1 Interviewing – Meaning, Definition, Relationship between Interviewer and Interviewee
- 5.2 Recording in Social Case Work – Definition, Types, Need and Importance of Recording
- 5.3 Supervision in Case Work – Meaning, Need and Importance

**BOOKS FOR STUDY**

Friedlander, W., A., *Concepts and Methods of Social Work*, New York: Englewood Cliffs: Prentice Hall 1976

Hamilton Gordon, New Delhi: *Social Case Work, An Introductory* Rawat Publication: 2013

**BOOKS FOR REFERENCE**

Davies, M., *Companion to Social Work*, New York: Atlantic Publishers, 2002.

Devi, R. and Prakash, R., *Social Work Methods - Practices and Perspectives*. Jaipur: Mangal Deep Publications, 2004.

Encyclopedia of Social Work Vol. 1,2,3, *National Association of Social Workers*. Washington D.C: NASW, 1996.

Gangarade, K., D., *Dimensions of Social Work in India*. New Delhi: Marawah 1976.

Joshi, S., C., *Hand Book of Social Work*. New Delhi: Akansha Publishing House, 2004.

Kumar, Hajira, *Theories in Social Work Practice*. New Delhi: Friends, 1995.

Thompson, N., *Understanding Social Work - Preparing and Practice*. New York Palgrave Macmillan, 2002.

**JOURNALS**

The Indian Journal of Social Work

**WEB RESOURCES**

[www.socialworkers.org](http://www.socialworkers.org)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

- Section A – 4 x 3 = 12 marks (All questions to be answered)
- Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)
- Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

**Other Components: Total Marks: 50**

Seminars/Assignments/Problem Solving/Case Studies/ Quiz/Open book tests

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

- Section A – 10 x 3 = 30 marks (All questions to be answered)
- Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)
- Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WORKING WITH GROUPS**

**CODE:19SW/MC/WG24**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To introduce students to direct method of Social Work practice – Social Group Work
- To enable students to identify the appropriate usages of Social Group Work practice
- To equip students with knowledge in various models of Social Group Work

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Practice Social Group Work
- Help people live harmoniously in groups
- Imbibe the various skills and techniques of Social Group Work
- Understand the current trends in Social Group Work

**Unit 1 (10 Hours)**

**Introduction to Social Group**

- 1.1 Meaning and Definition of Social Group
- 1.2 Characteristics, Functions and Nature of Social Groups
- 1.3 Types of Social Groups
- 1.4 Need for Social Groups

**Unit 2 (10 Hours)**

**Introduction to Social Group Work**

- 2.1 Historical Evolution of Group Work
- 2.1 Definition, Meaning, Values of Social Group Work
- 2.2 Social Group Work as a method of Social Work
- 2.3 Objectives, Principles, Assumptions of Social Group Work

**Unit 3 (11 Hours)**

**Components of Social Group Work**

- 3.1 Stages and Phases of Social Group Work
- 3.2 Social Group Work process
- 3.3 Concept of - Group Leadership, Group Dynamics, Group Process
- 3.4 Programmes in Social Group Work - Concept, Nature

**Unit 4 (11 Hours)**

**Models, Skills and Techniques of Social Group Work**

- 4.1 Models of Social Group Work – Social, Remedial and Reciprocal
- 4.2 Skills in Social Group Work
- 4.3 Techniques of Social Case Work

**Unit 5****(10 Hours)****Recording and Role of a Social Group Worker**

5.1 Recording in Social Group Work – Importance of Recording,

5.2 Role of a Social Group Worker in different settings - Medical, Child Guidance Clinics, Correctional Settings, Family and Child Welfare Settings and Geriatric Care

**BOOKS FOR STUDY**

Konopka, G., *Social Group Work - A Helping Process*, New York: Englewood Cliffs, 1972.  
Trecker, Harleigh, B., *Social Group Work- Principles and Practice*, New York; Association Press, 1970.

**BOOKS FOR REFERENCE**

Davies, M., *Companion to Social Work*, New York: Atlantic Publishers, 2002.  
Devi, R. and Prakash, R., *Social Work Methods - Practices and Perspectives*. Jaipur: Mangal Deep Publications, 2004.  
Encyclopedia of Social Work Vol. 1,2,3, *National Association of Social Workers*. Washington D.C: NASW, 1996.  
Gangarade, K., D., *Dimensions of Social Work in India*. New Delhi: Marawah 1976.  
Garvin, D., Gutierrez, M. and Galinsky, J., *Handbook of Social Work with Groups*. Jaipur: Rawat Publications, 2004.  
Joshi, S., C., *Hand Book of Social Work*. New Delhi: Akansha Publishing House, 2004.  
Kumar, Hajira, *Theories in Social Work Practice*. New Delhi: Friends, 1995.  
Thompson, N., *Understanding Social Work - Preparing and Practice*. New York Palgrave Macmillan, 2002.

**JOURNALS**

The Indian Journal of Social Work

**WEB RESOURCES**[www.socialworkers.org](http://www.socialworkers.org)**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

**Other Components:****Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)

Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FIELD WORK-II**

**CODE:19SW/MC/FW21**

**CREDITS:1**

**OBJECTIVES OF THE FIELDWORK**

- To understand the Social realities
- To develop the Skills in Social Work practice
- To give an orientation to Social Work Profession

**COURSE LEARNING OUTCOMES FOR FIELDWORK**

On successful completion of Field Work, students will be able to

- Understand the Social realities
- Develop and practice the skills in Social Work practice
- Learn and develop knowledge about the values and principles of Social work Profession
- Assess the needs and problems of the people in the community

**Lab Sessions**

Sessions on Life skills, Soft skills and Professional skills.

**Orientation Visits**

Visits to Governmental and Non-Governmental

Organizations to obtain an orientation about the agency and its functioning

**Recording and Documentation**

A detailed report of the lab sessions and agency visits, with the personal and professional learning obtained is submitted.

**METHODS OF ASSESSMENT**

- A report on their observations and learning will have to be submitted
- A viva voce will be conducted by the faculty supervisor to assess the personal and professional learning by the student

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ALTERNATIVE MEDIA SKILLS IN SOCIALWORK PRACTICE**

**CODE:19SW/MC/AM21**

**CREDITS:1**

**OBJECTIVES OF THE COURSE**

- To develop in students' Alternative Media Skills through an understanding of theory and skills practice sessions.
- To integrate Alternative Media Skills in Social Work practice.
- To learn the different forms of folks arts.

**COURSE LEARNING OUT COMES**

On successful completion of the course, students will be able to

- Understand the importance of Alternative media skills in Social Work Practice.
- Apply Alternative media skills in Social Work Practice.
- Learn the different forms of folk arts.
- Sensitize the community through folk arts

**Unit 1**

**Alternative Media Skills**

- 1.1 Introduction to Alternative Media Skills.
- 1.2 The importance of Alternative Media Skills in Social Work Practice.

**Unit 2**

**Different forms of folk art**

- 2.1 Street theatre
- 2.2 Folk songs
- 2.3 Folk dances
- 2.4 Puppetry

**Unit 3**

**Final performance in the community**

**METHODS OF ASSESSMENT**

Based on the Participation and Performance of the student

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086.**

**BSW DEGREE: BACHELOR OF SOCIAL**

**WORK SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO PSYCHOLOGY**

**CODE:19SW/AC/PY25**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the relevance of Psychology to Social Work
- To understand the basic concepts of Psychology
- To develop an overall understanding of human growth and development

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate the relationship between Psychology and Social Work in understanding human behaviour
- Use the concepts of Psychology
- Collect appropriate information on the delay in human growth and development
- Apply the theories and approaches in understanding individuals

**Unit 1 (10 Hours)**

**Introduction to Psychology**

- 1.1 Meaning and Definition of Psychology, Nature and scope of Psychology
- 1.2 Fields of Psychology, Psychological perspectives
- 1.3 Psychology in relation to other social sciences and natural sciences

**Unit 2 (12 Hours)**

**Concepts in Psychology**

- 2.1 Meaning and Definition of Personality, Psychoanalytic Approach (Sigmund Freud), Humanistic Approach (Abraham Maslow), Psychosocial Approach (Erik Erikson)
- 2.2 Meaning and Definition of Perception, Factors affecting perception, Perception Process
- 2.3 Definition of Learning – Classical Conditioning and Operant Conditioning

**Unit 3 (15 Hours)**

**Human Development - I**

- 3.1 Significant Facts about Development, Developmental Tasks during the Life Span, Stages in the Life Span
- 3.2 Prenatal Development: Preliminary Stages of Development – Maturation,

Ovulation and Fertilisation, Importance of Conception, Stages of Prenatal Development – Period of the Zygote, Embryo and Foetus, Factors affecting Prenatal Development

3.3 Infancy and Childhood - Physical Growth, Motor Development, Cognitive Development, Social and Emotional Development

**Unit 4 (16 Hours)**

**Human Development - II**

- 4.1 Adolescence- Physical Changes, Emotional, Cognitive and Social aspects of Development
- 4.2 Adulthood- Characteristics of Early, Middle and Late Adulthood, Needs and tasks in the family, community and work
- 4.3 Old Age – Adjustment to Physical Changes, Changes in Motor abilities, Mental Abilities and Interests, Hazards to Personal and Social Adjustments in Old Age

**Unit 5 (12 Hours)**

**Adjustment, Stress, Frustration and Conflict**

- 5.1 Concept of Adjustment, Aspects of Adjustment, Characteristics of a well-adjusted person
- 5.2 Stress - Concept and Causes of Stress
- 5.3 Frustration - Concept and Causes of Frustration
- 5.4 Conflict - Concept and Types of Conflict, Ego Defense Mechanisms

**BOOK FOR STUDY**

Hurlock, Elizabeth. *Developmental Psychology a Life-Span Approach*. New Delhi: Tata McGraw-Hill, 2007.

Morgan Clifford T., King, Richard A. (et.al). *Introduction to Psycholog*. New Delhi: McGraw Hill Education (India) Private Limited, 2016

**BOOKS FOR REFERENCE**

Ciccarelli Sandra K., and Meyer Glenn E. *Psychology*. New Delhi: Dorling Kindersley Pvt. Ltd, 2012

Hall Calvin, Lindzey Gardner. *Introduction to Personality Theory*. New York: John Wiley and Sons, 2000

Newman and Newman. *Development through Life*. U.S.A:Thomason Wadsworth, 2003.

Nolen, Susan (et.al.) *Atkinson & Hilgard's Introduction to Psychology*. New Delhi: Cengage Learning India Private Limited, 2014

Schwebel, Andrew,I. Harvey, A. Barocas. *Personal Adjustment and Growth*. U.S.A: Wm.C.Brown Publishers, 2000

**WEB RESOURCES**

allpsych.com

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

**Other Components:****Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)

Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19SW/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda



- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WORKING WITH COMMUNITIES AND SOCIAL ACTION**

**CODE:19SW/MC/SM34**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to understand Community Organisation and Social Action as methods of Social Work
- To enable students to identify the appropriate usage of Community Organisation and Social Action in appropriate situations
- To enable students, develop insights into models and strategies of Community Organisation and Social Action

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Develop confidence to use Community organisation as a method of social work intervention.
- Analyse needs from macro perspective.
- Familiarize themselves with the role of social worker in the Community setting
- Support the use of models and strategies of social action as per the requirement of the Community setting.

**Unit 1 (10 Hours)**

**Community Organisation – Introduction and Process**

- 1.1 Concept, Definition, Objectives, Philosophy, Principles
- 1.2 Evolution of Community Organisation as a Method in Social Work
- 1.3 Relationship Building, Study and Survey, Analysis, Assessment, Discussion  
Organisation, Action, Reflection/Evaluation, Modification, Continuation

**Unit 2 (10 Hours)**

**Leadership and Participation in Community**

- 2.1 Power – Concept and Dimensions
- 2.2 Leadership - Meaning, Types, Functions of Leadership
- 2.3 Participatory Development - Concept, Principles, Factors promoting Participation and hindering Participation.
- 2.4 Introduction to Participatory Planning and Participatory Rural Appraisal (PRA)

**Unit 3 (10 Hours)**

**Models and Approaches in Community Organisation**

- 3.1 J. Rothman- Social Planning, Locality Development, Social Action
- 3.2 Murray Ross- General Content, Specific Content, Process Objective
- 3.3 Approaches in Community Organisation: Neighbourhood organising – The social work approach, Political Activists approach, Neighbourhood maintenance/Community development approach

**Unit 4 (10 Hours)**

**Social Action**

- 4.1 Concept, Definition, Principles and Objectives
- 4.2 Social Action – as a method of Social Work, Strategies of Social Action
- 4.3 Typology of Social Action – Elitist Social Action, Popular Social Action
- 4.4 An Introduction to Social Action Models – Paulo Freire and Saul Alinsky

**Unit 5 (10 Hours)**

**An Introduction to Social Action Movements in India**

- 5.1 Gandhian Movement
- 5.2 Chipko Movement
- 5.3 Narmada Bachao Andolan
- 5.4 Dalit Movement
- 5.5 Naxalbari Movement
- 5.6 Self Help Group Movement
- 5.7 Self-Respect Movement

**BOOKS FOR STUDY**

Kumar, S., *Methods for Community Participation – A Complete Guide for Practitioners*. New Delhi: Vistaar Publications, 2015

**BOOKS FOR REFERENCE**

Ross, Murray, G., *Community Organisation: Theory, Principles and Practice*. New York: Harper and Row, 1955. Devi, R., Prakash, R., *Social Work Methods, Practices and Perspectives Vol 1, 2, 3*. Jaipur: Mangal Deep, 2004.

Josi, A., K., *Emigration and Social Change*. Jaipur: Rawat Publications, 2005.

Katare, M., P., *Social Work and Rural Development*. New Delhi: Arise, 2006.

Maidment, J., Egan, R., *Practice Skills in Social Work and Welfare - More Than Just Common Sense*. Australia: Allen and Unwin, 2006.

Nash, M., Mundford, R., Donoghue, K., *Social Work Theories in Action*. London: Jessica Kingsley, 2005.

Rao, M., S., A., *Social Movements in India*. New Delhi: Manohar, 2004.

Srinivas, M., N., *Social Change in Modern India*. New Delhi: Orient Longman, 2003.

Thompson, N., *Understanding Social Work - Preparing and Practice*. New York: Palgrave Macmillan, 2002.

**JOURNALS**

Community Development Journal-<http://www.oxfordjournals.org/>

**WEB RESOURCES**

[www.betterworldhandbook.com/action10\(orgs\).html](http://www.betterworldhandbook.com/action10(orgs).html)  
[www.who.int/healthpromotion/conferences](http://www.who.int/healthpromotion/conferences)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $4 \times 3 = 12$  marks (All questions to be answered)

Section B –  $3 \times 6 = 18$  marks (3 out of 5 questions to be answered) Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered)

### **Other Component:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### **End-Semester Examination:**

**Total Marks:100**

**Duration: 3 hours**

Section A –  $10 \times 3 = 30$  marks (All questions to be answered) Section B –  $5 \times 6 = 30$  marks (5 out of 8 questions to be answered) Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FIELD WORK – III**

**CODE:19SW/MC/FW31**

**CREDITS:1**

**CONCURRENT FIELD WORK**

The students will attend the rural camp before concurrent Field Work begins. The broad aim of Field Work is to provide opportunities for students to apply the knowledge learnt in the classroom situations and to plan, implement and evaluate these experiences while working with individuals, groups and communities. These will be in keeping with the placement agency's philosophy, policy and goals and use of guided supervision. The Field Work will commence by the first week of September and students will be placed in organisations working for the urban neighbourhood communities weekly once.

**OBJECTIVES OF FIELD WORK**

- To understand the organisation, its philosophy and goals and to prepare an organisation's profile
- To understand the community, the needs and problems of the communities by preparing a community profile
- To analyse the organisations' structure, functioning and its networking strategies

**LEARNING OUTCOMES FOR FIELD WORK**

On successful completion of Field Work, students will be able to

- Apply the philosophy and goals, values and principles of Social Work in Field Work
- Articulate the socio-economic conditions of the people in the community
- Assess the needs and problems of the people in the community
- Apply the programmes of the organisation in the community

**PATTERN OF ASSESSMENT**

- A report on their observations and learning of the organisation and in community will have to be submitted
- A viva voce will be conducted by the faculty supervisor to assess the personal and professional learning by the student

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**RURAL CAMP**

**CODE:19SW/MC/RC31**

**CREDITS:1**

**RURAL CAMP**

The students will attend the rural camp before concurrent Field Work. The broad aim of Field Work is to provide opportunities for students to apply the knowledge learnt in the classroom situations and to plan, implement and evaluate these experiences while working with individuals, groups and communities. These will be in keeping with the placement agency's philosophy, policy and goals and use of guided supervision. The rural camp will have to be organised before September first week for five working days in a rural area in Tamil Nadu.

**OBJECTIVES OF FIELD WORK**

- To develop an understanding of the rural social system with special reference to a specific poverty group
- To develop an understanding of government intervention in relation to poverty groups in the region and the related structures of decision-making and intervention
- To experience in-group living, appreciate its value in terms of self-development, interpersonal relationships, sense of organisation, management and mutual responsibility
- To acquire skills in planning, organising, implementing the camp

**LEARNING OUTCOMES FOR RURAL CAMP**

On successful completion of Rural Camp, students will be able to

- Apply the philosophy and goals, values and principles of Social Work in Field Work
- Articulate the socio-economic conditions of the people in the community
- Assess the needs and problems of the people in the community
- Apply the programmes of the organisation in the community
- Plan, organise a rural camp
- Work in teams
- Live in groups

**PATTERN OF ASSESSMENT**

- A report on their observations and learning at the camp will have to be submitted
- A viva voce will be conducted by the faculty supervisor to assess the personal and professional learning by the student.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FIELDS OF SOCIAL WORK**

**CODE:19SW/MC/FS33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To develop an understanding regarding the macro level of practice in Social Work
- To provide an overview on the range of fields that use varied type of interventions.
- To develop skills in students to envisage, plan and work out strategies in working with different macro level interventions

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Correlate knowledge and attitude with professional practice at the macro level.
- Familiarize themselves with a wide range of problems at the field level.
- Develop a range of strategies suitable for the varied client requirements.
- Build competency in addressing diverse and special problems

**Unit 1 (12 Hours)**

**Social Work Interventions with Family, Children, Adolescents and Youth**

- 1.1 Intervention with Family and Children – Indian Families, Prospects and Problems, Problems of Children, Children in Special Circumstances, Emerging Issues in the Areas of Family and Child Welfare, Services in the Field of Family and Child Welfare, Role of Social Worker.
- 1.2 Intervention with Adolescents and Youth – Definition, Demographic Profile, Needs, Specific Problems and Services for Youth, School Social Work, Role of Social Worker, Priority Areas - National Policy on Youth 2014.

**Unit 2 (10 Hours)**

**Social Work Interventions with the Senior Citizens**

- 2.1 Definition of the Aged, Changes – Physiological, Economic and Social, Common Problems of the Elderly, Services for the Senior Citizens.
- 2.2 Legislation and Policies for the Senior Citizens.

**Unit 3 (10 Hours)**

**Social Work Interventions with the Rural and Urban Communities**

- 3.1 Definition of Rural and Urban Community and Rural and Urban Community Development, Emerging Trends in Urban and Rural Development
- 3.2 Current Issues in Urban Areas, Different Services in the Field of Urban and Rural Community Development, Role of Social Worker

**Unit 4** **(10 Hours)**

**Social Work Interventions with the Displaced**

- 4.1 Meaning, Causes, Problems of Displacement – Social, Economic, Psychological, Cultural, Rehabilitation, Problems of Rehabilitation – Awareness, Resources, Opportunities
- 4.2 Legislations – “The Rights to Fair Compensation and Transparency in Land Acquisition, Resettlement and Rehabilitation Act, 2013, Programmes, Services, Role of Social Worker

**Unit 5** **(10 Hours)**

**Social Work Interventions with Industries**

- 5.1 Definition, Concept, Meaning – Labour Welfare and Industrial Relations, Industrial Welfare Measures
- 5.2 The Need and Importance of Social Work Services in the Field of Labour Welfare and Industrial Relations

**BOOKS FOR STUDY**

Dhawan Nitesh, *Social Work Perspectives: Philosophy and Methods*, Lucknow, Bharat Book Centre, 2014.

Colton, P., Sanders, M., R., and Williams, M. *An Introduction to working with Children – A Guide for Social Workers*. New York: Palgrave Macmillan, 2015.

Ledwith, M. *Community Development*. Jaipur: Rawat, 2016.

**BOOKS FOR REFERENCE**

Brandon, M., Schofield, G., and Trinder, L. *Social Work With Children*. New York: Palgrave, 1998

Devi, Laxmi. *Child and Family Welfare- Institute for sustainable development.*, New Delhi: Anmol. 1998

Johri, P., K. *Social Work for Community Development*. New Delhi: Amol, 2005.

Kaila, H., L. *Women, Work And Family*. New Delhi: Rawat, 2005

Liebig, S., P., Rajan, I., S. *An Aging India- Perspectives, Prospects and Policies*. Jaipur: Rawat, 2005.

Ledwith, M. *Community Development*. Jaipur: Rawat, 2005.

Katare, M., P. *Social Work and Rural Development*. New Delhi: Arise, 2006.

Kumar, S. *Methods for Community Participation – A Complete Guide for Practitioners.* New Delhi: Vistaar, 2002.

Mohan, S. *Urban Development New Localism*. New Delhi: Rawat, 2005.

Nagpaul, H. *Social Work in Urban India*. Jaipur: Rawat, 2005.

Phillips, I., Ray, Mo, Marshall, M. *Social Work With Older People*. New York: Palgrave Macmillan, 2006.

Radhakrishna, R., and Ray, Shovan. *Handbook of Poverty in India- Perspectives, Policies and Programmes*. New Delhi: Oxford University Press, 2006.

Sandhya, N. *Indian Society*. New Delhi: Vrinda Publications (P) Ltd., 2005.

Sharma, Ram Nath and Sharma, Rachana. *Child Psychology*. New Delhi: Atlantic, 2006.

Twelvetrees, A. *Community Work*. New York: Palgrave, 2002.

Verma, K., Manish. *Development, Displacement and Resettlement*. Jaipur: Rawat, 2004.



Gore, M., S. *Indian Youth - Process of Socialisation*. New Delhi: Vishva Yuvak Kendra, 1977.

Hurlock, Elizabeth. *Development Psychology- A Life Span Approach*. New Delhi: Tata McGraw Hill, 1985.

## **JOURNALS**

The Indian Journal of Social Work

## **WEB RESOURCES**

[www.socialworkers.org](http://www.socialworkers.org)

<https://www.socialworkguide.org/careers/>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

### **Other Component:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)

Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDIAN ECONOMY AND DEVELOPMENT ISSUES**

**CODE:19SW/AC/IE35**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students understand the basic concepts of Economics and its relevance to Social Work
- To enable students to develop awareness of the significance in the study of development issues and their inter- relations with social change
- To help students acquire knowledge of the administrative structure and different organisations involved with rural and urban development

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply the basic concepts of Economics and its relevance in Social Work
- Identify the characteristics of developed and underdeveloped economy
- Analyse the developmental issues in India from a socio-economic perspective
- Understand the Indian Economic and Administrative Structure

**Unit 1 (13 Hours)**

**Economic Concepts relevant for Social Work**

- 1.1 Introduction to Economics and the relationship between Economics and Social Work
- 1.2 Concept - Rural-Urban Economy, Rural–Urban Gap, Rural-Urban Divide
- 1.3 Urbanisation and Industrialisation as Economic Processes
- 1.4 Types of Economy – Capitalists, Socialists and Mixed Economy
- 1.5 Role of Public Sector Enterprises (PSE) and Micro, Small and Medium Enterprises (MSME) in Indian Economy

**Unit 2 (13 Hours)**

**India as a Developing Economy**

- 2.1 Meaning, Definition and Characteristics – Development, Underdevelopment in economy
- 2.2 Meaning and difference between Economic Growth and Economic Development
- 2.3 Concept – Gross Domestic Product, Gross National Product, Gross National Income, Human Development Index, Gender Development Index, Physical Quality of Life Index, Sustainable Human Development
- 2.4 Social Development as an approach to Development – UN Sustainable Development Goals
- 2.5 Five Year Plans related to Development in India

**Unit 3 (11 Hours)**

**Developmental Issues in India**

- 3.1 Poverty – Meaning, Definition, Types of Poverty – Absolute and Relative Poverty - Nature and Causes of Poverty, Poverty Alleviation Programmes in India
- 3.2 Agriculture – Importance of Agriculture in India, Problems of Indian Agriculture, Remedial Measures to raise agricultural productivity in India, New Agricultural Strategies
- 3.3 Land Reforms – Objectives of Land Reforms, Components of Land Reforms, Need and scope for Land Reforms in a Developing Economy
- 3.4 Food Policy and Public Distribution System – Nature of Food Economy, Emergence of a Comprehensive Food Policy in Independent India, Public Distribution System – Objectives and the Important feature of Public Distribution System, Concept of Targetted Public Distribution System

**Unit 4 (15 Hours)**

**Development Financial Institutions**

- 4.1 Role and Functions of Industrial Finance Corporations of India, Industrial Development Bank of India (IDBI), National Bank for Agriculture and Rural Development
- 4.2 Role and Functions of Reserve Bank of India (RBI)
- 4.3 Impact of Globalisation and Privatisation of financial institutions on Indian Economy

**Unit 5 (13 Hours)**

**Local Self- Governance in India**

- 5.1 Brief Overview of the evolution of Panchayati Raj in India Pre and Post Independence
- 5.2 Rural Administrative Structure and Functions of Zilla Parishads (District Level), Mandal or Taluka Panchayats, Gram Panchayats
- 5.3 Urban Administrative Structure and Functions of Municipal Corporations, Municipal Councils and Nagar Panchayats

**BOOKS FOR STUDY**

- Agarwal, A.N. *Indian Economy: Nature, Problem and Progress*. New Delhi: Vikas Niraj Prakash, 1994.
- Dutt, Ruddar, Sundharam, K.P. M. *Indian Economy*. New Delhi: Chand & Company, 2006.
- Kumar, H. *Social Work and Developmental Issues*. New Delhi: Aakar Books, 2005.

**BOOKS FOR REFERENCE**

- Adams, R. Dominelli and Payne. M. *Social Work – Themes, Issues and Critical Debates*. New York: Palgrave in association with the Open University, 2002.
- Bhat, Anil. *Development and Social Justice - Micro Action by Weaker Section*. New Delhi: Sage Publications, 1989.
- Bhattacharya, S. *Social Work Administration and Development*. Jaipur: Rawat, 2006.
- Dahiwal, S. M. *Understanding Indian Society - The Non-Brahmanic Perspective*. Jaipur: Rawat Publications, 2006.
- Jogdand, P.G. and Michael. S. M. *Globalisation and Social Movements - Struggle for a Humane Society*. Jaipur: Rawat Publications, 2006.

Pant, S.K. *Human Development- Concept and Issues in the Context of Globalisation*. Jaipur; Rawat, 2006.

Papalia, D. Wendkos, S. and Feldman, R.D. *Human Development*. New Delhi: Tata McGraw - Hill, 2004.

Phadke, V. S. and Banerjee, Guha, S. *Urbanisation Development and Environment*. Jaipur: Rawat, 2007.

Radhakrishna, R. and Shovan, Ray. *Handbook of Poverty in India - Perspectives, Policies and Programmes*. New Delhi: Oxford University Press, 2006.

Verma, K. Manish. *Development, Displacement and Resettlement*. Jaipur: Rawat, 2004.

## WEB RESOURCES

[http://en.wikipedia.org/wiki/Poverty\\_alleviation\\_programmes\\_in\\_India](http://en.wikipedia.org/wiki/Poverty_alleviation_programmes_in_India)

<http://www.yourarticlelibrary.com/poverty/21-major-poverty-alleviation-programmes-launche>

<http://planningcommission.nic.in/plans/planrel/fiveyr/welcome.html>

<http://planningcommission.gov.in/plans/planrel/12thplan/welcome.html>

## PATTERN OF ASSESSMENT

<b>Continuous Assessment:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 4 x 3 = 12 marks	(All questions to be answered)	
Section B – 3 x 6 = 18 marks	(3 out of 5 questions to be answered)	
Section C – 1 x 20 = 20 marks	(1 out of 2 questions to be answered)	

<b>Other Components:</b>	<b>Total Marks: 50</b>
Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – 10 x 3 = 30 marks	(All questions to be answered)	
Section B – 5 x 6 = 30 marks	(5 out of 8 questions will have to be answered)	
Section C – 2 x 20 = 40 marks	(2 out of 4 questions will have to be answered)	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIETAL ANALYSIS FOR SOCIAL WORKERS -WORKSHOP**

**CODE:19SW/SA/AW32**

**CREDITS:2**

**L T P:2 0 0**

**OBJECTIVES OF THE COURSE**

- To develop in students' a critical understanding of the society.
- To understand the political, economic and social structure of the society
- To study various social problems and its causes.

**COURSE LEARNING OUT COMES**

On successful completion of the course, students will be able to

- Understand the society
- Learn about the political, economic and social structure of the society
- Understand the various social problems
- Learn about rights of the vulnerable people

**Unit 1 Introduction**

- 1.1 Introduction to the Indian Society
- 1.2 An over view of the social problems and the rights of the vulnerable people.
- 1.3 The importance of Societal Analysis and its relevance in Social Work

**Unit 2**

**Analysis of different areas/problems in the society**

**Unit 3**

**Submission of an Assignment**

**METHODS OF ASSESSMENT**

Participation, Performance and Submission of an Assignment by the student

**End-Semester Examination- Not Applicable**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**GENERALIST PRACTICE IN SOCIAL WORK**

**CODE:19SW/MC/GP44**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To help students understand knowledge in Generalist Practice as a method of Social Work
- To equip the students, with skills, in the Generalist Practice as a method of social work practice.
- To enable students to have a holistic perspective in social work practice.

**COURSE LEARNING OUT COMES**

On successful completion of the course, students will be able to

- Apply generalist social work approach into practice
- Understand a holistic perspective in social work practice.
- Practice various generalist social work roles
- Imbibe the various skills and techniques of Generalist Practice

**Unit 1 (11 Hours)**

**Introduction to Generalist Practice**

- 1.1 Concepts – Meaning of Systems, Generalist Practice as method in Social Work; Theoretical foundations- General Systems Theory, Ecological Systems Theory. Human Beings in a Systems Framework, Applying Systems Theory to Social Work Practice.
- 1.2 Goals and Purpose of Social Work in Systems Approach
- 1.3 The Basic Systems in Generalist Practice and Resource Systems
- 1.4 Levels of Social Work Practice- Micro, Mezzo, Macro Systems. ;

**Unit 2 (11 Hours)**

**Generalist Practice – Pre Intervention phase**

- 2.1 Interaction and Engagement – Meaning, Establishing a relationship, making contacts, Interview in Interaction.
- 2.2 Assessment – Meaning, Stages in Assessment Phase - data collection. Identifying and assessing the problem,
- 2.3 Identification of the Potential Strengths and Resources.

**Unit 3** **(11 Hours)**  
**Planning**

- 3.1 Planning – Components of a Plan, Goals and Objectives, Planning with Multi-person Client Systems
- 3.2 Factors affecting a Plan of Action - Community, Agency, Social Problem, Social Worker and Client
- 3.3 Agreement between Worker and Client /negotiating contracts

**Unit 4** **(10 Hours)**  
**Intervention Phase**

- 4.1 Direct Practice and Indirect Practice,
- 4.2 Use of available Resources, Referral services, Use of Programme, coordination of services, networking
- 4.3 Mediation, Influence, Environmental Change

**Unit 5** **(10 Hours)**  
**Post-Intervention Phase**

- 5.1 Evaluation –Meaning and Types of Evaluation, Techniques for Evaluation, Recording, Programme Evaluation
- 5.2 Termination – Meaning and Types of Termination - Planned and Unplanned Termination, Components of Termination, Disengagement,
- 5.3 Recording.

**BOOKS FOR STUDY**

Hepworth, D. H. and Larsen, J. A. *Direct Social Work Practice - Theory and Skills*. London: The Dorsey Press, 1993

Louise C. Johnson and Stephen J. Yanca. *Social Work Practice: A Generalist Approach*. Allyn & Bacon, 2009.

**BOOKS FOR REFERENCE**

Ashman, Kirst, Karen, K. *Introduction to Social Work and Social Welfare - Thinking Perspectives*. USA: Thomson Kearning Brooks, 2003.

Bogo, M. *Social Work Practice- Concepts, Processes and Interviewing*. Jaipur: Rawat, 2006.

Devi, R., and Prakash, R., *Social Work Methods - Practices and Perspectives Vol 1,2,3*. Jaipur: Mangal Deep, 2004.

*Encyclopedia of Social Work, Vol. 1,2,3*. National Association of Social Workers, Washington D.C: NASW, 1996.

Goldstein, H. *Social Work Practice - A Unitary Approach*. Columbia: SC University of South Caroline Press, 1980.

Johnson, Louise. *Social Work Practice - A Generalist Approach*. London: Aelyn and Bacon, 1983.

Milner, J. and O'Bryner, P. *Assessment in Social Work*. New York: Palgrave 2002.

Payne, M. *Modern Social Work Theory*. New York: Palgrave MacMillan, 2005.

Pincus, A. and Minahan. *A Social Work Practice Model and Method*. K. Illinois: Peacock Publishers, 1973.

Thompson, N. *Understanding Social Work- Preparing and Practice*. New York: Palgrave Macmillan, 2002.

## **JOURNALS**

Journal of Advanced Generalist Social Work Practice, Springfield College  
The Advanced Generalist: Social Work Research Journal, Wichita State University

## **WEB RESOURCES**

[http://catalogue.pearsoned.ca/assets/hip/ca/hip\\_ca\\_pearsonhighered/samplechapter/0205789811.pdf](http://catalogue.pearsoned.ca/assets/hip/ca/hip_ca_pearsonhighered/samplechapter/0205789811.pdf)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)

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Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FIELD WORK - IV**

**CODE:19SW/MC/FW43**

**CREDITS:3**

**CONCURRENT FIELD WORK**

The broad aim of Field Work is to provide opportunities for students to apply the knowledge learnt in the classroom situations and to plan, implement and evaluate these experiences while working with individuals, groups and communities. These will be in keeping with the placement agency's philosophy, policy and goals and use of guided supervision. The students will be continuing their Field Work in organisations' working for the urban neighbourhood communities in which they were placed in their third semester weekly once.

**OBJECTIVES OF FIELD WORK**

- To develop an understanding and sensitivity towards the needs and problems of individuals and families
- To identify 3 cases and draw up a face sheet
- To draw up a family profile of two families
- To identify groups in existence and study the functions/ activities of the group (Youth, Women, Children and Senior Citizens).
- To conduct a group activity with any one existing group in the community

**COURSE LEARNING OUTCOMES**

On successful completion of Field Work, students will be able to

- Record the case studies of individuals
- Work with the existing community based organisations
- Apply the skills and techniques of the direct methods of Social Work
- Understand the role of family, family dynamics and other family related issues

**PATTERN OF ASSESSMENT**

- A report on their observations and learning of the organisation and in community will have to be submitted
- A viva voce will be conducted by the faculty supervisor to assess the personal and professional learning by the student

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HUMAN RIGHTS, SOCIAL JUSTICE AND ADVOCACY**

**CODE:19SW/AC/HR45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To develop an understanding of the Basic Human Rights and the Provisions for ensuring Justice
- To develop an understanding of Human Rights with specific reference to Special Groups
- To sensitise the students on the various strategies for the protection of Human Rights

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Develop an Awareness on Human Rights and Justice Issues
- Learn to promote the interests of the Marginalised groups.
- Use of strategies and methods to implement human rights as a trained Social Worker
- Use of Advocacy in field setting.

**Unit 1 (12 Hours)**

**Introduction to Human Rights**

- 1.1 Definition, Important milestones in the History of Human Rights Importance of Awareness on Human Rights
- 1.2 Introduction to Categories of Rights – Civil, Political, Social, Economic and Cultural Rights from a generational perspective, Right to Environment, Right to Sustainable Development
- 1.3 Social Justice – Concept and Meaning, Dr.B.R. Ambedkar's Views on Social Justice
- 1.4 Introduction to Protective Discrimination & Affirmative Action

**Unit 2 (13 Hours)**

**International Human Rights Instruments**

- 2.1 A brief overview on the processes: Declaration, Convention, Ratification, Reservations
- 2.2 Universal Declaration of Human Rights, 1948
- 2.3 International Covenant on Civil and Political Rights
- 2.4 International Covenant on Economic, Social and Cultural Rights

**Unit 3 (12 Hours)**

**A Brief Overview on the Indian Constitution**

- 3.1 The Preamble
- 3.2 Fundamental Rights and Fundamental Duties
- 3.3 Directive Principles of State Policy

**Unit 4 (13 Hours)**

**Justice Issues and Rights of Marginalised Groups**

- 4.1 Justice issues Concerning Children, Guiding Principles and a brief overview of the Convention on the Rights of the Child, 1989
- 4.2 Justice issues Concerning Women, a brief overview on the Convention on the Elimination of All forms of Discrimination against Women, 1979
- 4.3 Justice Issues Concerning Dalits, Tribes
- 4.4 Justice Issues Concerning Worker's Rights – Unorganised labour
- 4.5 Justice Issues Concerning Disabled
- 4.6 Justice Issues Concerning Transgender People

**Unit 5 (15 Hours)**

**Introduction to Strategies for Protection of Human Rights**

- 5.1 Role of key organisations working in the field of Human Rights
- 5.2 Introduction to Social Audit
- 5.3 Fact finding, Advocacy: Types, Lobbying, Negotiation
- 5.4 Role of National Human Rights Commission, State Human Commission
- 5.5 Human Rights Education
- 5.6 Public Interest Litigation
- 5.7 Right to Information
- 5.8 First Information Report, Free legal Aid

**BOOKS FOR STUDY**

Agarwal. *International Law and Human Rights*. New Delhi: Central Law, 2015.  
Birch Janice. *SHR: Human Rights Training Module*. New Delhi: Human Rights Law Network, 2010.

**BOOKS FOR REFERENCE**

A World Watch Institute Report. *State of the World. Progress towards a Sustainable Society*. USA: World Watch Institute, 1998.  
Bajwa, G. S. *Human Rights in India, Implementation & Violations*. New Delhi: Oscar, 1995.  
Bakshi, P. M. *The Constitution of India*. Jaipur: Rawat, 2000.  
Dewan, V. K. *Law Relating to Offences Against Women* New Delhi: Sage, 1996.  
Gupta, D. N. Chandrachud, and, Singh, *Human Rights Acts, Statutes and Constitutional Provisions*. Rajat: New Delhi, 2003.  
Human Rights Watch, *Broken People – Caste Violence Against India's "Untouchables"*. UK: Human Rights Watch, 1999.  
Jayshree, P. M. *Dalit Human Rights Violation*. New Delhi: Rajat, 2000.

**JOURNALS**

Journal of Human Rights Practice - <http://jhrp.oxfordjournals.org>

**WEB RESOURCES**

<http://www.ohchr.org>  
(United Nations Human rights: Office of the High Commissioner for Human Rights)  
<https://www.amnesty.org>  
(Amnesty International)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $4 \times 3 = 12$  marks (All questions to be answered)

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Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered)

### **Other Component:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 3 = 30$  marks (All questions to be answered)

Section B –  $5 \times 6 = 30$  marks (5 out of 8 questions to be answered)

Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19SW/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HEALTH CARE AND SERVICES**

**CODE:19SW/MC/HC53**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students understand the concept and dimensions of health- physical, social environmental and mental health.
- To enable students to obtain an insight into the etiology, symptoms, treatment, and prevention of communicable diseases, non-communicable diseases, deficiency diseases.
- To enable students to understand the alternate systems of health care and the role of the government in the health issues.

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Describe the different dimensions of health, Physical, social, environmental and mental health.
- Recognize, interpret and incorporate and also conduct awareness programmes and demonstrate on Nutrition and health in the communities they work.
- Identify and describe the different communicable and non-communicable diseases and use the knowledge acquired in the field.
- Describe the different alternate systems of health care.
- Recognize the different Government Health Care Services.

**Unit 1 (8 Hours)**

**Introduction**

- 1.1 Health – Definition, Concept of Physical, Social, Mental, Spiritual and Positive Health, Indicators of Health, Determinants of Health.
- 1.2 Concept of Prevention – Definition, Levels of Prevention, Levels of Intervention.
- 1.3 Hygiene – Definition, Importance of Personal Hygiene.
- 1.4 Sanitation – Definition, Meaning, Need and Importance.

**Unit 2 (10 Hours)**

**Nutrition and Health**

- 2.1 Nutrition – Definition, Meaning, Classification of Foods, Functions and Sources of Proteins, Fats, Minerals, Carbohydrates and Vitamins, traditional food practices, seasonally available foods.
- 2.2 Concept of - Malnutrition, PEM, Balanced Diet.

**Unit 3** (13 Hours)  
**Diseases**

- 3.1 Communicable Diseases – Definition, Meaning, Types, Causes, Symptoms, Treatment and Prevention (Malaria, Tuberculosis, HIV/AIDS)
- 3.2 Non Communicable Diseases - Definition, Meaning, Types, Causes, Symptoms, Treatment and Prevention – (Diabetes, Hypertension, Cardio- Vascular Diseases).
- 3.3 Mental Health - Definition, History, Characteristics of a Mentally Healthy Person, Types of Mental Illness – Definition, Meaning, Types, Causes, Symptoms, Treatment and Prevention - Major and Minor Mental Illnesses – Schizophrenia, MDP, Anxiety, Phobia, OCD, Hysteria).
- 3.4 Psycho-Physiological Disorders - Definition, Meaning, Types, Causes, Symptoms, Treatment and Prevention – Respiratory Disorders, Digestive Disorders.

**Unit 4** (10 Hours)  
**Alternate Systems of Health Care**

- 4.1 AYUSH (Ayurvedha, Yoga, Unani, Siddha, Homeopathy) – Definition, Etiology, Principles, Treatment Measures

**Unit 5** (11 Hours)  
**Health Care Services**

- 5.1 Health care delivery-The Model-Millennium development goals, modification of indicators relating to health in India, Voluntary Health Agencies in India – Role of - Indian Red Cross Society, Indian Council for Child Welfare, Tuberculosis Association in India, Central Social Welfare Board, Family Planning Association of India.
- 5.2 Health Programmes in India – Overview of National Malaria Eradication Programme, Diarrhoeal Diseases Control Programme, National Filariasis Control Programme, National Tuberculosis Control Programme, STD Control Programme.
- 5.3 Role of International Organisations – WHO, UNICEF, FAO.

**BOOKS FOR STUDY**

Park, J., E., and Park, K, *Textbook of Preventive and Social Medicine*. Jabalpur: Banarsidas, 2011.  
Park, K. *Textbook of Prevention and Social Medicine*. Jabalpur: Banaridas, 2011.

**BOOKS FOR REFERENCE**

Abraham, Verghese. *Introduction to Psychiatry*. BI 1996.  
Bajpey. *Textbook of Preventive and Social Medicine*. New Delhi: Jaypee Brothers Medical Publishers, 1995.  
Chauhan, S., S. *Mental Hygiene – A Science of Adjustment*. New Delhi, 2009.  
Mangal, S., K. *Introduction to Abnormal Psychology*. New Delhi: Sterling Publishers, 2004.

**JOURNALS**

Indian Journal on Public Health  
Indian Journal on Community Health

**WEB RESOURCES**

www.health.com  
www.aarogya.com



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $4 \times 3 = 12$  marks (All questions to be answered)

Section B –  $3 \times 6 = 18$  marks (3 out of 5 questions to be answered)

Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 3 = 30$  marks (All questions to be answered)

Section B –  $5 \times 6 = 30$  marks (5 out of 8 questions to be answered)

Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BASIC RESEARCH AND STATISTICS FOR SOCIAL WORK**

**CODE:19SW/MC/RS54**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To develop an understanding of the nature, purpose and importance of social work research
- To develop competence to conceptualise a problem, analyse and assess social problems and needs at the micro-level
- To acquire research skills in conducting research by developing ability to prepare appropriate tools and collect, analyse and interpret data through appropriate tables

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the nature, purpose and importance of social work research
- Develop competence to conceptualise a problem, analyse and assess social problems and needs at the micro-level
- Acquire research skills thereby conducting research by developing ability to prepare appropriate tools to collect data, analyse and interpret them through appropriate presentation – tables and diagrams.

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Social Research – Definition, Stages in the Process of Social Research
- 1.2 Concept of Objectivity in Research, Scientific Approach to Research, Variables, Concepts, Constructs, Hypothesis, Research Question
- 1.3 Types of Research
- 1.4 Social Work Research – Definition, Meaning, Stages in the Social Work Research Process. Social Work Research as a Method of Social Work

**Unit 2 (10 Hours)**

**Basic Research Designs and Tools for Data Collection**

- 2.1 Research Design – Descriptive, Experimental and Exploratory
- 2.2 Identifying and Formulating a Research Problem Relevant to Social Work
- 2.3 Sources of Data – Primary and Secondary
- 2.4 Tools for Data Collection – Observation, Observation Guide, Interview, Interview Schedule, Interview Guide, Mailed Questionnaire

**Unit 3 (11 Hours)**

**Sampling and Scaling Techniques**

- 3.1 Concepts and Meaning of Sampling – Frame, Unit and Universe
- 3.2 Sampling Techniques – Random Sampling – Simple Random, Stratified, Multistage. Non-Random Sampling–Convenient, Purposive, Snowball and Quota.
- 3.3 Measurement and Scaling Techniques – Definition, Meaning, Types, Need and Uses – of Nominal, Ordinal, Interval, Ratio.
- 3.4 Scaling Techniques: Comparative and Noncomparative scales [Scaling techniques not for testing]

**Unit 4 (11 Hours)**

**Data Processing, Analysis, Interpretation and Reportin**

- 4.1 Data Processing – Editing, Coding, Classification, Tabulation, Transcription
- 4.2 Outline of a Good Research Report
- 4.3 Diagrammatic Presentation of Data – One, Two and Three Dimensional Diagrams, Pie Charts, Pictograms and Cartograms

**Unit 5 (10 Hours)**

**Basic Statistical analysis of data**

- 5.1 Statistics – Definition, Meaning, Need and Importance of Statistics in Research
- 5.2 Frequency and Percentage Distribution – Preparation of One, Two and Three Way Tables
- 5.3 Measures of Central Tendency – Mean, Median and Mode – Definition, Meaning, Need and Importance, Calculation – Continuous and Discrete Series (Direct Method Only)

**BOOKS FOR STUDY**

Bajpai. *Methods of Social Survey and Research*. Kanpur: Kilah Ghar, Fifth Edition 2013.  
Gupta. *Statistical Methods*. New Delhi: Sultan Chand and Sons, 43<sup>rd</sup> Edition. 2011.  
Kothari C. R. *Research Methodology: Methods and Techniques*. Second Revised Edition. New Age International (P) Limited, Publishers, 2004.

**BOOKS FOR REFERENCE**

Antony, Joseph. *Methodology for Research*. Bangalore: Bangalore Theological 1986.  
Birtha, Mikkelsen. *Methods for Development Work and Research*. New Delhi: Sage, 1995.  
Hubert, M., Blalock, Jr. *An Introduction to Social Research*. New Jersey: Prentice Hall.  
Jack, D., Hougla. *Investigate Social Research Individual and Field Team Research*. London: Sage Publications, 1976.  
Jaspal, Singh. *Introduction to Methods of Social Research*. New Delhi: Sterling Publishers Pvt, Ltd, 1991.  
Kothari. *Research Methodology; Methods and Techniques*. Chennai: Wiley Easter Ltd, 1978.  
Kerlinger. *Foundations of Behavioural Research* New Delhi: Surjeet Publications, 1964.  
Ramachandran, P. *Survey Research For Social Work. A Primer: Institute of Community Organization Research*. Mumbai 1990.  
Kumar Ranjit, *Research Methodology: a step-by-step guide for beginners*. Third Edition. Sage Publications, New Delhi. 2011  
Reddy. *Research Methodology in Social Sciences*. New Delhi: Daya Publishing House, 1987.

## **JOURNALS**

The Indian Journal of Social Work Research – TISS  
Journal of Social Work

## **WEB RESOURCES**

[www.socialworksearch.com](http://www.socialworksearch.com)  
[www.socialworksearch.com](http://www.socialworksearch.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)

Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIAL WORK ADMINISTRATION**

**CODE:19SW/MC/AD54**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To help develop the ability to apply the basic principles of Social Work to administration of social welfare and development agencies
- To enable in understanding of the procedures related to establishment and management of social welfare organisation/agencies governmental and non-governmental organisations
- To assist students develop an understanding of HRM and the administration process in the agency in the total frame of Social Work practice

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Use the basic principles of Social Work Administration in Social Welfare Organisation
- Apply the procedures related to the establishment of a NGO
- Evaluate the need for Human Resource Management in an organisation
- Use the elements of administration during their concurrent Field Work

**Unit 1**

**(12 Hours)**

**Evolution of Social Welfare Administration**

- 1.1 Concept - Voluntary Social Work, Social Welfare, Social Welfare Administration
- 1.2 Evolution of Social Welfare Administration in India
- 1.3 Brief overview of Social Welfare Administration – Structure and functions of Central Social Welfare Board and State Social Welfare Board, Indian Council for Social Welfare
- 1.4 Social Work Administration as method in Social Work – Definition, Scope and Principles

**Unit 2**

**(8 Hours)**

**Elements of Administration – I**

- 2.1 Functions of the Board Members of a Social Welfare Organisation
- 2.2 Types of Committees
- 2.3 The role of Planning and Policy Making
- 2.4 Methods of Fund raising
- 2.5 Budgeting – Purpose and Principles
- 2.6 Accounting – Principles, fundamental books of accounts to be maintained in an Organisation

**Unit 3 (8 Hours)**

**Elements of Administration – II**

- 3.1 Co-ordination – Principles
- 3.2 Importance of Public Relations
- 3.3 Importance of Communication
- 3.4 Staffing – Process
- 3.5 Supervision – Purpose and Principles
- 3.6 Evaluation – Principles, Functions, Types and areas of Evaluation

**Unit 4 (15 Hours)**

**Introduction to Non-Government Organisation**

- 4.1 Definition, Characteristics, Types - Non Government Organisations
- 4.2 Role of NGOs, Problems and Challenges faced by NGOs
- 4.3 Registration Procedures related to NGOs - Societies Registration Act, 1860 and Tamil Nadu Societies Registration Act, 1975
- 4.4 Foreign Contribution Regulation Act, 2011, Tax Exemptions Available Under 80G

**Unit 5 (9 Hours)**

**Human Resources Management**

- 5.1 Meaning, Definition, nature and scope of Human Resource Management
- 5.2 Principles, Philosophy, Functions and Objectives of Human Resource Management
- 5.3 Relationship between Social Work and Human Resource Management

**BOOKS FOR STUDY**

Bhattacharya, Sanjay. *Social Work Administration and Development*. Jaipur: Rawat, 2006.  
Skidmore, Rex, A. *Social Work Administration Dynamic Management and Human Relationships*. New Jersey: Prentice Hall, 1990.

**REFERENCE BOOKS**

Chowdhry, Paul. D. *Social Welfare Administration*. New Delhi: Atma Ram, 1970.  
Dharmarajan, Shivan. *NGO Development Initiative and Public Policy*. New Delhi: Kanishka, 1998.  
Gupta G.B. *Human Resource Management*. New Delhi: Shri Sultan Chand Trust, 2003  
Kirs. Ashman. Karen. K. *Introduction to Social Work and Social Welfare, Critical Thinking Perspectives*, U.S.A: Thomson, 2003.  
Parmar, P. M. *Social Work and Social Welfare in India*. New Delhi: Sublime, 2002.  
Pawar, S. N. Ambedkar, J. B. and Shrikant, D. *NGOs and Development: The Indian Scenario*. New Delhi: Rawat, 2004.  
Wormer, Van, Katherin. *Introduction to Social Welfare and Social Work*, London: Thomson, 2006.

**JOURNALS**

Human Service Organisations, Management, Leadership and Governance-  
<http://www.tandfonline.com/action/journalInformation?journalCode=wasw20#.VOwJEdHlq1>

## **WEB RESOURCES**

<http://socialjustice.nic.in/>

<http://www.researchgate.net/journal>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)

Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FIELD WORK – V**

**CODE:19SW/MC/FW53**

**CREDITS:3**

**CONCURRENT FIELD WORK**

The broad aim of Field Work is to provide opportunities for students to apply the knowledge learnt in the classroom situations and to plan implement and evaluate these experiences while working with residents/clients in/of an institution. These will be in keeping with the placement agency's philosophy, policy and goals and use of guided supervision.

**OBJECTIVES OF FIELD WORK**

- To organise and conduct a programme based on the needs assessed
- To develop skills in resource mobilization
- To identify 3 cases and draw up a face sheet and case analysis
- To execute simple referrals
- To identify groups in existence and study the functions/ activities of the group
- To conduct group work with any one existing group
- To acquire the skills in report writing
- To acquire the basic skills of administration

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Work independently as they have undergone capacity building
- Work as part of a team
- Work in accordance to the organizational goals
- Manage time efficiently
- Apply theoretical concepts into practice

**METHODS OF ASSESSMENT**

- In relation to tasks achieved and personal growth
- An internal viva voce will be conducted.



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BASIC COUNSELLING IN SOCIALWORK PRACTICE**

**CODE:19SW/MC/CN53**

**CREDITS :3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To develop in students' basic Counselling skills through an understanding of theory and practice sessions.
- To integrate Counselling skills in Social Work Practice.
- To learn the different types of counseling

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand basic counselling skills.
- Integrate counseling skills in Social Work Practice.
- Learn the different types of Counselling
- Practice Counselling

**Unit 1 (8 Hours)**

**Concept and Foundation of Counselling**

- 1.1 Evolution of Counselling
- 1.2 Definition and Characteristics of Counselling.
- 1.3 Counselling Ethics.
- 1.4 Profile of the Counsellor and the Client
- 1.5 The Counselling relationship

**Unit 2 (6 Hours)**

**Counselling - Goals**

- 2.1 Achievement of Positive Mental Health, Resolution of Problems, Improving Personal Effectiveness, Change, Decision making, Modification of Behaviour.
- 2.2 Recording in Counselling: Importance of Recording, Skills required for Recording in Counselling, Types of Recording in Counselling.

**Unit 3 (18 Hours)**

**Egan Model of Counselling – the Skilled Approach**

- 3.1 Stage – 1 Problem Exploration and Clarification
  - Part I – Attending& Listening, orienting oneself to the present
  - Micro skills – active listening – verbal and non-verbal messages
  - And behaviour

- Part II – Helper’s Response and Clients Self Exploration
  - Helpers skills- Accurate Empathy (primary level),
  - Respect, Genuineness, Concreteness
  - Client’s skill – Self-Exploration
- 3.2 Stage – 2 Integrative understanding / dynamic self-understanding
  - Part I – Focusing, summarizing, probing for missing experiences, behavior, feelings.
  - Part II – Helper’s skills – all the skills of Stage-1, self-disclosure, immediacy, Confrontation.
  - Client’s skill – non-defensive listening, dynamic self-understanding
- 3.3 Stage-3 Facilitating action; developing a new perspective; preferred scenario
  - Part I – Helping the client see alternatives
    - Helping the client choose and formulate action plan
    - Helping the client implement and evaluate
  - Part II – Helper’s skill-
    - All the skills of stages 1 & 2
    - Elaboration of action programmes: (Problem solving, decision making, behaviour modification, ‘home work’ training in inter personal skills)
    - Support from the helper
    - Client’s skill: Cooperation, risk-taking, and acting
- 3.4 Practical sessions.

#### **Unit 4 (10 Hours)**

##### **Different Approaches and Types of Counselling**

- 4.1 Client centred Approach,
- 4.2 Cognitive Behavioural Therapeutic Approach,
- 4.3 Gestalt Counselling,
- 4.4 Transactional Analysis
- 4.5 Solution focused Counselling,
- 4.6 Crisis Intervention
- 4.7 Integrative and Eclectic Approach to Counselling
- 4.8 Directive Counselling, Non-Directive Counselling
- 4.9 Individual Counselling, Group Counselling, Community Counselling

#### **Unit 5 (10 Hours)**

##### **Counselling in Different Settings**

- 5.1 Family Counselling/Marital Counselling
- 5.2 School Counselling
- 5.3 Career Counselling
- 5.4 Industrial Counselling
- 5.5 De-addiction Counselling
- 5.6 Counselling in Disaster situations
- 5.7 Grief Counselling
- 5.8 Counselling suicidal clients.
- 5.9 Gerontological Counselling

## BOOKS FOR STUDY

*Fundamentals of Counseling*, Shertzer and Stone, Houghton Mifflin Co., 1980  
Egan Gerard. *The Skilled Helper*. Brooks: Cole, 2014.  
Rao S.Narayana, Prem Sahajpa. *Counseling and Guidance* Tata Mc GrawHill, 2016.  
*Introduction to Counseling and Guidance*, Gibson & Mitchell, PHI India Ltd. 2008

## BOOKS FOR REFERENCE

Andrew Reeves. *Counselling and Psychotherapy*. New Delhi: SAGE, 2013.  
Carl R. Rogers. *On Becoming A Person*. Boston: Houghton Mifflin, 1976.  
Colin Feltham. *Brief Counselling*, New Delhi: Tata McGraw Hill, 2010.  
Edwin J. Thomas. *Designing Interventions for the Helping Professions*. New Delhi: Sage Publications, 1984.  
Eugene Kenedy. *Crisis Counselling*. Dublin: Gill & Macmillan, 1981.  
Eugene Kenedy. *On Becoming a Counsellor*. Dublin: Gill & Macmillan, 1977.  
Gibson.L.Robert & Mitchell. *Introduction to Counselling and Guidance*. New Delhi: Prentice hall of India, 2008.  
Jones-Nelson; 2008, *Basic counseling Skills, A helper's Manual*, Sage Publication India Pvt.ltd  
Muaro, E.A. R.J. Manthei. J.J. Small. *Counselling- A Skills Approach*. New Zealand: Methuen, 1983.  
Stephen Murgatroyal. *Counselling and Helping*. London: The British Psychological Society & Methuen, 1985.  
Steve Duck. *Human Relationships*. New Delhi: Sage Publications III Edition, 1999.  
Tolbert, E.L. *An Introduction to Guidance*. Boston: Little Brown, 1982.  
William Worden, J. *Grief Counseling & Grief Therapy*. London: Tavistock, 1986.

## JOURNALS

International Journal of Psychology and Counselling  
British Journal of Psychotherapy

## WEB RESOURCES

<http://www.slideshare.net/praveensureshpai/counseling-process>  
<http://www.counselling-directory.org.uk/counselling.html>

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 4 x 3 = 12 marks	(All questions to be answered)	
Section B – 3 x 6 = 18 marks	(3 out of 5 questions to be answered)	
Section C – 1 x 20 = 20 marks	(1 out of 2 questions to be answered)	

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignments/Case Studies/Quiz/Verbatim	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – 10 x 3 = 30 marks	(All questions to be answered)	
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**STELLAMARISCOLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

(Effective from the academic year 2019–2020)

**STUDY TOUR**

**CODE:19SW/MC/ST50**

**CREDITS:CC**

**OBJECTIVES OF THE COURSE**

- To enable students to acquire knowledge on INGO's/NGO's/GO's, outside Chennai city and interact with experts in the field.
- To enable students acquire knowledge on tribals, and their indigenous practices.
- To acquire ability to critically analyse situations.

Study tours are structured experiences which provide an opportunity to the students to visit either INGO's/NGO's /GO's outside Chennai city or visit tribal communities and interact with them, learn their life style, practices and the indigenous medicines used by them. Study tours are arranged for three days. Students will learn about social realities, through inputs by experts in the field and group experiences. Study tour is part of the course completion.

**METHOD OF ASSESSMENT**

Presentation and a written report, will have to be submitted by students.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by Departments of Social  
Work and Commerce to B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CREATION, MANAGEMENT AND DEVELOPMENT OF SOCIAL  
ENTERPRISES**

**CODE:19ID/IC/SE55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To provide students with an overview on Social Enterprise as a major sector
- To orient students with case studies on Successful Social Enterprises.
- To sensitize students on the need assessments frameworks.

**OUTCOME OF THE COURSE**

- Students are enabled to identify and differentiate types of organisations involved in the Social Enterprise Sector from Private and Public sectors.
- Students are equipped with the Attitude, knowledge and skills that are important for the creation, management and development of social enterprises
- Students are trained on assessing the needs of the communities/clients to be served/ being targeted.
- Building of competencies in Social Audit of the organisations.

**Unit 1 (14 Hours)**

**The Third Sector, Emergence of Social Enterprises and the Concept of 'Business at the Base of the Pyramid'.**

- 1.1 Third Sector as a distinct Sector from Public and Private Sectors, Range of organisations that are termed as Third Sector Organisations.
- 1.2 Social Enterprises: Definition, Meaning, Factors leading to the emergence of Social Enterprises.
- 1.3 „Business at the base of the Pyramid“ – understanding the Latent Market Potential of the Poor.
- 1.4 Principles underlying the BOP concept.

**Unit 2 (16 Hours)**

**Social Entrepreneurship**

- 2.1 Characteristics and Role of a Social Entrepreneur
- 2.2 Supporting Agencies – Ashoka, Skoll Foundation, Miller Center for Social Entrepreneurship
- 2.3 Case studies: Bunker Roy – BARE FOOT COLLEGE, Joseph Nkandu – NUCAFE, Harish Hande – SELCO, Anushka Ratnayake – MYAGRO, Arunachalam Muruganantham – JAYAASHREE INDUSTRIES.

**Unit 3 (16 Hours)**

**Creation of Social Enterprise**

- 3.1 Vision, Mission, Objectives, Board
- 3.2 Need Assessment-Baseline Survey, Participatory Project Planning Techniques, PRA, RRA, Logical Frame Work Analysis
- 3.3 Development of a Product or Service

**Unit 4 (16 Hours)**  
**Management of NGOs**

- 4.1 Concept of Volunteerism , Charity, Welfare and Development
- 4.2 National Policy Related to NGO
- 4.3 Legal Aspects in NGOs
- 4.4 NGO Environment

**Unit 5 (16 Hours)**  
**Functional Framework in NGOs**

- 5.1 Office Procedure and Documentation
- 5.2 Fund Raising and Accounting Practises
- 5.3 Pareto Optimality Concept in Planning
- 5.4 Social Marketing

**BOOKS FOR STUDY**

Paramasivan C, Social Entrepreneurship, New Delhi, UBS Publishers Distributors Pvt Ltd. 2016.

Nicholls, Alex. *Social Entrepreneurship, New Models of Sustainable Social Change*, Oxford: Oxford University Press, 2011.

**BOOKS OF REFERENCE**

Ridley-Duff, R. J. and Bull, M. *Understanding Social Enterprise: Theory and Practice*, London: Sage, 2011.

Bornstein, David. *How to Change the World*, New York: Penguin Books. 2005.

Bansal, Rashmi, *I have a dream*, Noida: Westland and Tranquebar Press, 2011.

Yunus, M, *Banker to the Poor*, USA: Penguin Books, 1999

Padaki & Manjulika, Management Development in Non-Profit Organisation, New Delhi: Sage. 2005

Chambers, R. The Origins and Practice of Participatory Rural Appraisal, World Bank. UK: Elsevier Science Ltd, 1994

Crutchfield, R. Leslie and McLeod Heather, Grant, *Forces for Good: The Six Practices of High-Impact Nonprofits*, USA: HB Printing, 2007.

Kramer.R, Mark. Measuring Innovation: Evaluation in the Field of Social Entrepreneurship, USA: Foundation Strategy Group, 2005.

## **JOURNALS**

Journal of Social Entrepreneurship (<http://www.tandfonline.com>)

## **WEB RESOURCES**

<https://www.ashoka.org>

<http://www.skollfoundation.org>

Video on Arvind Hospitals - <https://www.youtube.com/watch?v=4Mg3-eOQYYQ>

Video on “Building Social Business Ventures” by Muhammad Yunus

<https://www.youtube.com/watch?v=kW-4gJmXy5M>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions will have to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions will have to be answered)

### **Other Components:**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### **End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)

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**STELLAMARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GENDER AND DEVELOPMENT – ISSUES AND CONCERNS**

**CODE:19SW/MC/GD63**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To gain an understanding of Gender positions in society
- To enable students comprehend the various domains of development and its impact on men and women
- To understand the various approaches to development processes specifically for women
- To empower students with skills in social work practice for women's development

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand gender and positions in society
- Comprehend the various domains of development and its impact on men and women
- Understand various approaches to development processes specific for women
- Equip skills in social work practice for development of women

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Meaning and definition of concepts: Gender, Sex, Transgender, and Development
- 1.2 Women in the Development Process: Need and Importance, Developmental Rights of Women, WID, WAD, GAD, GEM
- 1.3 Significance of Women's Development; Positive and Negative Indices of Women's Development

**Unit 2 (10 Hours)**

**Basic Concepts in Understanding Women's Development**

- 2.1 Gender Stereotypes, Gender Relations, Gender Division of Labour
- 2.2 Gender Roles and Responsibilities, Gender Discrimination, Equity and Equality
- 2.3 Gender Mainstreaming, Concept of Patriarchy, and Feminism

**Unit 3 (10 Hours)**

**Gender and Work**

- 3.1 Concept of Work, Glass Ceiling, Problems of Women at Work
- 3.2 Women's Triple Role, Trends in Women's Work Participation, Invisibility of Women's Work
- 3.3 Women and Self- Employment, Self- Help Groups Micro-Enterprises and Women's Development



## Unit 4

(12 Hours)

### Legislations Related to Women

- 4.1 Constitutional Provisions and Privileges, and Laws for offences against women in the Indian Penal Code.
- 4.2 Laws relating to Education and Health.
- 4.3 Laws relating to Marriage, Divorce and Maintenance
- 4.4 Laws relating to property, succession, inheritance, guardianship & adoption
- 4.5 The Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act, 2013
- 4.6 Prohibition of Sexual Harassment of Women at the Workplace Bill, 2010
- 4.7 Indecent Representation of Women (Prohibition) Act, 1986
- 4.8 Immoral Traffic (Prevention) Act, 1956
- 4.9 Dowry Prohibition Act, 1961
- 4.10 Protection of Women from Domestic Violence Act, 2005
- 4.11 National Commission for Women Act, 1990
- 4.12 CEDAW – Convention on Elimination of All Forms of Discrimination Against Women and Girls

## Unit 5

(10 Hours)

### Empowerment Strategies for Women

- 5.1 Empowerment: Definition and Meaning, Types and Levels of Women's Empowerment
- 5.2 Needs of Women – Practical and Strategic Needs of Women (PGN/SGN)
- 5.3 National Policy for Empowerment of Women 2001, Programmes and Schemes for women in India – Central and State
- 5.4 Social Work and Women's Empowerment

### BOOKS FOR STUDY

- Bhasin, Kamala and Agarwal. *Women and the Media- Analysis, Alternatives and Actions*. New Delhi: Kali and Women, 1984.
- Bhatia Anju. *Women's Development and NGOs*. Jaipur: Rawat, 2000.
- Blumberg R.L and Dwaraki L. *India's Educated Women Options and Constraints*. New Delhi: Hindustan, 1980.
- Devandar, Kiran. *Status and Positions of Women in India*. New Delhi: Shakti Books, 1985.

### BOOKS FOR REFERENCE

- Fiske T. Susan. *Handbook of Social Psychology*, Volume One, 5<sup>th</sup> Edition. Kanhere U.S. *Women and Socialisation*. New Delhi: Mittal, 1980.
- Kaushik, Susheela. *Women's Oppression – Patterns and Perspectives*. New Delhi: Shakti Books, 1985.
- Kidwai M.H. *Women under different Social and Religious Laws*. New Delhi: Seema, 1979.
- Marilee Karl. *Women and Empowerment - Participation and Decision Making*. London: Zed, 1995.
- Marilyn Carr, Martha Chen, Renana Thabvala. *Speaking Out: Women's Economic Empowerment in South Asia*. London: IT Publications on behalf of Aga Khan Foundation Canada and UNIFEM, 1996.
- Neera Desai and Maitreyi Krishnaraj. *Women and Society in India*. New Delhi: Ajanta, 1987.
- Vyas Ashutosh. *Human Rights Issues and Social Transformation*. Aadi Publications, Jaipur, India, 2018.

### JOURNALS

- Indian Journal of Gender Studies, Feb 2015
- International Journal of Gender Studies in Developing Societies

### WEB RESOURCES

- <http://www.un.org/womenwatch/daw/cedaw>
- <http://wcd.nic.in>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)

Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FIELD WORK - VI**

**CODE:19SW/MC/FW64**

**CREDITS:4**

**CONCURRENT FIELD WORK**

The broad aim of Field Work is to provide opportunities for students to apply the knowledge learnt in the classroom situations. They work with organisations, plan and implement programmes, and evaluate their experiences while working with organisations and clients. They gain administrative experiences and newtworking skills keeping with the placement agency's philosophy, policy and goals and with use of guided supervision.

**OBJECTIVES OF FIELD WORK**

- To acquire the basic skills of planning and administration
- To acquire the skills in report writing
- To acquire the skills of fund raising and resource mobilisation
- To enable students practice the Integrated Approach in specialised settings
- To capacitate students in recording/documenting their learning of Integrated Social Work process systematically, using assessment tools
- To develop skills working with different client systems using the integrated approach in practice – integrating methods, at all levels of practice – micro, mezzo, and macro.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Plan and administer work at organization level
- Raise funds for professional use.
- Practice and record their learning of Integrated Approach/Practice by assessment and assessment tools.
- Practice Integrated Approach of Social Work – at micro, mezzo, and macro levels.

**METHODS OF ASSESSMENT**

- In relation to tasks achieved and personal and professional growth and change
- An external viva voce will be conducted.

A comprehensive viva voce of all the six semesters fieldwork learning will be conducted.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**MINI RESEARCH PROJECT ON SOCIAL ISSUES**

**CODE:19SW/MC/PR64**

**CREDITS:4**

**LTP:3 0 2**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To develop an overall understanding about research projects and the process involved.
- To enable students to formulate a problem and research questions on current social issues.
- To facilitate students to frame Interview schedule, questionnaires.
- To familiarize students with using an interview schedule, questionnaire and collect data, generate tables and collate the findings of the study.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate knowledge and skills learnt in their research projects.
- Acquire knowledge; develop skills such as critical thinking and problem solving.
- Self-direct themselves in their learning and are equipped with the knowledge of doing research projects in their Ngo's.
- Apply the knowledge acquired for advanced research in higher studies.

Every student in her VI Semester is required to complete a project under the supervision and guidance of a faculty member who will guide the student on topics related to social issues and social work practice. The report will be evaluated internally by 2 examiners.

- Faculty of the Social Work Department who has guided the student
- A second faculty of the BSW Department.

The examiners shall evaluate the project report for 100 marks each. A candidate failing in the research project will be required to repeat it under guidance during the following academic year and secure at least a minimum of 50 marks.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BLOCK PLACEMENT**

**CODE:19SW/MC/BP62**

**CREDITS:2**

The Block Field Work is intended to give the students an opportunity to work as a full-time trainee in the selected organisation so as to learn the day-to-day role and tasks of a full-time social worker for 25 working days in the month of April/May.

**OBJECTIVES OF BLOCK PLACEMENT**

- To understand organization's goals and administrative functioning
- To be sensitive to existing social issues in the placement
- To be efficient in carrying out day-to-day activities of the organization
- To develop skill in documentation, communication, observation, planning and organizing programmes

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Align of activities according to organizational goals.
- Familiarize themselves with the Contextual social problems and methods being used.
- Gain confidence in using resources.
- Develop of interpersonal communication and networking.
- Use self as a tool to support clients.

**METHODS OF ASSESSMENT**

- In relation to task and personal growth.
- Sharing of their learning experience.
- Presentation of a consolidated report to be submitted.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE:BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from academic year 2019-2020)

**ECOLOGY, DEVELOPMENT AND SOCIALWORK INTERVENTION**

**CODE:19SW/ME/EI45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable the students gain an understanding on the changing environment.
- To enable the students to understand the degradation of ecology, need for protecting land resources, agriculture and water resources.
- To be aware of the issues related to environment, and the need to carry out social work interventions.
- To enable the students to understand the Agenda for green future.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Acquire relevant knowledge and recognise the changes in environment and the need for protecting the ecology, land resources, agriculture and water resources.
- Understand the importance of sustainable development and waste disposal.
- Acquire ability to discuss the ethical implications involved in protecting the environment.
- Categorize and plan for green future.
- Formulate Social work Interventions for issues related to environment.

**Unit 1 (14 Hours)**

**Ecology and Conservation of Forest**

- 1.1 Concept of Ecology, Ecosystem - types of Ecological pyramids, ecology degradation, ecological development, conservation of indigenous culture and traditions,.
- 1.2 Symbiotic relationship between tribals and forest, forest and development, focus on the inclusive growth of tribes, community participation in forest management, case study of Chipko Movement, sacred groves forests, India's Bishnoi community and their conservation practices.
- 1.3 Man and biosphere programmes; concept of conservation reserves and Community reserves, importance of wildlife corridor in minimizing the conflicts and conservation.Forestresources:economic and ecological importance of forests, forest management strategies, sustainableforestry.

**Unit 2 (11Hours)**

**Soil degradation, Social work intervention towards Sustainable development.**

- 2.1 Land as a resource, soil health; ecological importance of soil; types and causes of soil degradation; impact of soil loss and soil degradation on agriculture and

- food security; land use planning, need for soil conservation and restoration of soil fertility.
- 2.2 Food resources: World food problems, techniques to increase world food production. Effects on farming communities and food security; effects on nutrient cycles; future effects of soil degradation; emerging threats to land degradation in developing countries.
- 2.3 Sustainability-issues related to sustainability, Eco-social approach to sustainability. Right to sustainable development, Environmental Social Work- concepts, principles, advocacy, lobbying, environmental education for schools and colleges.

**Unit 3 (16 Hours)**

**Water resources and conflicts in India**

- 3.1 Water resources: supply, renewal, and use of water resources. Demand for water (agriculture, industrial, domestic); overuse and depletion of surface and ground water resources; water quality standards in India; hot spots of surface water; role of state in water resources management shortages and strategies of water conservation.
- 3.2 Water resources and sharing problems, case studies on Kaveri and Krishna river water disputes; case studies of dams-Narmada and Tehri dam – social and ecological losses versus economic benefits; Multi-purpose river valley projects in India and their environmental and social impacts.
- 3.3 National conflicts on water sharing between India and the neighbouring states; agreements to resolve these conflicts.

**Unit 4 (11 Hours)**

**Waste disposal and its effect on environment**

- 4.1 Impact of solid waste on environment, human and plant health; effect of solid waste and industrial effluent discharge on water quality and aquatic life; mining waste and land degradation.
- 4.2 Types of industrial waste: hazardous and non-hazardous; effect of industrial waste on air, water and soil, industrial waste management and its importance, stack emission control and emission monitoring. Drawbacks in waste Management techniques.
- 4.3 Municipal Solid Wastes (Management and Handling) Rules 2000; Hazardous Wastes Management and Handling Rules 1989; Bio-Medical Waste (Management and Handling) Rules 1998; Eco-friendly or green products.

**Unit 5 (11 Hours)**

**Green future**

- 5.1 Agenda of green development; reduction of ecological footprint; role of green technologies towards a sustainable future; major challenges and their resolution for implementation of green technologies.
- 5.2 Green practices to conserve natural resources (organic agriculture, agroforestry, reducing paper usage and consumption, etc.); emphasis on waste reduction instead of recycling.
- 5.3. Innovation for green future-its importance, role of advancement in science in developing environmental friendly technologies.

## BOOKS FOR STUDY

Dickman, A. J. *Complexities of conflict: the importance of considering social factors for effectively resolving human–wildlife conflict*. *Animal Conservation* 13: 458-466. 2010.

Mary, N. L. *Social Work in a Sustainable World*. Chicago: Lyceum, 2008.

Pandit, M.K. & Kumar, V. Land use and conservation challenges in Himalaya: past, present and future. 2013.

In: Soil-Brady, N.C. & Well, R.R. *The Nature and Properties of Soils* (15<sup>th</sup> edition), Pearson Education Inc. April, 2016.

Thangavel, P. & Sridevi, G. *Environmental Sustainability: Role of Green Technologies*. Springer Publications. 2015.

Zapf M. K. *Social Work and the Environment: Understanding People and Place*. Ontario: Canadian Scholars, 2009.

## BOOKS FOR REFERENCE

Arceivala, S.L. *Green Technologies: For a Better Future*. Mc-Graw Hill Publications, 2014.

Gadgil, M.. Biodiversity and India's degraded lands. *Ambio* 22: 167-172. 3. 1993.

Marsh, W. M. & Dozier, J.. *Landscape Planning: Environmental Applications*. John Wiley and Sons, 1983.

Oldeman, L. R. The global extent of soil degradation. *Soil resilience and sustainable land use*, 1994.

Peterson, G. D., Cumming, G. S. & Carpenter, S. R. Scenario planning: a tool for conservation in an uncertain world. *Conservation Biology* 17: 358-366. 2003.

Vickers, A. 2001. *Handbook of Water Use and Conservation*. WaterPlow Press.

Water- Brebbia, C.A. 2013. *Water Resources Management VII*. WIT Press.

Zapf M. K. *Social Work and the Environment: Understanding People and Place*. Ontario: Canadian Scholars, 2009.

## JOURNALS

<https://www.scirp.org/journal/oje/>

<https://theoreticalecology.wordpress.com/2016/07/28/isi-2015>

## WEB RESOURCES

[www. publications.gc.ca/Collection-R/LoPBdP/BP/bp317-e.htm](http://www.publications.gc.ca/Collection-R/LoPBdP/BP/bp317-e.htm)

[www. unep.org/Documents/Default.asp?Document ID=287](http://www.unep.org/Documents/Default.asp?Document ID=287)

[enwikipedia.org/.../United\\_Nations\\_Conference\\_on\\_Sustainable\\_Development](http://en.wikipedia.org/.../United_Nations_Conference_on_Sustainable_Development).

[www.socialworktoday.com/archive/092011p20.shtml](http://www.socialworktoday.com/archive/092011p20.shtml)

[www.ecosocialwork.org/index.php?option=com\\_content...id...](http://www.ecosocialwork.org/index.php?option=com_content...id...)

[www.academia.edu/4139398/Greeningof\\_Social\\_Work](http://www.academia.edu/4139398/Greeningof_Social_Work)

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 4 x 3 = 12 marks	(All questions to be answered)	
Section B – 3 x 6 = 18 marks	(3 out of 5 questions to be answered)	
Section C – 1 x 20 = 20 marks	(1 out of 2 questions to be answered)	

<b>Other Components:</b>	<b>Total Marks: 50</b>
Seminars/Assignments/Case Studies/Quiz/Open book tests	

<b>End-Semester Examination</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**SOCIALWORK INTERVENTION IN DISASTER MANAGEMENT**

**CODE:19SW/ME/DR45**

**CREDITS:5**

**LTP:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the various disasters
- To develop an understanding of Disaster management
- To analyse the role of a social worker in disaster management

**COURSE LEARNING OUT COMES**

On successful completion of the course, students will be able to

- Understand the various disasters.
- Respond to disaster situations
- Apply social work intervention in a disaster
- Help people affected by a disaster

**Unit 1 (14 Hours)**

**Disasters – Introduction**

- 1.1 Concept and Definition of Disaster;.
- 1.2 Types of Disaster –Nature Induced Disasters with case studies and Human Induced Disasters with case studies.
- 1.3 Impact of disasters- Physical, Psychological, PTSD, Social, Economic, Ecological and Political.

**Unit 2 (12 Hours)**

**Disaster Management Phases**

- 2.1 Goals of Disaster Management
- 2.2 Pre-disaster Phase: Prevention, mitigation, and preparedness  
Disaster Phase : Search and rescue, relief mobilization and management, evacuation. and camp management  
Post disaster Phase: Reconstruction, rehabilitation, and recovery
- 2.3 Importance of Disaster Management

**Unit 3 (13 Hours)**

**Disaster Prevention and Preparedness**

- 3.1 Reduce Vulnerability , Disaster Risk Reduction, Disaster mapping, community based disaster preparedness programme, emergency preparedness, resource utilization, public awareness and education; first-aid training,
- 3.2 Role of NGOs, INGOs in disaster situations
- 3.3 Role of Volunteers and Media in Disaster Situations

**Unit 4** **(13 Hours)**  
**Social Work Interventions in Disaster Management**

- 4.1 Disaster Assessment, SWOC Analysis, Capacity Building, advocacy, networking and co-ordination in Disaster management.
- 4.2 Disaster counselling and Crisis intervention
- 4.3 Role of a Social Worker in Disaster Management

**Unit 5** **(13 Hours)**  
**Role of the Government in disaster management**

- 5.1 Role of the Central and State Government in disaster management
- 5.2 The Disaster Management Act- 2005
- 5.3 Third UN World Conference on Disaster Risk Reduction in Sendai-2015-2030 (The Four Priorities for Action)

**BOOKS FOR STUDY**

Abarquez I. & Murshed Z. *Community Based Disaster Risk Management*. (2004).  
B.K.Khanna. (2005). *Disasters: All You Wanted to Know About*, Delhi: New India Publishing Agency, Delhi.  
*Disaster Management Act. (2005)*. Ministry of Home Affairs, Delhi: Government of India.  
Kapur, A. (2005). *Disasters in India: Studies of Grim Reality*, Jaipur: Rawat Publications.  
Singh, R.B. (2009). *Natural Hazards and Disaster Management*, Jaipur: Rawat Publications.  
Sahni, Pardeep et.al. (eds.) 2002. *Disaster Mitigation Experiences and Reflections*, New Delhi: Prentice Hall of India.

**BOOKS FOR REFERENCE**

Bose, B. C. *Disaster Management in India*. New Delhi: Rajat, 2007.  
Bose, B. C. *Disaster Management in 21<sup>st</sup> Century*. New Delhi Rajat Publication, 2007.  
Goel, S. L. *Disaster Management Organisations and Management, Health Management of Human Being and Animals*. New Delhi: Deep & Deep, 2001.  
Newburn, Tim. *Disaster & After*. London: Jessica Kingsley, 1993.  
Roy, Sanjay, K. *Refugees and Human Rights*. Jaipur: Rawat, 2001.  
Smita. *Locked Homes Empty Schools*. New Delhi: Zubaan, 2007.  
Singh, R. B. *Disaster Management*. Jaipur: Rawat, 2000.  
Sinha, Prabhas Chandra. *Disaster Management Process, Law, Policy & Strategy*. New Delhi: SBS, 2006.  
Sinha, Prabhas Chandra. *Disaster Relief, Rehabilitation & Emergency Humanitarian Assistance*. New Delhi: SBS, 2006.  
Sinha, Prabhas Chandra. *Disaster Vulnerabilities & Risks*. New Delhi: SBS, 2006.  
Sinha, Prabhas Chandra. *Disaster Mitigation, Preparedness, Recovery & Response*, New Delhi: SBS, 2006.  
Verma, K. Manish. *Development, Displacement and Resettlement*. Jaipur: Rawat, 2004.

**JOURNALS**

The International Journal of Disaster Risk Reduction (IJDRR)  
National Institute of Disaster Management (NIDM)

**WEB RESOURCES**

[www.unisdr.org](http://www.unisdr.org)  
[www.ndma.gov](http://www.ndma.gov)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 4 x 3 = 12 marks (All questions to be answered)

Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz

### **End-Semester Examination:**

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**Duration: 3 hours**

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Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**DISABILITY AND SOCIAL WORK PRACTICE**

**CODE:19SW/ME/DS45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand about different types of Disability
- To acquire knowledge on Rehabilitative measures
- To prepare the students to play an active role as social workers in working with persons with Disability

**COURSE LEARNING OUT COMES**

On successful completion of the course, students will be able to

- Understand the various disabilities
- Learn various Rehabilitation measures
- Work with persons living with disabilities as full-fledged social workers
- Learn about the Disability act 2005

**Unit 1 (14 Hours)**

**Disability**

- 1.1 Definition of Disability; Impairment and Handicap ; Causes of Disabilities;
- 1.2 Types of various Disabilities- physical, sensory, intellectual, multiple disabilities, learning disabilities, developmental disabilities, psychosocial disabilities
- 1.3 Prevention of Disabilities at Primary, Secondary and Tertiary Levels

**Unit 2 (12 Hours)**

**Impact of Disability on Persons with Disability and their Families**

- 2.1 Problems of Persons with Disability- related to activities of daily living, education, sexuality, integration, employment, interpersonal relationships, marriage;
- 2.2 Problems faced by Family members of Persons living with Disabilities
- 2.3 Needs and problems of persons living with disabilities across the Life Span.

**Unit 3 (12 Hours)**

**Contextual Understanding of Disability: Contemporary Perspectives**

- 3.1 Contextual understanding of Disability from a Medical and Social perspectives
- 3.2 Disability and Gender issues-problems faced by women and girls

with disabilities.

### 3.3 Understanding of Strengths and Limitations of Persons with Disabilities

## **Unit 4 (14 Hours)**

### **Rehabilitation Process**

- 4.1 Process of Rehabilitation: Early Identification and Treatment,
- 4.2 Education, Vocational Rehabilitation and Social Inclusion within the Family and Community
- 4.3 Different types of Aids and Appliances

## **Unit 5 (13 Hours)**

### **Intervention strategies at Individual, Family and Community levels**

- 5.1 Individual level- Counselling, Self Help/support Groups, Life Skills Enrichment
- 5.2 Family level - Family Counselling and Parent Guidance and Training
- 5.3 Community Level- Community Awareness and Education. Community based Rehabilitation, Inclusive Approach and Accessibility
- 5.4 Social Work Intervention in working with Persons living with Disabilities;
- 5.5 Persons with Disability Act, 2016

### **BOOKS FOR STUDY**

Albrecht G.L, Katherine D Selman& Michael Bury. *Hand Book of Disability Studies*. London: Sage, 2001.

Bacquer, A. and Sharma, A. (2007). *Disability: Challenges vs Responses*, Delhi: CAN Publications

Grant, Learning disability: *A Lifecycle Approach to Valuing People*. London: Open U P, 2005.

Hegarty Seamus & MithuAlur. *Education and Children with Special Needs*. London: Sage, 2002.

Karanth, Pratibha & Joe Rozario. *Learning Disability in India*. London: Sage, 2003. Moore. *Researching Disability Issues*. London: Open U P, 2005.

WHO. (2010). *Community-based rehabilitation: CBR guidelines*. Geneva: WHO Press.

### **BOOKS FOR REFERENCE**

Clark Joan Simeon. *Disabled citizens* London: George Allen & Unwin,

1970. Gajendragadkar S.N. *Disabled in India* USA: California U P, 1983.

Narasimhan M.C. *Disability a Continuing Challenge's*: Michigan U P, 1989.

### **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
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<b>Other Components:</b>	<b>Total Marks: 50</b>
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Seminars/Assignments/Problem Solving Case Studies/Quiz

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
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Section A – 10 x 3 = 30 marks (All questions to be answered)

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020 onwards)

**FOOD AND NUTRITION**

**CODE:19SW/ME/FN45**

**CREDITS:5**

**L T P:500**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to develop an overall understanding about the importance of Nutrition.
- To enable students to understand the food groups, deficiency diseases, adulteration in food and the government programmes on Nutrition.
- To assist students to understand the world food problems and importance of Food Security.
- To create awareness on deriving maximum benefits from available food resources.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Analyze the connections between health and food choices.
- Learn about the guidelines Food Guide Pyramid and how to use it in their daily eating habits.
- Six classes of nutrients found in food and the roles they play in nutrition.
- Acquire knowledge on food adulteration.
- Evaluate their own eating habits and food choices and make adjustments needed.

**Unit 1**

**(14 Hours)**

**Introduction to Food and Basic Nutrition**

- 1.1 Food – Definition, Meaning, Classification of foods, Function and Sources of Carbohydrates, Proteins, Fats, Minerals, and Vitamins (Fat soluble & water soluble) Energy Yielding, Body building, Protection and Regulation and Maintenance foods, concept of a Balanced Diet.
- 1.2 Nutrition – Definition of Nutrition and Nutrients, interrelationship between Nutrition and Health.
- 1.3 Food Guide – Basic food groups, usage of the food guide, traditional foods, Meal planning.
- 1.4 Role of Water in Nutrition.

**Unit 2**

**(14 Hours)**

**Health and Nutritional Problems in India**

- 2.1 Definition of Health and Fitness, Factors influencing Health and Wellbeing.
- 2.2 Nutrient requirements for pregnant women, lactating mothers, pre-school and School going and elderly.
- 2.3 Exercise, Physical Fitness and health- their inter- relationship. Gender and Health.
- 2.4 Protein Energy Malnutrition, Micronutrients-Calcium, Iron, Iodine, Fluorine,

Sodium, Potassium and Vitamin Deficiencies, Preventive measures, Guidelines for Healthy Eating, RDA.

**Unit 3 (12 Hours)**

**Food Adulteration, Contamination and Food Hygiene**

- 3.1 Common Adulterants, Food colourants –Permitted and Non permitted flavours of Spices, vegetables and fruits, fats and oils, meat, milk- artificial flavours. Health hazards of food adulterants.
- 3.2 Contamination of foods -different sources of contamination of foods-by plants, animal, sewage, soil, air, water, human beings. Fermentation, Putrefaction and Decay.
- 3.3 Food Hygiene - Food safety, Hygienic ways of handling food, Food Laws.

**Unit 4 (14 Hours)**

**Government Programmes on Nutrition and National and International Organisations**

- 4.1 Integrated Child Development Services (ICDS) Programme, Nutrient Deficiency Control Programme
- 4.2 Supplementary Feeding Programme
- 4.3 National Organisations – ICMR, ICAR, CSWB, SSWB, NIN, CSIR, International Organisations – FAO, WHO, UNICEF, AFPRO, World Bank, CARE – their role in combating Malnutrition

**Unit 5 (11 Hours)**

**Food Security**

- 5.1 Definition, World Food problems
- 5.2 Agricultural Liberalisation and Food Security
- 5.3 Right to Food, National Food Security Act 2013

**BOOKS FOR STUDY**

Bamji MS, Krishnaswamy K, Brahman G NV (2009). Textbook of Human Nutrition, 3rd Edition, Oxford and IBH Publishing Co. Pvt. Ltd.  
Srilakshmi (2007). Food Science, 4th Edition. New Age International Ltd.

**BOOKS FOR REFERENCE**

Bansal Shrinandan Food And Nutrition AITBS Publishers - Delhi, 2018  
Seth V, Singh K Diet planning through the Life Cycle: Part 1. Normal Nutrition. A Normal Nutrition. A Practical Manual, Fourth edition, Elite Publishing House Pvt Ltd, 2005.  
Wardlaw MG, Paul M Insel Mosby Perspectives in Nutrition, Third edition, 1996.

**WEB RESOURCES**

[en.wikipedia.org/wiki/Nutrition](http://en.wikipedia.org/wiki/Nutrition)  
[www.nutritionj.com/](http://www.nutritionj.com/)  
[www.who.int/topics/nutrition/en/](http://www.who.int/topics/nutrition/en/)

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 4 x 3 = 12 marks	(All questions to be answered)	
Section B – 3 x 6 = 18 marks	(3 out of 5 questions to be answered)	
Section C – 1 x 20 = 20 marks	(1 out of 2 questions to be answered)	

**Other Components:****Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A –  $10 \times 3 = 30$  marks (All questions to be answered)  
Section B –  $5 \times 6 = 30$  marks (5 out of 8 questions to be answered)  
Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered)



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**SYLLABUS**

(Effective from the academic year 2019-2020)

**MIGRATION ISSUES AND HUMAN SECURITY**

**CODE:19SW/GE/MH22**

**CREDITS:2**

**L T P:2 0 0**

**TOTALTEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- Understand migration in the context of development and displacement
- Explore current and emerging trends on internal and International migrations
- Acquire knowledge on determinants of migration and rights of Migrants
- Understand the relationship between migration and development

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- gain an understanding on migration in the context of development and displacement
- explore current and emerging trends on internal and International migrations
- acquire knowledge on determinants of migration and rights of Migrants
- comprehend the relationship between migration and development

**Unit 1 (8 Hours)**

**Introduction to Migration**

- 1.1 Meaning and definition of Migration, Push and Pull Factors of migration.
- 1.2 Types of Migration, Concepts related to migration: Poverty, Unemployment, Seasonal Employment, Displacement, Brain Drain, Remittances, Feminisation of Migration, Illegal Migrants, Human Trafficking, Refugees, Statelessness, Naturalised Citizen, Migration and assimilation.
- 1.3 Patterns and Trends, Internal and International Migrants - Issues and Challenges with case studies
- 1.4 Migration in India: Introduction, India Diaspora, Labour Migration in India, Socio Cultural Implications. Intra and Inter-State migration, case studies.

**Unit 2 (10 Hours)**

**Migration Policies**

- 2.1 Globalisation and Migration; Trends in International Migration; Skill and Gender Composition of Migration Flows.
- 2.2 UN Convention 1990 - The Protection of the Rights of All Migrant Workers and members of their families, UN International Migration Policies, International Organisation for Migration (IOM), International Migration Law (IML), Role and Functions of Ministry of Overseas Affairs.

2.3 Indian Emigration Policy, the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.

### **Unit 3**

**(8 Hours)**

#### **Migration and Human Security**

- 3.1 Meaning and Concept of Human Security, Need and Importance
- 3.2 Multi-Lateral Protection and Migration Issues, Colombo Process
- 3.3 Challenges faced by migrants: Social, Environmental, Cultural and Psycho-social challenges of the migrants with case studies
- 3.4 Laws related to migration and rights of migrants, Laws related to migrant workers in India.

#### **BOOKS FOR STUDY**

Amal Datta, *Human Migration. A Social Phenomenon*. India: Mittal, 2003.

Caroline B. Brettel, James F. Hollifield, *Migration Theory: Talking Across Disciplines*, Routledge, 2000.

Devesh Kapur. *Diaspora, Development, and Democracy: The Domestic Impact of International Migration from India*. India: Princeton University Press, 2010.

#### **BOOKS FOR REFERENCE**

David. J. Siddle. *Migration, Mobility and Modernisation*. Liverpool: Routledge, 2012

Mansell Prothero. R and Murray Chapman. *Circulation in Third World Countries*. London: Routledge and Kegan Paul, 1983.

#### **JOURNALS**

Internal Migration in India, Workshop Compendium Vol 1 & 2, UNICEF in collaboration with ICSSR, SDTT.

Ethnicity, Identity and Migration Studies, Routledge, Taylor & Francis Group. Migration and Development, Routledge, Taylor & Francis Group.

Migration Studies is an international refereed journal, Oxford University Press. Journal of International Migration and Integration, Population Studies, Springer Journal of Immigrant & Refugee Studies, Routledge, Taylor & Francis Group. Crossings: Journal of Migration and Culture, Intellect Publishers, USA

Internal Migration in India- Initiative for a better Inclusion of Internal Migration in India – Policy Briefs.

India Migration Report 2009 - Past, Present and the Future Outlook, Cambridge University Press, New Delhi

#### **WEB RESOURCES**

<http://www2.ohchr.org/english/bodies/cmw/cmw.html>  
<http://moia.gov.in/services>

#### **PATTERN OF ASSESSMENT**

**No End-Semester Examination:**

**Other Components:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests/Test

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

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**SYLLABUS**

(Effective from the academic year 2019–2020)

**MARRIAGE AND FAMILY LIFE EDUCATION**

**CODE:19SW/GE/MF22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to establish a meaningful understanding of family life, marriage and responsible parenthood.
- To enable students to acquire skills necessary to develop and maintain satisfying and stable relationships.
- To enable students to gain knowledge on the services available for the welfare of the family.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the meaning of marriage and family life.
- Analyze the conflicts leading to disorganization in the family.
- Understand the LGBT issues.
- Acquire knowledge about family welfare services.

**Unit 1 (9 Hours)**

**The Family**

- 1.1 Definition, Characteristics and Functions of a Family, Importance of the Family for Individual, Types of Family, Changing Trends
- 1.2 Marriage: Definition, Functions and Types of Marriages, Marriage- a Relationship, Purpose of Marriage, Reasons for Marriage - Positive and Negative, Right Outlook, Live-in-relationship and problems associated with it.

**Unit 2 (9 Hours)**

**Conjugal Harmony**

- 2.1 Husband and Wife Relationship: Differences between Men and Women, Accepting differences, Mutual Adjustments, Changing Roles of Husband & Wife Today (Career Women) and Appropriate Division of Roles
- 2.2 Communication in Marriage, Importance of Communication Between Partners in Marriage, Importance of Listening in Marriage, Handling Conflicts in Marriage.
- 2.3 Sexuality: Definition, Determinants of Sexuality, Sex Education- Female Reproductive System, Male Reproductive System, LGBT, issues, Fear of Sex, Pregnancy and Birth. Family Planning.

**Unit 3****(8 Hours)****Family Disorganization**

- 3.1 Factors Contributing to Dysfunction of Family, Families in Difficult Situations (Harassment and Violence in Families, Addiction, Extra-Marital Affairs, Marital Rape, STD, HIV / AIDS, gonorrhea, syphilis, separation, Divorce, Desertion, Single Parent Families.
- 3.2 Family Welfare Services  
Pre-Marital Counselling, Family Counselling Centres, Family Court, All Women's Police Station.

**BOOKS FOR STUDY**

H. Elizabeth Peters and Claire M. Kamp Dush *Marriage and Family Perspectives and Complexities* Columbia University Press 2009.

Mary Ann Lamanna and Agnes Riedmann *Marriages, Families, and Relationships: Making Choices in a Diverse Society*, Loose-Leaf Version 13th Edition 2017.

Kapadia, K., M. *Marriage and Family in India*. Australia: Oxford University Press, 1976.

William, J., Goode. *The Family*. New Delhi: Prentice Hall of India, Pvt. Ltd., 1989.

**BOOKS FOR REFERENCE**

Betty, Carter and Monica, Mc Goldrick. *The Changing Family Life Cycle – A Framework for Family Therapy*. London: Ashgate, 1974.

Evelly, Millis, Duvall. *Family Development*. London: Routledge and Kegan Paul, 1982.

Kaila, H., L. *Women, Work And Family*, New Delhi: Rawat Publications, 2005.

Klemers. *Marriage and Family Relationships*. London: Sage Publications 1995.

Marie, Mascarenhas. *Family Life Education of Value Education*. New Jersey: Prentice Hall 1999.

Pimeta, J. *Grooming you for Marriage*. Mumbai: St. Paul's Publications, 1998

**JOURNALS**

Journal of Family Issues  
Journal of Marriage and Family Life

**WEB RESOURCES**

[www.familylife.com](http://www.familylife.com)  
[www.focusonthefamily.com](http://www.focusonthefamily.com)

**PATTERN OF ASSESSMENT****No End-Semester Examination****Other Components:****Total Marks: 50**

Seminars/Assignments/ Case Studies/Quiz/Open book tests/Test

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**SYLLABUS**

(Effective from the academic year 2019–2020)

**UN SYSTEMS FOR DEVELOPMENT AND SOCIAL CHANGE**

**CODE:19SW/GE/UN22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students familiarise with UN systems and frameworks for development
- To understand the global social issues
- To familiarise students with different UN organisations – its aims and programmes

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate a good comprehension on the various UN systems
- Identify and analyse the global social issues
- Articulate the role of youth in bringing about social change
- Appreciate the role and functions of the various UN organisations while working with the people in need

**Unit 1 (8 Hours)**

**The United Nations System**

- 1.1 Historical Evolution, Main aim of the United Nations; Membership - rules
- 1.2 UN Principal Organs
- 1.3 UN Charter
- 1.4 International Observances of specific dates and years

**Unit 2 (9 Hours)**

**Global Issues on the UN Agenda: Brief Overview**

- 2.1 Women, Youth, Children, Refugees, Human Rights, Disaster relief, Disability, Food, Education, AIDS, Agriculture and Elderly
- 2.2 Millennium Development Goals, Sustainable Developmental Goals

**Unit 3 (9 Hours)**

**Programmes of the UN – Aims and Programmes**

- 3.1 UN-Women, United Nations Development Programme (UNDP), United Nations Children's Fund (UNICEF), Office of the United Nations High Commissioner for Refugees (UNHCR), Office of the United Nations High Commissioner for Human Rights (OHCHR), World Health Organisation (WHO), Food and Agriculture Organisation (FAO), World Food Programme (WFP), United Nations Educational Scientific and Cultural Organisations (UNESCO), Joint United Nations Programme on HIV/AIDS (UNAIDS)
- 3.2 Other related agencies: International Labour Organisation (ILO), United Nations Environment Programme (UNEP)

### **BOOKS FOR STUDY**

Durch William. J, ed., *The Evolution of UN Peace Keeping: Case Studies and Comparative Analysis*. New York: St Martin's, 1993.

Narasimhan, C.V., *The United Nations – An Inside View*, New Delhi: Vikas 1988.

### **BOOKS FOR REFERENCE**

Basu, Rumki. *UN Structure and Function: An International Organisation*. New Delhi: Sterling, 1993.

Black, K. J. *Development in Theory and Practice- Paradigms and Paradoxe*. Jaipur: Rawat, 2007.

Boulder, Colo. *The United Nations and the Changing World Politics*. New York: West View, United Nations, 1997.

Pant, S. K. *Human Development- Concept and Issues in the Context of Globalisation*. Jaipur: Rawat, 2006.

Pawar, S. N. Ambekar, J., B., and Shrikant, D. *NGOs and Development - The Indian Scenario*. Jaipur: Rawat, 2004.

Verma, K. Manish. *Development, Displacement and Resettlement*. Jaipur: Rawat 2004.

Willets, Peter. *The Conscience of the World: The Influence of Non-Governmental Organisations in the UN Systems*. Washington DC: Brookings Institutions, 1996.

### **JOURNALS**

UN Chronicle (2007, 2008)

### **WEB RESOURCES**

Academic Council on the United Nations System: [www.brown.edu/departments/ACUNS/](http://www.brown.edu/departments/ACUNS/)

United Nations: <http://www.unitednations.org>

World Bank: <http://www.worldbank.org>

### **PATTERN OF ASSESSMENT**

**Other Components:**

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests/Scrap

Book/Written tests

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**SYLLABUS**

(Effective from the academic year 2019-2020)

**HUMAN RIGHTS AND JUSTICE ISSUES**

**CODE:19SW/GE/HJ22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To develop in students an overall understanding of the Basic Human Rights and Justice issues
- To develop in students a commitment towards ensuring Human Rights with specific reference to Special Groups
- To sensitise the students on the various Human Rights and Justice Issues prevailing in the Indian Society

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Develop an Awareness on Human Rights and Justice Issues
- Promote the interests of the Marginalised groups.
- Develop sensitivity on rights of self and others
- Use of strategies and methods to safeguard human rights

**Unit 1**

**(6 Hours)**

**Introduction to Human Rights**

- 1.1 Definition and Importance of Human Rights, Important historical milestones in the Evolution of Human Rights
- 1.2 Universal Declaration of Human Rights, 1948, International Covenant on Civil and Political Rights, 1966, International Covenant on Economic, Social and Cultural Rights
- 1.3 Indian Constitution: Fundamental rights and Duties, Directive Principles of State Policy.

**Unit 2**

**(11 Hours)**

**A Brief Overview of Justice Issues Concerning:**

- 2.1 Women
- 2.2 Children
- 2.3 Dalits and Tribes
- 2.4 Unorganised Labourers
- 2.5 Prisoners
- 2.6 Agricultural farmers
- 2.7 Displaced people
- 2.8 Differently abled

## Unit 3

(9 Hours)

### Introduction to Strategies for Protection of Human Rights

- 3.1 Consumer rights
- 3.2 Public Interest Litigation
- 3.3 Right to Information
- 3.4 Free legal Aid
- 3.5 Key organisations working in the field of Human Rights.

### BOOKS FOR STUDY

Agarwal. *International Law and Human Rights*. New Delhi: Central Law, 2015.  
Birch Janice. *SHR: Human Rights Training Module*. New Delhi: Human Rights Law Network, 2010.

### BOOKS FOR REFERENCE

A World Watch Institute Report. *State of the World. Progress towards a Sustainable Society*. USA: World Watch Institute, 1998.  
Bajwa, G. S. *Human Rights in India, Implementation & Violations*. New Delhi: Oscar, 1995.  
Bakshi, P. M. *The Constitution of India*. Jaipur: Rawat, 2000.  
Dewan, V. K. *Law Relating to Offences against Women* New Delhi: Sage, 1996.  
Gupta, D. N. Chandrachud, and, Singh, *Human Rights Acts, Statutes and Constitutional Provisions*. Rajat: New Delhi, 2003.  
Human Rights Watch, *Broken People – Caste Violence Against India's "Untouchables"*. UK: Human Rights Watch, 1999.  
Jayshree, P. M. *Dalit Human Rights Violation*. New Delhi: Rajat, 2000

### JOURNALS

Journal of Human Rights Practice - <http://jhrp.oxfordjournals.org/>

### WEB RESOURCES

<http://www.ohchr.org>  
(United Nations Human Rights: Office of the High Commissioner for Human Rights)  
<https://www.amnesty.org>  
(Amnesty International)

### PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 4 x 3 = 12 marks (All questions to be answered)		
Section B – 3 x 6 = 18 marks (3 out of 5 questions to be answered)		
Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered)		

### Other Component:

**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### No End-Semester Examination



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**General Elective Course Offered by Department of Social Work to**  
**B.A. / B.Sc. /B.Com. /B.B.A. / B.C.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CONFLICT AND PEACE BUILDING**

**CODE:19SW/GE/CP22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To develop appreciation for India's multi-cultural and multi- religious traditions and sensitivity towards difference
- To create peace and integration among people
- To develop the capacity to understand the wide range of activities associated with capacity building, reconciliation and societal transformation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand and appreciate India's multi-cultural and multi- religious traditions and sensitise towards differences.
- Demonstrate knowledge of conflict analysis, conflict resolution, and conflict prevention.
- Describe general patterns in the causes, development and resolution of conflicts at various levels of analysis and an understanding of the need to create peace and integration among people.
- Have an understanding about a wide range of activities associated with capacity building, reconciliation and societal transformation.

**Unit 1**

**(9 Hours)**

**Introduction to Conflict and Peace**

- 1.1 Conflict – meaning and definition, sources and types of conflict; Other related concepts to conflict – violence, difference between conflict and violence, terrorism, war, genocide
- 1.2 Brief overview of problems in India and its causative factors: criminalisation, communalisation, Caste violence, communal violence, state-sponsored violence, resource-based violence, religious fundamentalism, regionalism, fanaticism.
- 1.3 Peace – meaning and definition; Other related concepts to peace: peace making, peace keeping, peace building, and reconciliation.
- 1.4 Indian thinkers and the concept of Peace: Kautilya, Buddha and Gandhi

**Unit 2**

**(8 Hours)**

**Response, Mechanism and Techniques for coping with Conflict**

- 2.1 Working on Rights Based Approach and The Gandhian Approach
- 2.2 Religion – major religions and their philosophy: techniques/methods of conflict transformation with special reference to Christianity, Buddhism, Hinduism, Islam and Jainism

- 2.3 Win-lose, lose-lose, win-win outcomes.
- 2.4 Skills in Peace Building - Effective Communication, Dialogues, Negotiation, Empathy, Problem Solving

### **Unit 3 (9 Hours)**

#### **Peace Interventions and Social Change**

- 3.1 The Role of Civil Society, Media, and Religion in Building Lasting Peace
- 3.2 Peace Intervention Models - Overview: John Paul Lederach's Model of Hierarchical Intervention Levels and Johan Galtung's Model of Conflict Resolution
- 3.3 National and International agencies and their Interventions: UN Initiative for Peace – specialised agencies: ICJ, EU, AU; Peace March, Peace Movements, and Peace Corps

#### **BOOKS FOR STUDY**

- Kalapati Joshua, M.M. Ross, C.S.E. Ross. *An Introduction to Peace and Conflict Studies in Colleges*. Delhi: Cambridge Press, 2015.
- Raghavan V.R. *Conflict Resolution and Peace Building in Sri Lanka*, New Delhi: Tata McGraw-Hill, 2005
- Shukla R.P. *Value Education and Human Rights*. New Delhi: Sarup & Sons, 2004.

#### **BOOKS FOR REFERENCE**

- Arulsamy. S. *Religion for a New Society*. Delhi: ISPCK, 2000.
- Bercovitch. J., & Jackson. R. *Conflict Resolution in the Twenty-first Century: Principles, Methods, and Approaches*. Ann Arbor, MI: University of Michigan Press, 2009.
- Baskaran M. Willaim. *Indian Perspectives on Conflict Resolution*. Kerala: Gandhi Media Centre, 2004.
- Dominelli Lena. *Anti-Oppressive Social Work Theory and Practice*. New York: Palgrave Macmillan, 2002.
- Esman J. Milton. *An Introduction to Ethnic Conflict*. Cambridge: Polity Press, 2004.
- Galtung Johan. *Peace by Peaceful Means: Peace and Conflict, Development and Civilisation*. New Delhi: Sage Publications, 2012.
- Gangrade K. D. *Religion and Peace: A Gandhian Perspective*. New Delhi: Gandhi Smriti and Darshan Samiti, 2001.
- Gould William. *Religion and Conflict in Modern South Asia*. India: Cambridge University Press, 2012
- Marchetti Raffaele and Tocci Nathalie. *Conflict Society and Peacebuilding: Comparative Perspectives*. New Delhi: Routledge Avantika Printers Pvt. Ltd., 2016.
- Oberschall Anthony. *Conflict and Peace Building in Divided Societies: Responses to Ethnic Violence*. New York: Routledge Publications, 2007.
- Raghavan V.R. and Fischer Karl. *Conflict Resolution and Peace Building in Sri Lanka*. New Delhi: Tata Mc Graw-Hill Publishing Company Ltd., 2005.
- Raj Bala Mathur. *NGOs and Human Rights Movements*. Jaipur: Aadi, 2012.
- Samaddar Ranbir. *Peace Studies: An Introduction to the Concept, Scope, and Themes*. New Delhi: Sage Publications, 2004
- Sumit Dutta. *Social Work and Social Development*. New Delhi: Wisdom Press, 2013.
- Thomson Neil. *Anti-Discriminatory Practice*. London: Macmillan Press, 1997.
- Thomson Neil. *Promoting Equality- Challenging Discrimination and Oppression*. New York: Palgrave Macmillan, 2003.
- Upadhayaya Priyankar and Schmiem Kumar. *Peace and Conflict: The South Asian*

*Experience*. India: Foundation Books, Cambridge University Press, 2014.

Venugopal C. N. *Religion and Indian Society: A Sociological Perspective*. New Delhi: Gyan Publishing House, 1998.

Vyas Ashutosh. *Human Rights Issues and Social Transformation*. Jaipur: Aadi Publications, 2018.

Webel P. Charles and Johansen Jorgen. *Peace and Conflict Studies: A Reader*. New York: Routledge Canada and Padstow, Cornwall, 2012.

## **PUBLICATIONS**

- *Preparing for Peace: Conflict Transformation Across Cultures*, Syracuse University Press, 1995, ISBN 0-8156-2725-4
- *Building Peace: Sustainable Reconciliation in Divided Societies*, U.S. Institute of Peace, 1997, ISBN 1-878379-73-9
- *The Journey Toward Reconciliation*, Pennsylvania: Herald Press, 1999, ISBN 0-8361-9082-3
- *A Handbook of International Peace building: Into The Eye Of The Storm*, Jossey-Bass, 2002, ISBN 0-7879-5879-4
- *The Little Book of Conflict Transformation*, Good Books, 2003, ISBN 1-56148-390-7
- *The Moral Imagination: The Art and Soul of Building Peace*, Oxford University Press, 2005, ISBN 0-19-517454

## **PATTERN OF ASSESSMENT**

### **No End-Semester Examination**

#### **Other Components:**

#### **Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BSW DEGREE: BACHELOR OF SOCIAL WORK**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LEADERSHIP DEVELOPMENT TRAINING**

**CODE:19SW/UI/LT23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To understand the meaning and concept of leadership, skills and management
- Gain knowledge about the basics of training and development
- Develop a training programme for target groups

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Will build leadership skills
- Will understand the values, ethics and functions of leadership
- Will acquire capacity to train people
- Will be able to evaluate and monitor programmes

**Unit 1**

**Introduction to Leadership**

- 1.1 Leadership: Meaning and Definition
- 1.2 Types of leaders and Styles of Leadership
- 1.3 Characteristics and Functions of Leadership, Values and Ethics of Leadership
- 1.4 Theories of Leadership: Leader Member Exchange Theory; Contingency Theory; Path- Goal Leadership Theory; Transformational Leadership Theory, and Charismatic Theory

**Unit 2**

**Leadership**

- 2.1 Team building: Definition, Steps to Team Problem Solving - Brain Storming
- 2.2 Skills in Leadership: Basic and Advanced Skills in Leadership
- 2.3 Strategic Leadership: Importance and the Nature of Strategic Leadership - Components of Strategic Leadership Practicum - Biographical Study of Leaders

**Unit 3**

**Understanding Training**

- 3.1 Understanding of Training - Meaning and Scope, Concept of Training, Training and Education, Training and Teaching, Key Facets of Training, Participatory Training, Facilitative Training
- 3.2 Levels of Training, Modes of Training - Face-to-Face Training, Distance Training, E-training, Key Roles and Responsibilities of the Trainers

- 3.3 Training Styles: Training Style, Personal Needs of Trainers, Power and Influence Factors, Increasing Effectiveness, Learner-Centered Versus Information-Centered, Key Elements of a Trainer's Style

## **Unit 4**

### **Training and Development Methods**

- 4.1 Importance and Functions of Training and Development Methods
- 4.2 Training and Development Methods: Lecture, Case study, Role-play
- 4.3 Management Games, Assignments, Group Discussions, Panel Discussions
- 4.4 Brainstorming, Preparing and using Training Support Materials, Training through Placements

## **Unit 5**

### **Evaluation of Training and Development Programmes**

- 5.1 Need and Purpose of Evaluation of Training Programmes
- 5.2 Monitoring and Improving Training during the Programme
- 5.3 Stages of Evaluation in Training Programmes - Pre-training, Ongoing, End Programme and Post-training Evaluation.

## **BOOKS FOR LEARNING**

Du Brin. *Leadership Research Findings & Skills*. Chennai: All India Publishers and Distributors, 1998.

Peter. G. *Leadership: Theory and Practice*. Sage Publication, New Delhi (2005).

Rolf P Lynton, Udai Pareek. *Training for Development*. 2nd Edition, Vistaar Publications, New Delhi (1990).

## **BOOKS FOR REFERENCE**

Anthony. *Training and Development*. Infinity Books, 2004.

Agochiya Devendra. *Ellesy Trainer's Hand Book*. California: Sage, 2007.

Dugan Laird. *Approaches to Training and Development*. Jaipur: Rawat, 2007.

Foshay, R Wellesley, Silber, H Kenneth, Stelnicki, B Michael. *Writing Training Materials that Work*. USA Landale: Jossey-Bass, 2003.

Patel, Ashraf, et.al. *The Ocean in a drop: Inside – out Youth Leadership*. New Delhi: Sage, 2013.

Posner, K. *Leadership Challenges (3rd Edn.)* New Delhi: Wiley India Pvt Ltd., 2006.

Rao P L. *Enriching Human Capital through Training and Development*. New Delhi: Excel Books, 2008.

Robert Mai, and Allen Kakerson. *The Leader as a Communicator*. New Delhi: Prentice Hall, 2007.

Robert F Mager HRD. *Training and Development – Vol 5 (Goal Analysis)*. Jaico, 1999.

Sudarshan Kumar Bhatia. *Training and Development Concepts and Practices*. New Delhi: Elegant, 2009.

William J Rothwell. *Beyond Training and Development*. Mumbai: Jaico, 2007.

## **JOURNAL**

The Leadership Quarterly, Elsevier

## **WEB RESOURCES**

[http://changingminds.org/disciplines/leadership/theories/leadership\\_theories.htm](http://changingminds.org/disciplines/leadership/theories/leadership_theories.htm)

<http://www.leadersdirect.com/mind.html>

[http://www.nwlink.com/~donclark/leaderrship/development/leadership\\_development\\_model.html](http://www.nwlink.com/~donclark/leaderrship/development/leadership_development_model.html)

<http://www.see.ed.ac.uk/~gerard/MENG/ME96/index.html>

[www.businessballs.com](http://www.businessballs.com)

## **PATTERN OF ASSESSMENT**

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 marks (All questions to be answered)  
Section B – 5 x 6 = 30 marks (5 out of 8 questions to be answered)  
Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

### Upon graduation, students of Stella Maris College will

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities



**STELLA MARIS COLLEGE (AUTONOMOUS), CEHNNAI – 600 086**

**DEPARTMENT OF BOTANY**

**PROGRAMME DESCRIPTION**

The B. Sc. Programme in Plant Biology and Plant Biotechnology offers a comprehensive blend of classical and contemporary branches in botany and biotechnology.

The first year focuses on the study of the lower groups of plants and on the basics of biotechnology. The second year deals with an in-depth study of branches like taxonomy, anatomy and phytotherapy. The final year includes the study of genetics, ecology, cell and molecular biology, microbiology, physiology and applied biotechnology.

Regular practical sessions with tests and examinations are held at designated times.

On completion of the programme, the student will have a thorough knowledge of the subject in both theory and applications through practical work, which in turn will provide a platform for a promising career as well as higher studies in botany and biotechnology.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On completion of this programme, students will be able to

- describe the structure and reproduction of the different forms of plant life from lower to higher
- compare the life-cycles of different groups of plants
- calculate the quantitative parameters of plant community life
- define technical terms in all branches of botany
- assign a given plant to its respective family
- solve problems in genetics
- construct the floral formula and floral diagram of a flower
- draw neat, labelled scientific diagrams wherever required
- identify any plant or specimen, type of gene interaction or spotter in botany
- spot- at-sight plants or specimens
- evaluate processes in botany
- analyze a family history chart
- master the technique of isolating microorganisms
- understand the biosynthesis of nucleic acids
- comprehend the stages in cell division
- carry out research in plant biotechnology



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH V.A.-PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19BT/MC/AF14	Algae, Fungi and Lichens	4	4	1	0	3	50	50	100
19BT/MC/P112	Algae, Fungi and Lichens-Practical	2	0	0	3	3	50	50	100
19BT/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
<b>Allied Core Offerd to the Department of Zoology</b>									
19BT/AC/GB14	General Botany I	4	4	0	0	3	50	50	100
19BT/AC/P111	General Botany I-Practical	1	0	0	2	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
<b>SEMESTER-II</b>									
19BT/MC/BP24	Bryophytes, Pteridophytes and Gymnosperms	4	4	1	0	3	50	50	100
19BT/MC/P222	Bryophytes,Pteridophytes and Gymnosperms-Practical	2	0	0	3	3	50	50	100
19BT/MC/BB23	Basics of Applied Biotechnology	3	3	1	0	3	50	50	100
19BT/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
<b>Allied Core Offerd to the Department of Zoology</b>									
19BT/AC/GB24	General Botany II	4	4	0	0	3	50	50	100
19BT/AC/P221	General Botany II-Practical	1	0	0	2	3	50	50	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
<b>SEMESTER-III</b>									
19BT/MC/TE34	Taxonomy of Angiosperms and Economic Botany	4	4	1	0	3	50	50	100
19BT/MC/PE33	Phytotherapy and Ethnobotany	3	3	1	0	3	50	50	100
19BT/MC/P332	Taxonomy of Angiosperms and Economic Botany-Practical	2	0	0	3	3	50	50	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
<b>SEMESTER-IV</b>									
19BT/MC/AE44	Anatomy and Embryology of Angiosperms	4	4	1	0	3	50	50	100
19BT/MC/P442	Anatomy and Embryology of Angiosperms-Practical	2	0	0	3	3	50	50	100
	Major Elective I								
19BT/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
<b>SEMESTER-V</b>									
19BT/MC/CM54	Cell and Molecular Biology	4	4	1	0	3	50	50	100
19BT/MC/MB54	Microbiology	4	4	1	0	3	50	50	100
19BT/MC/EE54	Ecology and Environmental Biotechnology	4	4	0	0	3	50	50	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH V.A.-PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
19BT/MC/P553	Cell and Molecular Biology, Microbiology, Ecology and Environmental Biotechnology- Practical	3	0	0	6	3	50	50	100
<b>Inter Disciplinary Core Courses (BT and CH) to students of Botany and Chemistry</b>									
19ID/IC/BA55	Bioanalytical Techniques	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100
<b>SEMESTER-VI</b>									
19BT/MC/PP64	Plant Physiology	4	4	0	0	3	50	50	100
19BT/MC/PB64	Plant Biotechnology	4	4	1	0	3	50	50	100
19BT/MC/GP64	Genetics, Plant Breeding and Evolution	4	4	1	0	3	50	50	100
19BT/MC/P663	Plant Physiology, Plant Biotechnology and Genetics, Plant Breeding and Evolution- Practical	3	0	0	6	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19BT/ME/FN45	Fruit Preservation and Nutrition	5	5	0	0	3	50	50	100
19BT/ME/PR45	Project	5	0	0	5	-	50	50	100
19BT/ME/HC45	Horticulture	5	5	0	0	3	50	50	100
19BT/ME/BI45	Introduction to Bioinformatics	5	5	0	0	3	50	50	100
19BT/ME/BT45	Biotechniques	5	5	0	0	3	50	50	100
<b>General Elective Courses</b>									
19BT/GE/HT22	Herbal Therapy	2	2	0	0	-	50	-	100
19BT/GE/FP22	Fruit Preservation	2	2	0	0	-	50	-	100
19BT/GE/FH22	Fundamentals of Horticulture	2	2	0	0	-	50	-	100
19BT/GE/WM22	Waste Mangement	2	2	0	0	-	50	-	100
19BT/GE/FR22	Floriculture	2	2	0	0	-	50	-	100
<b>Independent Elective Courses</b>									
19BT/UI/AR23	Agriculture	3	0	0	0	3	-	100	100
19BT/UI/FR23	Forestry	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ALGAE, FUNGI AND LICHENS**

**CODE:19BT/MC/AF14**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the diverse assemblage of lower plants
- To understand the life cycle patterns of Algae, Fungi and Lichens
- To enrich the knowledge on the importance of lower plants
- To study the economic importance of Algae, Fungi and Lichens

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand diversification of algal and fungal forms
- gain knowledge on structure and reproduction of certain algal and fungal forms
- identify diseased infected plants and its causal organisms
- appreciate the economic and ecological importance of lichens

**ALGAE**

**Unit 1 (13 Hours)**

1.1 Classification of Algae (F.E. Fritsch, 1935)

1.2 Characteristics of Algal Classes

Detailed study of the Thallus Organisation, Reproduction and Life

Cycle Pattern of the following forms (no development):

1.3 Myxophyceae - *Nostoc*, *Oscillatoria*

1.4 Chlorophyceae - *Volvox*, *Caulerpa*, *Cladophora* and *Chara*

**Unit 2 (13 Hours)**

2.1 Bacillariophyceae - *Navicula*

2.2 Phaeophyceae - *Sargassum*

2.3 Rhodophyceae - *Gracilaria*

2.4 Economic importance of Algae

**FUNGI**

**Unit 3 (13 Hours)**

3.1 Classification of Fungi (Alexopoulos and Mims, 1979)

3.2 Characteristics of major Fungal classes

Detailed Study of the Thallus Organisation, Reproduction and Life Cycle Pattern  
of the following forms (no development):

3.3 Chytridiomycetes - *Synchytrium*

- 3.4 Plasmodiophoromycetes - *Plasmodiophora*
- 3.5 Oomycetes - *Albugo*

**Unit 4 (13 Hours)**

- 4.1 Ascomycetes - *Peziza*
- 4.2 Basidiomycetes - *Puccinia, Agaricus*
- 4.3 Deuteromycetes - *Cercospora*
- 4.4 Economic importance of Fungi

**LICHENS**

**Unit 5 (13 Hours)**

- 5.1 General characteristics of Lichens
- 5.2 Types: Foliose, Crustose and Fruticose
- 5.3 Structure, Reproduction and Function
- 5.4 Ecological and Economic importance of Lichens

**BOOKS FOR STUDY**

Sharma, O.P. *Text book of Algae*. New Delhi: Tata McGraw - Hill, 1986.  
 Sharma, O.P. *Text book of Fungi*. New Delhi: Tata McGraw – Hill, 1986.

**BOOKS FOR REFERENCE**

Alexopoulos, C. J. *Introductory Mycology*. New York: John Wiley, 1962.  
 Bhattacharya, Gopal. *Textbook of Mycology*. Agrotech., 2013.  
 Bold, H. C. and M.J.Wynne. *Introduction to Algae*. New Delhi: Prentice Hall of India, 1979.  
 Bold, H.C. *Morphology of Plants*. New York: Harper & Row, 1973.  
 Chapman, V. J. and D. J. Chapman. *The Algae*. London: Macmillan, 1973.  
 Dube, H.C. *A Text Book of Fungi, Bacteria and Viruses*. New Delhi: Vikas, 1985.  
 Ingold, C. T. *Biology of Fungi*. London: Hutchinson Educational, 1993.  
 Misra, A. and A. Agarwal. *Lichens- A Preliminary Text*. London: Oxford and IBH, 1978.  
 Morris, I. *An Introduction to Algae*. London: Hutchinson University Library, 1967.  
 Sharma, P.D. *Fungi and Allied Organism*. New Delhi: Narosa, 2005.  
 Smith, G.M. *Manual of Phycology*. New York: McGraw-Hill, 1955.  
 Vashista Sinha B.R and V.P. Singh. *Botany for Degree students, Algae* 9th revised ed. New Delhi: S.Chand, 2002.

**JOURNALS**

Algal Research (Elsevier)  
 Algal Research (Science direct)  
 International Journal on Algae  
 Fungal Biology  
 Fungal Diversity

**WEB RESOURCES**

[www.journals.elsevier.com](http://www.journals.elsevier.com)  
[www.sciencedirect.com](http://www.sciencedirect.com)  
[www.springer.com](http://www.springer.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

**Section A –** Objective questions

9 x 1 = 9 marks

Very Short Answers

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Section B –** 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)

**Section C –** 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

### **End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A –** Objective questions 18 x 1 = 18 marks

Choose the correct answer

5 x 1 = 5 marks

Fill in the blanks

5 x 1 = 5 marks

Match the following

5 x 1 = 5 marks

True or False

3 x 1 = 3 marks

Very Short Answers

6 x 3 = 18 marks (6 out of 9 in 50 words each)

**Section B –** 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)

**Section C –** 2x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ALGAE, FUNGI AND LICHENS - PRACTICAL**

**CODE:19BT/MC/P112**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**ALGAE**

Forms mentioned in the syllabus

1. Myxophyceae - *Nostoc, Oscillatoria*
2. Chlorophyceae - *Volvox, Caulerpa, Cladophora* and *Chara*
3. Bacillariophyceae - *Navicula*
4. Phaeophyceae - *Sargassum*
5. Rhodophyceae - *Gracilaria*

Field Trip for Algal collection

Herbarium - Algal specimens (minimum 3 sheets) to be submitted at the time of examination

**FUNGI**

Forms mentioned in the syllabus

1. Chytridiomycetes - *Synchytrium*
2. Plasmodiophoromycetes - *Plasmodiophora*
3. Oomycetes - *Albugo*
4. Ascomycetes - *Peziza*
5. Basidiomycetes - *Puccinia, Agaricus*
6. Deuteromycetes - *Cercospora*

Herbarium – Fungal infected plants (minimum 2 sheets) to be submitted at the time of examination

**LICHENS**

A general study of various types of Lichens – Crustose, Foliose and Fruticose

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Two Tests (2 x 20) = 40 Marks

Record = 10 Marks

**End Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

1. Sectioning, Drawing, Identification with reasons (1 alga, 1 fungus) 2 x 7 = 14
2. Spotters (4) (Identification, Diagram, Notes) 4 x 4 = 16
3. Algal Mixture (2 forms out of 3, Identification, Diagram) 5
4. Spot at sight (Class, Family, Genus and Morphology) 5 x 2 = 10
5. Herbarium (Algae – 3, Fungi – 2) 5



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19BT/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1**

**(13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Course Offered by the Department of Botany for  
B.Sc. (Advanced Zoology and Biotechnology) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**GENERAL BOTANY – I**

**CODE:19BT/AC/GB14**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To understand the structural details of the lower groups in the plant kingdom
- To learn the characteristic features of a few botanical families and to know their economic importance
- To provide an understanding on Plant Pathology
- To study the agricultural practices in India

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the structure and reproduction of certain algal forms
- gain knowledge on structure and reproduction of certain fungal forms
- identify the infected plants and their causal organism
- understand different plant diseases
- describe the plants in technical terms and assign them to their respective families
- dissect the floral parts of plants
- gain knowledge on various aspects of agriculture

**Unit 1 (10 Hours)**  
**Algology**

- 1.1 Salient features of the characteristic features of Algae  
1.2 A detailed study of the Life Cycle of the following Algae  
(no development)  
a. *Nostoc*                      b. *Chara*                      c. *Sargassum*

**Unit 2 (10 Hours)**  
**Mycology**

- 2.1 Salient features of the characteristic features of Fungi  
2.2 A detailed study of the Life Cycle of the following Fungi  
(no development)  
a. *Rhizopus*                      b. *Aspergillus*                      c. *Polyporus*

**Unit 3 (8 Hours)**  
**Plant Pathology**

- 3.1 A study of the causal organism, symptoms and control measures of the following plant diseases: Citrus Canker, Tikka Disease of Groundnut, Red Rot of Sugarcane

**Unit 4** (16 Hours)

**Taxonomy**

4.1 A general outline of Bentham and Hooker's Classification

4.2 A study of the salient features of the following families and their economic

Importance:

- |                  |                  |
|------------------|------------------|
| a. Annonaceae    | b. Cucurbitaceae |
| c. Apocynaceae   | d. Lamiaceae     |
| e. Euphorbiaceae | f. Poaceae       |

**Unit 5** (8 Hours)

**Agriculture**

5.1 Classification of Soil

5.2 Organic Gardening

5.3 Biofertilizer

5.4 Vertical Farming

**BOOK FOR STUDY**

Rao, K. N. and R.V.Narayanaswamy. *Ancillary Botany*. Madras: S.Vishwanathan, 1986.

**BOOKS FOR REFERENCE**

Bhattacharya Gopal, *Textbook of Mycology*. Agrotech, 2013.

Bhattacharyya.P and Purohit.S.S. *Organic Farming Biocontrol and Biopesticide technology*. Agrobios India, 2012.

Chopra, G.L., *A Text book of Fungi*, Meerut, India: S.Nagin & Co. Pandey B.P., *College Botany*. Vol. I Fungi & Pathology. 1997.

Pandey, B.P. *Text Book of Botany Algae*, New Delhi: S.Chand, 2000.

Pandey, B. P., *Taxonomy of Angiosperm*, S. Chand & Company, 2015

Sharma, O.P., *Text Book of Algae*, New Delhi: Tata McGraw Hill, 1992.

Sharma,O.P. *Text book of Fungi*, New Delhi: Tata McGraw – Hill, 1986.

Sharma, O. P., *Plant Taxonomy*, McGraw Hill Education, 2017

Shrivastava A.K. *Agriculture Science and Technology*., Agrotech., 2013.

Vashista B.R., Sinha P and Singh V., New Delhi: *Botany for Degree students*, Algae, S.Chand, 2002.

Vashista B.R. New Delhi: *Botany for Degree Students – Fungi*, S.Chand. 1982.

**JOURNALS**

International Journal of Algae

Fungal Biology

Journal of Botany

Natural Areas Journal

**WEB RESOURCES**

[www.springer.com/life+science](http://www.springer.com/life+science)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

**Section A –** Objective questions

9 x 1 = 9 marks

Very Short Answers

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Section B –** 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)

**Section C –** 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

**Other Components:**

Seminars/Quiz/Assignments etc. (any 2)

**Total Marks: 50****End Semester Examination:****Total Marks: 100****Duration: 3 hours****Section A –** Objective questions  $18 \times 1 = 18$  marksChoose the correct answer  $5 \times 1 = 5$  marksFill in the blanks  $5 \times 1 = 5$  marksMatch the following  $5 \times 1 = 5$  marksTrue or False  $3 \times 1 = 3$  marksVery Short Answers  $6 \times 3 = 18$  marks (6 out of 9 in 50 words each)**Section B –**  $4 \times 6 = 24$  marks (4 out of 6 questions to be answered in 200 words each)**Section C –**  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Course Offered by the Department of Botany for  
B.Sc. (Advanced Zoology and Biotechnology) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**GENERAL BOTANY - I – PRACTICAL**

**CODE: 19BT/AC/P111**

**CREDITS:1**

**L T P: 0 0 2**

**TOTAL HOURS: 26**

**ALGOLOGY AND MYCOLOGY**

Identification, Observation and Sketching of Types Included in the Syllabus

**PLANT PATHOLOGY**

Identification, Observation and Sketching of Types Included in the Syllabus

**TAXONOMY**

Derivation (Assign the plants to their respective families)

Description in Technical Terms of Plants belonging to the Families mentioned in the Syllabus

Dissection of Flowers, Observation and Sketching of Floral Parts, Construction of Floral Diagram and Floral Formula

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Two Tests (2 x 20) = 40 Marks

Record = 10 Marks

**End Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

- |   |             |
|---|-------------|
| 1. Derivation (Assign the plant to its respective families) | 1 x 10 = 10 |
| 2. Description of the flower in technical terms             | 1 x 10 = 10 |
| 3. Algae and Fungi - Spotters (5)                           | 5 x 5 = 25  |
| 4. Pathology specimen                                       | 1 x 5 = 5   |

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**BRYOPHYTES, PTERIDOPHYTES AND GYMNOSPERMS**

**CODE:19BT/MC/BP24**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To learn the classification, structure and organization of lower vascular plants
- To trace the transition of lower vascular plants
- To understand their reproduction and life cycle pattern
- To study the primitive and advanced features of living and fossil forms

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the forms studied in the field
- appreciate their ecological importance
- understand the plant diversity and importance of conservation
- understand the chronological events while studying fossils
- understand the process of fossilization

**Unit 1 (13 Hours)**

**Bryophytes**

- 1.1 Classification of Bryophyta (Proskauer, 1957)
- 1.2 Characteristic features of classes
- 1.3 A Detailed Study of the Thallus Structure, Anatomy and Reproduction of the following (no development): Hepaticopsida – *Marchantia* and Bryopsida – *Polytrichum*

**Unit 2 (13 Hours)**

**Pteridophytes**

- 2.1 Classification of Pteridophyta (Reimers, 1954)
- 2.2 Characteristic features of classes
- 2.3 A Detailed Study of the Plant Body, Anatomy and Reproduction of the following: (no development): Lycopsida – *Lycopodium* and Pteropsida – *Marsilea*

**Unit 3 (13 Hours)**

**Gymnosperms**

- 3.1 Classification of Gymnospermae (Bierhorst, 1971)
- 3.2 Characteristic features of classes
- 3.3 A Detailed Study of the Plant Body, Anatomy and Reproduction of the following (no development): Cycadopsida – *Cycas*, Coniferopsida – *Pinus* and Gnetopsida – *Gnetum*



**Unit 4 (13 Hours)**

**Fossils**

- 4.1 Geological Time Scale
- 4.2 Types of Fossilization: Compression, Impression, Incrustation, Petrification and Compaction
- 4.3. Fossil forms - Pteridophyta: *Lepidodendron*, *Stigmaria*, *Lepidostrobus* and *Lepidocarpon*  
Gymnosperms: *Williamsonia*

**Unit 5 (13 Hours)**

- 5.1 Life Cycle Patterns in Bryophytes, Pteridophytes and Gymnosperms
- 5.2 Stellar Evolution
- 5.3 Heterospory and Seed Habit
- 5.4 Ecological and Economic importance

**BOOK FOR STUDY**

Pandey, S.N., P.S. Trivedi and A. Misra. *A Textbook of Botany Vol II- Bryophytes, Pteridophytes and Gymnosperms*. New Delhi: Vikas, 1999.

**BOOKS FOR REFERENCE**

**BRYOPHYTES**

- Prem Puri, *Bryophytes –Morphology, Growth and Differentiation* Delhi: Atma Ram, 1981.  
Smith, G.M. *Cryptogamic Botany Vol II*. London: McGraw Hill, 1995.  
Srivastava, H.N. *Bryophytes*. India: Pradeep, 2007.  
Watson, E.V. *The Structure and Life of Bryophytes*. London: Hutchinson University Library 1968.  
Vashista, P.C., *Botany for Degree Students Vol. IV*, New Delhi: S.Chand, 2016.

**PTERIDOPHYTES**

- Arnold, C.A., *An Introduction to Palaeobotany*, McGraw Hill, 1947.  
Eames, A.J. *Morphology of Vascular Plants*. New Delhi: Tata McGraw Hill, 1999.  
Smith, G.M. *Cryptogamic Botany, -Vol.II*. London: McGraw Hill, 1999.  
Sporne, K.R. *Morphology of Pteridophytes*. New Delhi: B.I, 1980.  
Sharma, O.P. *Pteridophyta*, McGraw Hill, 2012.  
Sukla & Mishra, S.P., *Essentials of Palaeobotany*, Vikas, 1982.

**GYMNOSPERMS**

- Chamberlain, C.J. *Gymnosperms - Structure and Evolution*. New Delhi: CBS, 1980.  
Coulter, J.M. and C.J. Chamberlain. *Morphology of Gymnosperms*. Allahabad: Central Book Depot, 1960.  
Srivastava, H.N. *Gymnosperms*. India: Pradeep, 2004.  
Vashista, P.C., *Botany for Degree Students*. Vol. V (Gymnosperms) New Delhi: S.Chand, 1976.  
Sporne, K.R., *Morphology of Gymnosperms*. B.I, 1976.

## WEB RESOURCES

### BRYOPHYTES

[www.cpbr.gov.au/bryophyte](http://www.cpbr.gov.au/bryophyte)

[www.britannica.com](http://www.britannica.com)

[www.csun.edu](http://www.csun.edu)

[www.scilinks.org](http://www.scilinks.org)

[blogs.ubc.ca](http://blogs.ubc.ca)

### PTERIDOPHYTES

[www.uwgb.edu](http://www.uwgb.edu)

[www.hardyferns.org](http://www.hardyferns.org)

### GYMNOSPERMS

[www.conifers.org](http://www.conifers.org)

[Wikipedia.org/wiki/gymnosperms](http://Wikipedia.org/wiki/gymnosperms)

[www.exploringnature.org](http://www.exploringnature.org)

## JOURNALS

### BRYOPHYTES

Annals of Botany

Systematic Botany

Journal of Bryology

Journal of Botany

### PTERIDOPHYTES

A Journal of Botanical Nomenclature

Current Biology

American Journal of Plant Sciences

Natural Areas Journals

The British Fern Gazette

American Fern Journal

### GYMNOSPERMS

Journal of Botany

Canadian Journal of Botany

Nordic Journal of Botany

## PATTERN OF ASSESSMENT

### Continuous Assessment Test:

**Section A –** Objective questions

Very Short Answers

**Total Marks: 50**

9 x 1 = 9 marks

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Section B –** 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)

**Section C –** 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

**Duration: 90 minutes**

### Other Components:

**Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

### End Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

**Section A –** Objective questions 18 x 1 = 18 marks

Choose the correct answer

5 x 1 = 5 marks

Fill in the blanks

5 x 1 = 5 marks

Match the following

5 x 1 = 5 marks

True or False

3 x 1 = 3 marks

Very Short Answers

6 x 3 = 18 marks (6 out of 9 in 50 words each)

**Section B** – 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)

**Section C** – 2x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**BRYOPHYTES, PTERIDOPHYTES AND GYMNOSPERMS - PRACTICAL**

**CODE:19BT/MC/P222**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**BRYOPHYTES**

Forms mentioned in the syllabus

1. Hepaticopsida - *Marchantia*
2. Bryopsida - *Polytrichum*

**PTERIDOPHYTES**

1. Lycopsida - *Lycopodium*
2. Pteropsida - *Marsilea*

**GYMNOSPERMS**

1. Cycadopsida – *Cycas*
2. Coniferopsida – *Pinus*
3. Gnetopsida - *Gnetum*

**FOSSILS**

Forms mentioned in the syllabus

1. Pteridophytes – *Lepidodendron*, *Stigmaria*, *Lepidostrobus* and *Lepidocarpon*
2. Gymnosperms - *Williamsonia*

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Two Tests (2 x 20 = 40 Marks)

Record

10 Marks

**End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

1 Sectioning, Drawing, Identification with reasons

3 x 8 = 24

2 Spotters (4) Drawing, Identification with reasons

4 x 5 = 20

3 Spot at sight (3) Division, Class, Genus and Morphology

3 x 2 = 6

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**BASICS OF APPLIED BIOTECHNOLOGY**

**CODE:19BT/MC/BB23**

**CREDITS:3**

**L T P:31 0**

**TOTAL HOURS:52**

**OBJECTIVES OF THE COURSE**

- To understand the applied aspects of biotechnology
- To study the fundamental principles of biotechnology
- To familiarize students with the applications of biotechnology

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate understanding of fundamental vocabulary and concepts of biotechnology
- understand the role of microorganisms in industry
- apply scientific knowledge to cultivation of novel and health foods
- analyze the role of microbes in industry
- acquire practical skills in the art of dairy food preparation
- gain a basic understanding of plant tissue techniques

<b>Unit 1</b>	<b>Introduction</b>	<b>(11 Hours)</b>
	1.1 Introduction and Scope of Biotechnology	
	1.2 Single Cell Protein-Spirulina	
	1.3 Algal Biofertilizers	
	1.4 Principles of Plant Tissue Culture	
<b>Unit 2</b>	<b>Mushroom Production Technology</b>	<b>(11 Hours)</b>
	2.1 Edible Mushrooms - <i>Pleurotus sp.</i> , <i>Agaricus sp.</i> and <i>Volvariella sp.</i>	
	2.2 Poisonous mushrooms of India - <i>Amanita sps.</i>	
	2.3 Nutritive value	
	2.4 Cultivation of Oyster Mushroom	
<b>Unit 3</b>	<b>Dairy Technology</b>	<b>(10 Hours)</b>
	3.1 Manufacture of Cheese	
	3.2 Types of Cheese: Cheddar, Camembert and Roquefort	
	3.3 Manufacture of Yoghurt	

**Unit 4** (10 Hours)  
**Food Biotechnology**  
4.1 Role of Yeast in Bread- Making  
4.2 Genetically Modified Food - Bt brinjal  
4.3 Estimation of Rate of Fermentation using Yeast (Practical)

**Unit 5** (10 Hours)  
**Fermentation Technology**  
5.1 Types of Fermentors  
5.2 Penicillin Production  
5.3 Citric Acid Production

### BOOK FOR STUDY

Ignacimuthu, S.J. *Biotechnology –An Introduction*. 2<sup>nd</sup> edition New Delhi: Narosa Publishing House Pvt. Ltd., 2015.

### BOOKS FOR REFERENCE

Dubey, R.C. *A Text book of Biotechnology*. New Delhi: S.Chand, 2015  
Gupta, P.K., *Elements of Biotechnology*. Meerut, Rastogi Publication, 2010.  
Ignacimuthu, S. *Basic Biotechnology*. New Delhi :Tata-McGraw, Hill, 1996.  
Jha Timir Baran and Biswajit Ghosh *Plant Tissue Culture: Basic and Applied*, Kolkata Platinum Publishers 2016  
Kamal Nayan Joshi. *Biotechnology*. Manglam, Delhi. 2013.  
Patel, A.H. *Industrial Microbiology*. New Delhi: Macmillan, 2015.  
PrakashAnand, *Plant Biotechnology* New Delhi, SBW Publishers, 2014  
Satyanarayana, U. *Biotechnology*. Kolkata Books and Allied (P) ltd. 2015  
Reddy, S. M., *Basic Fermentation Technology*, Chennai, New Age International Publishers, 2017  
Reddy, S. M., *Basic Food Science and Technology*, Chennai, New Age International Publishers, 2015.

### JOURNALS

Algae Biotechnology  
Journal of Industrial Microbiology and Biotechnology  
World Journal of Microbiology & Biotechnology  
Central European Journal of Biology  
Journal of Applied Biotechnology  
Bioprocess and Biosystems Engineering

### WEB RESOURCES

[www.ibab.ac.in](http://www.ibab.ac.in)  
[www.springer.com](http://www.springer.com)

### PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
<b>Section A –</b> Objective questions	9 x 1 = 9 marks	
Very Short Answers	3 x 3 = 9 marks (3 out of 4 in 50 words each)	
<b>Section B –</b> 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)		
<b>Section C –</b> 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)		

**Other Components:****Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

**End Semester Examination:****Total Marks: 100****Duration: 3 hours****Section A –** Objective questions  $18 \times 1 = 18$  marksChoose the correct answer  $5 \times 1 = 5$  marksFill in the blanks  $5 \times 1 = 5$  marksMatch the following  $5 \times 1 = 5$  marksTrue or False  $3 \times 1 = 3$  marksVery Short Answers  $6 \times 3 = 18$  marks (6 out of 9 in 50 words each)**Section B –**  $4 \times 6 = 24$  marks (4 out of 6 questions to be answered in 200 words each)**Section C –**  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19BT/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda



- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Course Offered by the Department of Botany for  
B.Sc. (Advanced Zoology and Biotechnology) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**GENERAL BOTANY – II**

**CODE:19BT/AC/GB24**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To study the structure, organization, reproduction and life cycle of lower plants
- To enable students to understand the physiological activities occurring in plants
- To study the complex tissue organization in plants
- To enable the students to enrich their knowledge on horticulture

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the plant diversity
- find out the interrelationship of cells and tissues of the plant body
- learn the metabolic events such as Photosynthesis
- understand the practical applications of plant growth regulators
- gain the skill in fundamental practices of vegetative propagation of plants
- become an entrepreneur in cut flowers and bonsai

**Unit 1 (16 Hours)**

**Bryophyta , Pteridophyta and Gymnosperms**

- 1.1 Salient features of Bryophyta ,Pteridophyta and Gymnospermae
- 1.2 A detailed Study of the Life Cycle (no development) of *Funaria*
- 1.3 A detailed Study of the Life-Cycle (no development) of *Lycopodium*
- 1.4 A detailed Study of the Life-Cycle (no development) of *Cycas*

**Unit 2 (12 Hours)**

**Anatomy**

- 2.1 Primary Structure of Dicot Stem and Root
- 2.2 Primary Structure of Monocot Stem and Root
- 2.3 Leaf: Isobilateral and Dorsiventral
- 2.4 Stomatal types

**Unit 3 (7 Hours)**

**Physiology - I**

- 3.1 Photosynthesis - Light Reaction and Dark Reaction.
- 3.2 Mineral Nutrition in plants

**Unit 4****(7 Hours)****Physiology - II**

- 4.1 Plant Growth Regulators - Auxins, Cytokinins, Gibberellins, ABA and Ethylene- Practical Applications
- 4.2 Photoperiodism
- 4.3 Vernalisation

**Unit 5****(10 Hours)****Horticulture**

- 5.1 Bonsai Technique
- 5.2 Cut Flowers, Importance and Methods to Prolong Vase Life
- 5.3 Flower Arrangement - Fresh and Dry
- 5.4 Vegetative propagation methods: Cutting, Layering and Grafting

**BOOK FOR STUDY**

Rao, K. N., and R.V. Narayanaswamy, *Outlines of Botany*. Madras: S.Viswanathan, 1986.

**BOOKS FOR REFERENCE**

- Janick, J. *Horticultural Science*. New Delhi: Surgeet.1982.  
Kumar, N. *Introduction to Horticulture*. Nagercoil: Rohini, 1980.  
Pandey, B.P. *College Botany*, Vol II New Delhi: S.Chand, 2015.  
Sheela, V. L. *Horticulture*, Chennai: MJP, 2011  
Singh, V., Pande P.C and Jain D.K: *Anatomy of Seed Plants*. India: Rastogi, 1996  
Sinha,R.K. *Modern Plant Physiology*. New Delhi: Narosa, 2014.  
Verma. V. *Text Book of Plant Physiology*. New Delhi: Emkay, 1989.  
Verma, S.K. *Plant Physiology and Biochemistry*. New Delhi: S Chand, 2000.  
Vidyarthi, R.D. *Text Book of Botany*. New Delhi: S.Chand, 1992.

**WEB RESOURCES****PTERIDOPHYTA**

[www.uwgb.edu](http://www.uwgb.edu)  
[www.hardyferns.org](http://www.hardyferns.org)

**GYMNOSPERMS**

[www.conifers.org](http://www.conifers.org)  
Wikipedia.org/wiki/gymnosperms  
[www.exploringnature.org](http://www.exploringnature.org)

**PHYSIOLOGY**

[www.journals.elsevier.com](http://www.journals.elsevier.com)  
[www.springer.com](http://www.springer.com)  
[www.academicjournals.org](http://www.academicjournals.org)

**JOURNALS**

Journal of Plant Physiology (Elsevier)  
Journal of Plant Physiology (Science Direct)  
International Journal of Plant Physiology and Biochemistry

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

**Section A –** Objective questions

9 x 1 = 9 marks

Very Short Answers

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Section B –** 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)

**Section C –** 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

### **End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A –** Objective questions 18 x 1 = 18 marks

Choose the correct answer

5 x 1 = 5 marks

Fill in the blanks

5 x 1 = 5 marks

Match the following

5 x 1 = 5 marks

True or False

3 x 1 = 3 marks

Very Short Answers

6 x 3 = 18 marks (6 out of 9 in 50 words each)

**Section B –** 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)

**Section C –** 2x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Course Offered by the Department of Botany for  
B.Sc. (Advanced Zoology and Biotechnology) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**GENERAL BOTANY–II PRACTICAL**

**CODE:19BT/AC/P221**

**CREDITS:1**

**L T P:0 0 2**

**TOTAL HOURS:26**

**BRYOPHYTA**

Identification, Observation and Sketching of Type Included in the Syllabus

**PTERIDOPHYTA AND GYMNOSPERMS**

Preparation of suitable sections of forms included in the Syllabus and their Interpretation

**ANATOMY**

Preparation of suitable sections of Angiosperm material included in the Syllabus and their Interpretation

**PHYSIOLOGY**

Physiology Experiments included in the Syllabus – Demonstration

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Two Tests (2 x 20) = 40 Marks

Record = 10 Marks

**End Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

- |   |    |
|---|----|
| 1. Pteridophyta and Gymnosperm  |    |
| Sectioning & Identification, Diagram, Reasons (1)                     | 10 |
| 2. Anatomy – Sectioning & Identification, Diagram, Reason (1)         | 10 |
| 3. Physiology – Comment on set up                                     | 10 |
| 4. Spotters (5) Identification, Diagram, Reasons (4 x 5)              | 20 |
| (Bryophyta – 1, Pteridophyta – 1, Gymnosperm – 1, Stomatal type – 1,) |    |

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY**

**CODE:19BT/MC/TE34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To study plant morphology using terminologies that are necessary to identify the taxa authentically
- To understand the vegetative and reproductive features of a few families of angiosperms
- To prepare taxonomical keys with the help of vegetative and floral characters
- To learn some of the economically important plants of India

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- describe the plants in technical terms
- understand the importance of herbarium
- dissect the floral parts of plants
- identify the plants and assign them to their respective families
- understand the processing and uses of economically important plants

**Unit 1 (13 Hours)**

**Classification and Plant Morphology**

- 1.1 Overview of Plant Morphology - Habit, Roots, Stems, Leaves, Inflorescence, Flowers and Fruits
- 1.2 Phenetic (Linnaean, Bentham and Hooker) and Phylogenetic (Angiosperm Phylogeny Group IV (APG IV) Systems of Classification
- 1.3 Introduction to Chemotaxonomy, Numerical taxonomy and Molecular taxonomy

**Unit 2 (13 Hours)**

**Nomenclature and Herbaria**

- 2.1 Plant Nomenclature: Binomial and Polynomial, ICBN – Typification, Effective and Valid Publication, Author Citation; Important Botanical Garden – Kew Gardens, London
- 2.2 Herbarium Techniques: Collection, Pressing, Drying, Poisoning, Mounting and Preservation of Plant Specimens; Important Herbaria – BSI, Coimbatore; Rapinat Herbarium, Trichy; Flora of Presidency, Chennai.
- 2.3 Taxonomic Keys (Intended and Bracketed keys) and their uses

**Unit 3 (13 Hours)**

**A Detailed Study of the Salient Features and Economic Importance of the following:**

- 3.1 Polypetalae - Annonaceae, Rutaceae, Fabaceae (including the subfamilies) and Cucurbitaceae
- 3.2 Gamopetalae - Rubiaceae, Apocynaceae and Asclepiadaceae

**Unit 4 (13 Hours)**

**A Detailed Study of the Salient Features and Economic Importance of the following:**

- 4.1 Gamopetalae -, Solanaceae, Acanthaceae and Lamiaceae
- 4.2 Monochlamydeae – Amaranthaceae and Euphorbiaceae
- 4.3 Monocotyledones - Orchidaceae and Poaceae

**Unit 5 (13 Hours)**

**Economic Botany**

- 5.1 A Brief Study of the Morphology, Processing and Uses of the following: Beverages (Tea), Sugar (Sugarcane), Oil (Groundnut)
- 5.2 Botanical name, Common name, Family, Morphology of useful part and Uses of Cereals(wheat, rice and oats), Millets (sorghum, foxtail and finger millet) fibre yielding plants (cotton, jute and hemp) and dye yielding plants (*Indigofera tinctoria*, *Acacia catechu* and *Haematoxylum campechianum*)
- 5.3 Botanical name, Common name, Family, Morphology of useful part and Uses of Oil yielding plants(mustard, sesame and coconut) Medicinal plants (*Asparagus racemosus*, *Catharanthus roseus* and *Withania somnifera*) spices and condiments (pepper, coriander and bay leaves) Fumitories and Masticatories (Tobacco, Areca Nut and Betel Leaf)

**BOOKS FOR STUDY**

Singh. V and D.K. Jain. *Taxonomy of Angiosperms*. Meerut: Rastogi, 1989  
Verma.V. *A Text Book of Economic Botany*. London:Cambridge University, 1989.

**BOOKS FOR REFERENCE**

Antony V. T., *Biodiversity of Flowering Plants*. Sonali, 2011.  
David J. Mabberly, *Mabberley's Plant – A portable dictionary of plants, their classification and uses*: Cambridge University Press, 2018.  
Gamble,J.S. *Flora of the Presidency of Madras.*, Vol. II,. New Delhi: Jayyed, 1956.  
Hill, A.F. *Economic Botany*. New York: Tata McGraw-Hill,1969.  
Jeffrey, C. *An Introduction to Plant Taxonomy*, London: Cambridge University, 1982.  
John Gonsalves, *A Textbook of Economic Botany and Ethnobotany*, International Scientific Publishing Academy, New Delhi: 2016.  
Lawrence, George.H.M., *Taxonomy of Vascular Plants.*, New Delhi: Oxford IBH, 1987.  
Maiti R K., *Introduction to Modern Economic Botany*. Agrobios, 2009.  
Pandey, B. P., *Taxonomy of Angiosperm*, S. Chand & Company, 2015.  
Rendle, A.B. *Classification of Flowering Plants*, Vol.I & II. London: Cambridge University, 1980.  
Sharma, O. P., *Plant Taxonomy*, McGraw Hill Education, 2017.

## JOURNAL

Angiosperm Phylogeny Group. [An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG II. \*Botanical Journal of the Linnean Society\* 141\(4\): 399-436. doi: 10.1046/j.1095-8339.2003.t01-1-00158. 2003.](#)

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

**Section A –** Objective questions 9 x 1 = 9 marks  
Very Short Answers 3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Section B –** 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)

**Section C –** 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

**Section A –** Objective questions 18 x 1 = 18 marks

Choose the correct answer 5 x 1 = 5 marks

Fill in the blanks 5 x 1 = 5 marks

Match the following 5 x 1 = 5 marks

True or False 3 x 1 = 3 marks

Very Short Answers 6 x 3 = 18 marks (6 out of 9 in 50 words each)

**Section B –** 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)

**Section C –** 2x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V(A). PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PHYTOTHERAPY AND ETHNOBOTANY**

**CODE:19BT/MC/PE33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To create an awareness about indigenous medicinal systems and tribal traditional practices
- To provide an overview of the plant derived natural products for their occurrence, sources and basic chemistry
- To learn the therapeutic property of plants through preparation of herbal medicines
- To provide an overview of ethnobotany, methods of herbal preparation, tribal medicine and their importance in present day drug research.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- describe the plants in technical terms, identify and assign them to their respective families.
- make herbal drug preparations
- understand the vast traditional knowledge of herbal plants
- carry out research on organoleptic studies of medicinal plants.
- understand the processing and therapeutic uses of medicinally important plants.

**Unit 1 (11 Hours)**

**Origin of Herbs in Health Care**

- 1.1 Basic Principles of Ayurveda and Siddha: Panchamahabhutas, Tridhoshha Concept, Malas, Agni, Prakruti
- 1.2 Drug Preparation: Ashwam, Arishtam, Taila, Churnam, Leghyam, Bhasmam, Infusion and Decoction, Poulitice: Salves, Compresses, Mouthwash
- 1.3 Adulteration, Detection and Standardization of Herbal Drugs
- 1.4 Validation of Herbal Drugs and Good Manufacturing Practices

**Unit 2 (11 Hours)**

**Organoleptic Study**

Vernacular Name, Binomial, Family, Active Principle and Medicinal Uses of the following:

- 2.1 Roots and Underground Stem : *Rauwolfia serpentine* and *Zingiber officinalis*,
- 2.2 Leaves and Bark: *Aloe vera* and *Cinnamomun zeylanicum*
- 2.3 Flowers and Fruits: *Hibiscus rosa-sinensis* and *Piper longum*

2.4 Seeds and Whole Plant: *Trigonella foenum – graceum* and *Azadirachta indica*.

**Unit 3 (10 Hours)**

**Ethnobotany**

3.1 Ethnobotany : Definition and Scope

3.2 Methodologies of Ethnobotanical Research: Field Work, Literature, Herbaria and Musea

3.3 Ethnobotany as a lead to Modern Drug Discovery: Memory plus, Pankajakasturi Choornam

3.4 Bioprospection

**Unit 4 (10 Hours)**  
**Ethnobotany and Biodiversity**

4.1 Role of Ethnobotany in Conservation of Biodiversity

4.2 Ex- situ Conservation & In- situ Conservation

4.3 Ethnobotanical Studies of Irula Tribes

4.4 Traditional knowledge (TK) in relation to Intellectual Property Rights and Biopiracy

**Unit 5 (10 Hours)**  
**Ayurveda and Beauty**

5.1 Role of Dhātu in Physical Beauty and Daily Routine to Enhance Beauty

5.2 Essential Oils & Aroma Therapy

5.3 Preparation of the following (Practical) Ayurveda / Siddha Medicines for Common Ailments: Infusion and Decoction, Mouth wash and Herbal Tooth Powder, Tailam, Churnam, Leghyam, Preparation of Herbal Tea and Soups

5.4 Facial and Hair Care using Herbal Products (Demonstration)

**BOOKS FOR REFERENCE**

Anil Kumar. *Handbook on Medicinal Plants*. New Delhi. 2016.

Das, S.N. *Medicinal Plants for Health and Wealth*. New Delhi: Agrotech. 2006.

Dash, V.B. *Ayurvedic Treatment for Common Diseases*. New Delhi: Konark, 1978.

Dash, V.B. *Fundamental of Ayurvedic Medicine*. New Delhi: Konark, 1989.

Dastur, J.F. *Medicinal plants of India and Pakistan*. New Delhi: D.B.Taraporewala, 1988.

Dananjay J Deshpande., *Handbook of Medicinal Herbs*. Agrobios, 2010.

Duke, J.A. *Handbook on Medicinal Herbs*. London: CRC, 2002.

Froog, S. *Medicinal Plants - Field and Laboratory Manual*. New York: International Book 2005.

Grewal, R.C. *Medicinal Plants*. Cambridge: Harvard University, 2000.

Hanson, B.A. *Understanding Medicinal Plants, their chemistry and therapeutic action*. New York: The Haworth, 2005.

ICMR. *Quality Standards of Indian Medicinal Plants*. (Vols.I, II, III, & IV).New Delhi.: ICMR, 2006.

Jaibala, S. and G.Balakrishnan. *A Hand Book of Common Remedies based on Siddha System of Indian Medicine*. Madras. St.Louis Institute, 1975.

Jain, S.K. *Contribution to Ethnobotany*. India: Scientific, 1997.

John Gonsalves. *A Text book of Economic Botany and Ethnobotany*. New Delhi: 2016.

Kapoor, L.D. *Handbook of Ayurvedic Medicinal Plants*.,India: CRC, 2001.

Prajapati, N.D. and S.S.Purohit. *Agro's Color Atlas of Medicinal Plants*. Jodhpur: Agrobios, 2006.

Rastogi, R.P. *Compendium of Indian Medicinal Plants*. Vols. I, II, III and IV. New Delhi: Central Drug Research Institute Publication and Information Directorate, 1988.

Reddy, K.J., B.Bahadur, B.Bhadriah and M.L.N.Rao. *Advances in Medicinal Plants*., Delhi: Universities, 2007.

Roseline A., *Pharmacognosy*. Chennai:MJP, 2011.

Saha, N.N. *Herbal Remedies*. New Delhi: Universal, 1981.

Trivedi, P.C. *Medicinal Plants: Ethnobotanical Approach*. Jodhpur: Agrobios, 2006.

## WEB RESOURCES

[www.ethnobiology.ch](http://www.ethnobiology.ch)  
[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov)

## JOURNALS

International Journal of Phytotherapy & Ethnobotany  
 Journal of Pharmacognosy & Phytotherapy

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
<b>Section A –</b> Objective questions	9 x 1 = 9 marks	
Very Short Answers	3 x 3 = 9 marks (3 out of 4 in 50 words each)	
<b>Section B –</b> 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)		
<b>Section C –</b> 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Seminars/Quiz/Assignments etc. (any 2)	

<b>End Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
<b>Section A –</b> Objective questions	18 x 1 = 18 marks	
Choose the correct answer	5 x 1 = 5 marks	
Fill in the blanks	5 x 1 = 5 marks	
Match the following	5 x 1 = 5 marks	
True or False	3 x 1 = 3 marks	
Very Short Answers	6 x 3 = 18 marks (6 out of 9 in 50 words each)	
<b>Section B –</b> 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)		
<b>Section C –</b> 2x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY - PRACTICAL**

**CODE:19BT/MC/P332**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**TAXONOMY OF ANGIOSPERMS**

Laboratory sessions will consist of working with fresh materials to illustrate descriptive terminology, derivation of family and salient features of plant families; floral analysis

A plant collection of 10 plants belonging to at least 10 different families – Herbarium to be submitted for the End semester examination

Use of dichotomous key in the identification of the given specimens

Field Trip

**ECONOMIC BOTANY**

Economically important products of plants included in the syllabus

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Two Tests (2 x 20 = 40 Marks)

Record 10 Marks

**End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

- |                                      |             |
|--------------------------------------|-------------|
| 1. Derivation                        | 2 x 5 = 10  |
| 2. Description, Drawing & Dissection | 1 x 10 = 10 |
| 3. Key Preparation                   | 8           |
| 4. Spot at sight                     | 12          |
| 5. Herbarium                         | 10          |

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI- 600 086**

**B.Sc. DEGREE: BRANCH V(A). PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS**

**CODE:19BT/MC/AE44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide background of facts, terminology and internal structure of common plants
- To study the complex tissue organization of plant bodies
- To provide an understanding of reproduction in angiosperms

**COURSE LEARNING OUTCOMES**

On successful completion, students will be able to

- understand the structure and importance of meristems in plant tissue organization
- find out the interrelationships of cells and tissues
- differentiate simple and complex tissue
- understand the internal structure, origin, differentiation and function.
- understand the importance of reproductive biology of Angiospermic plants

**Unit 1 (13 Hours)**

**Meristems and Simple Tissues**

- 1.1 Meristem: Classification, Organization of Shoot Apex (Apical cell theory, Histogen theory, Mantle core theory, Tunica corpus theory and Anneau initial and Meristeme d'attente theory) and Root Apex (Apical cell theory, Histogen theory, Korper- Kappe theory, Concept of quiescent centre)
- 1.2 Lateral meristem: Vascular Cambium - Structure and Formation
- 1.3 Cork Cambium: Periderm: Phellem, Phellogen and Phelloderm, Development, Location, Morphology of Bark, Commercial Bark, Protective Tissues of Monocot and Lenticels
- 1.4 Simple tissues – Parenchyma, Collenchyma and Sclerenchyma (structure, types and functions)

**Unit 2 (13 Hours)**

**Complex Tissues and Secretory Tissues**

- 2.1 Secondary Xylem - Vessels, Tracheids, Wood Parenchyma and Rays, Sap Wood, Heartwood, Reaction wood, Tyloses, Annual Rings, Dendrochronology.
- 2.2 Secondary phloem - Sieve Tubes, Companion Cells, Phloem Parenchyma and Fibres
- 2.3 Secretory tissues –Glandular trichome, Hydathodes, Nectaries, Resin ducts and Laticifers

**Unit 3 (13 Hours)**

**Primary and Secondary Structures**

- 3.1 Primary structure of Monocot (stem and root) and Dicot (stem and root)
- 3.2 Secondary structure of dicot stem and root
- 3.3 Anomalous Growth: Primary (*Peperomia*, *Nyctanthus*, and *Boerhaavia*) and Secondary (*Aristolochia*, *Bignonia*, *Bougainvillea* and *Leptadenia*) structures in Dicots
- 3.4 Primary Thickening Meristem in Monocots and Anomalous Secondary Thickening in Monocot Stem - *Dracaena*

**Unit 4 (13 Hours)**

**Leaf**

- 4.1 Epidermis – Stomatal – Types
- 4.2 Epidermal hairs
- 4.3 Nodal anatomy – Unilacunar, Trilacunar and Multilacunar nodes
- 4.4 Leaf - Dorsiventral (mango), Isobilateral (Grass) and Centric (Onion), Leaf Abscission

**Unit 5 (13 Hours)**

**Embryology**

- 5.1 Microsporangium: Structure of anther, Microsporogenesis - Male Gametophyte
- 5.2 Megasporangium: Structure and types of ovules, Megasporogenesis - Female Gametophyte – Monosporic (*Polygonum*), Bisporic (*Allium*) and Tetrasporic (*Peperomia*)
- 5.3 Double Fertilization, Apomixis and Polyembryony
- 5.4 Endosperm - Types and Functions; Ruminant Endosperm
- 5.5 Embryo - Development of Dicot Embryo – *Capsella bursa pastoris*.

**BOOKS FOR STUDY**

Bhojwani, S.S and S.P. Bhatnagar. *Embryology of Angiosperms*. New Delhi:Vikas, 2015.  
Singh, V., P.C. Pande and D.K. Jain. *Anatomy of Seed Plants*. Meerut, India: Rastogi, 1987.

**BOOKS FOR REFERENCE**

Cutter, E.G., *Plant Anatomy*. London: Part I, The English Language Book Society and Edward Arnold, 1978.  
Esau K. *Anatomy of Seed Plants*. New York: Wiley Eastern, 1972.  
Fahn, A. *Plant Anatomy*. London: Oxford Pergamon, 1986.  
Emily L. Gregory, *Elements of Plant Anatomy*. Forgotten Books, London: 2017.

**PATTERN OF ASSESSMENT**

Continuous Assessment Test:	Total Marks: 50	Duration: 90 minutes
Section A – Objective questions	9 x 1 = 9 marks	
Very Short Answers	3 x 3 = 9 marks (3 out of 4 in 50 words each)	
Section B – 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)		
Section C – 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)		

**Other Components:**

Seminars/Quiz/Assignments etc. (any 2)

**Total Marks: 50****End Semester Examination:****Total Marks: 100****Duration: 3 hours****Section A –** Objective questions  $18 \times 1 = 18$  marksChoose the correct answer  $5 \times 1 = 5$  marksFill in the blanks  $5 \times 1 = 5$  marksMatch the following  $5 \times 1 = 5$  marksTrue or False  $3 \times 1 = 3$  marksVery Short Answers  $6 \times 3 = 18$  marks (6 out of 9 in 50 words each)**Section B –**  $4 \times 6 = 24$  marks (4 out of 6 questions to be answered in 200 words each)**Section C –**  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS - PRACTICAL**

**CODE:19BT/MC/P442**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**ANATOMY OF ANGIOSPERMS**

A study of the anatomy of the following (any 2 specimens in each category for stem and root):

1. Primary structure:   Dicot stem  
                              Dicot root  
                              Monocot stem  
                              Monocot root
2. Secondary structure: Dicot Stem  
                              Dicot Root
3. Leaf: Dorsiventral       - Mango  
          Isobilateral       - Grass  
          Centric            - *Allium*
4. Stomatal types in Dicots and Monocots
5. Anomalous Structure:  
                              *Nyctanthus*  
                              *Boerhaavia*  
                              *Bignonia*  
                              *Bougainvillea*  
                              *Dracaena*
6. Nodal Anatomy: Unilacunar, Trilacunar and Multilacunar nodes (diagrammatic sketch only)
7. Ergastic Substances: Druses, Raphides and Cystoliths

**EMBRYOLOGY OF ANGIOSPERMS**

A study of the following:

1. T.S of young anther and mature anther
2. Pollen morphology
3. Binucleate and tetranucleate embryo sacs
4. Stages of Dicot embryo development
5. L.S. of mature monocot embryo
6. Endosperm - nuclear, cellular and ruminant
7. Embryo dissection - *Tridax*



**PATTERN OF ASSESSMENT****Continuous Assessment Test:**

Two Tests (2 X 20 = 40 Marks)

Record

10 Marks

**Total Marks: 50****Duration: 90 minutes****End-Semester Examination:****Total Marks: 50****Duration: 3 hours**

Sectioning, Drawing, Identification with reasons 3 x 8 = 24

Embryo Dissection 6 x 1 = 6

Spotters (2 Anatomy, 2 Embryology) 4 x 5 = 20

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19BT/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V(A). PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CELL AND MOLECULAR BIOLOGY**

**CODE:19BT/MC/CM54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide an overview of the cellular and molecular aspects of the plant cell
- To analyse the structure and function of the cell
- To understand the concept of gene and gene expression
- To learn about the latest concept of prokaryotic and eukaryotic DNA structure and expression

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- apply the gained knowledge in plant molecular biology and agriculture
- do plant genome research
- correlate cell morphology with function
- understand biosynthesis of nucleic acids and cell division
- analyze Molecular processes

**Unit 1 (13 Hours)**

**Introduction**

- 1.1 Cell Theory: A brief study of the relationship of Cytology with other Biological sciences
- 1.2 Cell Membrane: Chemical Composition, Molecular Organization, Molecular Models and Biogenesis
- 1.3 Cell Organelles-Structure, Chemical Composition, Function and Biogenesis of the following: Endoplasmic Reticulum, Golgi Apparatus, Mitochondria, Chloroplast, Microbodies-Peroxisomes, Glyoxysomes

**Unit 2 (13 Hours)**

**Nucleus**

- 2.1 Nucleus: Nuclear Membrane, Nucleolus, Nucleoplasm
- 2.2 DNA Structure- Chemistry of Double Helix – Types of DNA (A,B,Z), Chargaff's rule, T<sub>m</sub> value, Histones – Nonhistones
- 2.3 Chromosomes - Structure and Chemistry, Molecular organization
- 2.4 Cell Cycle - Mitosis and Meiosis

**Unit 3 (13 Hours)**

**DNA Replication**

- 3.1 Central dogma, DNA polymerases
- 3.2 Modes of DNA replication – Semiconservative, Conservative and Dispersive
- 3.3 DNA Replication - Initiation, Replication forks, Leading Strand and Lagging Strand Synthesis; Proteins involved in Replication
- 3.4 DNA Repair: DNA damage, Direct Repair – Photoreactivation

**Unit 4 (13 Hours)**

**Transcription and Translation**

- 4.1 RNA polymerases
- 4.2 Transcription of Prokaryotic Genes: Initiation, Elongation and Termination
- 4.3 Molecular Structure of Three Classes of RNA (mRNA, rRNA, tRNA)
- 4.4 Genetic code, Ribosomes, Mechanism of prokaryotic translation – Initiation, Elongation and Termination

**Unit 5 (13 Hours)**

**Gene Regulation**

- 5.1 Prokaryotic Regulation: Operon Concept – lac operon and trp operon
- 5.2 Epigenetics and DNA methylation
- 5.3 Eukaryotic Regulation: Genetic Imprinting
- 5.4 Model plant in research: *Arabidopsis thaliana*

**BOOK FOR STUDY**

Verma P.S and K.Agarwal . *Cytology*, New Delhi: Chand, 1988.

**BOOKS FOR REFERENCE**

- Benjamin, L. *Genes IX*, New York: Oxford University, 2014.
- Bruce Alberts. *Essentials of Cell Biology*. New York: Garland Science, 2008.
- Chhazllani V. K., *Plant Cell Biology*. Delhi: Manglam, 2011.
- David P. Clark. *Molecular Biology*. New York: Elsevier, 2005.
- De Robertis, E.D.P, and De Robertis. E.M.F. *Cell and Molecular Biology*, (6<sup>th</sup> ed.) Philadelphia: W.B.Saunders College, 2007.
- Freifelder, D. *Molecular Biology*. (2<sup>nd</sup>ed.). Boston: Jones and Barlett, 1987.
- Geoffrey, M.Cooper and Robert, E.Hausman. *The Cell*. (4<sup>th</sup> ed.), USA :ASM, 2007.
- Karp.G. *Cell and Molecular Biology*.New York: John Wiley, 2007.
- Morris M. D. *Molecular Biotechnology* CBS New Delhi, 2016.
- Polard.F.D.,W.C.Earnshaw and J.L.Schwartz. *Cell Biology*.Philadelphia: Saunders, 2008.
- Preeti Mehta. *Understanding Molecular Biology* Narosa, 2016.
- Wolfe, S.L. *Molecular and Cellular Biology*.USA: Wadsworth, 1999.

**JOURNALS**

Journal of Molecular Biology  
European Journal of Cell Biology  
International Journal of Cell Biology

**WEB RESOURCES**

[www.ncsu.edu/imse/1/cellbiology.htm](http://www.ncsu.edu/imse/1/cellbiology.htm)

[www.nature.com/ncb](http://www.nature.com/ncb)

[www.cellbio.com](http://www.cellbio.com)

[www.gvsu.edu/cmb](http://www.gvsu.edu/cmb)

cellmolbio.bsd.uchicago.edu

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

**Section A –** Objective questions

9 x 1 = 9 marks

Very Short Answers

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Section B –** 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)

**Section C –** 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

### **End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A –** Objective questions 18 x 1 = 18 marks

Choose the correct answer

5 x 1 = 5 marks

Fill in the blanks

5 x 1 = 5 marks

Match the following

5 x 1 = 5 marks

True or False

3 x 1 = 3 marks

Very Short Answers

6 x 3 = 18 marks (6 out of 9 in 50 words each)

**Section B –** 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)

**Section C –** 2x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V (A). PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**MICROBIOLOGY**

**CODE:19BT/MC/MB54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To provide an understanding of microorganisms around us
- To learn their contributions to everyday processes
- To understand the disease cycle of microorganisms
- To analyze the impact of microbes on plants and animals

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- appreciate the importance of microbes in soil, water and air
- master the technique of isolating microorganisms
- identify the disease cycle of viruses
- pursue higher studies and research in microbiology
- get employment in Microbiological laboratories

**Unit 1 (13 Hours)**

**History of Microbiology**

- 1.1 Germ Theory of Disease, Koch's Postulates, Whittaker's Five Kingdom Theory and Three Domain Concept of Carl Woese
- 1.2 Vaccination – Vaccina, BCG, MMR, DPT
- 1.3 Classification (Bergey's Manual), Outlines of major groups only
- 1.4 Bacterial Morphology: Cell Wall, Capsule, Flagella, Fimbriae, Nucleus, Plasmids Endospore and Storage Granules

**Unit 2 (13 Hours)**

**Bacteria**

- 2.1 Growth: kinetics, Growth Curve, Factors Affecting Growth
- 2.2 Nutritional Types and Types of Media
- 2.3 Control of Microorganisms: Physical Agents - Temperature (high and low), Dessication, Filtration and Radiation, Chemical – Halogens, Alcohols, Preservatives – Natural (Salt & Sugar) Chemical (Sorbates, Benzoate, Sulfur dioxide)
- 2.4 Genetic Recombination: Conjugation, Transformation and Transduction

**Unit 3** **(13 Hours)**  
**Viruses**

- 3.1 General Properties of Viruses, Cultivation, Purification and Assay (Plaque Formation)
- 3.2 Structure: Virion Size, Helical Capsid, Icosahedral Capsid and Viral Envelope
- 3.3 Replication: Bacteriophages (Lytic and Lysogenic Cycles), Plant Virus (Tobacco Mosaic Virus) and Animal Virus (Herpes Simplex Virus and Retro Virus)
- 3.4 Prions, Viroids and Virusoids

**Unit 4** **(13 Hours)**  
**Soil Microbiology**

- 4.1 Role of Bacteria, Fungi and Actinomycetes in Composting
- 4.2 Biogeochemical Cycle: Nitrogen, Phosphorous and Carbon
- 4.3 Applications of VAM in Forestry and Agriculture
- 4.4 Causal organisms, Symptoms and Control measures of Root gall disease, Fusarium Wilt, Bunchy top of Banana and Little leaf of Brinjal

**Unit 5** **(13 Hours)**  
**Microbiology of Water and Air**

- 5.1 Microbiology of Domestic Water and Sewage
- 5.2 Purification of Drinking Water, Sewage Treatment and Disposal
- 5.3 Distribution and Sources of Air Borne Organisms
- 5.4 Enumeration of Microorganisms in Air - Sampling Techniques

**BOOK FOR STUDY**

Powar, C.B., and H.F.Daginawala. *General Microbiology* - Vol. II, Mumbai: Himalaya, 2010.

**BOOKS FOR REFERENCE**

- Ananthanarayanan and J.Paniker, *Textbook of Microbiology*, 10<sup>th</sup> ed, 2018.
- Gerard J.Tortora,B.R.Funke and C.L.Case, *Microbiology*. 11<sup>th</sup> ed, 2016.
- Hogg, S. *Essentials Microbiology*. England: John Wiley, 2010.
- Joanne M Willey., *Microbiology*.MC Graw- Hill, 2011.
- Kathleen P.Talaro and Berry Chess, *Foundations in Microbiology*. McGraw-Hill, 2012.
- Maier, R.M., I.L. Pepper and C.P. Gerba. *Environmental Microbiology*. U.S.A: Academic, 2006.
- Parry,J.Thelma, Pawsey and K.Rosa. *Principles of Microbiology*. London: Hutchinson, 1984.
- Pelczar, J.Michael, (Jr.), D.Reid, Roger, E.C.S.Chan and Kreig, *Microbiology*. New Delhi: Tata McGraw – Hill, 1993.
- Panda S.C., *Principles and Practices of Water Management*. Agrobios, 2011.
- Patwardhan, A.D., *Industrial Waste Water Treatment*. 12<sup>th</sup> ed, 2017.
- Presscot, L.M., P.H. John and D.A. Klein, *Microbiology*. U.S.A.: W.M. Brown, 2005.
- Subbarao, N.S., *Soil Microbiology*. 5<sup>th</sup> ed, 2017.

**WEB RESOURCES**

[www.abou.com/generalmicrobiology](http://www.abou.com/generalmicrobiology)



## **JOURNALS**

Folia Microbiologia

Microbiology

Indian Journal of Microbiology

Plant Microbes Symbiosis: Applied Facets

International Microbiology

Journal of Industrial Microbiology and Biotechnology

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

**Section A –** Objective questions

9 x 1 = 9 marks

Very Short Answers

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Section B –** 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)

**Section C –** 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

### **End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A –** Objective questions 18 x 1 = 18 marks

Choose the correct answer

5 x 1 = 5 marks

Fill in the blanks

5 x 1 = 5 marks

Match the following

5 x 1 = 5 marks

True or False

3 x 1 = 3 marks

Very Short Answers

6 x 3 = 18 marks (6 out of 9 in 50 words each)

**Section B –** 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)

**Section C –** 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ECOLOGY AND ENVIRONMENTAL BIOTECHNOLOGY**

**CODE:19BT/MC/EE54**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To create awareness on ecological issues
- To study the health hazards caused by toxic chemicals released in the environment
- To provide an understanding of the use of biological organisms as agents of monitoring toxicity

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- learn techniques for gathering data in the field
- understand the toxicity of xenobiotics
- apply practical techniques in monitoring pollution
- develop a basic understanding of the risk of pollutants and their impact on the ecosystem
- appreciate plant biodiversity
- gain an understanding of Geographic Information System

**Unit 1 (10 Hours)**

**Plant Communities**

- 1.1 Qualitative Analysis - Floristic Composition, Stratification, Periodicity, Life forms - Raunkaier's Biological Spectrum
- 1.2 Quantitative analysis: Density, Cover, Abundance, Frequency, Index of Dominance, Index of Similarity between 2 samples, Shannon's Index of General Diversity
- 1.3 Sampling of Population - Quadrat, Transect, Loop and Point method

**Unit 2 (10 Hours)**

**Ecosystem**

- 2.1 Terrestrial Ecosystems
- 2.2 Aquatic Ecosystems
- 2.3 Ecological Adaptations- Hydrophytes, Xerophytes and Halophytes

**Unit 3 (10 Hours)**

**Environmental Toxicology**

- 3.1 Biomagnification
- 3.2 Bioaccumulation
- 3.3 Biotransformation - DDT

**Unit 4**  
**Biomonitoring** (11 Hours))  
4.1 Bioindicators  
4.2 Bioleaching  
4.3 Phytoremediation

**Unit 5**  
**General Topics** (11 Hours)  
5.1 Environmental Impact Assessment (EIA)  
5.2 Environmental Quality Monitoring of Air and Water  
5.3 Environmental Risk Assessment

### BOOK FOR STUDY

Sharma P. D. *Environmental Biology and Toxicology*. India: Rastogi Publications, 2013.

### BOOKS FOR REFERENCE

Arumugam, N., *Ecology and Toxicology*. Saras Publication. 2010.  
Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> edition) Universities Press, 2013.  
Bhatia S.C., *Environmental Ecology*. Agrotech. 2013..  
Bhatta Basudeb, *Remote Sensing and GIS*, 2<sup>nd</sup> Revised Edition, Oxford University Press. 2012.  
Bhattacharya, K.S., Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt. Ltd., New Delhi: 2015.  
Kumaresan, V and N. Arumugam. *Plant Ecology and Phytogeography*. Saras Publication. 2012.  
Kumaresan, V and N. Arumugam. *Environment and Pollution*, Saras Publication, 2016.  
Saha, T.K., *Ecology and Environmental Biology*, Kolkata: Books and Allied (P) Ltd., 2016.  
Verma, P.S., *Environmental Biology and Principles of Ecology*. India: S.Chand, 2000.

### JOURNALS

International Journal of Organic Evolution  
Journal of Human Evolution  
Ecology and Evolution Journal  
Molecular Biology and Evolution  
Journal of Plant Systematics and Evolution  
Journal of Botany  
Genetic Resources and Crop Evolution

### WEB RESOURCES

[www.eattheweeds.com](http://www.eattheweeds.com)

openfarmtech.org

greenpeace.org

wwf.org

foe.co.uk- Friends of the Earth

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:**

**Section A –** Objective questions  
Very Short Answers

**Total Marks: 50**

9 x 1 = 9 marks

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Duration: 90 minutes**

**Section B** –  $2 \times 6 = 12$  marks (2 out of 3 questions to be answered in 200 words each)

**Section C** –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered in 1000 words each)

**Other Components:**

**Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

**End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A** – Objective questions  $18 \times 1 = 18$  marks

Choose the correct answer  $5 \times 1 = 5$  marks

Fill in the blanks  $5 \times 1 = 5$  marks

Match the following  $5 \times 1 = 5$  marks

True or False  $3 \times 1 = 3$  marks

Very Short Answers  $6 \times 3 = 18$  marks (6 out of 9 in 50 words each)

**Section B** –  $4 \times 6 = 24$  marks (4 out of 6 questions to be answered in 200 words each)

**Section C** –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V(A). PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CELL AND MOLECULAR BIOLOGY, MICROBIOLOGY, ECOLOGY AND  
ENVIRONMENTAL BIOTECHNOLOGY - PRACTICAL**

**CODE:19BT/MC/P553**

**CREDITS:3**

**L T P:0 0 6**

**TOTAL HOURS:78**

**CELL AND MOLECULAR BIOLOGY**

**(26 Hours)**

1. Squash Techniques
2. Extraction of DNA from Onion Cells
3. Demonstrations: Plasmid DNA - Electrophoresis, Restriction Enzyme
4. Identification of Various Cell Organelles through Photomicrographs

**MICROBIOLOGY**

**(26 Hours)**

1. Demonstration of the working and use of Autoclave, Hot Air Oven, Water Bath and Laminar Air Flow
2. Inoculation Techniques to Isolate Bacteria: Slant, Pour Plate, Streak Plate, Stab and Spread plate
3. Preparation of Nutrient Media and Broth
4. Gram Staining
5. Antimicrobial Property using Antibiotic Discs / Turmeric

**Demonstration Experiments:**

1. Effect of Temperature and pH on Bacterial Growth (Qualitative)
2. Isolation of Bacteria and Fungi from Soil on Various Media: Enrichment, Selective and Differential Media
3. Tests for Coliform
4. Methylene Blue Reductase Test
5. Wine Production and Estimation of Lactic Acid

**ECOLOGY AND ENVIRONMENTAL BIOTECHNOLOGY**

**(26 Hours)**

- 1 Construction of Quadrat, Belt and Line Transect - Calculation of Frequency, Percentage, Density and Abundance
- 2 Effect of Toxic Substances (Chemicals) on Mitogenic Property of Onion Root
- 3 Morphological and Structural Adaptations of Hydrophytes, Xerophytes and Halophytes (any two in each category)  
Hydrophyte: any two  
Xerophyte: any two  
Halophyte: any one

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Two Tests (2 x 20 = 40 Marks)

Record

10 Marks

### **End Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

1. Cell Biology (Squash) Identification of 2 Stages and Diagram
2. Microbiology – Inoculation – Description, Diagram  
Gram's Staining
3. Ecology – Quadrat / Transect - Calculation  
Sectioning – Identification, Diagram and Reasons
4. Spotters (3 x 5) Identification, Diagram and Reasons  
Two Spotters from Molecular Biology  
One Spotter from Microbiology

7  
7  
7  
7  
15

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086.**

**Interdisciplinary Core Course Offered by the Departments of Botany and Chemistry to  
B.Sc. Chemistry and B.Sc. Plant Biology and Plant Biotechnology Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BIOANALYTICAL TECHNIQUES**

**CODE:19ID/IC/BA55**

**CREDITS:5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of extraction and separation techniques
- To use spectroscopic techniques to understand the structure of phytochemicals
- To determine cell size and morphology using microscopy
- To understand the basic principles of various instrumentation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Extract and separate phytochemicals using separation techniques
- Isolate biomolecules using centrifugation and gel electrophoresis
- Characterize and analyse the extracted product
- Examine and check the purity of a sample
- Separate a substance based on its solubility
- Estimate the metal ions by spectrophotometry and Flame photometry
- Assess the water quality using turbidimetry.

**Unit 1 (16 Hours)**

**Microscopy: Principle, Construction and Application**

- 1.1 Light microscopes – Compound, Phase Contrast, Differential Interference Contrast and Confocal Microscopes.
- 1.2 Preparation of Specimen for Light Microscopy – Paraffin Techniques – Fixatives: FAA, Carnoy's, Dehydration and Infiltration, Embedding and Sectioning (Paraffin Blocks), Staining and Mounting.
- 1.3 Electron Microscopes – TEM, specimen preparation for TEM.

**Unit 2 (15 Hours)**

**Centrifugation: Principle, Instrumentation and Application**

- 2.1 Bench, Ultracentrifuge, Refrigerated, Continuous flow centrifuge and Microfuge.
- 2.2 Density gradient and differential centrifugation
- 2.3 Isolation of Chloroplast (Practical)

**Unit 3 (16 Hours)**

**Separation Techniques**

- 3.1 Separation by solvent extraction: Principle, Extraction by chemically active solvents, Soxhlet extraction, Factors Influencing the Extraction Efficiency.
- 3.2 Capillary Electrophoresis (Capillary Zone and Capillary Gel), Gel Electrophoresis – Agarose and Polyacrylamide, Orthogonal-Field-Alternation, Gel Electrophoresis (OFAGE), Field Inversion Gel Electrophoresis (FIGE), Immunoelectrophoresis.
- 3.3 Separation of Proteins/ DNA using Gel Electrophoresis (Practical)
- 3.4 Separation by Precipitation, methods of Filtering, Drying- Ignition & Incineration of Precipitate, Nucleation, Crystal Growth, Solubility Product, Principle, Factors affecting Solubility, Purity of Precipitates, Co-precipitation and Post Precipitation

**Unit 4 (14 Hours)**

**Purification techniques**

- 4.1 Desiccants: Types, efficiency, regeneration and choice of desiccants
- 4.2 Technique of drying of solids, Distillation: Types, Theory and techniques of fractional, Steam and Vacuum distillation
- 4.3 Recrystallisation, Sublimation - Types, techniques and applications
- 4.4 Criteria and test for purity- melting point, boiling point and density

**Unit 5 (17 Hours)**

**Spectroscopic Techniques and Spectrochemical Methods**

- 5.1 Introduction to Spectroscopy, Lambert Beer's law-statement and deviation; UV-Visible-instrumentation and applications-estimation of  $Mn^{2+}$
- 5.2 Nephelometry and Turbidimetry Principle, Instrumentation and Applications-determination of TDS of water sample
- 5.3 Principle, Instrumentation and Applications of Atomic absorption Spectroscopy (estimation of Ca), Flame photometry (estimation of K/Na) and Fluorimetry (estimation of Fluorescein)

**BOOKS FOR STUDY**

Gopalan, R, Subramanian, P.S and Rengarajan, K. *Elements of Analytical Chemistry*. New Delhi: Sultan Chand, 2004.  
Skoog, D.A, West, D.M. *Fundamentals of Analytical Chemistry*. Thomson Asia, 2014.  
Steven, E Ruzin, *Plant Microtechnique and Microscopy*, USA: Oxford University, 1999.  
Jensen, W.A. *Botanical Histochemistry*. New Delhi: TataGraw – Hill, 1962.  
Vogel, A.I. *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, Science, 2000.

**BOOKS FOR REFERENCE**

Beckman Coulter, Daniel, C Liebler. *Introduction to Proteomics: Tools for new biology*, Human, 2002.  
Day R.A.Jr. & A.L. Underwood. *Quantitative Analysis*. New Delhi: Prentice Hall of India, 1993.  
Herb Schwartz and Andras Guttman. *Separation of DNA by Capillary Electrophoresis*, USA



James P. Landers, *Handbook of Capillary and Microchip Electrophoresis and Associated Microtechniques*, USA: CRC, 2008.

Karp Gerald. *Cell and Molecular Biology: Concepts and Experiments*. USA: Wiley, 2013.

Landers, James P. *Handbook of Capillary Electrophoresis*. USA: CRC, 1996.

Mendhan, J., *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson 2009.

Skoog, Douglas A, James F. Holler & Timothy A. Nieman. *Principles of Instrumental Analysis*. Singapore: Haracourt Asia, 2001.

Srivastava, T.N & P.C.Kamboj. *Systematic Analytical Chemistry*. New Delhi: Shobanlal Nagin Chand, 1999.

Usharani, S. *Analytical Chemistry*. New Delhi: Macmillan, 2006.

## WEB RESOURCES

<https://www.britannica.com/science/separation-and-purification>

<http://www.britannica.com/EBchecked/topic/108875/separation-and-purification>

<http://www.chemistry.co.nz/stoichiometry.htm>

## PATTERN OF ASSESSMENT

### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

### Other Components:

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving

MCQ/Model Preparation/Short Answer Tests

### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V (A). PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PLANT PHYSIOLOGY**

**CODE:19BT/MC/PP64**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To study the fundamental processes of plants including physical, chemical and biological functions in the context of cellular activities at organism level
- To understand the concept of growth and working mechanism in plants
- To gain knowledge on practical application of plant growth regulators
- To give a practical exposure through conduct of experiments in relation to environment.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- appreciate the metabolic events such as Photosynthesis, Respiration and Transpiration
- gain knowledge on integrated activities of plants
- identify the nutritional requirement of plants
- understand the physiology of flowering
- enrich scientific reasoning and ability to interpret experimental data through experiential learning

**Unit 1 (10 Hours)**

**Water Relations in Plants**

- 1.1 Water Potential : Imbibition, Diffusion, Osmosis, Plasmolysis, Diffusion Pressure Deficit (DPD), Osmotic Pressure and Turgor Pressure
- 1.2 Transpiration: Definition, Significance and Mechanism of Stomatal Transpiration, Starch - Sugar Interconversion, Synthesis of Organic Acid in Guard Cells, ATP driven  $H^+$  and  $K^+$  Exchange Pump, Role of ABA in Stomatal opening and closure
- 1.3 Water Movement across the Root and Xylem - Active and Passive Absorption

**Unit 2 (10 Hours)**

**Mineral Nutrition**

- 2.1 Macronutrients and Micronutrients – Role and its deficiency in plants
- 2.2 Mechanism of Mineral Salt Absorption: Theories; Contact Exchange Theory, Carbonic Acid Theory, Donnan Equilibrium; Carrier Concept and Cytochrome Pump Theory, Transport of Organic Solutes: Phloem Loading and Unloading
- 2.3 Sources of Nitrogen, Nitrate and Nitrite Reduction, Assimilation of Nitrite and Ammonium

**Unit 3 (10 Hours)**

**Photosynthesis**

- 3.1 Light Reaction: Red Drop, Emerson Enhancement Effect, Pigment System I and II, Phosphorescence and Fluorescence
- 3.2 Photophosphorylation, CO<sub>2</sub> assimilation pathway: C<sub>3</sub>, C<sub>4</sub> cycle, CAM and Photorespiration
- 3.3 Factors influencing Photosynthesis

**Unit 4 (11 Hours)**

**Respiration**

- 4.1 Respiratory Quotient
- 4.2 Glycolysis, Substrate level Phosphorylation, Entner - Doudroff Pathway, Glyoxylate Cycle
- 4.3 Krebs Cycle, Electron Transport Pathway, Oxidative Phosphorylation and Cyanide Resistant Pathway

**Unit 5 (11 Hours)**

**Phytohormones and Physiology of Flowering**

- 5.1 Phytohormones – Chemical Nature, Bioassay (one only), Physiological Effect and Practical Applications of the following Plant Growth Regulators: Auxin, ABA, Cytokinin, Gibberellic Acid and Ethylene
- 5.2 Photoperiodism
- 5.3 Vernalization

**BOOK FOR STUDY**

Jain, V.K. *Fundamentals of Plant Physiology*. New Delhi: Chand, 2013.

**BOOKS FOR REFERENCE**

- Bidwell, R.G.S. *Plant Physiology*. New York: Macmillan, 1983.  
Devlin, R.M. *Plant Physiology*, New Delhi: Affiliated East, 1983.  
Malcom Wilkins, B. *Advanced Plant Physiology*. England: ELBS/Longman, 1968.  
Mukherji, S. and A.K. Ghosh. *Plant Physiology I*. Kolkatta: New Central, 2004.  
Noggle, G. Ray and G.J. Fritz. *Introductory Plant Physiology*. New Delhi: CBS, 1998.  
Salisbury, F.B and C. Ross. *Plant Physiology*. New Delhi: Prentice Hall. 2008.  
Sinha, R.K. *Modern Plant Physiology*. New Delhi: Narosa, 2015.  
Taiz, L and E. Zeiger. *Plant Physiology and Development*. New Delhi: Panima, 2018.  
Weston, G.D. *Crop Physiology – Biotechnology*. London: Butterworth – Heinemann, 1994.  
William, G. Hopkins, *Introduction to Plant Physiology*, Wiley, 2008.

**JOURNALS**

Journal of Plant Physiology (Elsevier)  
Journal of Plant Physiology (Science Direct)  
International Journal of Plant Physiology and Biochemistry  
Indian Journal of Plant Physiology

**WEB RESOURCES**

[www.journals.elsevier.com](http://www.journals.elsevier.com)  
[www.springer.com](http://www.springer.com)  
[www.academicjournals.org](http://www.academicjournals.org)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

**Section A –** Objective questions

9 x 1 = 9 marks

Very Short Answers

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Section B –** 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)

**Section C –** 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

### **End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A –** Objective questions 18 x 1 = 18 marks

Choose the correct answer

5 x 1 = 5 marks

Fill in the blanks

5 x 1 = 5 marks

Match the following

5 x 1 = 5 marks

True or False

3 x 1 = 3 marks

Very Short Answers

6 x 3 = 18 marks (6 out of 9 in 50 words each)

**Section B –** 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)

**Section C –** 2x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V(A). PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PLANT BIOTECHNOLOGY**

**CODE:19BT/MC/PB64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To study the fundamental principles of tissue culture
- To understand the applied aspects of Biotechnology and Genetic Engineering
- To gain knowledge on plant gene interaction and expression
- To get familiar with the concepts of modern technology pertaining to large scale production of agricultural products

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- apply the knowledge gained from Genetic Engineering in agriculture
- carry out research in plant tissue culture
- to make venture in plant genome research
- enable the students to pursue higher studies and research work in Biotechnology
- provide an opportunity to get employment in Biotechnology industries and laboratories

**Unit 1 (15 Hours)**

**Tissue Culture**

- 1.1 Totipotency, Differentiation, Dedifferentiation, Redifferentiation, Culture techniques: sterilization, inoculation, incubation, acclimatization, organogenesis, embryogenesis and regeneration
- 1.2 Organ culture: Shoot Culture, Anther and Embryo Culture
- 1.3 Cell culture: Single cell culture, Suspension culture and Synthetic seeds
- 1.4 Somatic Hybridization: Protoplast Culture: Isolation, Culture and Fusion: Spontaneous and Induced Fusion, Identification and Selection of Hybrid Cells
- 1.5 Somaclonal Variation

**Unit 2 (11 Hours)**

**Plant molecular biology**

- 2.1 Plant Genome Organization
- 2.2 Gene expression – Post transcriptional and Post translational modification
- 2.3 Chloroplast genome

**Unit 3 (13 Hours)**

**rDNA technology**

- 3.1 Introduction to Genetic Engineering

- 3.2 Techniques: Restriction Endonucleases, Ligation, Electrophoresis, Blotting  
 3.3 Hybridization, Autoradiography, PCR, DNA sequencing – Sanger's method

**Unit 4**  
**Gene transfer in Plants** (13 Hours)

- 4.1 Cloning Vectors: pUC 18, YAC and BAC  
 4.2 Ti Plasmid  
 4.3 Gene Transfer Technique using *Agrobacterium*  
 4.4 Physical Delivery Methods: PEG stimulated, Ballistics (Particle gun), Electroporation, Microinjection

**Unit 5**  
**Applications in Biotechnology** (13 Hours)

- 5.1 Transgenic Plants for Crop Improvement: Insect Resistance  
 5.2 Transgenic Plants - Edible Vaccines  
 5.3 Molecular markers (RFLP, RAPD) in crop improvement program  
 5.4 Bioethics and Biosafety

**BOOK FOR STUDY**

Satyanarayana, U. *Biotechnology*. Kolkata, 2015.

**BOOKS FOR REFERENCE**

- Anand Prakash., *Plant Tissue Culture*. SBW, 2014.  
 Dubey, R.C. *A Text book of Biotechnology*. New Delhi: S.Chand, 1993  
 Freifelder, D. *Molecular Biology*. Boston: Jones and Barlett, 1987.  
 Glick, B.R., and J.J.Pasternak. *Molecular Biotechnology - Principles and Applications of Recombinant DNA*. New Delhi: Panima, 1994.  
 Ignacimuthu, S. *Basic Bio-Technology*. New Delhi: Tata-McGraw Hill, 1996.  
 Ignacimuthu, S.J. *Biotechnology –An Introduction*. New Delhi: Narosa, 2015.  
 Kalyan Kumar De. *An Introduction to Plant Tissue Culture*. Kokatta: New Central Book Agency, 2000.  
 Kumar, H.D. *A Text book of Bio-Technology*. New Delhi: East West, 1993.  
 Kamal Nayan joshi., *Biotechnology*., Delhi: Manglam, 2013.  
 Narayanaswamy, S. *Plant Cell and Tissue Culture*. New Delhi: Tata McGraw Hill, 1994.  
 Patel, A.H. *Industrial Microbiology*. New Delhi: Macmillan, 1990.  
 Purohit, S, S. and S. K.Mathur. *Biotechnology - Fundamentals and Applications*. Agrobios. 2000.  
 Purohit, S.S. *Agricultural Biotechnology*. New Delhi: Agro Botanica, 2000.  
 Renuka Sharma., *Transgenic Crops*. Discovery, 2013.  
 Sharma H.P., *Plant Tissue Culture*. Agrobios, 2012.  
 Sanjay Kumar Sharma. *Plant Tissue Culture*. Book Enclave Jaipur, 2016.  
 Trehan, K. *Biotechnology*. New Delhi: Wisley Easter, 1991.  
 Treven, M.D.S. Baffery, R.H.Goulding and F.Standbury. *Bio-Technology – The biological principles*. New Delhi: .Tata-McGraw, Hill, 2011.  
 Watson, J.D., M.Gilman, J.Witkowski and M.Zoller. *Recombinant DNA*. New York: Scientific American Books, 1990.

## JOURNALS

Plant Biotechnology Journal  
Journal of Plant Molecular Biology & Biotechnology  
Journal of Genetic Engineering and Biotechnology  
International Journal of Genetic Engineering

## WEB RESOURCES

[www.greenpeace.org](http://www.greenpeace.org)  
[www.genengnews.com](http://www.genengnews.com)  
[www.sustainabletable.org](http://www.sustainabletable.org)  
[www.iari.res.in](http://www.iari.res.in)  
[www.nipgr.res.in](http://www.nipgr.res.in)

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

**Section A –** Objective questions 9 x 1 = 9 marks  
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**Section C –** 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V.A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year (2019–2020))

**GENETICS, PLANT BREEDING AND EVOLUTION**

**CODE:19BT/MC/GP64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the importance of hereditary and evolution
- To enable students to think analytically to solve genetic problems
- To provide a basic knowledge of the techniques of plant breeding
- To understand the principles and mechanism of evolution.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the basic principles of inheritance in plants
- gain knowledge on the interactions of genes
- understand the inheritance of linked genes and recombination of genes
- describe the inheritance of X and Y linked genes
- construct personal and family pedigrees
- understand the theories of evolution.

**Unit 1 (13 Hours)**

**Basic Concepts of Genetics-I**

- 1.1 Mendelian Genetics
- 1.2 Gene interactions: Allelic (Incomplete dominance and Co-dominance) and Non-Allelic (Dominant and Recessive Epistasis, Inhibitory, Complementary, Additive and Duplicate genes).
- 1.3 Multiple Gene Inheritance - Skin colour in man and Ear length in *Maize*
- 1.4 Extra- Chromosomal Inheritance in *Mirabilis jalapa* and Yeast

**Unit 2 (13 Hours)**

**Basic Concepts of Genetics-II**

- 2.1 Linkage in Maize
- 2.2 Theories of Crossing Over – Classical Theory and Chiasma Theory
- 2.3 Chromosomal Aberrations- deletion, duplication, inversion and translocation.
- 2.4 Sex Determination in *Melandrium*
- 2.5 Sex Linkage in Man – Colour Blindness



**Unit 3 (13 Hours)**

**Human Genetics**

- 3.1 Down's Syndrome
- 3.2 Klinefelter's Syndrome
- 3.3 Sickle Cell Anaemia
- 3.4 Muscular Dystrophy
- 3.5 Genetic Counselling

**Unit 4 (13 Hours)**

**Plant Breeding**

- 4.1 Objectives of Plant Breeding
- 4.2 Selection Methods - Pure line and Clonal
- 4.3 Basic Hybridization Techniques
- 4.4 Induced Polyploidy in Plant Breeding
- 4.5 Induced Mutation in Plant Breeding

**Unit 5 (13 Hours)**

**Evolution**

- 5.1 Origin of Life – Spontaneous and Chemosynthetic
- 5.2 Theory of Inheritance of Acquired characters
- 5.3 Theory of Natural Selection
- 5.4 Mutation theory of De Vries
- 5.5 Synthetic theory of evolution

**BOOK FOR STUDY**

Verma, P.S., V.K. Agarwal *Cell Biology, Genetics, Molecular Biology, Evolution and Ecology* New Delhi: S.Chand, 2014

**BOOKS FOR REFERENCE**

- Benjamin, L. *Genes IX*. New York: Oxford University, 2014.
- Chahal, G.S. and Gosal, S.S. *Principles and Procedures of Plant Breeding, -Biological and Conventional Approaches* New Delhi: Narosa Publishing House Pvt. Ltd. 2015.
- Daniel L Harti., *Essential Genetics*. Jones and Bartlett, 2014.
- Kumar Sushil, *Plant Breeding and Genetics*, Jaipur, Book Enclave, 2016..
- Kumaresan, V. *Plant Breeding*. Nagercoil: Saras. 2009.
- Mann Rosanna, *Human Genetics and Genomics*, Callisto Reference, ,2017.
- Rastogi Veer Bala, *Organic Evolution*, Medtech, 2016.
- Singh, M.P. and Sunil Kumar, *Genetics and Plant Breeding*, Vol .I & II New Delhi, APH Publishing Corporation, 2016.
- Trivedi Dipali, J. *Human Genetics*, 2016.
- Zingare A. K, *Plant Breeding and Seed Saving*. New Delhi: Satyam, 2013.

**WEBSITES**

- [www.genome.gov/12514286](http://www.genome.gov/12514286)
- [www.dnalc.org](http://www.dnalc.org)
- [www.kumc.edu/gec](http://www.kumc.edu/gec)
- [www.mendelweb.org](http://www.mendelweb.org)

## **JOURNALS**

Journal of Plant Breeding and Genetics  
Indian Journal of Plant Breeding and Genetics  
Journal of Plant Breeding and Crop Science  
Journal of Plant Science and Molecular Breeding  
International Journal of Organic Evolution  
Journal of Human Evolution  
Ecology and Evolution Journal  
Molecular Biology and Evolution  
Journal of Plant Systematics and Evolution  
Journal of Botany  
Genetic Resources and Crop Evolution

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

**Section A –** Objective questions 9 x 1 = 9 marks  
Very Short Answers 3 x 3 = 9 marks (3 out of 4 in 50 words each)

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**Section C –** 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

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Fill in the blanks 5 x 1 = 5 marks

Match the following 5 x 1 = 5 marks

True or False 3 x 1 = 3 marks

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V(A). PLANT BIOLOGY AND  
PLANT BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year (2019–2020))

**PLANT PHYSIOLOGY, PLANT BIOTECHNOLOGY AND GENETICS, PLANT  
BREEDING AND EVOLUTION - PRACTICAL**

**CODE:19BT/MC/P663**

**CREDITS:3**

**L T P:0 0 6**

**TOTAL HOURS:78**

**PLANT PHYSIOLOGY**

**(26 Hours)**

1. Determination of Osmotic Pressure using Plasmolytic Method
2. Determination of Water Potential by Dye method
3. Effect of Environmental Factors on Transpiration - Light and Wind
4. Effect of Quality of Light and CO<sub>2</sub> Concentration on the Rate of Photosynthesis
5. Separation of Chlorophyll Pigments by Paper Chromatography
6. Demonstration of Peroxidase Activity
7. Determination of the Rate of Respiration using Ganong's Respiroscope

**DEMONSTRATION EXPERIMENTS**

1. Colorimetric Estimation of Nitrate Reductase
2. Effect of Auxin on Root formation
3. Demonstration of Hill's Reaction
4. Effect of temperature on Permeability

**PLANT BIOTECHNOLOGY**

**(26 Hours)**

1. Tissue Culture Techniques
  - a. Composition and Preparation of M.S. Medium - Shoot tip culture and Callus Culture
  - b. Composition and Preparation Nitsch Medium - Anther Culture
  - c. Composition and Preparation White's Medium - Embryo Culture
2. Photomicrographs in Genetic Engineering
3. Demonstration of SDS-PAGE

**GENETICS, PLANT BREEDING & EVOLUTION**

**(26 Hours)**

1. Problems based on Interaction of Genes-Allelic and Non-Allelic
2. Problems based on Gene Mapping
3. Life Cycle of *Drosophila* (Culture Studies) - Demonstration
4. Construction and Analysis of Family Pedigree Charts
5. Plant Breeding Photomicrographs included in the Syllabus

**PATTERN OF ASSESSMENT****Continuous Assessment Test:**

Two Tests (2 x 20 = 40 Marks)

Record 10 Marks

**Total Marks: 50****Duration: 90 minutes****End Semester Examination:**

1. Physiology – Expt. set up (individual)

2. Genetics – Problems

3. Tissue culture

4. Spotters – Physiology (1)

Genetic Eng. (1)

Applied Biotech (1)

Plant Breeding (1)

Total

**Total Marks: 50****Duration: 3 hours**

10

10

10

20

50

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self**

**(10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family**

**(17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FRUIT PRESERVATION AND NUTRITION**

**CODE:19BT/ME/FN45**

**CREDITS:5**

**L T P:50 0**

**TOTAL HOURS:65**

**OBJECTIVES OF THE COURSE**

- To study the practical methods of preserving fruits and vegetables
- To understand the nutritive value of fruits and vegetables
- To enable students to develop a scientific bent of mind

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the preservation of fruits and vegetables
- develop a detailed understanding of the nutritive value of fruits and vegetables
- get familiar with the canning of fruits and vegetables
- gain confidence in preparation of wine and cider
- acquire practical skills in the preparation of food products

**Unit 1 (13 Hours)**

**Preservation of Fruits and Vegetables**

- 1.1 Temperature- High and Low
- 1.2 Drying
- 1.3 Radiation
- 1.4 Chemical Preservatives
- 1.5 Packaging of Fruits and Vegetables- CFB Boxes

**Unit 2 (13 Hours)**

**Nutritive Value of Fruits and Vegetables**

- 2.1 Classification of Fruits
- 2.2 Minerals
- 2.3 Vitamins
- 2.4 Antioxidants
- 2.5 Pigments

**Unit 3 (13 Hours)**

**Canning**

- 3.1 Steps in Canning
- 3.2 Canning of Fruits
- 3.3 Canning of Vegetables
- 3.4 Advantages and Limitations of Canning
- 3.5 Home Canning

**Unit 4** (13 Hours)  
**Fermented Beverages**  
4.1 Beetroot Wine  
4.2 Grape Wine  
4.3 Cider  
4.4 Vinegar

**Unit 5** (13 Hours)  
**Practical**  
**Preparation of the following products:**  
5.1 Guava Jelly  
5.2 Mixed Fruit Jam  
5.3 Mixed Vegetable Pickle  
5.4 Lime Syrup  
5.5 Grape Crush  
5.6 Pineapple Squash

### **BOOK FOR STUDY**

Roday Sunethra, *Food Science and Nutrition*, 3rd edition, Oxford University Press, 2018.

### **BOOKS FOR REFERENCE**

Didier Montet, Ramesh C. Ray *Fermented Foods, Part I: Biochemistry and Biotechnology*, 1st ed. New Delhi: CRC Press, 2015.

Frazier, W.C. and D.C. West Hoff, *Food Microbiology*, 5<sup>th</sup> edition New Delhi: T McGraw Hill, 2013.

.Ray Bibek and Bhunia Arun, *Fundamental Food Microbiology*, 5<sup>th</sup> ed, T & F, India, 2018.

Srilakshmi, B. *Nutrition Science*, 6<sup>th</sup> ed, New Age International Publishers, 2017.

### **JOURNALS**

Journal of Food Science

Journal of Food Science and technology

Journal of Nutrition of Food Science

Food Science Research Journal

### **PATTERN OF ASSESSMENT**

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**Section C –** 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

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**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

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**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PROJECT**

**CODE:19BT/ME/PR45**

**CREDITS:5**

**Guide lines:**

- **Page Limit:** The dissertation shall be within a space about 40-50 pages typed in font size 12, with 1½ line spacing in A4 size paper
- **Each dissertation will contain the following certificate:** “Dissertation submitted to Stella Maris College (Autonomous) Chennai, by Name of the candidate, Department Number, Department of Botany, Place, Month and Year
- **Submission:** Each student will prepare two copies of the dissertation and submit 15 days before the commencement of the End Semester Examination. One copy (hard and soft) to be submitted to the Head of the Department

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

Periodical review and submission of reports

**End Semester Examination:**

**Total Marks: 50**

Dissertation and Viva-Voce

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V(A). PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**HORTICULTURE**

**CODE:19BT/ME/HC45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide theoretical and practical knowledge of gardening
- To get practical training in gardening techniques
- To enable the students to be self-reliant and to develop their entrepreneurial skills

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- gain the skill in fundamental practices of vegetative propagation of plants
- become self - reliant to develop their own organic kitchen and terrace gardening
- implement the cultural practices of various plants
- become an entrepreneur in cut flowers, bonsai and terrarium

**Unit 1 (13 Hours)**

**Introduction and Techniques**

- 1.1 Introduction, divisions of Horticulture and famous gardens of India(Rashtrapathi Bhavan Garden, New Delhi, Brindavan Garden, Mysore, Indian Botanical Garden, Kolkata and Botanical Garden, Ooty)
- 1.2 Garden Implements
- 1.3 Growing Plants in Pot: Types of Pots, Potting and Repotting
- 1.4 Pot Culture (growing annuals)- Practical

**Unit 2 (13 Hours)**

**Garden Components and Propagation**

- 2.1 Garden and its Components: Fencing Hedge, Borders, Flower Beds, Edging, Lawn, Drives and Paths, Water Garden and Garden Adornments
- 2.2 Vegetative Propagation: Cutting, Layering, Grafting and Budding (Theory and Practical)
- 2.3 Sexual propagation by means of seeds

**Unit 3 (13 Hours)**

**Cultural Practices**

Propagation, Planting and Harvesting of the following Plants:

- 3.1 Fruits: Mango and Guava
- 3.2 Vegetable Crops: Onion and Potato
- 3.3 Economic Flowers : Rose and Jasmine
- 3.4 Vegetable Forcing

**Unit 4** (13 Hours)

**Organic Horticulture and Types of Gardens**

- 4.1 Organic Horticulture – organic gardening system, soil & nutrient management, pest & weed control approach
- 4.2 Kitchen Garden – Layout: Theory and Practical
- 4.3 Market Garden and Truck Garden
- 4.4 Rock Garden and Terrace Garden

**Unit 5** (13 Hours)

**General Topics**

- 5.1 Landscaping and Lawn maintenance
- 5.2 Cut Flowers, Flower Arrangement: Fresh and Dry (Theory and Practical)
- 5.3 Bonsai: Theory and Practical
- 5.4 Terrarium: Theory and Practical

**BOOK FOR STUDY**

Kumar, N. *Introduction to Horticulture*, Nagercoil: Rohini Agencies.1980.

**BOOKS FOR REFERENCE**

- Bhattacharyya and Purohit. *Organic Farming Biocontrol and Biopesticide Technology*. Agrobios India, 2012.
- Chauhan, D.V.S. *Vegetable Production in India*. Agra: Ram Prasad, 1968.
- Edmund, J.B., T.L.Senn, F.S.Andrews and R.G.Halfacre. *Fundamentals of Horticulture*. London: Tata McGraw Hill, 1994.
- George Acquah. *Horticulture Principles and practices*. London: PHI Learning, 2009.
- Gopalswamy Iyengar, K.S. *Complete Gardening in India*. Bangalore: Kalyan.1970.
- Janick, J. *Horticultural Science*. New Delhi: Surgeet, 1962.
- John Lindley, *Theory of Horticulture*. Facsimile pulisher,2018
- Naik, K.C. *South Indian Fruits and their Culture*, Madras: P.Varadharaj, 1968.
- Randhawa, G.S. *Ornamental Horticulture in India, Today and Tomorrow*. New Delhi: Indian Council of Agriculture Research, 1980.
- Sheela, V. L. *Horticulture*, Chennai: MJP, 2011.
- Saini R.S., *Laboratory Manual of Analytical Techniques in Horticulture*, Jodhpur: Agrobios, 2012.
- Yawalkar, K.S. *Vegetable Crops of India*. Nagpur: Agri -Horticultural, 1961.

**JOURNALS**

Indian Journal of Horticulture  
International Journal of Horticulture and Crop Science  
Journal of Horticultural Sciences

**WEB RESOURCES**

[www.hortportal.org](http://www.hortportal.org)  
[agritech.trau.ac.in](http://agritech.trau.ac.in)  
[www.agrihorticultureindia.com](http://www.agrihorticultureindia.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Section A –** Objective questions  
Very Short Answers

**Total Marks: 50**

9 x 1 = 9 marks

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Duration: 90 minutes**

**Section B** –  $2 \times 6 = 12$  marks (2 out of 3 questions to be answered in 200 words each)

**Section C** –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered in 1000 words each)

**Other Components:**

**Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

**End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A** – Objective questions  $18 \times 1 = 18$  marks

Choose the correct answer  $5 \times 1 = 5$  marks

Fill in the blanks  $5 \times 1 = 5$  marks

Match the following  $5 \times 1 = 5$  marks

True or False  $3 \times 1 = 3$  marks

Very Short Answers  $6 \times 3 = 18$  marks (6 out of 9 in 50 words each)

**Section B** –  $4 \times 6 = 24$  marks (4 out of 6 questions to be answered in 200 words each)

**Section C** –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V (A). PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INTRODUCTION TO BIOINFORMATICS**

**CODE:19BT/ME/BI45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To study the basic concepts of Bioinformatics
- To understand the pattern of sequence similarity
- To learn molecular biology through genomics and proteomic
- To study gene expression systems through *in-silico* studies

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- apply knowledge in surfing biological databases
- carry out similarity searches for DNA/Protein sequences
- predict structures with Molecular modeling
- pursue higher studies and research work in Bioinformatics
- get employment in the Pharmaceutical industries and laboratories

**Unit 1 (13 Hours)**

**Introduction and Databases in Bioinformatics**

- 1.1 Introduction, Branches of Bioinformatics
- 1.2 Aim, Scope and Research areas of Bioinformatics
- 1.3 Biological Database Retrieval System – ORF finder, RE base cutter, Pub Chem

**Unit 2 (13 Hours)**

**Biological Sequence Databases**

- 2.1 National Center for Biotechnology Information (NCBI): Tools and Databases of NCBI, Nucleotide Database, Protein Database, Gene Expression Database
- 2.2 EMBL Nucleotide Sequence Database (EMBL-Bank): Introduction, Sequence Retrieval, Sequence Submission to EMBL, Sequence analysis tools
- 2.3 DNA Data Bank of Japan (DDBJ): Introduction, Resources at DDBJ, Data Submission at DDBJ
- 2.4 Swiss-Prot and PIR: Introduction and Salient Features.
- 2.5 sequence analysis of nucleic acid/protein data using web-based tools - Practical

**Unit 3 (13 Hours)**

**Sequence Alignment**

- 3.1 Sequence analysis (Proteins and Nucleic acids) – FASTA formatting
- 3.2 Sequence alignment methods
  - 3.2.1 – Pairwise alignment (Local and Global) – BLAST
  - 3.2.2 – Multiple alignment – CLUSTAL W
- 3.3 Pairwise and Multiple alignments – Practical

**Unit 4 (13 Hours)**

**Protein structure prediction**

- 4.1 Structural Databases
- 4.2 Methods for protein structure prediction
  - 4.2.1 – Secondary structure predictions - Chou-Fasman and Garnier-Osguthorpe- Robson (GOR) method
  - 4.2.2 – Tertiary structure predictions – Homology Modelling
- 4.3 Molecular modelling –RASMOL - Practical

**Unit 5 (13 Hours)**

**Applications of Bioinformatics**

- 5.1 Structural Bioinformatics in Drug Discovery
- 5.2 Quantitative structure-activity relationship (QSAR) – Test for toxicity evaluation
- 5.3 Microbial genome applications, Crop improvement

**BOOK FOR STUDY**

Springer-Verlag, *Basics of Bioinformatics*, Berlin Heidelberg, 2013.

**BOOKS FOR REFERENCE**

- Andreas D Baxevanis, B F Francis Oullette “*Bioinformatics: A practical guide to the analysis of genes and proteins*”. 2<sup>nd</sup> ed. Wiley publishers, 2005.
- Arthur Lesk “*Introduction to Genomics*” 2<sup>nd</sup> ed. Oxford University Press 2007.
- Campbell A. M., Heyer L. J. *Discovering Genomics, Proteomics and Bioinformatics. II Edition*. Benjamin Cummings, 2006.
- David Mount “*Bioinformatics: sequence and genome analysis*” 3<sup>rd</sup> ed. Cold Spring Harbor Laboratory Press, 2004.
- Ghosh Z. and Bibekanand M. *Bioinformatics: Principles and Applications*. Oxford University Press, 2008.
- Jin Xiong “*Essential Bioinformatics*”, 1<sup>st</sup> ed. Cambridge University Press, 2006.
- Ranganathan, Narain & Kuppaswamy *Biotechnology & Bioinformatics*, Wisdom Press, 2011.
- Pevsner, *Bioinformatics and Functional Genomics*, John Wiley publishers, 3<sup>rd</sup> ed., 2015.

**WEBSITES**

- [www.genome.gov/12514286](http://www.genome.gov/12514286)
- [https://www.youtube.com/watch?v=w-uk-\\_TOgR0&list=PLb0W\\_W0k29\\_aHrF8aZzK17ORTesZsd-IING](https://www.youtube.com/watch?v=w-uk-_TOgR0&list=PLb0W_W0k29_aHrF8aZzK17ORTesZsd-IING)
- <https://www.youtube.com/watch?v=SAWeFv8I8ow&list=PL1ay9ko4A8skYqjhrA4INDZ7IHtebS0IY>
- <https://www.youtube.com/watch?v=IQCbnRafCtM>
- <https://www.youtube.com/watch?v=cd6O8FbrVjw>

<https://www.youtube.com/watch?v=ZNIQCrCibL8>  
[www.ncbi.org](http://www.ncbi.org)  
[www.embl.org](http://www.embl.org)

### **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
<b>Section A –</b> Objective questions	9 x 1 = 9 marks	
Very Short Answers	3 x 3 = 9 marks (3 out of 4 in 50 words each)	
<b>Section B –</b> 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)		
<b>Section C –</b> 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Seminars/Quiz/Assignments etc. (any 2)	

<b>End Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
<b>Section A –</b> Objective questions 18 x 1 = 18 marks		
Choose the correct answer	5 x 1 = 5 marks	
Fill in the blanks	5 x 1 = 5 marks	
Match the following	5 x 1 = 5 marks	
True or False	3 x 1 = 3 marks	
Very Short Answers	6 x 3 = 18 marks (6 out of 9 in 50 words each)	

**Section B –** 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)  
**Section C –** 2x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**BIOTECHNIQUES**

**CODE:19BT/ME/BT45**

**CREDITS:5**

**L T P:50 0**

**TOTAL HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of extraction and separation techniques
- To use spectroscopic techniques to understand the structure of phytochemicals
- To determine cell size and morphology using microscopy
- To understand the basic principles of various instrumentation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- extract and separate phytochemicals using separation techniques
- isolate biomolecules using centrifugation and gel electrophoresis
- characterize and analyse the extracted product
- examine and check the purity of a sample
- separate a substance based on its solubility
- estimate the samples by spectrophotometry

**Unit 1 (13 Hours)**

**Microscopy- Principle, Construction and Application of Light Microscopes**

- 1.1 Compound, Stereo, Polarized Light, Phase Contrast, Fluorescence, Differential Interference Contrast, Laser Scanning and Confocal Microscopes
- 1.2 Preparation of Specimen for Light Microscopy: Paraffin Techniques – Fixatives:FAA, Carnoy's, Dehydration and Infiltration, Embedding and Sectioning (Paraffin Blocks), Staining – Single and Double Stain and Mounting
- 1.3 Micrometry
- 1.4 Microtomes: Rotary, Wood Microtome, Cryotomy, Ultramicrotomy
- 1.5 Maceration, Leaf Clearing

**Unit 2 (13 Hours)**

**Electron Microscopy-Principle, Construction and Working**

- 2.1 Preparation of Specimen for Transmission Electron Microscopy (TEM)
  - 2.1.1 Fixatives - Glutaraldehyde and Osmium Tetraoxide
  - 2.1.2 Embedding - Spurr, Epon
  - 2.1.3 Knives - Glass and Diamond
  - 2.1.4 Specimen Support -Grid
  - 2.1.5 Staining - Positive and Negative Staining



## 2.2 Preparation of Specimen for Scanning Electron Microscope (SEM)

2.2.1 Fixing, Critical Point Drying

2.2.2 Freeze Drying, Freeze Fracture, Freeze Etching

2.2.3 Specimen Coating - Sputter Coating, Shadow Casting

### **Unit 3 (13 Hours)**

#### **Quantitative Techniques**

3.1 pH Meter - Construction and Application

3.2 Colorimetry: Beer-Lambert's Law, Single Beam

3.3 Spectrophotometry - UV-Visible Spectroscopy, Basic Principle, Instrumentation, Single and Double Beam Spectrophotometers (Block diagrams only)

3.4 Estimation of Protein using Spectrophotometer (Practical)

### **Unit 4 (13 Hours)**

#### **Separation Techniques**

4.1 Chromatography - Principles, Techniques and Application of Thin Layer Chromatography, Column Chromatography, and High Performance Liquid Chromatography

4.2 Electrophoresis: Principles, Techniques and Applications of Agarose, PAGE

4.3 Separation of Proteins and DNA by Electrophoresis (Practical)

### **Unit 5 (13 Hours)**

#### **Centrifugation**

5.1 Centrifuge: Principle, Unit of Measurement and Instrumentation

5.2 Types: Bench, Ultracentrifuge, Analytical and Microfuge

5.3 Density Gradient and Differential Centrifugation

5.4 Centrifuge-Isolation of Chloroplast and Mitochondria (Practical)

### **BOOKS FOR REFERENCE**

Herb Schwartz and Andras Guttman. *Separation of DNA by Capillary Electrophoresis*, USA  
James P. Landers, *Handbook of Capillary and Microchip Electrophoresis and Associated Microtechniques*, USA: CRC, 2008.

Jensen, W.A. *Botanical Histochemistry*. New Delhi: TataGraw-Hill, 1962.

Karp Gerald, *Cell and Molecular Biology: Concepts and Experiments*. USA: Wiley, 2013.

Landers, James P. *Handbook of Capillary Electrophoresis*. USA: CRC, 1996.

Mendhan, J., *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson 2009.

Sass, J.E. *Botanical Microtechnique*. USA: Ames, 1985.

Skoog, D.A, West, D.M. *Fundamentals of Analytical Chemistry*. Thomson Asia, 2014

Steven E Ruzin. *Plant Microtechnique and Microscopy*. USA: Oxford University, 1999.

Usharani, S. *Analytical Chemistry*. New Delhi: Macmillan, 2006.

### **WEB RESOURCES**

<https://www.britannica.com/science/separation-and-purification>

<http://www.britannica.com/EBchecked/topic/108875/separation-and-purification>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

**Section A –** Objective questions

9 x 1 = 9 marks

Very Short Answers

3 x 3 = 9 marks (3 out of 4 in 50 words each)

**Section B –** 2 x 6 = 12 marks (2 out of 3 questions to be answered in 200 words each)

**Section C –** 1x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words each)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Assignments etc. (any 2)

### **End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A –** Objective questions 18 x 1 = 18 marks

Choose the correct answer

5 x 1 = 5 marks

Fill in the blanks

5 x 1 = 5 marks

Match the following

5 x 1 = 5 marks

True or False

3 x 1 = 3 marks

Very Short Answers

6 x 3 = 18 marks (6 out of 9 in 50 words each)

**Section B –** 4 x 6 = 24 marks (4 out of 6 questions to be answered in 200 words each)

**Section C –** 2x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086.**

**General Elective Course Offered by the department of Botany  
to students of B A. / B.Sc. / B.V.A. / B.Com. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**HERBAL THERAPY**

**CODE:19BT/GE/HT22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL HOURS:26**

**OBJECTIVES OF THE COURSE**

- To create an awareness on the understanding of Indian Systems of Medicine
- To discover the importance of plants
- To identify some local herbal plants and their parts as medicine

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the basic principles of Indian Systems of Medicine
- recognize the importance of herbs as medicinal plants and their usage in common ailments
- prepare some Ayurvedic and Siddha medicines for some common ailments

**Unit 1 (9 Hours)**

**Indian Systems of Medicine**

- 1.1 Introduction: Ayurveda, Siddha and Unani
- 1.2 Basic Principles of Ayurveda: Panchamahabhutas, Tridoshha Concept and Malas
- 1.3 Preparation of Ayurvedic and Siddha Medicine  
Ayurveda: Svarasa (Juice); Churna (Powder); Kalka (Paste); Kashaya (Decoction and Infusion) and Bhasma  
Siddha: Lavanam, Pashanam, Loham, Rasam and Gandhakam

**Unit 2 (8 Hours)**

**Herbs and Therapeutics**

- 2.1 Herbal remedies for some common ailments: Diarrhoea, Ulcer, Cold, Asthma, Fever, Hypertension, Jaundice, Chickenpox, Diabetes, Menstrual Disorders,
- 2.2 General Health Tonics and Salads
- 2.3 Preparations of Ayurvedic Medicines: Churnam, Decoction, Leghyam, Tailam and Skin Cream (Practical)

**Unit 3 (9 Hours)**

**Skin and Hair care**

- 3.1 Role of Dhatu in physical beauty
- 3.2 Herbal Care for Facial Skin - Herbal Face Pack for Dry, Oily and Normal Skin:

- Herbal Remedy for Pimples, Acnes, Black Heads, Corns, Warts and Boils
- 3.3 Herbal Remedy for Dandruff, Premature Greying and Loss of Hair: Hair Washes and Herbal Hair Tonics
- 3.4 Demonstration of Facial and Hair Care

### BOOKS FOR REFERENCE

Dastur, J.F. *Medicinal plants of India and Pakistan*. New Delhi: D.B.Taraporewala, 1988.

Duke, J.A. *Handbook on Medicinal Herbs*. London: CRC, 2002

Dananjay J Deshpande., *Handbook of Medicinal Herbs.*, Jodhpur: Agrobios, 2010.

Hans, R.H. *Ayurveda the Gentle Health System*. New Delhi: Motilal Banarsidass, 1994.

Jaibala,S. and G. Balakrishnan. *A Hand Book of Common Remedies Based on Siddha System of Indian Medicine*. St. Louis Institute, 1994.

Judith H.Morrison. *The Book of Ayurveda, A guide to personal wellbeing*. London:Gaia Books, 1994.

Kapoor, L.D. *Handbook of Ayurvedic Medicinal Plants*. India: CRC, 2001.

Prajapati, N.D. and S.S.Purohit. *Agro's Color Atlas of Medicinal Plants*. Jodhpur: Agrobios, 2006

Reddy, K.J, B.Bahadur, B.Bhadriah and M.L.N.Rao. *Advances in Medicinal Plants*. New Delhi: Universities, 2007

Saha, N.N. *Herbal Remedies*. New Delhi: Universal, 1981.

### PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 1 Hour</b>
<b>Section A –</b> Objective questions	15 x 1 = 15 marks	
Choose the correct answer	5 x 1 = 5 marks	
Match the following	5 x 1 = 5 marks	
True or False	5 x 1 = 5 marks	

**Section B –** 2 x 5 = 10 marks (2 out of 4 questions to be answered in 200 words each)

<b>Other Components:</b>	<b>Total Marks: 25</b>
Individual - 15 marks	
Group work – 10 marks	

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course Offered by the department of Botany  
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**SYLLABUS**

(Effective from the academic year 2019–2020)

**FRUIT PRESERVATION - ONLINE**

**CODE:19BT/GE/FP22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL HOURS:26**

**OBJECTIVES OF THE COURSE**

- To minimize spoilage of fruits and vegetables
- To train students in the preparation and preservation of different fruit products
- To make students to develop a scientific bent of mind

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- gain knowledge on the preservation of fruits and vegetables
- acquire practical skills in the preparation of food products
- understand the causes and types of spoilage
- learn the scientific way of preparing food products

**Unit 1**

**Introduction**

**(4 Hours)**

- 1.1 Principles of Fruit Preservation
- 1.2 Types of Spoilage
- 1.3 Factors Promoting Spoilage

**Unit 2**

**(10 Hours)**

**Methods and Techniques of Fruit Preservation**

- 2.1 Methods: Refrigeration, Freezing, Canning, Dehydration and Chemical Preservatives
- 2.2 Techniques: Proportion of Ingredients, Selection of Fruits, Estimation Tests, Filling and Bottling of Products and Precautions

**Unit 3**

**(12 Hours)**

**Preparation of products preserved in sugar and salt**

- 3.1 Sugar: Lime Syrup, Grape Crush, Orange Squash, Mixed Fruit Jam, Guava Jelly,
- 3.2 Salt: Tomato Chutney and Mixed Vegetable Pickle

**BOOK FOR STUDY**

Roday Sunethra, *Food Science and Nutrition*, 3rd ed, Oxford University Press, 2018.

### **BOOKS FOR REFERENCE**

- Blank, F.C. *Handbook of Food and Nutrition*. Jodhpur: Agrobios, 2000.
- Frazier, W.C. and D. C. West Hoff., *Food Microbiology*. 5th ed. New Delhi: T McGraw Hill, 2013.
- Kulshrestha, S. K. *Food Preservation*. New Delhi: Vikas, 1994.
- Ray Bibek and Bhunia Arun, *Fundamental Food Microbiology*, 5<sup>th</sup> ed, T & F, India, 2018
- Scenetra, R. *Food Science and Nutrition*. Oxford University, 1997.
- Swaminathan, M. *Handbook of Food Science and Experimental Foods*. Bangalore: 1992.

### **PATTERN OF ASSESSMENT**

No End Semester Examination          Total marks: 50

No. of Assignments – 8 (MCQs, Fill ups and One word answers) = 30 marks

Best 6 of 8 assignments to be considered

Video uploading (2 modules) = 20 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086.**

**General Elective Course Offered by the department of Botany  
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**SYLLABUS**

(Effective from the academic year 2019–2020)

**FUNDAMENTALS OF HORTICULTURE**

**CODE:19BT/GE/FH22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to be self-reliant and to develop their entrepreneurial skills
- To enhance practical skills through experiential learning
- To understand the various divisions of Horticulture

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- develop interest towards gardening
- initiate and develop their own nursery
- become an Entrepreneur

**Unit 1**

**Introduction and Plant Propagation**

**(10 Hours)**

- 1.1 Introduction: Divisions of Horticulture
- 1.2 Few famous Gardens in India
- 1.3 Types of Gardens: Indoor, Public and Kitchen Garden
- 1.4 Pot cultures: Selection of Pots, Potting, Repotting and Potting Mixtures  
Demonstration: Potting
- 1.5 Vegetative Propagation: Layering, Cutting, Grafting
- 1.6 Layering, Cutting, Grafting (Demonstration)

**Unit 2**

**Lawn and Landscaping**

**(8 Hours)**

- 2.1 Lawn and Lawn Making
- 2.2 Garden adornments
- 2.3 Principle and components of landscaping

**Unit 3**

**Commercial Floriculture**

**(8 Hours)**

- 3.1 Cut Flowers, Importance and Methods to Prolong Vase Life
- 3.2 Flower Arrangement - Fresh and Dry
- 3.3 Flower Arrangement - Fresh and Dry (Practical)

### BOOK FOR STUDY

Kumar, N. *Introduction to Horticulture*. Nagercoil: Rohini, 1980.

### BOOKS FOR REFERENCE

Acquaah, George. *Horticulture Principles and practices*, (4<sup>th</sup> ed.). London: PHI, 2009.

Chauhan, D.V.S. *Vegetable Production in India*. Agra: Ram Prasad, 1968.

Edmund, J.B., T.L.Senn, F.S.Andrews and R.G.Halfacre, *Fundamentals of Horticulture*, (4<sup>th</sup> ed.). London: Tata McGraw Hill, 1994.

Iyengar, Gopalswamy. K.S. *Complete Gardening in India*. Bangalore: Kalyan, 1970.

Janick, J. *Horticultural Science*, (3<sup>rd</sup> ed.). New Delhi: Surgeet, 1962.

Naik, K.C. *South Indian Fruits and their Culture*. Madras: P.Varadharaj, 1968

Randhawa, G.S. *Ornamental Horticulture in India, Today and Tomorrow*. New Delhi: Indian Council of Agricultural Research, 1980.

Sheela, V. L. *Horticulture*, Chennai: MJP, 2011.

Syamal, M.M. *Commercial Floriculture*. Delhi: 2014.

Saini R.S. *Laboratory Manual of Analytical Techniques in Horticulture*. Jodhpur: Agrobios. 2012.

Yawalkar, K.S. *Vegetable Crops of India*. Nagpur: Agri –Horticultural, 1961.

### PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 1 Hour</b>
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<b>Section A – Objective questions</b>	15 x 1 = 15 marks
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Choose the correct answer	5 x 1 = 5 marks
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Match the following	5 x 1 = 5 marks
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True or False	5 x 1 = 5 marks
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**Section B – 2 x 5 = 10 marks** (2 out of 4 questions to be answered in 200 words each)

<b>Other Components:</b>	<b>Total Marks: 25</b>
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Individual - 15 marks

Group work – 10 marks

### No End Semester Examination



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086.**

**General Elective Course Offered by the department of Botany  
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**SYLLABUS**

(Effective from the academic year 2019–2020)

**WASTE MANAGEMENT**

**CODE:19BT/GE/WM22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To monitor water quality
- To reduce, recycle and reuse wastes
- To protect the environment from pollution

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify and classify different types of waste
- study the management of solid and liquid wastes
- adopt waste minimization and pollution prevention techniques

**Unit 1 (9 Hours)**

**Recycling of Wastes**

- 1.1 Wastes: Solid and Liquid Wastes
- 1.2 Segregation of waste at source
- 1.3 Waste Generation and Sources - Municipal, Kitchen, Garden, Agricultural, Industrial and e-waste
- 1.4 Composting and Vermicomposting

**Unit 2 (9 Hours)**

**Sewage Disposal**

- 2.1 Primary Treatment
- 2.2 Secondary Treatment: Aerobic - Septic Tanks, Trickling Filters and Oxidation Pond; Anaerobic - Sludge Digestion
- 2.3 Tertiary Treatment - Chemical, Ozone and Reverse Osmosis

**Unit 3 (8 Hours)**

**Water Quality and Water Purification**

- 3.1 Tests for Water Purity - Coliform Test
- 3.2 Water Treatment - Steps involved in Water Treatment in typical Water Purification Plant

**BOOK FOR STUDY**

Purohit, S.S. *A Textbook of Environmental Sciences*, Student ed , 2009.

## BOOKS FOR REFERENCE

Gupta, P.K. *Vermicomposting for Sustainable Agriculture*. India: Agrobios. 2004.  
Grace, G. and D. Martin, *The Rodale Book of Composting*. Kindle ed, 2018.  
Ismail, S.A. *The Earthworm*. Goa: Other India, 2005.  
Kumar, H.D. *Environmental Pollution*. M.D, 2004.  
NIIR Board. *Modern Technology of Waste Management*, Asia Pacific, 2004.  
Rachel, M.A. *Analysis of Waste Water for use in Agriculture*, WHO, 1996.  
Sathe, T.V. *Vermiculture and Organic Farming*. Daya, 2004.  
Panda S.C., *Principles and Practices of Water Management*. Agrobios, 2011.  
Patwardhan, A.D., *Industrial Waste Water Treatment*. 12<sup>th</sup> edn, 2017.

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 1 Hour**

<b>Section A –</b> Objective questions	15 x 1 = 15 marks
Choose the correct answer	5 x 1 = 5 marks
Match the following	5 x 1 = 5 marks
True or False	5 x 1 = 5 marks

**Section B –** 2 x 5 = 10 marks (2 out of 4 questions to be answered in 200 words each)

**Other Components:** **Total Marks: 25**

Individual - 15 marks  
Group work – 10 marks

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086.**

**General Elective Course Offered by the department of Botany  
to students of B A. / B.Sc. / B.V.A. / B.Com. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FLORICULTURE**

**CODE:19BT/GE/FR22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL HOURS:26**

**OBJECTIVES OF THE COURSE**

- To introduce the basics of floriculture as an art for business
- To understand the various techniques and methods in flower propagation
- To develop their practical and entrepreneurial skills

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- understand floriculture as an art of business
- enrich their knowledge on different techniques involved in flower arrangement
- develop their own nursery

**Unit 1 (8 Hours)**

**Basics of Floriculture**

- 1.1 Introduction: Aim and scope of Floriculture
- 1.2 Manures, Fertilizers, Biofertilizers, Vermicompost and Growth Regulators
- 1.3 Techniques of Growing Plants – Potting and Repotting (Theory and Practical);  
Types of Pots and Hanging Baskets
- 1.4 Preparation of Herbal Solutions and Application of Sprays and Dusts to check  
Pest attack

**Unit 2 (9 Hours)**

**Vegetative Propagation and Commercial Floriculture I**

- 2.1 Vegetative Propagation Methods: Cutting and Layering (Theory and Practical)
- 2.2 Green House-Control of Temperature, Humidity and Light in Covered Structures
- 2.3 Commercial uses of cut flowers and greens - Rose, Carnation, Gladiolus, Aster,  
Dianthus and Celosia, Ferns, Palms, Cycads and Thuja
- 2.4 Propagation, Harvesting and Marketing of Rose, Carnation, Chrysanthemum  
and Jasmine

**Unit 3 (9 Hours)**

**Commercial Floriculture II**

- 3.1 Flower Arrangement – Fresh and Dry (Theory and Practical)
- 3.2 Preparation of Flowers for Display in Flower Shows, Garland, Hair Pieces,  
Bouquets

### 3.3 Holding of Cut Flowers-Harvesting, Conditioning and Storage of Cut Flowers and Methods to Prolong Vase- Life

#### BOOK FOR STUDY

Sheela, V. L. *Horticulture*, Chennai: MJP, 2011.

#### BOOKS FOR REFERENCE

Bhattacharyya and Purohit. *Organic Farming Biocontrol and Biopesticide Technology*. India: Agrobios, 2012.

Bose. T.R and Yadav, L.P. *Commercial Flowers*. Calcutta: Naya Prakash, 1989.

Bose, T. K. Maiti R.G., Dhua, R.S and Das,F., *Floriculture and Landscaping*, Calcutta: Naya Prakash, 1999.

Gopalswamy Iyengar, K. S., *Complete Gardening in India*. Bangalore Kalyan, 1970.

John Lindley, *Theory of Horticulture*. Facsimile Publisher, 2018.

Kumar,N., *Introduction to Horticulture*. Nagercoil: Rohini, 1980.

Lauria, A. and Ries.V.H., *Floriculture, Fundamentals and Practices*. Jodhpur: Agrobios, 2001.

#### PATTERN OF ASSESSMENT

##### Continuous Assessment Test:

**Total Marks: 25**

**Duration: 1 Hour**

##### Section A – Objective questions

15 x 1 = 15 marks

Choose the correct answer

5 x 1 = 5 marks

Match the following

5 x 1 = 5 marks

True or False

5 x 1 = 5 marks

**Section B – 2 x 5 = 10 marks (2 out of 4 questions to be answered in 200 words each)**

##### Other Components:

**Total Marks: 25**

Individual - 15 marks

Group work – 10 marks

#### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**AGRICULTURE**

**CODE:19BT/UI/AR23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To enable students to learn about the agricultural practices in India
- To understand the economic importance of farm crops
- To familiarize students with the modern methods of farming

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- gain knowledge on fertilizers, weeds and water resources
- identify different types of soils
- acquire a deeper understanding of farm crops
- learn a variety of methods for pest control
- understand the local cropping patterns
- become familiar with the water resources of Tamil Nadu

**Unit 1**

**Modern Trends in Agriculture**

- 1.1 Precision Agriculture
- 1.2 Vertical Farming Techniques-Hydroponics and Aeroponics
- 1.3 Hybrid Seed Technology

**Unit 2**

**Fertilizers and its Uses**

- 2.1 Organic Fertilizers - Farm Yard Manure and Biofertilizers
- 2.2 Inorganic Fertilizers – Nitrogenous, Phosphatic, Potassic
- 2.3 Residual Effects of Fertilizers

**Unit 3**

**Weed and Pest Control**

- 3.1 Weed Control: Mechanical, Biological and Chemical
- 3.2 Integrated Pest Management
- 3.3 Transgenic Plants for Crop Improvement: Herbicide Resistance, Insect Resistance, Resistance against Viral, Bacterial and Fungal Pathogens

**Unit 4**

**Water Resources and Cropping Patterns**

- 4.1 Water resources of Tamil Nadu (Rivers, Dams and Monsoons)
- 4.2 Cropping patterns of Tamil Nadu: Multiple cropping, Relay cropping, Intercropping, Mixed cropping and Multi-Tier cropping
- 4.3 Classification of Soils in India

## Unit 5

### Farm Crops: Economic Importance

- 5.1 Cereals: Rice and Wheat
- 5.2 Pulses: Blackgram and Pigeon Pea
- 5.3 Oil Seeds: Groundnut and Sunflower Seed
- 5.4 Sugar crops: Sugar Cane
- 5.5 Vegetables: Potato and Onion
- 5.6 Spices: Pepper
- 5.7 Fibres: Cotton and Jute
- 5.8 Fruits: Mango and Citrus Fruits

### BOOK FOR STUDY

Subbiah Mudaliar, V.T. - *Principles of Agronomy*. Bangalore: 1979.

### BOOKS FOR REFERENCE

Bhattacharyya, P and Purohit, S.S. *Organic Farming Biocontrol and Biopesticide technology*. India: Agrobios, 2012.

Edmond, J.B; Senn, T.L., Andrews, F.S. and Halfacre, R.G. - *Fundamentals of Horticulture*. New Delhi: Tata McGraw Hill, 1977.

Gosh Roy, M.K. *Green World Green Energy* New Delhi, 2013.

Ochse, J.J. Soule, M.J.; Dijkman, M.J. and Welburg C. - *Tropical and Subtropical Agriculture*, Vol. II. New York: Macmillan, 1961.

Purohit, S.S. and S.K. Mathur. *Biotechnology- Fundamentals and Applications* (3<sup>rd</sup> ed.) Jodhpur: Agrobios, 2000.

Shrivastava A.K. *Agriculture Science and Technology*, Agrotech., 2013.

Sushil Kumar. *Plant Breeding and Genetics*. Book Enclave, 2016

Wrigley Gordon, *Tropical Agriculture – The Development and Production*. ELBS, 1998.

### PATTERN OF ASSESSMENT

**End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A** – 10 X 3 = 30 marks (10 out of 13 questions to be answered in 50 words each)

**Section B** – 5 x 6 = 30 marks (5 out of 8 questions to be answered in 200 words each)

**Section C** – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086.**

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FORESTRY**

**CODE:19BT/UI/FR23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To understand the value of wealth of forests of India
- To develop an understanding of biodiversity, conservation and agroforestry
- To realize the role of people in conserving forests

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- gain knowledge on the different types of forests and their distribution
- understand the concepts of protection, commercial and social forestry
- become familiar with national sanctuaries, parks and biospheres
- discover the variety of non-wood forest products
- determine the causes and consequences of deforestation
- appreciate peoples power in conservation of forests

**Unit 1**

**Forest Types**

- 1.1 Major Forest types in India with special reference to Tamil Nadu
- 1.2 Forest Ecosystem
- 1.3 Forests as Centers of Biodiversity
- 1.4 Biodiversity Hotspots

**Unit 2**

**Protection Forestry**

- 2.1 Conservation- *in-situ* and *ex-situ*
- 2.2 National Forest Policy, Forest Conservation Act
- 2.3 National Sanctuaries, National Parks and Biosphere Reserves
- 2.4 Role of People: Chipko Movement, Saalumarada Thimmakka and Hugo Wood

**Unit 3**

**Commercial Forestry**

- 3.1 Forests as Sources of Timber
- 3.2 Nonwood Forest Products: fodder, food, oil, fiber, paper and medicine

**Unit 4**

**Social Forestry**

- 4.1 Agroforestry- Afforestation and Reforestation Programmes
- 4.2 Ecological Benefits

- 4.3 Deforestation: Causes and Consequences
- 4.4 Plantation Forestry

## **Unit 5**

### **Silviculture**

- 5.1 Artificial and Natural Regeneration of some important Forest Plants: Teak and Casuarina
- 5.2 Forest Education and Management

### **BOOKS FOR REFERENCE:**

Bruce Alan. *Forest products biotechnology*. Taylor & Francois. 2005.  
Bridger Blackeney., *Handbook of Forestry*. Agrotech., 2013.  
Kumar, U and Asija M.J. *Biodiversity Principles and Conservation*., India: Agrobios, 2011.  
Manikandan K, Prabhu S, *Indian Forestry A Breakthrough Approach To Forest Services*, Jain Brothers, 2018  
Pathak, P.S, Ram Newaj. *Agroforestry: Potentials and Opportunities*. India Agrobios, 2012.  
Powell, Baden B.H. *Manual of Forest Law*. New Delhi: Biotech, 2004.  
Uthappa AR, Sangram Bhanudas Chavan, *Competitive Forestry*, New Vishal Publications, 1st ed. 2015  
Vyas, G. P. D. *Community Forestry*. Jodhpur: Agrobios, 2006.

### **PATTERN OF ASSESSMENT**

**End Semester Examination:**  
**hours**

**Total Marks: 100**

**Duration: 3**

**Section A** – 10 X 3 = 30 marks (10 out of 13 questions to be answered in 50 words each)

**Section B** – 5x 6 = 30 marks (5 out of 8 questions to be answered in 200 words each)

**Section C** – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)



## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF COMPUTER SCIENCE**

**PROGRAMME DESCRIPTION**

The Bachelor of Computer Applications offers knowledge on the underlying concepts of computer technology, use of different programming languages as a tool for solving problems in different domains and the technology trends. This degree not only helps the students to pursue career in IT industry or master's programme in the discipline but also opens up their avenues in different domains of their interest as Computer technology plays a vital role in almost all disciplines.

This programme is structured to face the unique challenge of laying down a strong foundation of basics and fundamentals and keeping up with the rapid changes and advancements of computer technology. The programme introduces to the student various programming tools and techniques and the design and development of solutions and enables them to apply the knowledge appropriately to solve different problems. Students are given an understanding on mathematical concepts and entrepreneurship. This programme not only emphasises gaining knowledge in computer technology but also focusses on value education and ethics. It seeks to motivate the students to share their knowledge with the underprivileged and the oppressed.

Students completing Bachelor of Computer Applications will be equipped in computer technology ready to learn and innovate and skilled in choosing their career or higher studies clubbed with responsibility and righteousness.

## **PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of this programme, it is expected that students will be able to

- Describe and define concepts in Computer Science and its related areas
- Interpret concepts in the discipline and apply them to new areas
- Understand and analyse problems in different domains and develop solutions or strategies to solve those problems
- Apply standard Software Engineering practices and strategies in software project development using appropriate programming language to deliver a quality product for business/research needs
- Demonstrate cognitive and creative skills to exercise critical thinking and judgement in identifying and solving problems with intellectual independence
- Understand issues and emerging trends in technological development
- Perform professionally with social, cultural and ethical responsibility as an individual as well as in teams with positive attitude
- Communicate effectively in both oral and written individually and in team
- Demonstrate the ability and the attitude to continuously improve and innovate
- Cultivate skills for successful career, entrepreneurship and higher studies
- Show responsibility towards local and global issues and perceive themselves as agents of change
- Show self-awareness and emotional intelligence
- Share their knowledge and capabilities with the marginalised and oppressed
- Show their readiness to stand up for social justice and work for social change

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.C.A. DEGREE:COMPUTER APPLICATIONS**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19CS/MC/FC13	Fundamentals of Computing	3	2	1	2	3	50	50	100
19CS/MC/DL13	Digital Logic Fundamentals	3	3	1	0	3	50	50	100
19CS/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
<b>SEMESTER-II</b>									
19CS/MC/PO24	Procedure Oriented Programming	4	2	0	4	3	50	50	100
19CS/MC/AD23	Algorithms and Data Structures	3	3	1	0	3	50	50	100
19CS/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
19CS/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
<b>SEMESTER-III</b>									
19CS/MC/WD33	Creative Web Designing	3	3	1	0	3	50	50	100
19CS/MC/OP33	Essentials of Object Oriented Programming	3	3	1	0	3	50	50	100
19CS/MC/TE35	Software Engineering and Testing	5	4	0	2	3	50	50	100
19CS/MC/P132	Creative Web Designing Practical	2	0	0	3	3	50	50	100
19CS/MC/P232	Object Oriented Programming Practical	2	0	0	4	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
<b>SEMESTER-IV</b>									
19CS/MC/OS45	Operating Systems	5	5	0	0	3	50	50	100
19CS/MC/FD45	Fundamentals of Database Management Systems	5	5	0	0	3	50	50	100
19CS/MC/P342	Operating System Concepts Implementation	2	0	0	4	3	50	50	100
19CS/MC/P442	Database Management Systems Practical	2	0	0	4	3	50	50	100
	Major Elective I								
<b>SEMESTER-V</b>									
19CS/MC/CN55	Computer Networks	5	5	0	0	3	50	50	100
19CS/MC/DS54	Data Science	4	4	1	0	3	50	50	100
19CS/MC/FW54	Functional Web Development	4	3	0	2	3	50	50	100
19CS/MC/P552	Data Science Practical	2	0	0	3	3	50	50	100
19CS/MC/CA51	Critical Analysis on an Advanced Technology	1	0	0	2	-	50	50	100
<b>Inter Disciplinary Core Courses (CS and PY) to students of Computer Science</b>									
19ID/IC/HC55	Human Computer Interaction	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.C.A. DEGREE:COMPUTER APPLICATIONS**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-VI</b>									
19CS/MC/SC65	Security Concepts	5	5	0	0	3	50	50	100
19CS/MC/CC65	Cloud Computing	5	5	1	0	3	50	50	100
19CS/MC/PR64	Project	4	0	0	8	-	50	50	100
19VE/SS/HL63	Life Skills:An Appraoch to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19CS/ME/AJ45	Advanced Java Programming	5	3	0	3	1.5	50	50	100
19CS/ME/VP45	Visual Programming	5	3	0	3	1.5	50	50	100
19CS/ME/GP45	Game Programming	5	3	0	3	-	50	50	100
19CS/ME/IS45	Intelligent Systems	5	5	1	0	3	50	50	100
19CS/ME/IT45	Internet of Things	5	5	1	0	3	50	50	100
19CS/ME/AD45	Algorithm Design Techniques	5	5	1	0	3	50	50	100
19CS/ME/MA45	Mobile App Development for Android	5	3	0	3	1.5	50	50	100
<b>General Elective Courses</b>									
19CS/GE/CF22	Computer Fundamentals	2	2	0	0	-	50	-	100
19CS/GE/IA22	Image Editing and Animation	2	1	0	1	-	50	-	100
19CS/GE/CS22	Cyber Security	2	2	0	0	-	50	-	100
19CS/GE/DP22	Documentation and Presentation	2	1	0	1	-	50	-	100
19CS/GE/DA22	Introduction to Data Analysis	2	1	0	1	-	50	-	100
<b>Independent Elective Courses</b>									
19CS/UI/CG23	Computer Graphics	3	0	0	0	3	-	100	100
19CS/UI/CV23	Computer Vision	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FUNDAMENTALS OF COMPUTING**

**CODE:19CS/MC/FC13**

**CREDITS:3**

**L T P:2 1 2**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand how to solve problems
- To understand the concepts of logging-in, files and directories, file paths, file/directory permissions
- To understand the difference between executables and data files
- To use simple GUI based applications and text editor
- To enable the students to write simple C programs, debug the program
- To understand the process involved in execution of the program
- Ability to understand modular program development

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply problem solving strategies
- Work in UNIX/LINUX environment as a user
- Develop, Debug, Compile and Execute a simple C program
- Represent a problem pictorially using flowcharts and to build programs using branching, looping and arrays
- Write modular programs

**Unit 1**

**(10 Hours)**

**1.1 Strategies for Problem Solving**

What is Problem Solving? - Problem: How to Cross the River? – Problem: The Sliding Eight - General Problem-Solving Techniques

**1.2 Introduction to Unix/Linux**

What is Unix/Linux? – Various Distributions – User Types (Root, User) – File System Structure

**1.3 Files and directories, Editing text**

Login - Files and Directories - File Paths\* - File/Directory Permissions –chmod command - Directory Navigation -cd, pwd, ls commands - Creating and Manipulating Files and Directories using a Terminal -mkdir, cp, mv, rm commands - Binary and Data Files -file command- Basic Commands - cat, grep, more command - man pages - GUI based File Explorer – Difference between CLI and GUI - Command Window Based Text Editor - Creating/Opening/Closing a file - Making Changes and Saving - Copy/Cut and Paste operation - Find and Replace operation - Undo and Redo operation - File Navigation - Using a GUI Application - GUI based Text Editor

**Unit 2 (15 Hours)**

**2.1 Basic elements of C Programming**

Basic Structure of a C program - #include, main function, blocks, statements – Compilation- Machine Language & High Level Language, Compiler, Executable Variables - Integer Data Types - int, short, long - Unsigned Counterparts - Supported Range - sizeof operator - printf - Special Characters - new line, horizontal tab - scanf - Arithmetic Expression - Arithmetic Operators - Operator Precedence - Overflow and Underflow - Floating Point Data Types -float, double - Precision - Compound Assignment Operators - Increment and Decrement operators - Boolean Expression - Relational Operators - Logical Operators – Character Data Type - char – getchar – putchar - literals - C Tokens - Variable Naming Rules - Single and Multi-line Comments - Type Conversions - Bitwise Operators

**Unit 3 (9 Hours)**

**3.1 Debugging**

What is gdb? - Adding Debugging Symbols to the Executable - Breakpoints - Starting Debugging Session - next command - Viewing Source - Inspecting Variables and its Type - continue command- Ending session - gdb command abbreviations.

**Unit 4 (15 Hours)**

**4.1 Branching and Looping, Arrays, Flowcharting**

Statements and Blocks - If – Else - Else If - Switch -case, break, default – Loops – For, Infinite Loop, While – Do-while - Break and Continue - Conditional Expressions - Goto and Labels - Array – Single and Two Dimensional Arrays - Flow Charts – Symbols - Start/Stop - Process - Decision Making - Input/Output - Connector)

**Unit 5 (16 Hours)**

**5.1 Functions**

Function Prototype - Function Definition - Function call - Passing Arguments - Returning Values - Passing Arrays - Call Stack - Gdb commands - Backtrace - Frame - Step - Difference between Next and Step – Finish - Recursion - Variable scope - Automatic Variables, External Variables, Static Variables - Constants - Const Keyword, Symbolic Constants - Enums - Built-in Functions - math.h: sqrt, pow, stdlib.h: rand, exit, abs

**BOOKS FOR STUDY**

Kernighan, Brian, and Dennis M. Ritchie. *The C programming language*. Prentice hall, 2017. (Units 2,4,5)

Sobell, Mark G., and Matthew Helmke. *A practical guide to Linux commands, editors, and shell programming*. 4 ed., Prentice Hall Professional Technical Reference, 2018. (Unit 1.2 – 1.3)

V. Anton Spraul. *Think like a programmer: An introduction to creative problem solving*. No Starch Press, 2012. (Unit 1.1)

**BOOK FOR REFERENCE**

Balagurusamy, E. *programming in ANSI C*. 7 ed., Tata McGraw-Hill Education, 2017



## WEB RESOURCES

GNU GDB - <https://www.gnu.org/software/gdb/documentation/>

Using GNU's GDB Debugger By Peter Jay Salzman - <http://www.dirac.org/linux/gdb/>  
(Unit 3)

<https://www.tutorialspoint.com/cprogramming/>

<https://www.javatpoint.com/c-programming-language-tutorial>

<https://www.programiz.com/c-programming>

## PATTERN OF ASSESSMENT:

**Continuous Assessment Test:      Total Marks: 50 (Theory-25, Practical -25)**

**Duration: 90 minutes**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $3 \times 5 = 15$  marks (3 out of 4)

**Other Components:      Total Marks:50**

Quiz/Open book tests/Case study/Assignments/Debugging/Coding

**End-Semester Examination:      Total Marks:100**

**Duration:3 hours**

**Theory - 50 marks**

**Duration – 1 ½ hours**

**Practical - 50 marks**

**Duration – 1 ½ hours**

Section A- $10 \times 1 = 10$  (Answer all the Questions)

(5 Multiple choice questions and 5 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  (Answer all the Questions)

(Atleast 1 question from each unit)

Section C -  $6 \times 5 = 30$  (6 out of 8)

(Atleast 1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS) – CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DIGITAL LOGIC FUNDAMENTALS**

**CODE:19CS/MC/DL13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To learn about the number representation and its conversion
- To understand the basic logic gates and its simplification
- To analyse logical operations using combinational logic circuits.
- To understand concepts of sequential logic and to learn about basic flip-flops and registers.
- To learn about the characteristics of memory and their classification

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Know different number systems and its conversion
- Recognise and use the concepts of different logic gates and simplify them
- Analyse and Design combinational and sequential logic circuits.
- Design Programmable Logic Devices
- Recognise the applications of registers and counters

**Unit 1 (12 Hours)**

**1.1 Digital System and Binary Numbers**

Digital Computer and Digital System – Number Systems -Decimal Numbers , Binary Numbers : Counting in Binary, The Weighted Structure of Binary Numbers, Octal Numbers, Hexadecimal Numbers and their Mutual Conversions - Compliments - 1's and 2's Complement, Signed Numbers, Arithmetic Operations: Addition, Subtraction with Signed Numbers, 9's and 10's Complement, BCD Numbers, BCD Addition, BCD Subtraction, Gray Code: Binary to Gray Code Conversion, Gray to Binary Conversion, Weighted Code : 8421 Code and Non Weighted Codes : ASCII and EBCDIC – Binary Storage and Registers – Binary Logic

**Unit 2 (12 Hours)**

**2.1 Binary Logic and Logic Gates**

Boolean Algebra – Basic definitions – Axiomatic Definition of Boolean Algebra – Basic Theorem and Properties of Boolean Algebra - Boolean Functions – Canonical and Standard Forms – Digital Logic Gates

**2.2 Gate-Level Minimization**

The Map Method – Four-variable K-Map – Product - of- Sums simplification – Don't –Care Conditions – NAND and NOR Implementation – Exclusive-OR Function

**Unit 3 (10 Hours)**

**3.1 Combinational Logic**

Introduction – Combinational Circuits – Binary Adder-Subtractor – Decimal Adder – Binary Multiplier – Decoders – Encoders – Multiplexers

**Unit 4 (10 Hours)**

**4.1 Synchronous Sequential Logic**

Introduction – Sequential circuits – Storage Elements: Latches, Flip-flops - RS, JK, D Flip flops, Master slave JK flip-flop

**4.2 Registers and Counters**

Registers – Shift Registers – Ripple counters – Synchronous Counters – Other Counters

**Unit 5 (8 Hours)**

**5.1 Memory and Programmable Logic**

RAM and ROM – Memory Decoding – Error Detection and Correction – Programmable Logic Array – Programmable Array Logic – Sequential Programmable Devices.

**5.2 Inside the Computer**

The Von Neumann Architecture – CPU Subunits and Data Path – CPU and Main Memory – Stored Program Computer – Role of Input/output Devices – Machine vs Assembly Languages.

**BOOKS FOR STUDY**

David Reed. *A Balanced Introduction to Computer Science*, 3<sup>rd</sup> ed. Prentice Hall, 2010. [Unit 5.2: Chapter 14]

Mano, M. Morris, Micheal D. Ciletti, *Digital Design with an Introduction to Verilog HDL*, 6<sup>th</sup> ed. Pearson, 2018. [Unit 2: Chapters 2 &3, Unit 3: Chapter 4, Unit 4.2: Chapter 6, Unit 5.1: Chapter 7]

Mano, M. Morris. *Digital logic and computer design*. Pearson Education India, 2017. [Unit 1:Chapter 1, Unit 4.1: Chapter 6]

**BOOKS FOR REFERENCE**

Charles H. Roth Jr., Larry L. Kinney, *Fundamentals of Logic Design*, Sixth Edition, Cengage Learning.

Morris Mano, Charles K. Kime, Tom Martin, *Logic and computer design fundamental*, 5<sup>th</sup> Edition, Pearson.

**WEB RESOURCES**

[https://www.researchgate.net/publication/267334709\\_Fundamentals\\_of\\_Digital\\_Systems/download](https://www.researchgate.net/publication/267334709_Fundamentals_of_Digital_Systems/download)

<http://info.iet.unipi.it/~luigi/biomedica/sito/cosc205.pdf>

[https://web2.aabu.edu.jo/tool/course\\_file/lec\\_notes/901220\\_logic%20notes.pdf](https://web2.aabu.edu.jo/tool/course_file/lec_notes/901220_logic%20notes.pdf)

**PATTERN OF ASSESSMENT:****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**Section A -  $10 \times 1 = 10$  marks (Answer all the questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)Section C -  $4 \times 5 = 20$  marks (4 out of 5)Section D -  $1 \times 10 = 10$  marks (1 out of 2)**Other Components:****Total Marks: 50**

Quiz/Assignment/Seminar/Problem solving

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A -  $20 \times 1 = 20$  marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)Section C -  $8 \times 5 = 40$  marks (8 out of 10)Section D -  $3 \times 10 = 30$  marks (3 out of 5)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19CS/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1**

**(13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PROCEDURE ORIENTED PROGRAMMING**

**CODE:19CS/MC/PO24**

**CREDITS:4**

**L T P:2 0 4**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To understand and implement Pointers, Strings, Dynamic memory allocation
- To understand and compare Structures and Unions
- To appreciate the role of build tool while developing large programs
- To understand Pre-processing, Command Line arguments and Error Handling
- To understand File I/O

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Develop programs using pointers and strings
- Create applications using dynamic memory allocation
- Apply the concept of structures and unions relevantly
- Build large applications using make utility
- Use preprocessing appropriately
- Handle data using files

**Unit 1 (20 Hours)**

**1.1 Pointers**

Pointers variable – Address of and Dereferencing operators – Declaring a pointer – Initializing a pointer - Pointers and Function Arguments – Dynamic memory allocation – malloc, calloc, realloc and free - Pointers and Arrays - Address Arithmetic - Character Pointers and Functions - Pointer Arrays - Pointers to Pointers - Multi-dimensional Arrays - Initialization of Pointer Arrays - Pointers vs. Multi-dimensional Arrays - Pointers to Functions

**1.2 String Concepts**

String representation – Initialization - Length – Compare – Copy – Concatenate – Substring - Search – Replace – Conversion to int and vice versa

**1.3 String built-in functions**

strlen, strcmp, strcpy, strcat, strchr, strstr, strrev, atoi, itoa

**Unit 2 (19 Hours)**

**2.1 Structures and Unions**

Defining a Structure - Declaring a structure variable - Member operator - Structures and Functions - Arrays of Structures - Pointers to Structures - Nested Structures - Arrow operator - Self-referential Structures - Typedef - Unions - Bit-fields



**Unit 3 (12 Hours)**

**3.1 Designing a Large Program**

Issues in developing a large program - Module & its Components (Header files, Object files & The process of linking) - Make utility – MakeFile structure (Rules, Targets, Prerequisites, Commands) – Variables - Dependency Checking –Minimizing Rebuilds - Invoking Make – Basic Make syntax  
Storage classes – extern keyword in multiple files

**Unit 4 (17 Hours)**

**4.1 File I/O**

File Descriptors - Opening a file - Creating a file - Closing - Unlinking - Reading - Writing - File Access (Sequential, Random) - Error Handling

**4.2 Command Line Arguments**

**Unit 5 (10 Hours)**

**5.1 Pre-processing**

File Inclusion, Macro Substitution, Conditional Compilation, Macros – Simple, Nested, Argumented

**OPTIONAL SELF STUDY**

The following source code will help enhance C skills of the students. Hence it is recommended.

- Source code walkthrough and demo - Listing Directories Example

**BOOKS FOR STUDY**

Kernighan, Brian, and Dennis M. Ritchie. *The C programming language*. Prentice hall, 2012.  
Mecklenburg, Robert. *Managing Projects with GNU Make: The Power of GNU Make for Building Anything*. " O'Reilly Media, Inc.", 2004.

**BOOKS FOR REFERENCE**

Balagurusamy, E. *programming in ANSI C*. 7 ed., Tata McGraw-Hill Education, 2017  
Stallman, Richard M., and Roland McGrath, Paul D. Smith "GNU Make-A Program for Directing Recompilation." Version 4.2, May 2016

**WEB RESOURCES**

<https://www.gnu.org/software/make/manual/make.html>  
[https://www.gnu.org/software/make/manual/html\\_node/Simple-Makefile.html](https://www.gnu.org/software/make/manual/html_node/Simple-Makefile.html)  
[https://www.cs.swarthmore.edu/~newhall/unixhelp/howto\\_makefiles.html](https://www.cs.swarthmore.edu/~newhall/unixhelp/howto_makefiles.html)  
<https://www.programiz.com/c-programming>

**PRACTICAL EXERCISES**

Implementing sorting and searching algorithms  
Implement Programs to manipulate pointers like pointers and functions, pointers and arrays, pointers and strings  
Programs Implementing structures, nested structures, manipulating structures with pointers and dynamic allocation and unions  
Implementing stack, queue, linked list data structures  
Program to create a file, perform copying, merge and search operations using command line arguments  
Programs using pre-processing

**PATTERN OF ASSESSMENT:****Continuous Assessment Test:****Total Marks: 50 (Theory-25, Practical -25)****Duration: 90 minutes**Section A -  $10 \times 1 = 10$  marks (Answer all the questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $3 \times 5 = 15$  marks (3 out of 4)**Other Components:****Total Marks:50****Component 1:**

Quiz/Open book tests/Case study/Assignments/Debugging/Coding

**Component 2:**

Mini Project as a team

\* Each student creates a module and it is finally built using Make

**End-Semester Examination:****Total Marks:100****Duration:3 hours****Theory - 50 marks****Duration – 1 ½ hours****Practical - 50 marks****Duration – 1 ½ hours**Section A- $10 \times 1 = 10$  (Answer all the Questions)

(5 Multiple choice questions and 5 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  (Answer all the Questions)

(Atleast 1 question from each unit)

Section C -  $6 \times 5 = 30$  (6 out of 8)

(Atleast 1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ALGORITHMS AND DATA STRUCTURES**

**CODE:19CS/MC/AD23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To understand Searching and Sorting Algorithms
- To develop the ability to analyse the effectiveness of algorithms using Asymptotic notations
- To understand List ADT and its operations using Array and Linked list
- To understand Stack and Queue ADT
- To understand Tree and Heap data structures
- To understand Graph data structure, Hash tables and Hash functions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Trace searching and sorting algorithms
- Compute effectiveness of an algorithm
- Identify the operations possible on List ADT
- Identify processes that use Stack and Queue ADT
- Identify appropriate data structures for real time applications

**Unit 1**

**(10 Hours)**

**1.1 Introduction to Algorithms and Data Structures**

Pseudo code - Algorithm - Characteristics (Finite steps, Unambiguous, Input, Output)  
- Algorithm Notations - Efficiency of Algorithm- Role of Technology in Efficiency – Best, Average, Worse case – Asymptotic notations - Abstract Data Type –Examples - Data Structure- Examples - Difference between ADT and Data Structures

**1.2 Search Algorithms**

Linear - Binary

**1.3 Sorting Algorithms**

Bubble Sort - Insertion Sort

**Unit 2 (11 Hours)**

**2.1 List**

ADT specification - Operations – Traversing, Searching, Insert, Delete – Implementation - Array, Memory Allocation, Linked List (Singly, Doubly, Circular, Header) – Implementing a Lexicon using Linked List

**Unit 3 (11 Hours)**

**3.1 Stack**

ADT specification - Operations – Push, Pop – Implementation (Array, Linked List) - Applications -Infix to Postfix conversion, Postfix Evaluation, Recursion – QuickSort, Merge Sort

**3.2 Queue**

ADT specification - Operations- Enqueue, Dequeue – Implementation (Array, Linked List)

**Unit 4 (10 Hours)**

**4.1 Tree**

Definition and Terms - Binary Tree - Representation, Traversal, Searching - Binary Search Tree - Searching, Deleting and Inserting – Linked List Implementation of BST- Implementing a Lexicon using BST – Heap – Priority Queue ADT - Heap Property and Shape Property – Types of Heap(MinHeap, MaxHeap) – Build a heap – Operations(Insert, Delete) - Heap sort

**Unit 5 (10 Hours)**

**5.1 Graph**

Definition and Concepts - Representation of Graphs - Graph Traversals (Breadth First Search and Traversal, Depth First Search and Traversal) – Shortest Path algorithm (Dijkstra's algorithm)

**5.2 Hashing**

Hash Table – Hash function - Properties of hash function – Collision – Collision Resolution (Open Addressing, Closed Addressing) - Implementing a Lexicon using Hash Table

**5.3 Identifying data structures for real time applications**

**BOOKS FOR STUDY**

Lipschutz Seymour. *Schaum Series Data structures*. New Delhi: Tata McGraw Hill, 2013.

Niema Moshiri, Liz Izhikevich. *Design and Analysis of Data Structures* (Hashing, Heap, Implementing a Lexicon)

Shaffer, Clifford A. "Data Structures and Algorithm Analysis." *Update* 3 (2012): 0-3. (Best, Worst, Average case, Asymptotic notations)

**BOOKS FOR REFERENCE**

Alfred V. Aho , Hopcroft, Jeffrey D. Ullman. *Data Structures and Algorithms*. Bell Laboratories

Goodrich, Michael T., Roberto Tamassia, and Michael H. Goldwasser. Data structures and algorithms in Java. John Wiley & Sons, 2014.

Horowitz, Ellis, Sartaj Sahni, and Susan Anderson-Freed. Fundamentals of data structures

Weiss, M.A. *Data Structures and Algorithm Analysis in C*. 2nd ed. Pearson Education, 2002.

## WEB RESOURCES

<http://www.cs.armstrong.edu/liang/animation/animation.html>

<https://www.geeksforgeeks.org/linked-list-set-1-introduction/>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)  
(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $4 \times 5 = 20$  marks (4 out of 5)

Section D -  $1 \times 10 = 10$  marks (1 out of 2)

**Other Components:** **Total Marks:50**

Seminars/Quiz/Open book tests/Group discussion/Assignments/Problem solving/

Role plays/Tracing algorithms/Identifying appropriate data structures for different processes

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)  
(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)  
(1 question from each unit)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)  
(2 questions from each unit)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)  
(1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19CS/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19CS/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.



## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CREATIVE WEB DESIGNING**

**CODE:19CS/MC/WD33**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To pursue practical skills in image editing and animation using GIMP
- To impart creativity through logo design and 2D animation in GIMP
- To understand the principles of effective web page designing and learn the same with HTML5 and CSS
- To create interactive web pages using JavaScript
- To learn how to design webpages for multiple devices

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Edit images using GIMP
- Design their own textures, logos and also to create animations using GIMP
- Design and structure a web page with different elements using HTML5 and CSS
- Create web sites with dynamic content using JavaScript
- Understand the importance of having web pages designed for different devices and to do the same

**Unit 1 (10 Hours)**

**1.1 Photo Editing**

GIMP Basics – Image Handling Basics – Working with Images - Photograph Retouching – Global Transformations – Local Transformations – Painting and Drawing - Dodging, Burning and Smudging – Selections, Overlaying and Blending Modes – Digital Collage

**Unit 2 (12 Hours)**

**2.1 Textures, Logos and 2D Animation**

Creating Textures - Logos - Animation – Building an Animated GIF by Hand – Using Animation Tools – Using GAP

**2.2 Designing a Website**

Laying Out a Website – Fixed and Variable Width Designs – Web Design Tools – Optimizing Images for the Web

**Unit 3 (10 Hours)**

**3.1 HTML5**

Design Principles - HTML rules - Structure of HTML documents - Limitations of HTML – Introduction to HTML5 - Semantic/ Structural Elements - article, aside, bdi, details, dialog, fig caption, figure, footer, header, main, mark, menu item, meter, nav, section, summary, time, wbr - Handling Forms - Media Elements - audio, source, embed, video

**3.2 CSS**

Introducing CSS – Types of CSS – External, Embedded and Inline - Color - Text Boxes – List – Tables – Forms -Images – Page Layout

**Unit 4 (10 Hours)**

**4.1 Basics of JavaScript**

JavaScript and HTML Text - Variables, Operators, Functions, Arrays, Expressions and Control Flow - Literal and variables - The with statement - Using on error, try, catch – Conditionals – Looping - Event Handling – DOM - Form validation using DOM Constraints - Accessing CSS from JavaScript – JQuery

**Unit 5 (10 Hours)**

**5.1 Responsive Web Design**

Introduction to Responsive Web Design – Aspect Ratio - Media Queries – Fluid Layouts – Typography

Workshop on Look and Feel, Visualization

**BOOKS FOR STUDY**

Ben Frain, *Responsive Web Design with HTML5 and CSS3*, Packet Publishing, 2012 (Unit 3 & Unit 5).

Olivier Lecarme, Karine Delvare, *The Book of GIMP: A Complete Guide to Nearly Everything*, No Starch Press, 2013 (Unit 1 & Unit 2).

Robin Nixon, *Learning PHP, MySQL, JavaScript, CSS and HTML5*. 3rd ed. USA: O'Reilly, 2014 (Unit 4).

**BOOKS FOR REFERENCE**

Jason van Gumster Robert Shimonski, *GIMP Bible*, Wiley Publishing, 2010.

Karin Kylander & Olof S Kylander *The Complete Guide to Gimp*.

**WEB RESOURCES**

<https://docs.gimp.org/2.10/en/>

<https://www.w3schools.com/js/>

<http://prosetech.com/html5/>

<https://www.html-5-tutorial.com/>

<https://developer.mozilla.org/bm/docs/Web/JavaScript>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $4 \times 5 = 20$  marks (4 out of 5)

Section D -  $1 \times 10 = 10$  marks (1 out of 2)

### **Other Components:**

**Total Marks:50**

Quiz/Assignments/Case study

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

(1 question from each unit)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)

(2 questions from each unit)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)

(1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS) – CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ESSENTIALS OF OBJECT ORIENTED PROGRAMMING**

**CODE:19CS/MC/OP33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To learn the basic concepts of object oriented programming and classes with constructors
- To understand and demonstrate the concepts of inheritance and interfaces
- To provide an understanding of concepts such as packages, exception handling
- To introduce the concepts of multithreading and generics
- To give insight about java library

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the concepts of object-oriented programming
- Use Java programming language at a basic level and construct simple software applications
- Understand classes, objects and implementing inheritance
- Analyze and understand the functionality of Inheritance, Interface and develop simple applications
- To develop software applications and services using Java code

**Unit 1 (14 Hours)**

**1.1 Introduction**

The History and Evolution of Java – Features of Java –Bytecode - Data Types – Variables –Arrays - Operators - Control Statements - Scanner - Javadoc

**1.2 Classes, Objects and Constructors**

Introduction to Classes - Overloading Methods- Overloading Constructors- Using Objects as Parameters - Returning Objects – Recursion - Introducing Access Control - Understanding static - Introducing final - Introducing Nested and Inner Classes

**Unit 2 (12 Hours)**

**2.1 Inheritance**

Inheritance Basics - Member Access and Inheritance - Using super - Creating a Multilevel Hierarchy - When Constructors Are Executed - Method Overriding - Dynamic Method Dispatch- Using Abstract Classes - Using final with Inheritance

**2.2 Interfaces**

Defining an Interface- Implementing Interfaces- Partial Implementations – Nested Interfaces -Applying Interfaces– Variables in Interfaces - Interfaces Can Be Extended

**Unit 3 (8 Hours)**

**3.1 Packages**

Defining a Package - Finding Packages and classpath - Access Protection - Importing Packages - Defining, Creating and Accessing a Package

**3.2 Exception Handling**

Exception-Handling Fundamentals - Exception Types - Uncaught Exceptions - Using try and catch- Multiple catch Clauses - Nested try Statements – throw – throws – finally - Java's Built-in Exceptions - Creating Your Own Exception Subclasses - Checked and Unchecked Exceptions

**Unit 4 (8 Hours)**

**4.1 Multithreaded Programming**

The Java Thread Model - Creating a Thread - Synchronization

**4.2 Generics**

Generics: What are Generics? –Simple Generics example, Generic Class with two type parameters, General form of a Generic class, Bounded Types

**Unit 5 (10 Hours)**

**5.1 Java Library**

String Handling – Exploring Java. Lang: Primitive type Wrappers - Number, Double and Float, Character – Math

**5.2 Java.util**

Collection Framework - Interfaces: Collection, list, Enumeration, Iterator, List Iterator - Classes: Array List -Utility Classes - Random, Date, Calendar

**BOOK FOR STUDY**

Schildt, Herbert. *Java: The Complete Reference*. McGraw-Hill Education Group, 2014

**BOOKS FOR REFERENCE**

Eckel, Bruce. *Thinking in Java*. 4th ed. Pearson Education, 2006.

Liang, Y. Daniel. *Intro to Java Programming, Brief Version*. Pearson Higher Ed, 2015.

Holmes, J. Barry, Joyce, T. Daniel. *Object-oriented Programming with Java*. Jones & Bartlett Learning. 2001

Somashekara, Guru D. S., Manjunatha K. S., *Object Oriented Programming with Java*. PHI Learning Pvt. Ltd., 2017

**WEB RESOURCES**

<http://docs.oracle.com/javase/tutorial/java/index.html/>

<http://www.java2s.com/Tutorial/Java/CatalogJava.htm/>

<https://www.edureka.co/blog/object-oriented-programming/>

**PATTERN OF ASSESSMENT:****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**Section A -  $10 \times 1 = 10$  marks (Answer all the questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)Section C -  $4 \times 5 = 20$  marks (4 out of 5)Section D -  $1 \times 10 = 10$  marks (1 out of 2)**Other Components:****Total Marks:50**

Seminars/Quiz/ Puzzles/Group discussion/Assignments/Code Reading/Case Studies

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A -  $20 \times 1 = 20$  marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

(1 question from each unit)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)

(2 questions from each unit)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)

(1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOFTWARE ENGINEERING AND TESTING**

**CODE:19CS/MC/TE35**

**CREDITS:5**

**L T P:4 0 2**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To enable the students to comprehend on the development of different types of software systems may require different software engineering techniques
- To enable the students to get a wider perspective on analysis with software process models
- To know about the fundamental process activities of software requirements engineering, software development, testing, and evolution
- To enable the students introduced to the idea of architectural patterns, well-tried ways of organizing system architectures, which can be reused in system designs
- To understand the stages of testing from testing, during development to acceptance testing by system customers and techniques that help you choose test cases that are geared to discovering program defects

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment
- Develops the ability to work in one or more significant application domains using the software models
- Work as an individual and as part of a multidisciplinary team to develop and deliver quality software using requirement engineering
- Construct the test cases for software applications
- Manage people, product, process and software configuration changes

**Unit 1 (17 Hours)**

**1.1 Introduction to Software Engineering**

Introduction - Professional software development, Software engineering ethics, Case studies

**1.2 Software processes**

Introduction - Software process models, Process activities, Coping with change, The rational unified process.

**1.3 Agile software development**

Introduction - Agile methods, Plan-driven and agile development - Extreme programming - Agile Project management - Scaling agile methods.



- Unit 2 (18 Hours)**  
**2.1 Requirements Engineering**  
 Introduction - Functional and non-functional requirements - The software requirements document - Requirements specification - Requirements engineering processes - Requirements Elicitation and analysis - Requirements Validation - Requirements Management.  
**2.2 System Modeling**  
 Introduction - Context models - Interaction models - Structural models - Behavioral models- Model driven engineering.
- Unit 3 (15 Hours)**  
**3.1 Architectural Design**  
 Introduction - Architectural design decisions, Architectural views, Architectural patterns, Application architectures.  
**3.2 Design and implementation**  
 Object-oriented design using the UML - Design patterns.  
**3.3 Product Metrics for Software**  
 Product Metrics – Framework for product metrics - Architectural Design Metrics - Metrics for the Requirement Model.
- Unit 4 (15 Hours)**  
**4.1 Software Testing**  
 Software Testing Techniques - Software Testing Fundamentals - Test Case Design - White-Box Testing - Basis Path Testing - Control Structure Testing - Black-Box Testing - Testing for Specialized Environments – Architectures and Applications.  
**4.2 Software Testing Strategies**  
 A Strategic Approach to Software Testing - Strategic Issues - Unit Testing - Integration Testing - Validation Testing - Component Testing - System Testing - The Art of Debugging.  
**4.3 Software Evolution**  
 Evolution processes - Program evolution dynamics - Software maintenance - Legacy System Management.
- Unit 5 (13 Hours)**  
**5.1 Software Configuration Management**  
 Introduction – Software Configuration Management – The SCM Repository, The SCM Process.  
**5.2 Project Management Concept**  
 The Management Spectrum – People - The Product - The Process – The Project - The W<sup>5</sup>HH Principle.  
**5.3 Estimation for Software Project**  
 The Project Planning Process - Software Scope and Feasibility – Resources - Software Project Estimation - Empirical Estimation Models.

## **BOOKS FOR STUDY**

Pressman, Roger S. *Software Engineering – A Practitioner’s Approach*, 7<sup>th</sup> ed., McGraw-Hill International Edition, 2010.

Sommerville, Ian. *Software Engineering*, 9<sup>th</sup> ed., Pearson Education Asia, 2011.

## BOOKS FOR REFERENCE

Ghezzi, Carlo, Mehdi Jazayeri, and Dino Mandrioli. *Fundamentals of software engineering*. Prentice Hall PTR, 2002.

Pfleeger and Lawrence. *Software Engineering: Theory and Practice*. 2nd ed. Pearson Education, 2010

Schach, Stephen R. *Object-oriented software engineering*. McGraw-Hill, 2008.

## WEB RESOURCES

<http://www.diva-portal.org/smash/get/diva2:215169/fulltext01>

<http://github.com/collections/software-development-tools>

<https://www.d.unn.edu/~gshute/softeng/principles/html>

## PATTERN OF ASSESSMENT:

**Continuous Assessment Test:**      **Total Marks: 50 (Theory-25, Practical -25)**  
**Duration: 90 minutes**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)  
(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $3 \times 5 = 15$  marks (3 out of 4)

**Other Components:**      **Total Marks:50**

Case study/Assignments/Practical Test

<b>End-Semester Examination:</b>	<b>Total Marks:100</b>	<b>Duration:3 hours</b>
<b>Theory - 50 marks</b>		<b>Duration – 1 ½ hours</b>
<b>Practical - 50 marks</b>		<b>Duration – 1 ½ hours</b>

Section A- $10 \times 1 = 10$  (Answer all the Questions)  
(5 Multiple choice questions and 5 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  (Answer all the Questions)  
(Atleast 1 question from each unit)

Section C -  $6 \times 5 = 30$  (6 out of 8)  
(Atleast 1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CREATIVE WEB DESIGNING - PRACTICAL**

**CODE:19CS/MC/P132**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To pursue practical skills in image editing and animation using GIMP
- To impart creativity through logo design and 2D animation in GIMP
- To understand the principles of effective web page designing and learn the same with HTML5 and CSS
- To create interactive web pages using JavaScript
- To learn how to design webpages for multiple devices

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Have an expertise in photo editing using GIMP
- Design their own textures, logos and also to create animations using GIMP
- Learn how to design and structure a web page with different elements using HTML5 and CSS
- Create web-pages with dynamic content using JavaScript
- Understand the importance of having web pages designed for different devices and to do the same

**GIMP**

1. Exercise to create a picture using layers and basic tools.
2. Exercise on photography retouching.
3. Exercise to create a photo collage.
4. Exercise to create a logo.
5. Exercise to create a banner.
6. Exercise to create a webpage background image using filters
7. Exercise on animation using frame by frame and moving along the path.
8. Exercise on laying out a website.

## HTML5 and CSS

9. Using HTML features - standard tags, fonts, headings, paragraphs, formatting, list, anchor tags, image linking and multimedia
10. Designing a web page with focus on tables and layers
11. Designing a web page with focus on forms and hands-on experience on different page layouts, web pages with interactivity
13. Exploring and learning the above concepts using Dreamweaver
14. Exercises on div tag, navigations, CSS
15. Exercise a building a Multilingual Web page

## JavaScript

16. Programs using operators and control statements
17. Implementing text, number, date and email id validations
18. Exercises on events
19. Using arrays
20. Processing inputs and displaying messages incorporating system time
21. Programs implementing JavaScript objects
22. Programs to handle exceptions

## PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Practical		
<b>Other Components:</b>	<b>Total Marks: 50</b>	
Practical	25 Marks	
Mini Project	25 Marks	
<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Practical		

**STELLA MARIS COLLEGE (AUTONOMOUS) – CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**OBJECT ORIENTED PROGRAMMING - PRACTICAL**

**CODE:19CS/MC/P232**

**CREDITS:2**

**L T P:0 0 4**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To solve computational problems using basic constructs like if-else, control structures, array, and strings
- To implement relationships between classes
- To demonstrate various collection classes
- To implement and understand programs on exceptions, multithreading

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the basic approaches to the design of software applications
- Understand the concepts of Objects and Classes through Java programming
- Use Java programming to implement OOPs concepts like Inheritance, Interface
- Understand the concepts like Threading using programming
- Learn the concepts of Package by implementing

**A. Basic Java components:**

- Program to demonstrate the use of command line argument.
- Program to demonstrate basic constructs like if-else and control structures.
- Program to understand the working of an array.
- Program to understand string class and demonstrate its various functions.

**B. Perform following practical on some case study like Banking Application, Library Application etc.**

- Find out classes, objects and their properties.
- Create and display objects.
- Add methods to classes and implement.
- Refine above objects by adding constructors and local variables and also usage of static keyword.
- Show communication between the objects by calling instance of one object from another class.
- Find relationships like inheritance and implement it.
- Apply Method overriding and implement it in the Application.

- C. Applications of the concepts in Java.
- Program to implement Abstract classes and Dynamic method dispatch.
  - Program to implement Interfaces
  - Program to implement Packages
  - Program to implement user defined exceptions.
  - Program to illustrate Multithreading.
  - Program to illustrate the use of Java Library.

#### **PATTERN OF ASSESSMENT**

##### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Practical

##### **Other Components:**

**Total Marks: 50**

Practical

25 Marks

Mini Project

25 Marks

##### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Practical

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**OPERATING SYSTEMS**

**CODE:19CS/MC/OS45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide an overview of the working and structure of an operating system
- To understand the concepts of Process management
- To understand the concepts of Storage management
- To understand the concepts of Secondary storage management
- To understand the concepts of File Management

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Describe the basic components of an operating system and its services
- Define the concepts of processes, threads, asynchronous signals and competitive system resource allocation
- Outline standard scheduling algorithms for multi-tasking
- Describe secondary storage management
- Describe memory management and File management concepts

**Unit 1 (14 Hours)**

**1.1 Introduction**

Introduction – Computer System Organisation – Computer System Architecture – Operating System - Structure, Operations – Process Management – Memory Management – Storage Management - Protection and Security – Kernel Data Structures

**1.2 Operating System Structures**

Operating System Services – System Calls – System Programs – Operating System Design and Implementation - Operating System Structure –System Boot

**Unit 2 (14 Hours)**

**2.1 Processes**

Process Concept – Process Scheduling – Operations on Processes – Interprocess Communication

**2.2 Process Synchronisation**

Background – The Critical-Section Problem – Peterson’s Solution – Synchronisation Hardware – Semaphores – Classic problems of Synchronisation – Monitors

**Unit 3 (13 Hours)**

**3.1 Threads**

Overview – Multithreading models – Threading issues

**3.2 CPU Scheduling**

Basic Concepts – Scheduling Criteria – Scheduling Algorithms

**3.3 Deadlocks**

System Model – Deadlock Characterisation – Methods for handling Deadlocks

- Deadlock Prevention – Deadlock Avoidance – Deadlock Detection –

Recovery from Deadlock

**Unit 4 (13 Hours)**

**4.1 Main Memory**

Background – Swapping – Contiguous Memory allocation – Paging –

Structure of Page Table – Segmentation

**4.2 Virtual Memory**

Background – Demand Paging – Copy on Write – Page Replacement –

Thrashing

**Unit 5 (11 Hours)**

**5.1 Secondary Storage Structure**

Overview of Mass Storage Structure – Disk Structure – Disk Attachment –

Disk Scheduling – Disk Management – Swap Space Management – RAID

Structure

**5.2 File Management**

File System – File Concepts – Access Methods – Directory Structures

**5.3 File System Implementation**

File System Structures – Allocation Methods – Free Space Management

**BOOKS FOR STUDY**

Silberschatz, Abraham, Peter B. Galvin and Greg Gagne. *Operating System Concepts*. 9 ed. Wiley, 2014.

**BOOKS FOR REFERENCE**

Madnick, Stuart E., John J. Donovan. *Operating Systems*. McGraw Hill International Edition, 1974.

McHoes, Ann, Flynn, Ida M. *Understanding Operating System*. 7<sup>th</sup> Ed., Cengage Learning. 2014.

Tanenbaum, Andrew. *Modern Operating Systems*. 9<sup>th</sup> Ed., Prentice Hall, 2014.

**WEB RESOURCES**

<https://www.linux.com/learn/new-user-guides/376-linux-is-everywhere-an-overview-of-the-linux-operating-system/>

<http://nptel.ac.in/courses/106108101/>

<https://www.guru99.com/introduction-linux.html>



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks:50**

**Duration: 90 minutes**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)  
(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $4 \times 5 = 20$  marks (4 out of 5)

Section D -  $1 \times 10 = 10$  marks (1 out of 2)

### **Other Components:**

**Total Marks:50**

Quiz/Assignment/Seminar/Group Discussion/Problem solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)  
(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEMS**

**CODE:19CS/MC/FD45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the difference between database systems and file systems and the importance of relational data model
- To enable a comprehensive and detailed understanding of the features and characteristics of database systems
- To understand functional dependencies and normalization of database and be able to apply the same on a database
- To be able to apply knowledge to new problems
- To demonstrate an understanding on transaction processing, concurrency control and DB recovery techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Differentiate database systems from file systems
- Define the terminologies, features and characteristics of database systems
- Understand and discuss the importance of relational data modeling and conceptual modeling
- Apply knowledge to new situations
- Normalize databases effectively
- Describe the transaction processing, concurrency control and recovery control

**Unit 1 (9 Hours)**

**1.1 Introduction to Databases**

Introduction - An example - Characteristics of the Database Approach - Actors on the Scene - Workers behind the Scene - Advantages of Using the DBMS Approach - A Brief History of Database Applications -When Not to Use a DBMS

**1.2 Database System Concepts and Architecture**

Data Models, Schemas and Instances - Three Schema Architecture and Data Independence - Database Languages and Interfaces – The Database System Environment - Centralized and Client/Server Architectures for DBMSs - Classification of Database Management Systems

**Unit 2 (14 Hours)**

**2.1 The Relational Data Model and Relational Database Constraints**

Relational Model Concepts - Relational Model Constraints and Relational Database Schemas - Update Operations, Transactions and Dealing with Constraint

## **2.2 Data Modeling Using the Entity-Relationship Model**

Using High-Level Conceptual Data Models for Database Design - A Sample Database Application - Entity Types, Entity Sets, Attributes and Keys - Relationship Types, Relationship Sets, Roles and Structural Constraints - Weak Entity Types - Refining the ER Diagram – ER Diagrams, Naming Conventions and Design Issues - Relationship Types of Degree Higher than Two

## **2.3 The Enhanced ER model**

Subclasses, SuperClasses and Inheritance, Specialization and Generalization, Constraints and Characteristics of Specialization and Generalization Hierarchies, Modelling of Union Types Using Categories, Data Abstraction

## **2.4 Relational Database Design by ER- and EER-to- Relational Mapping**

Relational Database Design Using ER-to-Relational Mapping - Mapping EER Model Constructs to Relations

# **Unit 3 (14 Hours)**

## **3.1 Basic SQL**

SQL Data Definition and Data Types - Specifying Constraints in SQL - Basic Retrieval Queries in SQL- Insert, Delete and Update Statements in SQL - Additional Features of SQL

## **3.2 More SQL: Complex Queries, Triggers, Views and Schema Modification**

More Complex SQL Retrieval Queries - Specifying Constraints as Assertions and Actions as Triggers – Views - Schema Change Statements in SQL

## **3.3 The Relational Algebra**

Unary Relational Operations: Select and Project - Relational Algebra Operations from Set Theory - Binary Relational Operations: Join and Division, Additional Relational Operations, Examples of Queries in Relational Algebra.

# **Unit 4 (14 Hours)**

## **4.1 DB Programming techniques**

Introduction to SQL programming Techniques - DB programming: Techniques and Issues -Embedded SQL, Dynamic SQL, DB Stored procedures.

## **4.2 DB design theory and normalization**

Basics of Functional Dependencies and normalization for relational DB-relational DB design algorithms and further dependencies

## **4.3 PL/ SQL**

PL/ SQL Blocks – Architecture - Data Types and their usage - Control Structures - Exceptions - Predefined, User Defined Cursors and Triggers: Introduction – Cursors - Cursor Management – Procedures – Functions - Triggers and its types

# **Unit 5 (14 Hours)**

## **5.1 Transaction processing**

Introduction, transaction and system concepts, desirable properties of transactions, characterizing schedules based on recoverability and serializability, transaction support in SQL

## **5.2 Concurrency Control Techniques**

Two phase locking techniques, concurrency control based on timestamp ordering, multiversion concurrency control techniques, validation concurrency control techniques, granularity of data items and multiple granularity locking, using locks for concurrency control in indexes, other concurrency control issues

### 5.3 DB Recovery Techniques

Recovery concepts, no undo /redo recovery based on deferred update, recovery techniques based on immediate update, shadow paging, Aries recovery algorithm, recovery in multi DB systems, DB backup and recovery for catastrophic failures

### BOOKS FOR STUDY

Elmasri, Ramez, and Shamkant Navathe. Fundamentals of database systems. Addison-Wesley Publishing Company, 2010.

### BOOKS FOR REFERENCE

Bayross, Ivan. *SQL, PL/SQL: The Programming Language of Oracle*. Tech Publications Private Limited, 2000.

Chopra, Rajiv. *Database Management System (DBMS) A Practical Approach*. S. Chand Publishing, 2010.

Date C. J. *Introduction to Database Systems*. USA: Pearson Education, 2003.

Garcia-Molina, Hector. *Database systems: the complete book*. Pearson Education India, 2008.

Michael McLaughlin. Oracle Database 11g PL/SQL Programming. Oracle Press. McGraw Hill, 2008

Ramakrishna, Raghu and Johannes Gerhke. *Database Management Systems*. McGraw Hill, 2002.

Silberschatz, Abraham, Henry F. Korth, and S. Sudarshan. *Database System Concepts*. McGraw Hill, 2008.

### WEB RESOURCES

<http://www.w3schools.com/sql/>

<http://www.oracle.com/technetwork/tutorials/index.html>

<http://sqlzoo.net/>

<https://eu.udacity.com/course/intro-to-relational-databases--ud197>

<http://www.sql-tutorial.ru/>

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)  
(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $4 \times 5 = 20$  marks (4 out of 5)

Section D -  $1 \times 10 = 10$  marks (1 out of 2)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open book tests/Case Studies/Analysis and Optimization of queries

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)  
(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**OPERATING SYSTEM CONCEPTS IMPLEMENTATION**

**CODE:19CS/MC/P342**

**CREDITS:2**

**L T P:0 0 4**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To reinforce the understanding of Operating System Concepts by using commands that interact with the Operating System
- To introduce System Programming

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Use Operating System basic commands and utilities
- View and change file access permission of user files
- Access devices using mount and unmount commands
- Write system programs to manage files and processes

**Commands**

1. Basic Commands - cat, date, who, pwd, history- filter –head - tail, cut, paste, grep – sed - awk – sort – man - su - whoami - echo
2. Process Utilities - ps - shell process, Parents and children, Process status, System process, running jobs in background, Process System calls – getpid, getppid, fork, executing a process, exit, wait, kill, nice, Job control, cron, pstree
3. Boot Process - Run Levels - init, systemd - Daemon Process
4. Scheduling policies and Priorities – at and batch
5. File System – file- File Access Permission – chmod, chown, chgrp - File Comparisons - View Files - Listing files with attributes – Wildcards – Translating Characters - Links and its types - The File System – Partitions, File Systems types- System calls for file management, directory management
6. Kernel Accesses – Mounting - Unmounting - umask - ulimit - I/O redirection – Pipes
7. Disk Utilities - Disk usage(du), disk free(df), dd, Backups- cpio, tar

**System Programming (using system calls)**

8. Program to create, execute, terminate a process
9. Program to demonstrate the Memory Layout of a Process
10. Program to perform file operations (open, close, read, write)
11. Program to set permissions on files and directories
12. Program to demonstrate Inter-Process communication

## BOOKS FOR REFERENCE

Kerrisk, Michael. *The Linux Programming interface A Linux and UNIX System Programming Handbook*

Mark G Sobell. *Practical guide to Linux - Commands, Editors and Shell programming*, Fourth Edition, 2018

Sumitabha Das. *UNIX Concepts and Applications*, Fourth Edition

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
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Practical

<b>Other Components:</b>	<b>Total Marks: 50</b>
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Practical / Code Reading / Case Study

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
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Practical

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DATABASE MANAGEMENT SYSTEMS PRACTICAL**

**CODE:19CS/MC/P442**

**CREDITS:2**

**L T P:0 0 4**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand database creation by using commands
- To understand and normalize the table based on the dependencies
- To be able to apply exceptions handling

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the relational data modeling and conceptual modeling
- Understand table creation with keys and Constraints
- Normalize databases effectively
- Apply knowledge to new situations

**List of Programs**

1. Schema design.
2. ER modelling using a tool.
3. DDL commands.
4. DML and TCL commands.
5. SQL programming, Embedded SQL, Dynamic SQL.
6. Sub queries.
7. Single Row and Aggregate functions, Set operations.
8. Joins.
9. Views, index, synonyms and sequence
10. Report generation
11. Cursors
12. Procedures & Functions
13. Triggers
14. Exception Handling

**PATTERN OF ASSESSMENT:**

**Continuous Assessment Test:**

Practical

**Total Marks: 50**

**Duration: 90 minutes**

**Other Components:**

**Total Marks: 50**

Component I - Data Modeling

25 marks

Component II - DBMS Implementation/Queries

25 marks

**End-Semester Examination:**

Practical

**Total Marks: 100**

**Duration: 3 hours**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COMPUTER NETWORKS**

**CODE:19CS/MC/CN55**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the division of network functionalities into layers
- To be familiar with the components required to build different types of networks
- To be exposed to the required functionality at each layer
- To learn the flow control and congestion control algorithms
- To introduce the latest networking technologies

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understands basic computer network technology
- Understand and explain Data Communications System and its components
- Identify the different types of network topologies and protocols
- Enumerate the layers of the OSI model and TCP/IP and explain the function(s) of each layer
- Familiarity with the basic protocols of computer networks, and how they can be used to assist in network design and implementation

**Unit 1 (10 Hours)**

**1.1 Basic Network Concepts**

Data Communication – Networks – Network Types – Internet History – Standard and Administration

**1.2 Network Models**

Protocol Layering – TCP/IP Protocol Suite – The OSI Model

**Unit 2 (13 Hours)**

**2.1 Physical Layer**

Data and Signals – Digital Signals – Performance - Transmission Modes – Multiplexing – Transmission Media – Switching - Introduction- Circuit-Switched Networks- Packet Switching

**Unit 3 (15 Hours)**

**3.1 Data Link Layer**

Introduction -Data Link Control – Framing -Data-Link Layer Protocols -Error Detection and Correction –Introduction -Cyclic Codes-Cyclic Redundancy Check - Checksum

### **3.2 MAC and Ethernet**

Random Access, Controlled Access, Channelization-Ethernet - Ethernet Protocol, Standard Ethernet, Fast Ethernet (100 Mbps), Gigabit Ethernet, 10 Gigabit Ethernet

### **3.3 Network Layer**

Network-Layer Services - IPV4 Addresses - IPv6 Addressing - Representation, Address Space - Address Space Allocation

## **Unit 4 (15 Hours)**

### **4.1 Transport Layer**

Transport Layer Services - Connectionless and Connection-Oriented Protocols

### **4.2 Application Layer**

Domain Naming System – DNS Name Space, Distribution of Name Space, DNS in the Internet, Resolution, DNS Messages, Electronic Mail, FTP, TELNET

## **Unit 5 (12 Hours)**

### **5.1 Wireless Networking**

Introduction - Components of a Wireless Communication System – Architectural Comparison – Characteristics – Access Control – IEEE 802.11 Project -Wireless Networking Standards – Bluetooth Technology – Other Wireless Technology – WiMax – Cellular Telephony – Satellite networks - Wireless network protocols: ZigBee - ZWAVE, THREAD - Bluetooth Low Energy(BLE) - IPv6 for Low Power and Lossy Networks (6LoWPAN) - Routing Protocol for Low power and lossy networks (RPL) – 2G – 3G and 4G

### **5.2 Distributed Networking**

Introduction – Definition of a Distributed System, Goals, Types of Distributed Systems, Architecture-Architectural Styles, System Architectures, Architecture Vs Middleware, Applications of Distributed Networking

## **BOOKS FOR STUDY**

Forouzan, A. Behrouz. *Data communications & networking*. Tata McGraw-Hill Education, 2012.

Tanenbaum, Andrew S., and Maarten Van Steen. *Distributed systems: principles and paradigms*. Prentice-Hall, 2007. [Unit V – Chapter 1 & 2]

## **BOOKS FOR REFERENCE**

Bonaventure, Olivier. *Computer Networking: Principles, Protocols and Practice*. cnp3book, 2018.

Qureshi, A. Anique, Levine, H. Marc, Shim, K.Jae. *The international handbook of computer networks*. Global Professional Publishing, 2004

Tanenbaum, Andrew S. *Computer Networks*. 5<sup>th</sup> ed. Pearson publication, 2011.

## WEB RESOURCES

<http://compnetworking.about.com/od/basicnetworkingconcepts/>

<http://www.networkconceptsinc.com>

<http://computerguru.net/Network>

[http://www.tutorialspoint.com/data\\_communication\\_computer\\_network](http://www.tutorialspoint.com/data_communication_computer_network)

<https://www.link-labs.com/blog/complete-list-iot-network-protocols>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $4 \times 5 = 20$  marks (4 out of 5)

Section D -  $1 \times 10 = 10$  marks (1 out of 2)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open book test/Case Study

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

(1 question from each unit)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)

(2 questions from each unit)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)

(1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DATA SCIENCE**

**CODE:19CS/MC/DS54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the basics of Python language
- To enable a comprehensive and detailed understanding of the Data Science, data formats and data exploratory analysis
- To explore different machine learning techniques
- To understand the various applications of python
- To explore different visualizations techniques in python

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Critically analyze and follow the mechanism to manage, explore, and deep understanding of uncertain and complex data
- Apply Machine Learning techniques to extract actionable value from data
- Assess the use of data from acquisition through cleansing, analytics, and visualization
- Describe the Data Science Process and mechanism
- Institute the skills required for the Data Scientist role

**Unit 1 (10 Hours)**

**1.1 Python language Basics**

The Python Interpreter-IPython basics- Python Language Basics

**1.2 Built-in Data Structures, Functions and Files**

Data Structure and Sequences-Functions-Files

**1.3 NumPy Basics: Arrays and Vectorized Computation**

The NumPy ndarray: A Multidimensional Array Object -Universal Functions-Array Oriented Programming with Arrays-File Input and Output with Arrays

**Unit 2 (15 Hours)**

**2.1 Introduction of Data Science and Data pipeline**

What Is Data Science? -Data Science Process- Data Loading, Storage and File Formats – Reading and Writing Data in Text Format-Binary Data Formats-Interacting with Web API-Interacting with Databases

**2.2 Visualization**

Matplotlib – Simple Line Plots-Simple Scatter Plots-Visualizing Errors-Density and Contour Plots-Histogram, Binnings and Density -Customizing Color Bars-Customizing Plot Legends -Multiple Subplots-Text and Annotation-Customizing Ticks

**Unit 3 (15 Hours)**

**3.1 Data Cleaning and Preparation**

Handling Missing Data-Data Transformation-String Manipulation

**3.2 Data Wrangling-Join, Combine and Reshape**

Hierarchical Indexing – Combining and Merging Datasets-Reshaping and Pivoting-Getting Started with Pandas-Introduction to Pandas Data Structures- Essential Functionality

**Unit 4 (15 Hours)**

**4.1 Machine Learning**

Introduction to Machine Learning- Why Machine Learning?

**4.2 Supervised Learning**

Classifications and Regression-Generalization-Overfitting-Underfitting- Supervised Machine Learning Algorithms-K-Nearest Neighbor-Linear Models-Naïve Bayes Classifiers-Decision Tree-Ensemble of Decision Trees

**4.3 Unsupervised Learning**

Types of Unsupervised Learning -Dimensionality Reduction, Feature Extraction-Clustering- Model Evaluation and Improvement- Cross Validation- Grid Search - Evaluation metrics and Scoring- Using evaluation metrics in model selection

**Unit 5 (10 Hours)**

**5.1 Natural Language Processing (NLP)**

Natural Language Processing (NLP)- Understand the Problem Statement- Tweets Preprocessing and Cleaning-Removing Twitter Handles-Removing Punctuations, Numbers and Special Characters-Removing Short Words- Tokenization-Stemming-Story Generation and Visualization from Tweets-Hashtags-Extracting Features from Cleaned Tweets-Model Building and Sentiment Analysis

**5.2 Social Network Analysis**

Introduction to Graph Theory-Graph Algorithms-Graph Loading-Dumping and Sampling

**BOOKS FOR STUDY**

Alberto Boschetti. Luca Masaaron. Python Data Science Essentials. UK: Packt Publishing Ltd, 2016. (Unit 4: Chapter 5, Unit 5: Chapter 6)

Andreas C. Mueller. Sarah Guido. Introduction to Machine Learning with Python. USA: O'Reilly Media, Inc. ,2016. (Unit 3: Chapter1: Introduction to Machine Learning, Chapter 2, Chapter 3)

Jake VanderPlas. Python Data Science Handbook. USA: O'Reilly Media, Inc., 2016. (Unit 5: Chapter 4)

Wes McKinney. Python for Data Analysis. Gravenstein Highway North, Sebastopol: O'Reilly Media, Inc., 2018. Second Edition. (Unit 1: Chapter 2, 3, 4, Unit 2: Chapter 5,6,7,8)

## BOOKS FOR REFERENCE

Aurélien Géron. Hands-On Machine Learning with Scikit-Learn and Tensor Flow: Concepts, Tools, and Techniques to Build Intelligent Systems. USA: O'Reilly Media, 2019.

Brian K. Jones. David Beazley. Python Cookbook. USA: O'Reilly Media, Incorporated, 2013.

## WEB RESOURCES

[https://intellipaat.com/tutorial/data-science-tutorial/introduction-of-data-science/\(Unit2: introduction of Data science\)](https://intellipaat.com/tutorial/data-science-tutorial/introduction-of-data-science/(Unit2: introduction of Data science))  
<https://machinelearningmastery.com/about/>  
<https://www.analyticsvidhya.com/>  
<https://www.analyticsvidhya.com/blog/2018/07/hands-on-sentiment-analysis-datasetpython/>  
(Unit 4)

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)  
(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $4 \times 5 = 20$  marks (4 out of 5)

Section D -  $1 \times 10 = 10$  marks (1 out of 2)

**Other Components:** **Total Marks:50**

Case study/Assignments//Seminar/Quiz

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)  
(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)  
(1 question from each unit)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)  
(2 questions from each unit)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)  
(1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS) – CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FUNCTIONAL WEB DEVELOPMENT**

**CODE:19CS/MC/FW54**

**CREDITS:4**

**L T P:3 0 2**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide awareness about ReactJS and keep updated yourself with latest trends
- To understand functional programming
- To manage data by using State and Props of React
- To create smaller components to build Interactive User interfaces
- To understand about React and how it fits into your web developing process

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Build React applications using React Components
- Manage the state and lifecycle methods of React Components
- Build lists and forms using React Components
- Acquire hands-on knowledge on basic React components and apply them
- Apply database operations in React

**Unit 1 (12 Hours)**

**1.1 Introduction to React**

Understanding React – React's Future – Keeping up the changes -Setting up the Environment - Working with Files

**1.2 Emerging JavaScript**

Declaring Variables – Arrow Functions – Transpiling ES6 – ES6 Objects and Arrays – Promises – Classes – ES6 Modules – CommonJS

**Unit 2 (14 Hours)**

**2.1 Functional Programming with JS**

Understanding Functional Programming – Functional Concepts : Immutability, Pure Functions, Data Transformations, Higher- Order Functions, Recursion, Composition

**2.2 Pure React**

Page Setup – The Virtual DOM- React Elements – ReactDOM – Children – Constructing Elements with Data – React Components - DOM Rendering – Factories

**2.3 React with JSX**

React Elements as JSX – Babel – Recipes as JSX – Intro to Webpack

**Unit 3 (14 Hours)**

**3.1 Props, State and Component Tree**

Property Validation – Validating Props with createClass – Default Props – Custom Property Validation – ES6 Classes and Stateless Functional Components – Refs – React State Management – State within the Component Tree

### **3.2 Enhancing Components**

Component Life Cycles: Mounting, Updating, React Children – JavaScript Library Integration – Higher Order Components – Managing State Outside of React – Flux: Views, Actions and Action Creators, Dispatcher, stores, Flux Implementations

## **Unit 4 (14 Hours)**

### **4.1 Forms**

Basic Button – Events and Event Handlers – Text Input – Remote Data – Async Persistence – Redux – Form Modules

### **4.2 React Router**

Incorporating the Router – Nesting Routes – Router Parameters

## **Unit 5 (11 Hours)**

### **5.1 React and Server**

Isomorphism vs Universalism – Universal Color Organizer – Communicating with the Server

### **5.2 Database Operations**

CRUD operations in ReactJS - Case study

### **BOOKS FOR STUDY**

Anthony, Accomazzo, Murray Nathaniel, and Lerner Ari. Fullstack React: The Complete Guide to ReactJS and Friends. (2017). [Unit 4.1: Chapter 6]

Banks, Alex, and Eve Porcello. *Learning React: Functional Web Development with React and Redux*. O'Reilly Media, Inc., 2017

### **BOOKS FOR REFERENCE**

Lopez, Lionel, *React: Quickstart Step-by-step Guide to Learning React Javascript Library*

Robin Wieruch, *The Road to learn React*, LeanPub, 2017.

Sidelnikov, Greg, *React.js Book: Learning React JavaScript Library From Scratch*, 1<sup>st</sup> Ed. River Tigris LLC, 2017.

ReactJS notes for Professionals, Goal Kicker.com

### **WEB RESOURCES**

<https://reactjs.org/tutorial/tutorial.html#before-we-start-the-tutorial>

[https://www.tutorialspoint.com/reactjs/reactjs\\_useful\\_resources.htm](https://www.tutorialspoint.com/reactjs/reactjs_useful_resources.htm)



**PATTERN OF ASSESSMENT:****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes****Theory- 25 marks****Practical: 25 marks**Section A -  $10 \times 1 = 10$  (To answer all the Questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $3 \times 5 = 15$  (To answer three out of Four Questions)**Other Components:****Total Marks: 50**

Quiz/Puzzles/Case Study/Story board of Website with elaborate description on controls and events/Mini Project

**End-Semester Examination:****Total Marks: 100    Duration: 3 hours****Theory - 50 marks****Duration – 1 ½ hours****Practical - 50 marks****Duration – 1 ½ hours**Section A- $10 \times 1 = 10$  (Answer all the Questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  (Answer all the Questions)

(1 question from each unit)

Section C -  $6 \times 5 = 30$  (6 out of 8)

(atleast 1 question from each unit)

**List of Practical Exercises**

1. Implementing basic JavaScript
2. Implementing Emerging JavaScript (Let, Const, Arrow Functions, Import and Export, Classes)
3. Implementing Functions, Recursion
4. Implementing Components, Props
5. Implementing Inter Component Communication
6. Implementing State Management
7. Implementing Component Life Cycle
8. Implementing Forms
9. Implementing Routing
10. Implementing Flux, Redux
11. Implementing CRUD operations

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**DATA SCIENCE PRACTICAL**

**CODE:19CS/MC/P552**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the basics of Python language
- To enable a comprehensive and detailed understanding of the Data Science, data formats and data exploratory analysis
- To explore different machine learning techniques
- To understand the various applications of python
- To explore different visualizations techniques in python

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Critically analyze and follow the mechanism to manage, explore, and deep understanding of uncertain and complex data
- Apply Machine Learning techniques to extract actionable value from data
- Assess the use of data from acquisition through cleansing, analytics, and visualization

**List of Exercises**

1. Basic python programs
2. The installation of python packages - Scikit-learn toy datasets
3. Loading the datasets of different formats and dataset creation.
4. Cleaning and pre-processing datasets
5. Missing data substitution
6. Data transformation
7. Data wrangling: Splitting large datasets and combining datasets
8. Indexing and pivoting
9. Machine learning: Supervised Learning algorithms
10. K-nearest neighbor
11. Linear model
12. Naïve bayes
13. Decision tree
14. Random forest
15. Unsupervised learning algorithms
16. Feature extraction
17. Clustering: k-means, agglomerative and dbscan clustering
18. Model evaluation
19. Visualization with different plots Matplotlib's commands and package usage for visual representation
20. Applications: case study

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Practical

### **Other Components**

Total Marks: 50

Practical 25 Marks

Mini Project (Case study) 25 Marks

**End-Semester Examination :**

**Total Marks: 100**

**Duration: 3 hours**

Practical

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CRITICAL ANALYSIS ON AN ADVANCED TECHNOLOGY**

**CODE:19CS/MC/CA51**

**CREDITS:1**

**L T P:0 0 2**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to explore and critically analyse the selected technology
- To enable students to adapt to changes in the technological landscape
- To train students with the skills and knowledge of the process of writing
- To enable students to present ideas clearly and firmly, both orally and in writing
- To equip them with skills to describe and synthesise new ideas
- To train students to work with academic integrity
- To train students to work in a group

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate clear, precise, ethically sound ideas on the chosen topic
- Find, evaluate and use information from varied sources effectively
- Critically analyse, argue and counter argue on the topic chosen
- Understand the significance, bias and applications of the technology chosen
- Formulate and synthesise new ideas and opinions in the form of projects /and papers
- Create clear, grammatically correct, ethically sound, well-organised pieces of writing

Students will be formed into groups. The groups will have to select a topic related to the Emerging /Advanced Trends and Technologies in the field of Computer Science. Each group has to give three presentations to their fellow classmates and their guide. They need to prepare the synopsis and detailed report in consultation with their guide.

**PATTERN OF ASSESSMENT**

Component I - Presentation / Review (Includes continuous evaluation of 3 presentations)

Component II - Papers and /Projects

**End-Semester Examination**

Documentation - 30 marks

Projects and /papers - 30 marks

Presentation - 20 marks

Viva - 20 marks

## **Format of the report**

### **Abstract**

Short description of the paper. Describe what the technology is, why it is significant or interesting, and your conclusion.

### **Introduction**

- What is the technology?
- Literature review: what is the current thinking, findings, and approaches on the technology?
- What is the significance of the technology?
- How do you plan to use the technology?

### **Methods/ Approaches**

- What is your opinion of the utility, relevance, challenges or quality of the technology you have selected? (Support with project/papers)

### **Results**

- What are your conclusions?
- What do your conclusions mean?
- How do your results fit into a broader context?

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Departments of Computer Science and Psychology to B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**HUMAN COMPUTER INTERACTION**

**CODE:19ID/IC/HC55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To learn the foundations of Human Computer Interaction concepts
- To be familiar with the design technologies for individuals and persons with disabilities
- To learn the guidelines for user interface
- To understand constraints, get an insight into the design space, and on deep knowledge of the materials of the design, that is, the user, the task, and the machine
- To discuss the psychological and physiological attributes of the user, providing the students with a basic overview of the capabilities and limitations that affect the ability to use computer systems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- To design an effective HCI for any interface
- To design an effective HCI for individuals and persons with disabilities
- To assess the importance of user feedback
- To explain the HCI implications for designing Multimedia/ VR
- To develop meaningful user interface

**Unit 1**

**(15 Hours)**

**1.1 Introduction to Interaction Design**

Introduction-Good and poor design-What is Interaction Design? -What is involved in the process of Interaction Design? -The goals of interaction design-More on usability: Design and usability principles.

**1.2 The Human**

Understanding the human mind- computation: connectionism and symbol systems. Levels of information processing. Memory- Atkinson and Shrifin model; structure of the working memory.

**1.3 The Computer**

Devices – Memory – Processing and Networks.

**1.4 Interaction**

Models – Frameworks – Ergonomics: Bias - Arrangement of controls and displays, physical environment of interaction, health issues, use of colours, and ergonomics and HCI. – Styles – Elements – Interactivity- Paradigms-Experience, engagement and fun-understanding and designing experience and physical design & engagement.

<b>Unit 2</b>	<b>(12 Hours)</b>
<b>2.1 Understanding Users</b> Cognition- Attention: visual and auditory attention. Parallel processing. Perception-perceptual grouping- figure and ground, similarity, proximity, continuity, symmetry, closure.	
<b>2.2 Designing for collaboration and communication</b> Introduction- Social mechanisms used in communication and Collaboration- Ethnographic studies of collaboration and Communication-Conceptual frameworks	
<b>2.3 Understanding how interfaces affect users</b> Introduction- What are affective aspects? - Expressive Interfaces-User Frustration Virtual characters: agents	
<b>Unit 3</b>	<b>(15 Hours)</b>
<b>3.1. Types of Users</b> Visualizers and verbalizers. High and low OSL. Variety and Novelty Seekers. Need for cognition. Designing for special populations- children, the elderly and the disabled.	
<b>3.2 Observing users</b> Introduction-Goals, questions and Paradigms-What and when to observe -How to observe- Participant observation and Ethnography-Data collection- Indirect observation tracking users' activities- Analyzing, interpreting and presenting data.	
<b>3.3. Asking users and experts</b> Introduction -Asking users: Interviews- Asking users: Questionnaires- Asking users: Inspections- Asking users: Walkthroughs	
<b>Unit 4</b>	<b>(18 Hours)</b>
<b>4.1. Interactive Design Basics</b> Process – Scenarios – Navigation – Screen Design – Iteration and Prototyping.	
<b>4.2. HCI in Software Process</b> Software Life Cycle – Usability Engineering – Prototyping in Practice – Design Rationale.	
<b>4.3. Design Rules</b> – Principles, Standards, Guidelines, Rules -Universal Design-User-centred approaches to interaction design	
<b>Unit 5</b>	<b>(18 Hours)</b>
<b>5.1 Modelling Interaction</b> Descriptive models. Predictive model- A model continuum model	
<b>5.2 Groupware</b> Introduction-Groupware Systems-Computer-mediated Communication-Meeting and decision support systems-Shared applications and artifacts-Frameworks for groupware- Implementing synchronous groupware	
<b>5.3 Ubiquitous computing and augmented realities</b> Introduction-Ubiquitous computing applications research-Virtual and augmented reality-Information and data visualization	
<b>5.4. Hypertext, multimedia and the World Wide Web</b> Introduction-Understanding hypertext- Finding Things-Web technology and issues - Static web content-Dynamic web content	

## **BOOKS FOR STUDY**

Dix Alan, Finlay Janet, Abowd Gregory, Beale Russell. Human Computer Interaction, 3rd Edition, Pearson Education, 2004 (Unit 1(Chap1,2,3), Unit 4(Chap 5,6,7,10), Unit 5(Chap 19,20,21))

MacKenzie, I. Scott. *Human-computer interaction: An empirical research perspective*. Newnes, 2013. Elsevier. (Unit 5(Chap 7).

Preece Jenny. Rogers Yvonne. Interaction design beyond human-computer interaction, John Wiley & Sons, 2<sup>nd</sup> Edition 2002 (Unit 1(Chap1), Unit 2(Chap 3,4,5), Unit 3(Chap12,13), Unit 4(Chap 9))

## **BOOKS FOR REFERENCE**

Cooper Alan. Riemann Robert. Cronin David. Essentials of Interaction Design, Wiley India

Hourcade, J. P. (2008). *Interaction Design and Children*. Now Publishers.

Lauesen Soren. User Interface Design. Pearson Education Asia, 4<sup>th</sup> Edition.

O. Galitz, Wilbert. The Essential Guide to User Interface Design. Wiley India, 3<sup>rd</sup> Edition

Pullin, G. (2009). *Design Meets Disability*. Cambridge, MA: MIT Press.

Rogers Preece. Sharps Interaction Design. Wiley India, 3<sup>rd</sup> Edition.

Schiffman, Leon G, Wisenblitt, Joseph, Kuman S Ramesh. *Consumer behaviour*. Chennai. Pearson Education, Inc. 2015.

Sears, A., & Jacko, Julie. A (2008) *The Human- Computer Interaction Handbook*, New York. Taylor and Francis Group.

Sears, A., & Jacko, Julie. A (2009) *The Human- Computer Interaction- Interaction Designs and Usability*, , Boca Raton, FL: CRC Press.

Shneidermann Ben. Designing the user interfaces. Pearson Education Asia, 3<sup>rd</sup> Edition.

## **WEB RESOURCES**

<http://www.hcibook.com/e3/online/>

[http://teaching.paulos.net/cs160\\_FL2018/syllabus.html](http://teaching.paulos.net/cs160_FL2018/syllabus.html)

<http://www.it.bton.ac.uk/staff/rng/teaching/CS221/CS221syllabus.html>

<https://course.ccs.neu.edu/is4300f15/schedule.htm>

<https://graphics.tu-bs.de/teaching/ss17/AHCI>

## **CASE STUDY**

<http://reports-archive.adm.cs.cmu.edu/anon/2000/CMU-CS-00-132.pdf>

<https://medium.com/mlreview/case-study-sign-to-speech-converter-facilitated-wireless-communication-358b3914d398>

<http://campar.in.tum.de/pub/bigdelou2012m2cai/bigdelou2012m2cai.slides.pdf>



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration:1 1/2 hours**

Section A -  $3 \times 2 = 6$  (3 out of 5)

Section B -  $3 \times 8 = 24$  (3 out of 5)

Section C -  $1 \times 20 = 20$  (1 out of 2)

### **Other Components:**

**Total Marks: 50**

Assignment/Seminars/Quiz/Open book tests/Case Studies

### **End-Semester Examination:**

**Total Marks: 100**

**Duration:3 hours**

**Section A** –  $10 \times 2 = 20$

**Section B** -  $8 \times 5 = 40$  marks (8 out of 10)

**Section C** -  $2 \times 20 = 40$  marks (2 out of 4)

**STELLA MARIS COLLEGE (AUTONOMOUS) – CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SECURITY CONCEPTS**

**CODE: 19CS/MC/SC65**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To learn about the models and standards for security
- To find the vulnerabilities in programs and to overcome them
- To know the different kinds of security threats in networks and the solutions available
- To know the different kinds of security threats in databases and the solutions available
- To understand the basics of cryptography

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Get the knowledge about the security services available for internet and web applications
- Understand data vulnerability and SQL injection
- Gain the knowledge of security models and published standards
- Apply cryptographic algorithms for encryption and decryption for secure data transmission
- Understand the program threats and follow good programming practices

**Unit 1 (10 Hours)**

**1.1 Computer security overview**

Computer security concepts -The OSI security architecture -Security attacks- Security services -Security mechanisms- A Model for network security.

**1.2 Physical security**

Classification of assets- Choosing site location for security- Securing assets: Locks and entry controls- Physical intrusion detection- Compliance with standards.

**1.3 Access Control**

Access Control Techniques- Authentication Tokens-Authentication-Role of Tokens- Access Control Administration -Accountability

**Unit 2 (10 Hours)**

**2.1 Computer Security**

Operating System Models- Classic security model- Reference monitor

**Case studies** UNIX security-Windows security -Securing infrastructure services-Virtual Machines and cloud computing- Securing mobile devices

**2.2 Network Security**

Securing network design-Introduction to secure network design Network Device Security-Switch and router basics -Network hardening.

**2.3 Firewall**

Overview- Core firewall functions- Additional firewall capabilities -Firewall design

**Unit 3 (15 Hours)**

**3.1 VPN**

How a VPN works-VPN protocols- Remote access VPN security-Site-to-Site VPN security

**3.2 Wireless network security**

Radio frequency security basics-Data-link layer Wireless security features, flaws, and threats-Wireless vulnerabilities and mitigations-Wireless network hardening practices and recommendations

**3.3 VOIP**

Background -VoIP components-VoIP vulnerabilities and countermeasures

**3.4 IDS and Prevention System**

IDS concepts- IDS types and detection models-IDS features - IDS deployment considerations

**Unit 4 (15 Hours)**

**4.1 Securing unstructured Data**

Structured data vs. unstructured data -At rest, in transit, and in use -Approaches to securing unstructured data- Newer approaches to securing unstructured data

**4.2 Storage Security**

Storage security evolution- Modern storage security.

**4.3 Database Security**

General database security concepts-Understanding database security layers- Understanding database-level security- Using other database objects for security Database backup and recovery-Database auditing and monitoring.

**Unit 5 (15 Hours)**

**5.1 User Security**

Authentication –Authorization- Compliance with standards.

**5.2 Application Security**

Secure development life cycle- Application security practices-Web application security- Client application security- Remote administration security

**5.3 Classical Encryption Techniques**

Symmetric cipher model- Substitution techniques-Transposition techniques-Rotor machines- Steganography

**BOOKS FOR STUDY**

Harold F. Tipton, Micki Krause, Information Security Management Handbook 6<sup>th</sup> Edition (unit 1.3 chap -10,11)

Rhodes Mark. Ousley. Information Security: The Complete Reference. McGraw Hill, 2<sup>nd</sup> Edition, 2013(Unit 1.2 (Chap 34) Unit 2(Chap-13, 14, 15, 20-25), Unit 3(Chap 16,17,18,19), Unit 4(Chap 11,12), Unit 5.1 (Chap-7) ,5.2(Chap 26)

Stallings William. Cryptography and Network Security: Principles and Practices. Prentice Hall, 5<sup>th</sup> Edition, 2010. (Unit1.1(Chap 1), Unit 5.3(Chap 2))

## BOOKS FOR REFERENCE

Information Security Handbook for Network Beginners. National Center of Incident Readiness and Strategy for Cybersecurity (NISC), The Government of JAPAN, Ver 2.11e  
Lawrence C. Miller Cyber security for dummies. CISSP  
Michael E. Whitman and Herbert J. Mattord. Principles of Information Security. 4th ed.  
P. Pfleeger Charles. Pfleeger Shari Lawrence. Security in Computing. Pearson, 4<sup>th</sup> Edition, 2007  
Whitman Michael. J. Mattord Herbert. Management of Information Security. Course Technology, 3<sup>rd</sup> Edition, 2010.

## WEB RESOURCE

[www.cas.mcmaster.ca/khedri/wp-content/uploads/COURSES/3A04/Tutorial04.pdf](http://www.cas.mcmaster.ca/khedri/wp-content/uploads/COURSES/3A04/Tutorial04.pdf)  
<https://www.slideshare.net/gurya87/understanding-security-basics-a-tutorial-on-security-concepts-and-technology>  
<https://training.apnic.net/wp-content/uploads/sites/2/2016/12/TSEC01.pdf>  
<https://www.wisdomjobs.com/e-university/network-security-tutorial-449.html>  
<https://www.geeksforgeeks.org/computer-network-tutorials/>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)  
(5 Multiple choice questions and 5 Fill in the Blanks)  
Section B -  $5 \times 2 = 10$  marks (Answer all the questions)  
Section C -  $4 \times 5 = 20$  marks (4 out of 5)  
Section D -  $1 \times 10 = 10$  marks (1 out of 2)

**Other Components:                      Total Marks: 50**  
Quiz/Assignment /Seminar/Group Discussion/Case Studies

**End Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)  
(10 Multiple choice questions and 10 Fill-in the Blanks)  
Section B -  $5 \times 2 = 10$  marks (Answer all the questions)  
Section C -  $8 \times 5 = 40$  marks (8 out of 10)  
Section D -  $3 \times 10 = 30$  marks (3 out of 5)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CLOUD COMPUTING**

**CODE:19CS/MC/CC65**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To introduce the concept of Cloud Computing, Parallel and Distributed Computing
- To enable students to learn about Virtualization and the Cloud Architecture
- To give a detailed overview on Resource Pooling, Scaling, Capacity Planning and Load Balancing in the Cloud
- To familiarize concepts on Cloud Security, Service Oriented Architecture (SOA) and Cloud-based Storage
- To give a better understanding on the above said concepts through case studies on various cloud platforms

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Gain insights about cloud, parallel and distributed computing
- Define virtualization and the architecture of cloud computing
- Understand the need for resource pooling, scaling, capacity planning and load balancing along with their roles in the cloud
- Interpret on securing and storing data over the cloud
- Build a simple application and host it using cloud

**Unit 1**

**(15 Hours)**

**1.1 Introduction**

Cloud Computing at a Glance – The Vision of Cloud Computing - Defining a Cloud - A Closer Look – The Cloud Computing Reference Model - Characteristics and Benefits - Challenges Ahead – Historical Developments - Distributed Systems - Virtualization - Web 2.0 - Service-oriented Computing - Utility-oriented Computing - Building Cloud Computing Environments - Application Development – Infrastructure and System Development – Computing Platforms and Technologies

**1.2 Principles of Parallel and Distributed Computing**

Eras of Computing - Parallel vs. Distributed Computing – Elements of Parallel Computing - Elements of Distributed Computing – Technologies for Distributed Computing

**Unit 2 (15 Hours)**

**2.1 Virtualization**

Introduction – Characteristics of Virtualized Environments – Taxonomy of Virtualization Techniques – Virtualization and Cloud Computing - Pros and Cons of Virtualization

**2.2 Cloud Computing Architecture**

Introduction – The Cloud Reference Model – Types of Clouds – Economics of the Cloud – Open Challenges

**2.3 Practical Demonstration**

Virtualization in Cloud - Infrastructure as a Service - Software as a Service

**Unit 3 (20 Hours)**

**3.1 Resource Pooling, Sharing and Provisioning**

Resource Pooling - Commoditization of the Data Center - Standardization, Automation and Optimization – Resource Sharing – Resource Provisioning

**3.2 Scaling in the Cloud**

What is Scaling – Scaling in Traditional Computing – Scaling in Cloud Computing – Foundation of Cloud Scaling – Scalable Application – Scaling Strategies in Cloud – Auto Scaling in Cloud – Types of Scaling – Horizontal Scaling is more Cloud-Native Approach – Performance and Scalability – The Resource Contention Problem – Cloud Bursting: a scenario of flexible scaling – Scalability is a business concern

**3.3 Capacity Planning**

What is Capacity Planning – Capacity Planning in Computing- Capacity Planning in Cloud Computing - Cloud Capacity: Consumers' View vs. Providers' View – Capacity Planning Then and Now – Approaches for Maintaining Sufficient Capacity – Role of Auto-Scaling in Capacity Planning - Capacity and Performance: Two Important System Attributes – Steps for Capacity Planning

**3.4 Load Balancing**

Load Balancing – Importance of Load Balancing in Cloud Computing – How Load Balancing is done in Cloud – Goals of Load Balancing – Categories of Load Balancing – Parameters for Consideration – Load Balancing Algorithms – The Persistence Issue – Application Delivery Controller

**Unit 4 (18 Hours)**

**4.1 Understanding Cloud Security**

Securing the Cloud – Securing Data – Establishing Identity and Presence

**4.2 SOA and Moving Applications to the Cloud**

Introducing Service Oriented Architecture – Defining SOA Communications - Applications in the Clouds – Applications and Cloud APIs

**4.3 Working with Cloud-based Storage**

Measuring the Digital Universe – Provisioning Cloud Storage – Exploring Cloud Backup Solutions – Cloud Storage Interoperability

**Unit 5 (10 Hours)**

**5.1 Case Studies**

Google Web Service – Amazon Web Service – Microsoft Cloud Service

## BOOKS FOR STUDY

Bhowmik, Sandeep. *Cloud Computing*. Cambridge University Press, 2017.. (Unit 3)

Buyya, Rajkumar, Christian Vecchiola, and S. Thamarai Selvi. *Mastering cloud computing: foundations and applications programming*. Elsevier, 2013. (Units 1 & 2)

Sosinsky, Barrie. *Cloud Computing Bible*. John Wiley & Sons, 2011. (Units 4 & 5)

## BOOKS FOR REFERENCE

Kavis, Michael J. "Architecting the cloud: design decisions for cloud computing service models

Marinescu, Dan C. *Cloud computing: theory and practice*. Morgan Kaufmann, 2017 (SaaS, PaaS, and IaaS)." *Hoboken, NJ: Wiley*.(2014)

## WEB RESOURCES

<https://aws.amazon.com/what-is-cloud-computing/>

<https://azure.microsoft.com/en-in/overview/what-is-cloud-computing/>

<https://www.salesforce.com/what-is-cloud-computing/>

<https://cloud.google.com/docs/>

<https://www.ibm.com/cloud/learn/what-is-cloud-computing>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

**Section A** -  $10 \times 1 = 10$  marks (Answer all the questions)  
(5 Multiple choice questions and 5 Fill in the Blanks)

**Section B** -  $5 \times 2 = 10$  marks (Answer all the questions)

**Section C** -  $4 \times 5 = 20$  marks (4 out of 5)

**Section D** -  $1 \times 10 = 10$  marks (1 out of 2)

**Other Components:** **Total Marks: 50**

Component 1 – Unit 5.1

Component 2 – Hosting a simple application in Cloud

**End-Semester Examination:** **Total Marks : 100** **Duration : 3 hours**

**Section A** -  $20 \times 1 = 20$  marks (Answer all the questions)  
(10 Multiple choice questions and 10 Fill-in the Blanks)

**Section B** -  $5 \times 2 = 10$  marks (Answer all the questions)

**Section C** -  $8 \times 5 = 40$  marks (8 out of 10)

**Section D** -  $3 \times 10 = 30$  marks (3 out of 5)

(Units 2.3 and 5.1 – Not included for End Semester Examinations)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 86**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT**

**CODE:19CS/MC/PR64**

**CREDITS:4**

**OBJECTIVES OF THE COURSE**

- To help students to apply the concepts learnt throughout the course and develop an application
- To enable the students to understand and analyse the requirements and deliver the product on time

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Analyse the feasibility and understand the requirements of the client
- Build Applications as desired by the client
- Apply their creativity and design knowledge gained
- Generate all required reports

**GUIDELINES**

One of the important stipulations regarding project for B.C.A. is that it should be in the area of Computer Science/ Computer Applications. Students are required to develop an application to suit the research/business needs.

The Dissertation must include the following. These are general guidelines which may differ slightly as per the demand of the study topic.

***Introduction***

- Existing System
- Proposed System
- Creating a set of Design principles to implement the proposed system

***System Analysis***

- Development Environment
- Requirement Specification
- Software Requirements Specification

***System Design***

- Logical Design of the System
- Database Design
- Screen Design
- Report Design



### ***Implementation***

- Database creation
- Coding

### ***Code Review and Testing***

- Code Review
- Testing Process
  - Front-end Validation
  - Back-end Validation

### ***Deployment***

### ***Conclusion***

- Conclusion and scope for future enhancement

### ***Bibliography***

### ***Appendix***

## **PATTERN OF ASSESSMENT**

### **Internal Assessment – 50 marks**

Based on the criteria listed below, internal marks will be awarded.

1. Timely completion of assigned tasks
2. Individual involvement and team work
3. Quality of the application and documentation (Design, Workflow, Testing, Precision, Relevance)
4. Achievement of project deliverables
5. Presentation of completed work
6. Viva-Voce

### **End Semester Examination – 100 marks**

Project Document must be submitted at the end of the semester. The student must present the completed project work. A viva-voce based on the work will also be conducted.

Mark will be allotted based on the following criteria which may differ slightly as per the demand of the domain and converted to 50 marks

Requirement Analysis	– 10 marks
Database Design	– 10 marks
Screen Design	– 10 marks
Coding	– 10 marks
Validation	– 10 marks
Testing	– 10 marks
Reports	– 5 marks
Documentation	– 20 marks
Special Features	– 5 marks
Viva – Voce	– 10 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**ADVANCED JAVA PROGRAMMING**

**CODE: 19CS/ME/AJ45**

**CREDITS: 5**

**L T P:3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To understand XML basics
- To develop applications with a backend
- To enable the students to create window based applications using JavaFX
- To design user interface using CSS
- To acquire knowledge on simple animation techniques in JavaFX
- To understand concepts behind the terms - HTTP, Request, Response, Client, Server, Get, Post, Web Server, Web Container, Session and Cookies
- To develop web based applications using Servlets and JSP

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate the purpose of XML documents; actively use the terminology of XML markup documents
- Implement Console based application and JDBC to communicate with database
- Create a window based application using JavaFX and the styling using CSS
- Create simple animation using JavaFX
- Comprehend the web application terminology and concepts
- Develop web applications using Servlets and JSP

**Unit 1 (10 Hours)**

**1.1 Basics of XML**

Need for XML - Well Formed XML Documents - Validating an XML Document using XML Schema

**1.2 Database Connectivity**

JDBC Database Connectivity - Types of JDBC drivers - Establishing a Connection - Executing Statements - Prepared statements - Callable statements - Mapping SQL types to Java- ResultSetMetadata

**Unit 2 (19 Hours)**

**2.1 JavaFX Basics**

What is JavaFX - JavaFX Application Life Cycle, Defining the Main Window by using the Stage class, Key JavaFX packages

**2.2 Scene Graph**

Using and Integrating Scene graph in JavaFX Application - Scene Class - Event

Handling - Node Types - Primitive Nodes, LayoutPanels, Complex Nodes - Node Basics - Image and ImageView

### **2.3 Layouts and JavaFX Basic Controls**

HBox - VBox - StackPane - FlowPane - GridPane - BorderPane

Control Class - Basic Controls - Labeled Controls, Controls for Text Input, ProgressIndicator and ProgressBar - Tooltip of a Control - Menus - ToolBar - Separators

## **Unit 3 (17 Hours)**

### **3.1 Additional JavaFX Controls**

Controls with a Data Model - ComboBox, ListView, TableView, TreeView - Controls that act as Containers - Canvas

### **3.2 Styling a Control**

CSS Basics - CSS in JavaFX - Using Selectors

### **3.3 Basic Animation using JavaFX**

javafx.animation package - TranslateTransition, RotateTransition, ScaleTransition, FadeTransition, SequentialTransition, ParallelTransition

## **Unit 4 (19 Hours)**

### **4.1 Introduction to HTTP**

HTTP Protocol - HTTP Request, Get, Post, HTTP Response, HTTP Response codes - Client side and Server side programming

### **4.2 Web Applications**

Web Applications and Web Containers - Web components - Web Application Life Cycle - Creating, Building and Deploying - Web Archive Structure

### **4.3 Servlet Technology**

Need for Servlets - Characteristics of Servlets - Comparison between Servlets and other Server side scripting languages - Working of Servlet - javax.servlet package - Life Cycle of Servlet - Session - Interservlet communication - Request Dispatcher Interface

## **Unit 5 (13 Hours)**

### **5.1 Java Server Pages**

Introduction - Comparison between JSP and Servlets - Life Cycle - Structure - Components - JSP Tags - JSP Session - Cookie - Static content- Dynamic content - Scripting Elements

## **BOOKS FOR STUDY**

Ebbers, Hendrik. "Mastering JavaFX 8 Controls: Create Custom JavaFX Controls for Cross-Platform Applications." (2014).

Schildt, Herbert. *The Complete Reference - Java*. 10th ed. Mc Graw Hill, 2017.

## **BOOKS FOR REFERENCE**

Hall, Marty and Larry Brown. *Core Servlets and JavaServer Pages: Advanced Technologies*. 2nd ed. Prentice Hall, 2007.

Phillip, Hanna. *JSP 2.0: The Complete Reference*, Second Edition, 2017.

## WEB RESOURCES

<https://www.w3schools.com/xml/default.asp>

<https://docs.oracle.com/javase/8/javafx/api/javafx/animation/package-summary.html>

<https://docs.oracle.com/javase/8/javafx/get-started-tutorial/index.html>

<https://docs.oracle.com/javase/8/javafx/api/javafx/scene/doc-files/cssref.html>

## PATTERN OF ASSESSMENT

### Continuous Assessment Test:

**Total Marks – 50 [Theory: 25 marks Practical: 25 marks]      Duration: 90 minutes**

Section A- 10 x 1= 10 marks (Answer all the Questions)

(5 Multiple choice questions and 5 Fill-in the Blanks)

Section B - 3 × 5 =15 marks (3 out of 4)

**Other Components:              Total Marks:50**

Seminars / Quiz /Open book tests/Assignments /Code Reading

**End Semester Examination:              Total Marks: 100**

**Theory - 50 marks**

**Duration: 90 minutes**

**Project - 50 marks (Demonstration and Viva)**

Section A-10 x 1 = 10 (Answer all the Questions)

(5 Multiple choice questions and 5 Fill-in the Blanks)

Section B - 5 × 2 = 10 (Answer all the Questions)

(1 question from each unit)

Section C - 6 ×5 = 30 (6 out of 8)

(atleast 1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**VISUAL PROGRAMMING**

**CODE:19CS/ME/VP45**

**CREDITS:5**

**L T P:3 0 3**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To introduce students about .NET Framework and Windows Application
- To enable the students to create windows forms and events
- To introduce students about presentation controls and namespaces
- To augment the knowledge on data Access with ADO.NET
- To introduce students about web application and state management
- To create simple animations
- To introduce students to XML, LINQ and AJAX

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend .NET Framework and Windows Application
- Know about presentation controls and namespaces
- Connect with backend using ADO.NET
- Get the knowledge about web application and state management
- Gain knowledge on connecting XML, LINQ and AJAX

**Unit 1**

**(15 Hours)**

**1.1 Overview of .NET Framework:**

CLR-CTS- Metadata and Assemblies-.NET Framework Class Library – BCL- Windows Forms – ASP.NET and ASP.NET AJAX-ADO.NET – Tools in the .NET Framework- New Features of .NET Framework: Portable Class Libraries.

**1.2 Introducing Windows Application**

Introduction – Creating WindowsForms- Customizing a Form

**1.3 Collecting User Input in windows Forms and Events**

Buttons-Text Boxes- Check Boxes- Radio Buttons –Combo Boxes –Date and Time Picker – Calendar-List Boxes –Checked List Box –List View – Tree View.

**Unit 2 (15 Hours)**

**2.1 Presentation and Informational Controls in Windows Forms and Events**

Labeling- Link Label- Status Bar- Picture Box-Image List-Progress Bar-Tool Tip – MDI and Menus Creation

**2.2 Data Types in C#**

Type Conversions – Boxing and Unboxing

**2.3 Namespaces**

Introduction – Adding a reference to the Namespace – Accessing a predefined Namespace through the using Directive

**2.4 Introducing to ADO.net**

Understanding ADO.NET- Creating Connection Strings –Creating a Connection to a Database- Creating a Command Object- Working with DataAdapters –Using DataReader work with Database.

**Unit 3 (16 Hours)**

**3.1 ASP.NET**

Life cycle- Specifying a Location for a Web Application -Single-File Page Model - Code-Behind Page Model- Adding controls to web form.

**3.2 Web Server Controls**

The Control Class - The WebControl Class - The Button Control - The TextBox Control -The Label Control - The HyperLink Control -The LinkButton Control -The Placeholder Control -The HiddenField Control - The CheckBox Control -The RadioButton Control -The ListBox Control -The DropDownList Control -The Image Control -The ImageButton Control - The Table Control - Menus - Validation Server Controls - Master Page - Web.Config.

**Unit 4 (16 Hours)**

**4.1 State Management**

Understanding the session object Sessions and the Event Model, Configuring, In-Process Session State, Out-of-Process Session state Application Object, Query strings, Cookies, ViewState, Global.asax.

**4.2 XML and .NET**

Basics of XML, Create XML Document - Reading XML with XmlReader - Reading XML with XmlDocument - Working with XmlNode

**4.3 Animations**

Understanding WPF's Animation services – The Role of the Animation class types- The To, From and by properties – The Role of the Timeline Base Class – Authoring and Animation in C# Code – Controlling the pace of an animation – Reversing and Looping an Animation – The Role of StoryBoards

**Unit 5 (16 Hours)**

**5.1 LINQ**

Introducing LINQ Queries- Standard Query Operators- Introducing LINQ to Dataset, SQL and XML- The LinqDataSource Control. Data Binding – Grid View, Details view, Forms view

**5.2 ASP. NET AJAX**

Understanding the need for AJAX, Building a simple ASP.NET page without AJAX, Building a simple ASP.NET page with AJAX

## BOOKS FOR STUDY

*C# 2012 Programming Covers .NET 4.5 Black Book*. Dreamtech press, Kogent Learning Solutions, 2013.(Unit 1.1,Unit 2.2,Unit 2.3,Unit 2.4, Unit 3,Unit 4, Unit 5)

Liberty, Jesse, and Dan Hurwitz. *Programming. NET Windows Applications*. " O'Reilly Media, Inc.", 2004. (Unit 1.2,1.3, 2.1)

Troelsen, Andrew, and Philip Japikse, *C# 6.0 and the .NET 4.6 Framework*. Apress, 2015. (Unit 4.3)

## BOOKS FOR REFERENCE

Albahan Joseph, and Ben Albahari. *C# 5.0 in a NutShell: The Definitive Reference*. "Orielly Media Inc", 2012

Anne Boehm . Joel. *Murach's C# 2015. United States of America*: Murach's,2016.

Delamater. Mary. Anne Boehm. *ASP.NET 4.5 Web Programming with C# 2012. United States of America*: Murach's, 2013.

John Sharp. *Microsoft Visual C# Step by Step. United States of America*: Pearson Edition, 2018.

Price, Jason, and Mike Gunderlov. *Mastering Visual C#.Net*. John Wiley & Sons, 2006

## WEB RESOURCES

<https://msdn.microsoft.com/en-us/library/aa288436%28v=vs.71%29.aspx>

<http://www.w3schools.com/aspnet/aspnet.asp>

<http://csharp.net-tutorials.com/xml/introduction/>

<http://ajax.net-tutorials.com/basics/introduction/>

<http://www.c-sharpcorner.com/>

## PATTERN OF ASSESSMENT

### Continuous Assessment Test:

**Theory- 25 marks**

**Practical: 25 marks**

**Duration: 90 minutes**

### Theory Pattern

Section A- 10 x 1= 10 marks (Answer all the Questions)

(5 Multiple choice questions and 5 Fill-in the Blanks)

Section B - 3 × 5 =15 marks (3 out of 4)

### Other Components:

**Total Marks:50**

Seminars / Quiz/Open book tests/Assignments /Code Reading / Case Study

**End Semester Examination: Total Marks: 100**

**Theory - 50 marks**

**Duration: 90 minutes**

### Project - 50 marks (Demonstration and Viva)

Section A-10 x 1 = 10 (Answer all the Questions)

(5 Multiple choice questions and 5 Fill-in the Blanks)

Section B - 5 × 2 = 10 (Answer all the Questions) (1 question from each unit)

Section C - 6 ×5 = 30 (6 out of 8) (atleast 1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**GAME PROGRAMMING**

**CODE: 19CS/ME/GP45**

**CREDITS:5**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To understand the concepts of Game design and development using Flash and ActionScript
- To enable the learning processes, mechanics and issues in Game Design
- To enable the students to create characters and control their movement
- To detect and avoid the collision
- To understand the natural motion using physics concepts
- To enable the students to develop games

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the learning processes, mechanics and issues in Game Designing
- Create different characters and control their movements
- Detect and avoid collision
- Understand and apply the natural motion
- Develop a game with different levels

**Unit 1 (15 Hours)**

**1.1 Programming Foundations - How to Make a Video Game**

Laying the foundation - Writing your first program - Publishing the SWF file

**1.2 Making Objects**

Understanding Interactive Objects - Drawing the first page - Creating a Character, using Buttons

**Unit 2 (16 Hours)**

**2.1 Programming Objects**

Displaying the First Page of the Storybook - Programming Buttons - Understanding - Events and Event listeners - Programming Storybook Buttons

**2.2 Controlling Movie Clip Objects**

Movie Clip Properties - Controlling Movie Clip Timelines

**Unit 3 (16 Hours)**

**3.1 Decision Making**

Designing a GUI - Building a Simple Guessing Game - Learning more about Variables, Making Decisions, Polishing up

**3.2 Controlling a Player Character**

Controlling a Player Character with the Keyboard - Setting Screen Boundaries – Scrolling



**Unit 4 (18 Hours)**

**4.1 Bumping into Things**

Changing a Dynamic Text Field - Triggering a Change of State - Reducing a Health Meter - Updating a Score - Picking up and Dropping Objects – Drawbacks of hitTestObject - Using hitTestPoint - Creating Objects with Block Movement – Working with Axis - Based Collision Detection

**4.2 Object-Oriented Game Design**

Introducing Object-Oriented Programming

**Unit 5 (13 Hours)**

**5.1 Platform Game - Physics and Data Management**

Natural Motion using Physics

**BOOKS FOR STUDY**

Rex van der Spuy. *Foundation Game Design with Flash*. Apress, 2009.

**BOOKS FOR REFERENCE**

Peters, Keith. *Foundation Action Script 3.0 Animation: Making Things Move!*. Apress, 2007.

**WEB RESOURCES**

[www.makeflashgames.com/](http://www.makeflashgames.com/)

[www.kongregate.com/labs](http://www.kongregate.com/labs)

[www.asgamer.com/](http://www.asgamer.com/)

[www.as3gametuts.com/](http://www.as3gametuts.com/)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Practical

**Other Components:**

**Total Marks: 50**

Story board for a game with background, Character formation and animation using movie clips, Implementing concepts of player movement and gravity/ Case Study

**End Semester Examination:**

**Total Marks:100**

Game Development – Demonstration and Viva

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**INTELLIGENT SYSTEMS**

**CODE: 19CS/ME/IS45**

**CREDITS: 5**

**LTP: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce the concept of artificial intelligence and expert systems
- To enable students to understand and manage the uncertainties
- To understand fuzzy and frame based systems
- To equip the students with knowledge on artificial neural network and evolutionary computation
- To detail about neural based systems and knowledge engineering
- To comprehend knowledge engineering and data mining

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand about the premise of artificial intelligence
- Learn about the uncertainties and its management in rule-based systems
- Know extensively about fuzzy and frame-based systems
- Interpret about neural networks and evolutionary computation through case studies on maintenance scheduling with genetic algorithms
- Interpret on securing and storing data over the cloud
- Relate with concepts on hybrid intelligent systems, knowledge engineering and data mining through case studies

**Unit 1**

**(14 Hours)**

**1.1 Introduction to Knowledge Based IS**

Introduction to AI – The Foundation of AI - State of Art - Intelligent machines, or what machines can do- The History of Artificial Intelligence, or from the ‘Dark Ages’ to Knowledge-Based Systems.

**1.2 Rule Based Expert Systems**

Introduction - Rules as a Knowledge Representation Technique - The Main Players in the Expert System Development Team - Structure of a Rule-Based Expert System - Fundamental Characteristics of an Expert System - Forward Chaining and Backward Chaining Inference Techniques -Media Advisor: A Demonstration Rule-Based Expert System – Advantages and Disadvantages of Rule Based Expert Systems.

**Unit 2 (14 Hours)**

**2.1 Uncertainty Management in Rule- Based Expert Systems**

Introduction or What is Uncertainty? - Basic Probability Theory - Bayesian Reasoning - FORECAST: Bayesian Accumulation of Evidence - Bias of the Bayesian Method - Certainty Factors Theory and Evidential Reasoning - FORECAST: An Application of Certainty Factors - Comparison of Bayesian Reasoning and Certainty Factors.

**Unit 3 (15 Hours)**

**3.1 Fuzzy Expert Systems**

Introduction to Fuzzy Thinking - Fuzzy Sets - Linguistic Variables and Hedges - Linguistic Variables and Hedges - Fuzzy Rules - Fuzzy Inference - Building A Fuzzy Expert System.

**3.2 Frame –Based Expert Systems**

Introduction - Frame-Based Expert Systems - Frames as A Knowledge Representation Technique - Inheritance in Frame-Based Systems - Methods and Demons - Interaction of Frames and Rules - Buy Smart: A Frame-Based Expert System.

**Unit 4 (17 Hours)**

**4.1 Artificial Neural Networks**

Introduction on How Brain Works - The Neuron as a Simple Computing Element - The Perceptron - Multilayer Neural Networks - Accelerated Learning in Multilayer Neural Networks - The Hopfield Network - Bidirectional Associative Memory - Self-Organising Neural Networks.

**4.2 Evolutionary Computation**

Introduction to Evolutionary Computation - Simulation of Natural Evolution - Genetic Algorithms - Genetic Algorithms Work Mechanisms - Case Study: Maintenance Scheduling with Genetic Algorithms - Evolution Strategies.

**Unit 5 (18 Hours)**

**5.1 Hybrid intelligent systems**

Introduction – Neural Expert Systems - Neuro-Fuzzy Systems - ANFIS: Adaptive Neuro-Fuzzy Inference System – Evolutionary Neural Networks – Fuzzy Evolutionary Systems

**5.2 Knowledge Engineering and Data Mining**

Introduction to Knowledge Engineering – Data Mining and Knowledge Discovery - Case Studies for Dealing Real Time Problems Using Expert System - Fuzzy Expert System - Fuzzy Expert System, Genetic Algorithms and Hybrid Intelligent System.

**BOOKS FOR STUDY**

Negnevitsky, Michael. Artificial intelligence: a guide to intelligent systems. Pearson Education, 2005.

**BOOKS FOR REFERENCE**

Russell, Stuart J., and Peter Norvig. Artificial intelligence: a modern approach. Malaysia; Pearson Education Limited,, 2016.

Schalkoff, Robert J. Intelligent systems: principles, paradigms and pragmatics. Jones & Bartlett Publishers, 2011.

## WEB RESOURCES

[https://link.springer.com/chapter/10.1007/978-3-319-91189-2\\_30](https://link.springer.com/chapter/10.1007/978-3-319-91189-2_30)

<https://www.uu.nl/en/research/artificial-intelligence/intelligent-systems>

<https://pdfs.semanticscholar.org/c9eb/49cb2d09c8b103bf52572a1b0287137db8f4.pdf>

<https://towardsdatascience.com/how-to-design-an-artificial-intelligent-system-part-1-concept-development-cdbc8aee30d8>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:                      Total Marks:50                      Duration: 90 minutes.**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $4 \times 5 = 20$  marks (4 out of 5)

Section D -  $1 \times 10 = 10$  marks (1 out of 2)

**Other Components:                      Total Marks: 50**

Quiz/Assignment /Case Study/ Presentation

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

(1 question from each unit)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)

(2 questions from each unit)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)

(1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**INTERNET OF THINGS**

**CODE: 19CS/ME/IT45**

**CREDITS: 5**

**LTP: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce the concepts of Internet of Things (IoT)
- To know about the data and framework of IoT
- To understand the standards and protocols associated with IoT
- To learn how to develop an IoT application
- To define the concepts of reliability, security and privacy in IoT

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Define the fundamental concepts of IoT
- Understand the framework involved in IoT and its governance
- Realize the scope of different standards and protocols
- Practically know how an IoT application works
- Understand the perspective of having a reliable, secure IoT

**Unit 1**

**IoT Ecosystem Concepts and Architectures (14 Hours)**

1.1 Introduction – IoT definition and evolution – IoT Architectures - OpenIoT Architecture for IoT/Cloud Convergence - Resource Management – IoT Data Management and Analytics - Communication Protocols – Internet of Things applications.

1.2 Scheduling Process and IoT Services Lifecycle - IoT enabling technologies – IoT levels and Deployments templates – Introduction to M2M - Difference between IoT and M2M – SDN and NFV for IoT

**Unit 2**

**(14 Hours)**

**2.1 IoT Data and Framework Essentials**

Introduction - Programming framework for IoT– The foundation of Stream processing in IoT - Continuous Logic processing system – Challenges and Future directions – Anomaly detection – Problem statement and definitions – Efficient incremental local modelling – IoT Governance.

**Unit 3**

**(15 Hours)**

**3.1 RF Protocols**

RFID, NFC;IEEE 802.15.4: ZigBee - ZWAVE, THREAD - Bluetooth Low Energy (BLE) - IPv6 for Low Power and Lossy Networks (6LoWPAN) - Routing Protocol

for Low power and lossy networks (RPL) - CoAP - XMPP - Web Socket- AMQP – MQTT – WebRTC - PuSH Architectural Considerations in Smart Object Networking - TinyTO Protocol.

3.2 Introduction to IoT based applications – Scenarios – Architecture overview – Sensors – The gateway – Data Transmission – Internet of Vehicles (IoV) – IoV Characteristics, technologies and its application.

**Unit 4 (17 Hours)**

**4.1 Developing Internet of Things**

Introduction – IoT Design Methodology – Case study on IoT system for Weather monitoring – IoT Device - IoT physical devices and endpoints - Exemplary Device: Raspberry Pi - Linux on Raspberry Pi - Raspberry Pi interfaces – Programming Raspberry Pi and with python – Other IoT devices.

**Unit 5 (18 Hours)**

**5.1 IoT Reliability, Security and Privacy**

Introduction - Concepts - IoT Security Overview – Security Frameworks for IoT – Privacy in IoT networks – IoT characteristics and reliability issues - Addressing reliability – Error detections – Fault Preventions - Case studies illustrating IoT Design.

**BOOKS FOR STUDY**

Arshdeep Bahga, Vijay Madisetti, “Internet of Things, A Hands -on Approach”, 1st Edition 2015, University Press, ISBN: 978-81-7371- 954-7

Buyya, Rajkumar, and Amir Vahid Dastjerdi, eds. Internet of Things: Principles and paradigms. Elsevier, 2016.

Hersent, Olivier, David Boswarthick, and Omar Elloumi. The internet of things: Key applications and protocols. John Wiley & Sons, 2011.

**BOOKS FOR REFERENCE**

Bernd Scholz-Reiter, Florian Michahelles, “Architecting the Internet of Things”, ISBN 978-3-642-19156-5 e-ISBN 978-3-642-19157-2, Springer

Jan Holler, Vlasios Tsiatsis, Catherine Mulligan, Stefan Avesand, Stamatis Karnouskos, David Boyle, “From Machine-to-Machine to the Internet of Things: Introduction to a New Age of Intelligence”, 1st Edition, Academic Press, 2014.

Peter Waher, “Learning Internet of Things”, PACKT publishing, BIRMINGHAM – MUMBAI

**WEB RESOURCES**

<https://thingsee.com/blog/quality-hardware-list-for-your-iot-projects>.

<https://tools.ietf.org/html/rfc7452>.

<http://dret.net/lectures/iot-spring15/protocols>.

<http://iot.intersog.com/blog/overview-of-iot-development-standards-andframeworks>.

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes.**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)  
(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $4 \times 5 = 20$  marks (4 out of 5)

Section D -  $1 \times 10 = 10$  marks (1 out of 2)

**Other Components:                      Total Marks:50**

Quiz/Assignment/ Case Study/Developing an IoT Application

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)  
(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)  
(1 question from each unit)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)  
(2 questions from each unit)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)  
(1 question from each unit)

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**ALGORITHM DESIGN TECHNIQUES**

**CODE: 19CS/ME/AD45**

**CREDITS: 5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To be able to understand the various algorithm design techniques and strategies
- To be able to choose the right strategy for solving a problem
- To understand NP hard and NP complete problems
- To understand String Algorithms and its applications
- To be able to apply the knowledge gained to design their own algorithms

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate the various algorithm design techniques and strategies
- Comprehend the various problems and its solutions
- Comprehend NP hard and NP complete problems
- Apply string algorithms for solving other problems
- Design their own algorithms choosing the right strategy

**Unit 1**

**1.1 Divide and conquer**

**(16 Hours)**

General method - Finding the maximum and minimum, Strassen's matrix multiplication.

**1.2 Greedy method**

General method - Applications-Job sequencing with deadlines, 0/1 knapsack problem, Minimum cost spanning trees, Single source shortest path problem.

**Unit 2**

**2.1 Dynamic Programming**

**(16 Hours)**

General method – Multistage graphs – All Pairs Shortest Paths – Single Source Shortest Paths, Optimal binary search trees, 0/1 knapsack problem, Travelling sales person problem, Reliability design

**Unit 3**

**(15 Hours)**

**3.1 Backtracking**

General method -8-queen problem, sum of subsets problem, graph coloring, Hamiltonian cycles.



## Unit 4

(15 Hours)

### 4.1 Branch and Bound

Method – Travelling sales person problem, 0/1 knapsack problem- LC Branch and Bound solution, FIFO Branch and Bound solution

## Unit 5

(16 Hours)

### 5.1 NP-Hard and NP-Complete problems

Basic concepts, P and NP, non-deterministic algorithms, NP – Hard and Complete classes

### 5.2 String Algorithms

String Sorts – Tries – Substring search – Regular Expressions – Data Compression

## BOOKS FOR STUDY

Horowitz, Ellis, Sartaj Sahni, Sanguthevar Rajasekaran. *Fundamentals of Computer Algorithm*. Galgotia Publications Pvt Ltd.

Robert Sedgewick, and Kevin Wayne. *Algorithms*. 2011. Fourth Edition, Pearson Education

## BOOKS FOR REFERENCE

Aho, Alfred V., and John E. Hopcroft. *The design and analysis of computer algorithms*. Pearson Education India

Cormen, Thomas H., et al. "Introduction to algorithms second edition." *The Knuth-Morris-Pratt Algorithm*, year (2001).

Goodrich, Michael T., and Roberto Tamassia. *Algorithm design: foundation, analysis and internet examples*. John Wiley & Sons, 2006.

Lee, Richard Char-Tung, et al. *Introduction to the design and analysis of algorithms: a strategic approach*. McGraw-Hill, 2005.

## WEB RESOURCES

<https://algs4.cs.princeton.edu/50strings/>

<https://web.stanford.edu/class/cs97si/10-string-algorithms.pdf>

[https://www.tutorialspoint.com/design\\_and\\_analysis\\_of\\_algorithms/](https://www.tutorialspoint.com/design_and_analysis_of_algorithms/)

<https://www.geeksforgeeks.org/fundamentals-of-algorithms/>

## PATTERN OF EVALUATION

**Total Marks: 50**

**Duration: 90 minutes**

**Continuous Assessment Test:**

Section A -  $10 \times 1 = 10$  marks (Answer all the questions)

(5 Multiple choice questions and 5 Fill in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

Section C -  $4 \times 5 = 20$  marks (4 out of 5)

Section D -  $1 \times 10 = 10$  marks (1 out of 2)

**Other Components**

Quiz /Assignment/Seminar/Group Discussion/Problem solving/Algorithm Tracing

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A -  $20 \times 1 = 20$  marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  marks (Answer all the questions)

(1 question from each unit)

Section C -  $8 \times 5 = 40$  marks (8 out of 10)

(2 questions from each unit)

Section D -  $3 \times 10 = 30$  marks (3 out of 5)

(1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS  
SYLLABUS**

(Effective from the academic year 2019-2020)

**MOBILE APP DEVELOPMENT FOR ANDROID**

**CODE: 19CS/ME/MA45**

**CREDITS: 5**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the app development environment
- To help them understand effective User interface creation
- To train the students to develop a complete Mobile App
- To make them understand persistent storage
- To enable them to understand Location based services

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Write simple GUI applications
- Use built-in controls and components
- Understand activities, intents and fragments
- Work with the database to store data locally
- Understand advanced features of mobile application development

**Unit 1 (12 Hours)**

**1.1 Introduction to Mobile App**

Concept – Various App Development Platforms – Android - History, Versions - Overview of Android architecture - Android Stack - Linux, Dalvik Virtual Machine, Core Libraries, Application Framework, Applications - OS vs IOS

**1.2 Understanding an Android App**

Creating an Example Android Application - Anatomy of Android Application

**Unit 2 (20 Hours)**

**2.1 Activities, Intents, Fragments**

Activities and Activity Lifecycle - Activity state changes - Example, Saving and restoring UI state - Intents - Explicit and Implicit Intents, Example - Fragments- Creating, Adding and managing fragments, Handling Fragment events, Example

**2.2 Android User Interface**

Creating views and view groups - Layouts - Linear, Table, Relative, Absolute, Frame, Scroll view - Changing screen orientation - Creating GUI – button, text, checkbox, radio, Menus - Event Handling - ClickListener, FocusChangeListener, Touch Listener, MenuItemClickListener, LongClickListener

- Unit 3** (16 Hours)
- 3.1 Persistent Storage**  
Files – Using application specific folders and files, creating files, reading data from files, listing contents of a directory Shared Preferences – Creating shared preferences, saving and retrieving data using Shared Preference Database
- 3.2 Database Programming**  
SQLite - SQLite classes, Cursor, SQLite database, SQLite Queries – create, insert, select, update and delete - Connecting to a Remote database using MySQL/PHP
- Unit 4** (15 Hours)
- 4.1 Enhancing Android User Interface**  
Notification - Action Bar – Dialogs – Search - Styles and Themes – Defining, using Inheritance, Android themes, Default styles and themes, Android SMS – Deploying App in Play Store – Multilingual
- 4.2 Location Based Services**  
Using Location Manager, Location Provider - Using emulator with Location based services – Selecting a Location provider – Finding your current location – Best practice for location updates – Using proximity alerts – Using the Geocoder – Creating map based activities
- Unit 5** (15 Hours)
- 5.1 Advanced User Experience**  
Designing for every screen size and density – Ensuring Accessibility – Introducing Android Text-to-Speech – Using Speech recognition
- 5.2 Case Study**  
Case study on recent apps

Project - Developing an Android App

## BOOKS FOR STUDY

Deitel, Paul, Harvey Deitel and Abbey Deitel. *Android™ for Programmers: An App-Driven Approach*. 2nd ed. Prentice Hall, 2014.

Meier Reto. *Professional Android 4 Application Development*. Wiley India, (Wrox), 2012

Smyth, Neil. *Android App Development Essentials*. 1st ed. CreateSpace Independent Publishing Platform, 2014.

Wei, Jason. *Android database programming*. Packt, 2012.

## BOOKS FOR REFERENCE

Gargenta, Marko. *Learning Android*. O’Rielly, 2011.

Smith, Dave and Jeff Friesen. *Android Recipes: A Problem – Solution Approach*. 3rd ed. APress.

## WEB RESOURCES

<https://developer.android.com/training/index.html/>

<http://www.mkyong.com/tutorials/android-tutorial/>

[http://www.vogella.com/tutorials/AndroidSQLite/article.html#databasetutorial\\_database/](http://www.vogella.com/tutorials/AndroidSQLite/article.html#databasetutorial_database/)

[http://www.tutorialspoint.com/android/android\\_php\\_mysql.htm/](http://www.tutorialspoint.com/android/android_php_mysql.htm/)

## PATTERN OF ASSESSMENT

### Continuous Assessment Test:

#### Theory Pattern

**Section A-**  $10 \times 1 = 10$  marks (Answer all the Questions)

(5 Multiple choice questions and 5 Fill-in the Blanks)

**Section B -**  $3 \times 5 = 15$  marks (3 out of 4)

**Theory- 25 marks**

**Practical: 25 marks**

**Duration: 90 minutes**

#### List of Other Components

Seminars / Quiz /Open book tests/Assignments/Code Reading

### End Semester Examination: Total Marks: 100

**Theory - 50 marks**

**Duration: 90 minutes**

#### Project - 50 marks (Demonstration and Viva)

Section A- $10 \times 1 = 10$  (Answer all the Questions)

(5 Multiple choice questions and 5 Fill-in the Blanks)

Section B -  $5 \times 2 = 10$  (Answer all the Questions)

(1 question from each unit)

Section C -  $6 \times 5 = 30$  (6 out of 8)

(atleast 1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of Computer Science to  
B.A. / B.Sc. / B.Com. / B.B.A / B.S.W. Degree**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**COMPUTER FUNDAMENTALS**

**CODE:19CS/GE/CF22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To expose the students to various functional units of a computer
- To give hands-on experience on assembling a personal computer
- To understand the post assembly operations
- To modify the basic settings of a computer
- To expose students to various web tools

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the various functional units of a computer
- Assemble a personal computer
- Work on post assembly operations
- Modify the basic settings of a computer
- Decide on the essentials they require while purchasing a computer
- Work with various web tools

**Unit 1 (10 Hours)**

**1.1 Computer System Hardware**

Introduction - Inside a Computer Cabinet - Motherboard, BIOS, CMOS, Ports and Interfaces, Expansion Slots, Ribbon cables, Memory Chips, Storage Devices, Processor – Primary Memory, Secondary Memory, Magnetic disk – Hard disk, Optical Disk – CD-ROM

**1.2 Plug and Play Devices**

Mouse – Keyboard – Printer – Scanner - Webcam - Digital Devices – Microphone – External Hard Drive

**Unit 2 (9 Hours)**

**2.1 Post Assembly Operations in Practice**

Partitioning of Hard drive - Installation of Software - System and Application Software – Antivirus, MS Office package, installing updates from internet, Control Panel Features Programs, Manage User accounts, Network & Internet, Clock, Language and Region, Appearance and Personalization, System and Security, Hardware and Sound.

## **2.2 Troubleshooting Hardware problems**

Approach towards Hardware problems - Troubleshooting - Mother Board, Processor, RAM, Hard drive, I/O Devices, Keyboards, Monitors and Video Cards.

### **Unit 3**

**(7 Hours)**

#### **3.1 Web Tools**

The Read / Write Web – Weblogs - Pedagogy and Practice, Get Started – Wikis – Easy Collaboration for all – Flickr - Creating, Publishing and Using Images Online – Podcasting, Video and Screen casting - Multimedia Publishing for the Masses

#### **3.2 Ways to improve one's digital life**

Functionality – Security

### **BOOKS FOR STUDY**

Andrews , Jean. *A+ Guide to Managing & Maintaining Your PC*. 8<sup>th</sup> ed. Cengage Learning, 2013. (Chapter 13) (unit 2)

Balasubramanian D. *Computer Installation and Servicing*. 2nd ed. Tata McGraw Hill, 2005.

Berger, Pam and Sally Trexler. *Choosing Web 2.0 Tools for Learning and Teaching in a Digital World*. 1st ed. Library of Congress Cataloguing-in-Publication Data, 2010. (unit -3)

Fadia, Ankit. *Faster 100 ways to improve your digital life*. Penguin Books India, 2013(unit-3)

Goel ,Anita. *Computer Fundamentals*. Pearson Education India, 2010. (unit 1)

### **BOOKS FOR REFERENCE**

Gookin ,Dan. *Troubleshooting your PC – For Dummies*. John Wiley, 2008

Richardson, Will. *Blogs, Wikis, Podcasts, and Other Powerful Web Tools for Classrooms*. 3rd ed. SAGE.

Zacker, Craig and John Rourke, *PC Hardware, The Complete Reference*. Tata McGraw Hill Publications, 2001.

### **WEB RESOURCES**

<https://www.theblogstarter.com/>

<https://websitesetup.org/how-to-start-a-blog-guide/>

<https://themeisle.com/blog/how-to-create-a-blog/>

<https://startbloggingonline.com/>

<https://edu.gcfglobal.org/en/computerbasics/basic-troubleshooting-techniques/1/>

<https://www.bestvpn.com/tutorials/troubleshooting.shtml>

### **PATTERN OF ASSESSMENT:**

Only Internal Assessment

Total of component I and component II will be taken as Internal Assessment

#### **Component 1 – 25 marks**

Identifying the different Hardware Components

PC Assembling and Troubleshooting hardware problems

#### **Component 2 – 25 marks**

Case Study on various Web Tools

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of Computer Science to  
B.A. / B.Sc. / B.Com. / B.B.A / B.S.W. Degree**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**IMAGE EDITING AND ANIMATION**

**CODE:19CS/GE/IA22**

**CREDITS:2**

**L T P:1 0 1**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To provide an opportunity to pursue skills and applications using Multimedia
- To effectively use the tools available in photoshop
- To apply filters and masking techniques
- To understand the basic drawing techniques
- To provide software skills and hands on experience in digital media

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the basics of multimedia elements
- Edit an image effectively
- Design logos, posters, etc
- Apply animation techniques appropriately
- Create a video for the given story board

**Unit 1 (10 Hours)**

**1.1 Photoshop**

Workspace overview - Custom workspace - Cruising main menus – Panels – - Layers- Organising files - Saving the files - Creating slideshow- Drawing tools - Painting – Selection tools - Lasso Options, Magic Wand, Quick - Selection - Correction Tools - Heal and Spot Healing, Patch tool - Eyedropper tool – Brush - Clone Source - Rubber Stamp - Text Tool-Smudge - Blur and Sharpen - Dodge - Burn - Blending modes - Transparency - Moving Path – Filters - Masking –Designing a Collage

**Unit 2 (10 Hours)**

**2.1 Flash**

Flash work environment – Stage - Drawing tools and their modifiers – Basic drawing techniques – Animation – Timeline - Tweening and its types - The power of layers – Learning about symbols – Libraries – Onion skinning – Text tool- Basic Action Scripting – Button behaviors – Navigation – Making presentation using Action Script – Symbols - Instances, Instance properties and methods – Dynamic input and text –



Events – Button Event Handling- Adding sound to movies – save files – Publishing movies

**Unit 3**

**(6 Hours)**

**3.1 Mini Project**

Mini Project using Photoshop and Flash

**BOOKS FOR REFERENCE**

Dayley ,Lisa DaNae and Brad Dayley. *Photoshop CS5 Bible*. 1st ed. Wiley Dreamtech India Pvt Ltd, 2010.

Parekh ,Rajan. *Principles of Multimedia*. 2nd ed. Tata McGraw Hill Publishing, 2013.

Perkins , Todd. *Flash Professional CS5 Bible*. 1st ed. Wiley Dreamtech, 2010.

**PATTERN OF ASSESSMENT**

Only Internal Assessment

**Mini Project**

Phase I – Photoshop - 25 Marks

Phase II – Flash - 25 Marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of Computer Science to  
B.A. / B.Sc. / B.Com. / B.B.A / B.S.W. Degree**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CYBER SECURITY**

**CODE:19CS/GE/CS22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To familiarize the students with the core concepts and vocabulary of computer security
- To familiarize the students with information security laws and regulatory
- To enable students to recognize real time cyber security attacks

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand cyber security threats and counter measures
- Gain knowledge of information security governance, and related legal and regulatory issues
- Identify information security needs of personal and organization
- Know real-time security solutions for their day to day online activities

**Unit 1 (10 Hours)**

**1.1 Introduction to Information Security:** The History of Information Security- What Is Security-CNSS Security Model-The Need for Security: Business Needs First-Threats- Attacks.

**1.2 Cyber Security Fundamentals**

Cyber Attack: Attackers-Hackers-Crackers-Crimes and Problems-Social Engineering Attacks- A Step-By-Step Guide for Strengthen Your Security.

**Unit 2 (9 Hours)**

**2.1 Understanding The Cyber security Landscape:** The Changing Face of Cybercriminals-The Lifecycle of an Advanced Attack-Role of Malware

**2.2 Cyber Terrorism**

Terrorist Use of the Internet- Internet as Weapon, Wireless Threat

**2.3 Laws and Regulatory Requirements:**

Need of Cyber Law in India - Laws Related to Information Security - IT Act of India 2000- Copyright law in India- Intellectual property rights

**Unit 3 (7 Hours)**

**3.1 Cryptography:** Foundations of Cryptology- Cipher Methods

**3.2 Security Measures:** Basic-Passwords-Computers-Phones and Tablets- Social Media-Chatting and Phone Calls- Internet Banking

## **BOOKS FOR STUDY**

*Information Security Handbook for Network Beginners*. National Center of Incident Readiness and Strategy for Cybersecurity (NISC), The Government of JAPAN, Ver 2.11e (Unit 1.2)  
Lawrence C. Miller *Cyber security for dummies*. CISSP(Unit2.1)  
Whitman, Michael E., Whitman and Herbert J. Mattord. *Principles of Information Security*. Cengage Learning, 2011( Unit 1.1,3.1)

## **BOOKS FOR REFERENCE**

Pfleeger, Charles P and Shari Lawrence Pfleeger. *Security in Computing*, 4th ed. Consulting Group Pearson, 2007.

## **WEB RESOURCES**

<https://littlefield.co/cyber-terrorism-understanding-and-preventing-acts-of-terror-within-our-cyber-space-26ae6d53cfbb> (Unit 2.2)  
<https://watchyourhack.com/>(Unit 3.2)  
<http://www.ncb.mu/English/Documents/Downloads/Reports%20and%20Guidelines/Guideline%20on%20Secure%20Internet%20Banking.pdf>  
<http://www.legalserviceindia.com/article/195-copyright-law-in-india.html>  
[http://en.wikipedia.org/wiki/copyright\\_law\\_of\\_india](http://en.wikipedia.org/wiki/copyright_law_of_india)  
[https://www.wipo.int/edocs/pubdocs/en/intproperty/450/wipo\\_pub\\_450.pdf](https://www.wipo.int/edocs/pubdocs/en/intproperty/450/wipo_pub_450.pdf)

## **PATTERN OF ASSESSMENT:**

Only Internal Assessment

Average of Component I and II will be taken as Internal Assessment

### **Component 1: Marks - 25**

Section A – 5x1 = 5 Marks (Answer all the questions)

Section B – 5x2 = 10 Marks (Answer all the questions)

Section C – 2x5 = 10 Marks (2 out of 4)

### **Component 2: Marks - 25**

Case Study on Real-Time Cyber Security Issues

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**General Elective Course offered by the Department of Computer Science to**  
**B.A. / B.Sc. / B.Com. / B.V.A. / B.S.W. Degree**

**SYLLABUS**  
(Effective from the academic year 2019–2020)

**DOCUMENTATION AND PRESENTATION**

**CODE:19CS/GE/DP22**

**CREDITS:2**

**L T P:1 0 1**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To give students the knowledge and understanding to prepare formatted documents and powerful presentations
- To provide hands-on use of Microsoft Office applications
- To familiarize the basics and advanced concepts of Word and PowerPoint
- To understand the method of protecting documents

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Create a document with proper formatting
- Create personal, academic and business documents following current industry standards
- Create a presentation in Microsoft PowerPoint that is interactive and with legible content
- Apply Designs to Enhance the feel of the Presentation
- Protect the documents and limit the access

**Unit 1 (4 Hours)**

**1.1 Word Processing**

Introduction – The Style Advantage, Outlining, -Autocorrect – Compatibility with previous versions of word –Drawing Canvas –Styles and Character/Font Formatting – Bullets and Numbering –Character Formatting –Paragraph Formatting –Styles and paragraph Formatting, Structural Formatting, paragraph Decoration – Find, Replace and GO To – Language Tools –Auto Correct – Auto Format –Tables – Pictures and SmartArt – Headers and Footers

**Unit 2 (10 Hours)**

**2.1 Advanced Word Processing**

Symbols and Equations –Charts –Inserting Objects and Files –Blogging-Templates and Themes – Bookmarks –Tables of Contents –Footnotes and Endnotes -Citations and Bibliography –Indexing –Table of Authorities –Hyperlinks and Cross-References –Envelopes and Labels -Data Documents and Mail Merge –The Ribbon -Security, Tracking and Comments –Protection Type-Integration with other office Applications –Excel, PowerPoint

**Unit 3****(12 Hours)****3.1 Presentation Tool**

Introduction to PowerPoint – Changing the view – Creating a good presentation-  
Creating and saving Presentation Files –Creating New Slides and Text Boxes –  
Working with Layout, Themes and Masters –Formatting Text –Formatting Paragraphs  
–Correcting and Improving Text –Creating and Formatting Tables- Creating SmartArt  
Diagrams–Importing Image Files into PowerPoint –Compressing Images –Creating a  
Photo Album Layout- Working with Charts – Working with External Content-  
Copying Content from Other Programs - Adding Sound Effects, Music and  
Soundtracks –Creating Animation Effects and Transitions –Creating Support  
Materials –Preparing for a Live Presentation –Limiting User Access to a Presentation

**BOOKS FOR STUDY**

Herb Tyson. *Microsoft® Word 2010 Bible*. Wiley Publishing, Inc.

Lisa A. Bucki. *Word 2013 Bible*. Wiley Publishing, Inc.

Faith Wemp. *PowerPoint 2013 Bible*. Wiley Publishing, Inc.

**BOOKS FOR REFERENCE**

Lambert Joan. *Microsoft Word 2016 Step by Step* 1<sup>st</sup> ed. Microsoft Press.2016.

Price Michael. McGrath Mike *Office 2016 Step by Step* 1<sup>st</sup> ed. Microsoft Press 2016.

Freedman J. *Microsoft Word 2013 Plain & Simple* 2013. Microsoft Press

Echo Swinford. *My PowerPoint 2016*. Pearson education

**WEB RESOURCES**

<https://www.microsoft.com/learning/en-us/book.aspx?ID=9600&locale=en-us>

<http://www.onlineprogrammingbooks.com/free-ebook-microsoft-office-powerpoint/>

<http://bookboon.com/en/microsoft-office-powerpoint-ebook#download>

[https://www.dit.ie/media/ittraining/msoffice/MOAC\\_Word\\_2016\\_Core.pdf](https://www.dit.ie/media/ittraining/msoffice/MOAC_Word_2016_Core.pdf)

**PATTERN OF ASSESSMENT:**

Only Internal Assessment

Total of component I and component II will be taken as internal assessment

**Component 1 – 25 marks**

Preparing a detailed report for a College Event

**Component 2 – 25 marks**

Creating a presentation on the topic chosen in the component I and including data from the report appropriately

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**General Elective Course offered by the Department of Computer Science to**  
**B.A. / B.Sc. / B.Com. / B.B.A / B.S.W. Degree**

**SYLLABUS**  
(Effective from the academic year 2019 – 2020)

**INTRODUCTION TO DATA ANALYSIS**

**CODE:19CS/GE/DA22**

**CREDITS:2**

**L T P:1 0 1**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To recognise different types of data and understand the implications of data type for subsequent analyses
- To enable the students to understand the various data collection tools and techniques
- To enable the students to understand the pre-processing steps in the analysis of data
- To identify the main issues that needs to be considered when preparing quantitative data for analysis
- To understand predictive data analysis

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the types of data
- Apply appropriate tools and techniques for collecting data
- Prepare data for analysis
- Apply predictive data analysis on the prepared data

**Unit 1 (8 Hours)**

**1.1 Fundamentals of Data Analysis**

Purpose of Data Analysis- Different Types of Data- Quantitative and Qualitative Data-Numerical, Categorical- Sources of Data -Primary and Secondary

**1.2 Data Collection**

Steps, Tools and Techniques of Data Collection - Data layout- Coding - Entering data

**Unit 2 (9 Hours)**

**2.1 Data Cleaning**

Checking for errors- Spell Checking, removing duplicate rows, fixing numbers and signs, fixing dates and times, merging and splitting columns, transforming and rearranging columns and rows, reconciling table data by joining or matching.

**2.2 Importing Data**

Importing Text or Microsoft Word Data into Excel-Importing Data from the Web into Excel-Validating Data.

**2.3 Summarizing data**

Summarizing Data with Histograms-Summarizing Data with Descriptive Statistics-Using PivotTables to Describe Data-Summarizing Data with Database Statistical Functions

## Unit 3

(9 Hours)

### 3.1 Predictive Data Analysis

Sensitivity Analysis with Data Tables -Filtering Data- Consolidating Data -Using Correlations to Summarise Relationships - Incorporating Qualitative Factors into Multiple Regression Functions- Analysis of Variance: One-Way ANOVA - Randomised Blocks and Two-Way ANOVA- Software Tools

### BOOKS FOR STUDY

Saunders, Mark, Philip Lewis and Adrian Thornhill. *Research methods for business students*. 5<sup>th</sup> ed. Pearson. (Chapters 12 & 13)

Winston, Wayne, L. *Microsoft Excel Data Analysis and Business Modeling*. Microsoft Press, 2004. (Chapters 15, 38, 37, 35, 44, 46, 48, 49)

### BOOKS FOR REFERENCE

Dey, Ian. *Qualitative data analysis: A User Friendly Guide for Social Scientists*. Taylor and Francis Group, 2005.

### WEB RESOURCES

<https://nios.ac.in/media/documents/316courseE/E-JHA-31-10A.pdf>

[http://en.wikibooks.org/wiki/Statistics/Different\\_Types\\_of\\_Data](http://en.wikibooks.org/wiki/Statistics/Different_Types_of_Data)

<https://support.office.com/en-nz/article/Top-ten-ways-to-clean-your-data-2844b620-677c-47a7-ac3e-c2e157d1db19>

<https://www.proschoolonline.com/blog/top-10-data-analytics-tools/>

<http://scholarworks.lib.csusb.edu/cgi/viewcontent.cgi?article=1032&context=etd>

### PATTERN OF ASSESSMENT

Only Internal Assessment

Total of component I and component II will be taken as internal assessment

#### Component I - 25 marks

Collecting, Cleaning, Validating and Summarizing Data

#### Component II - 25 marks

Predictive analysis with the data

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COMPUTER GRAPHICS**

**CODE:19CS/UI/CG23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To be able to understand fundamentals of computer graphics and graphics primitives
- To be able to understand 2 D and 3 D transformations and representations
- To be able to visualization techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the concepts related to basics of computer graphics and visualization
- Demonstrate various graphics primitives and 2-D, 3-D geometric transformations and clipping techniques
- Comprehend the concepts related three dimensional object representations.
- Implement various hidden surface removal techniques

**Unit 1**

**1.1 Fundamentals of Computer Graphics**

Applications of computer Graphics in various, Video Display Devices, Random scan displays, raster scan displays, DVST, Flat Panel displays, I/O Devices.

**1.2 Graphics Primitives**

Algorithms for drawing Line, circle, ellipse, arcs & sectors, Boundary Fill & Flood Fill algorithm, Color Tables

**Unit 2**

**2.1 Transformations & Projections**

2D & 3D Scaling – Translation - Rotation, Shearing & Reflection, Composite Transformation, Window to View Port Transformation, Orthographic and Perspective Projections

**2.2 Clipping**

CohenSutherland, Liang Barsky, Nicholl-Lee-Nicholl Line Clipping algorithms, Sutherland Hodgeman, Weiler Atherton Polygon Clipping Algorithm

**Unit 3**

**3.1 Three Dimensional Object Representations**

3D Modeling transformations, Parallel & Perspective projection, Clipping in 3D - Curved Lines & Surfaces, Spline Representations, Spline Specifications, Bezier Curves & Surfaces, B-Spline Surves & Surfaces, Rational Splines, Displaying Spline Surves & Surfaces



## **Unit 4**

### **4.1 Basic Rendering**

Rendering in Nature - Polygonal Representation- Affine and Coordinate System Transformations - Visibility and Occlusion - Depth Buffering - Painter's Algorithm - ray tracing, forward and backward rendering equations - Phong Shading per pixel per vertex Shading

## **Unit 5**

### **5.1 Visualization**

Visualization of 2D/3D scalar fields: color mapping, iso surfaces. Direct volume data rendering: ray-casting, transfer functions, segmentation. Visualization of: Vector fields and flow data, Time-varying data, High-dimensional data: dimension reduction, parallel coordinates, Non-spatial data: multi-variate, tree/graph structured, text Perceptual and cognitive foundations, Evaluation of visualization methods, Applications of visualization, Basic Animation Techniques like traditional, keyframing

## **BOOKS FOR STUDY**

Dave Shreiner, Mason Woo, Jackie Neider, Tom Davis, OpenGL Programming Guide: The Official Guide to Learning OpenGL, (2013).

Donald D Hearn, M. Pauline Baker, Computer Graphics C version, Pearson Education.

## **BOOKS FOR REFERENCE**

James D. Foley, Andries van Dam, Steven K. Feiner, John F. Hughes, Computer Graphics: Principles & Practice in C, Addison Wesley Longman.

Zhigang Xiang, Roy A Plastock, Computer Graphics, Schaums Outline, TMH.

## **PATTERN OF ASSESSMENT**

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A** -  $20 \times 1 = 20$  marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

**Section B** –  $5 \times 2 = 10$  marks (Answer all the questions)

(1 question from each unit)

**Section C** -  $8 \times 5 = 40$  marks (8 out of 10)

(2 questions from each unit)

**Section D** -  $3 \times 10 = 30$  marks (3 out of 5)

(1 question from each unit)

**STELLA MARIS COLLEGE (AUTONOMOUS) – CHENNAI – 600 086**

**BACHELOR OF COMPUTER APPLICATIONS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COMPUTER VISION**

**CODE: 19CS/UI/CV23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To understand fundamentals of images and Computer Vision
- To understand Geometric transformations
- To gain knowledge based on Recognition features

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply Histograms in real time images
- Demonstrate geometric transformations
- Implement various edge detection techniques
- Apply the vision related problems in further research.

**Unit 1**

**1.1 Introduction**

The Human Vision System - Practical Applications of Computer Vision - The Future of Computer Vision

**1.2 Images**

The Simple Pinhole Camera Model - Images - Sampling- Quantization- Color Images- Noise – Smoothing

**Unit 2**

**2.1 Histograms**

1D Histograms - Histogram/Image Equalization- Histogram Comparison- k-means Clustering

**2.2 Binary Vision**

Thresholding- Threshold Detection Methods- Mathematical Morphology

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**Unit 3**

**3.1 Geometric Transformations**

Affine Transformations - Perspective Transformations – Interpolation

**3.2 Edges**

Edge Detection - Contour Segmentation - Hough Transform

**Unit 4**

**4.1 Features**

Moravec Corner Detection - Harris Corner Detection - FAST Corner Detection- SIFT- Recognition

## Unit 5

### 5.1 Recognition

Template Matching - Chamfer Matching - Statistical Pattern Recognition - Cascade of Haar Classifiers - Other Recognition Techniques - Performance

### 5.2 Vision Problems

Abandoned and Removed Object Detection - Traffic Lights - Real Time Face Tracking - Road Sign Recognition - License Plates

## BOOKS FOR STUDY

Kenneth Dawson. *A Practical Introduction to Computer Vision with OpenCV*. John Wiley & Sons Ltd, 2014.

## BOOKS FOR REFERENCE

David A. Forsyth, Jean Ponce. *Computer Vision: A Modern Approach*. Pearson Edition, 2015.

Jan Erik Solem. *Programming Computer Vision with Python: Tools and Algorithms for Analyzing Images*. O'Reilly Media, 2012.

Richard Szeliski. *Computer Vision: Algorithms and Applications*. Springer Publications, 2011.

Simon J. D. Prince. *Computer Vision: Models, Learning, and Inference*. Cambridge University Press, 2012.

## WEB RESOURCES

<https://www.cs.toronto.edu/~urtasun/courses/CV/lecture01.pdf>

<https://www.cl.cam.ac.uk/teaching/0809/CompVision/CompVisNotes.pdf>

## PATTERN OF ASSESSMENT

### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

**Section A** -  $20 \times 1 = 20$  marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

**Section B** -  $5 \times 2 = 10$  marks (Answer all the questions)

(1 question from each unit)

**Section C** -  $8 \times 5 = 40$  marks (8 out of 10)

(2 questions from each unit)

**Section D** -  $3 \times 10 = 30$  marks (3 out of 5)

(1 question from each unit)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH**

**PROGRAMME DESCRIPTION**

The B.A. English and Communications Skills Degree programme lays equal emphasis on honing both literary and language skills. Through a range of texts from literatures across the globe, the programme intends to train students to engage critically with multiple genres and sensitise them to varied social contexts and multiple cultural and literary traditions. It also aims to provide students with opportunities to hone their communication skills in various professional contexts in a global environment that employs multiple modes of communication. While the courses cover a wide spectrum of skills for specific corporate and creative sectors—including advertising, business, public service and health care—it also seeks to prepare students for higher studies in the discipline. The overarching vision of the programme is to create independent learners equipped with creative, critical, and analytical skills required for lifelong learning.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of the BA English and Communication Skills programme, the students will be able to

- critically analyse literatures in English
- identify and analyse generic features of different literary texts
- demonstrate communication skills in various professional contexts
- use their creative skills in creating advertisements for the print and the electronic media
- comprehend and use reading methods from various schools of criticism and theory in the reading of literary texts
- study the varied relationships between literary texts and the social, political, economic and cultural realities that produced these texts
- analyse literatures produced from marginal positions empathetically
- analyse literary texts as part of the ecological and environmental realities from which they are produced and disseminated
- understand the varied inter-relationships between textual and other forms of representations of literary texts such as visual and audio-visual representations

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. DEGREE-ENGLISH AND COMMUNICATION SKILLS**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
<b>SEMESTER-I</b>										
19CE/MC/PS13	Presentation Skills	3	3	1	0	3	50	50	100	
19CE/MC/PP13	Introduction to Prose and Poetry	3	3	1	0	3	50	50	100	
19CE/AC/SW15	Introduction to Subaltern Writing	5	5	0	0	3	50	50	100	
19CE/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
19CE/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
<b>SEMESTER-II</b>										
19CE/MC/AW23	Academic Writing	3	3	1	0	0	50	50	100	
19CE/MC/DF25	Introduction to Drama and Fiction	5	5	1	0	3	50	50	100	
19CE/AC/LG25	Introduction to Linguistics	5	5	0	0	3	50	50	100	
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100	
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100	
<b>SEMESTER-III</b>										
19CE/MC/WM33	Writing for the Media	3	3	1	0	3	50	50	100	
19CE/MC/BL34	British Literature	4	4	1	0	3	50	50	100	
19CE/AC/LI35	Literature and Ideas	5	5	0	0	3	50	50	100	
19CE/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100	
<b>SEMESTER-IV</b>										
19CE/MC/LC44	Literary Criticism	4	4	1	0	3	50	50	100	
19CE/MC/CW45	Contemporary World Literature	5	5	1	0	3	50	50	100	
19CE/AC/GD45	Literature and Gender	5	5	0	0	3	50	50	100	
	Major Elective I									
<b>SEMESTER-V</b>										
19CE/MC/LT55	English Language Teaching	5	5	1	0	3	50	50	100	
19CE/MC/IL55	Indian Literatures I	5	5	1	0	3	50	50	100	
19CE/MC/EA55	English for Advertising	5	5	1	0	3	50	50	100	
<b>Inter Disciplinary Core Courses(CE and PY) to the students of Eng.&amp; Comm.Skills and Psychology</b>										
19ID/IC/LP55	Literature and Psychology	5	5	1	0	3	50	50	100	
	General Elective III	2	2	0	0	-	50	-	100	
	SAP / SL	2	2	0	0	-	50	-	100	
<b>SEMESTER-VI</b>										
19CE/MC/IL65	Indian Literatures-II	5	5	1	0	3	50	50	100	
19CE/MC/AL65	American Literature	5	5	1	0	3	50	50	100	
19CE/MC/TW65	Technical Writing	5	5	1	0	3	50	50	100	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. DEGREE-ENGLISH AND COMMUNICATION SKILLS**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19CE/ME/WC45	World Classics in Translation	5	5	0	0	3	50	50	100
19CE/ME/LA45	Literature of Asia	5	5	0	0	3	50	50	100
19CE/ME/CC45	Content and Copy Editing	5	5	0	0	3	50	50	100
19CE/ME/TW45	Travel Writing	5	5	0	0	3	50	50	100
19CE/ME/PR45	Project	5	0	0	5	-	50	50	100
<b>General Elective Courses</b>									
19CE/GE/FF22	Fiction and Film	2	2	0	0	-	50	-	100
19CE/GE/IM22	Indian Mythology	2	2	0	0	-	50	-	100
19CE/GE/PC22	Popular Culture	2	2	0	0	-	50	-	100
19CE/GE/GN22	The Graphic Novel	2	2	0	0	-	50	-	100
<b>Independent Elective Courses</b>									
19CE/UI/CM23	Novel of Courtship and Marriage	3	0	0	0	3	-	100	100
19CE/UI/PR23	Poetry of the Romantic Age	3	0	0	0	3	-	100	100



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRESENTATION SKILLS**

**CODE: 19CE/MC/PS13**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To train students in oral presentation skills, good organisation and effective delivery
- To help students plan their presentation by gathering relevant information, determining needs of the audience and defining presentation purpose
- To assist students integrate audio-visual aids effectively in oral presentations
- To train students in the effective use of paralinguistic features

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate effective presentation skills
- organise presentations using the concepts of determining and ordering of central, main and supporting ideas
- deliver effective and engaging presentations
- use body language and tone of voice to enhance their presentations.
- incorporate multimedia tools and techniques in presentations

<b>Unit 1</b>	<b>Creating a Presentation</b>	<b>(10 Hours)</b>
1.1	Features of an Information and Persuasion Presentation	
1.2	Basic Presentation Patterns	
1.3	Creating Visual Information	
1.4	Preparing an Outline and Acknowledging Sources	
<b>Unit 2</b>	<b>Delivering a Presentation</b>	<b>(10 Hours)</b>
2.1	Paralinguistic Features – Eye Contact, Body Language, Voice Modulation	
2.2	Using a Note Card for a Presentation	
2.3	Using Rhetorical Devices	
2.4	Observing Features of Good Speeches	
<b>Unit 3</b>	<b>Post Presentation Observations</b>	<b>(12 Hours)</b>
3.1.	Handling Post Presentation Interaction	
3.2.	Providing Constructive Positive/Negative Feedback	
3.3.	Speech for Special Occasion	

<b>Unit 4</b>	<b>IT Skills</b>	<b>(12 Hours)</b>
4.1	Using Appropriate Presentation Software	
4.2	Choosing an Effective Design in Presentation Software	
4.3	Using Slide Transitions and Animation Effectively	
4.4	Using Word-Processing Software to Create a Handout	
4.5	Using Data-Processing Software to Create a Chart or Graph	
<b>Unit 5</b>	<b>Practical Application Tasks</b>	<b>(8 Hours)</b>
	Specific tasks relevant to the concepts and techniques discussed in Units 1 to 4 will be assigned as class work	

## BOOKS FOR REFERENCE

Chivers, Barbera and Michael Shoolbred. *A Student's Guide to Presentations: Making your Presentation Count*. Sage Publications, 2017.

Lundberg , Debbie. *Presenting Powerfully: Ideas, Outlooks & Actions for Empowering Presentations*. Debbie Lundberg Inc., Florida, 2011.

Mattiske, Catherine. *Persuasive Presentation Skills: Create, Prepare and Design with Confidence*. The Performance Company Pvt. Ltd., Australia, 2011.

McCarthy, Patsy and Caroline Hatcher. *Presentation Skills: The Essential Guide for Students*. Sage Publications, Australia, 2002.

Negrino,Tom. *Creating a Presentation in Powerpoint*. Peachpit Press, California, 2005.

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – four out of six 75 word essays		4x5 = 20 marks
Section B – three out of five 150 word essays		3x10 = 30 marks

**Other Components:** **Total Marks: 50**  
Voice-over Power Point Presentation/Group presentation/Assignment

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out of six 75 word essays		4x5 = 20 marks
Section B – four out of six 150 word essays		4x10 = 40 marks
Section C – Presentation Plan -Internal Choice (300 words)		2x20 = 40 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO PROSE AND POETRY**

**CODE: 19CE/MC/PP13**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To help students to develop an understanding of the generic features of varied prose forms
- To train students to critically analyse prose texts
- To help students read poetry with reference to context, content and form.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify varied prose forms and its features
- identify the themes and rhetorical devices of varied prose texts
- identify poetic forms and devices
- critically analyse poetry with reference to themes and context
- understand the contemporary relevance of the texts

<b>Unit 1</b>	<b>Introduction to Prose Forms</b>	<b>(6 Hours)</b>
1.1	Prose Forms (News Article, Biography, Essay, Speech...)	
<b>Unit 2</b>	<b>Prose: A Selection</b>	<b>(16 Hours)</b>
2.1	Francis Bacon      Of Ambition	
2.2	Charles Lamb      Dream Children	
2.3	Abraham Lincoln      The Gettysburg Address	
2.4	Ramchandra Guha      The Locality and the Nation, <i>The Hindu</i> , <i>Sunday Magazine</i> , 31 August 2003	
2.5	Severn Suzuki      Earth Summit	
<b>Unit 3</b>	<b>Introduction to Poetic Forms</b>	<b>(6 Hours)</b>
3.1	Poetics Forms (Lyric, Elegy, Ode, Ballad...)	
<b>Unit 4</b>	<b>Poetry: A Selection</b>	<b>(14 Hours)</b>
4.1	John Keats      Ode to a Nightingale	
4.2	Robert Frost      Mending Wall	
4.3	Maya Angelou      Phenomenal Woman	
4.4	Jackie Kay      In My Country	

**Unit 5      Practical Application Tasks      (10 Hours)**  
Specific tasks relevant to the concepts and techniques discussed in Units 1 to 4 will be assigned as class work

### **BOOKS FOR REFERENCE**

Bloom, Harold. *How to Read and Why*. Touchstone, New York, 2001.  
Eagleton, Terry. *How to Read a Poem*. Blackwell Publishing, Victoria, 2007.  
Mattersen, Stephen and Darryl Jones. *Studying Poetry*. Oxford UP, New York, 2000.  
Shelston, Alan. *Biography*. Methuen, London, 1977.  
Walker, Hugh. *The English Essays and Essayists*. S. Chand & Co., New Delhi, 1966.

### **PATTERN OF ASSESSMENT**

<b>Continuous Assessment:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 150 word essays		2x10 = 20 marks
Section B – one out of two 300 words essays		1x15 = 15 marks
Section C – Passage analysis from prescribed texts (300 words)		1x15 = 15 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignment/Seminar/Presentation/Take Home Test/Open book test/Scheduled Class work- Passage Analysis/Quiz/Panel Discussion/Group Presentation/Role- Play/Dramatisation Creative Writing	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – three out of five 300 word essays		3x15 = 45 marks
Section B – two out of four 400 word essays		2x20 = 40 marks
Section C – Passage analysis from prescribed texts (300 words)		1x15 = 15 marks

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO SUBALTERN WRITING**

**CODE: 19CE/AC/SW15**

**CREDITS: 5**

**LTP: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the concept of subalternity
- To help them position subaltern identities in texts
- To sensitise students to experiences of marginalisation
- To enable students to critically analyse literary texts with reference to subalternity

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of the issues related to marginalised sections of the society
- display a sensitive approach to marginalised sections of the society
- identify and understand the causes and consequences of oppression
- apply subaltern concepts and theories to the interpretation and analysis of texts
- extend their understanding of the issues discussed in the texts to the real world

<b>Unit 1 Background Reading</b>	<b>(20 Hours)</b>
1.1 Paulo Freire	Introduction, <i>Pedagogy of the Oppressed</i> .
1.2 Frantz Fanon	On Violence (from <i>The Wretched of the Earth</i> , pp 1-13)
<b>Unit 2</b>	<b>(15 Hours)</b>
2.1 Saeed Akhtar Mirza	The First Lady and the Terrorist: A Film Script in Five Acts (from <i>Ammi: Letter to a Democratic Mother</i> pp. 250-307)
<b>Unit 3</b>	<b>(10 Hours)</b>
3.1 Maheswata Devi	Kunti and the Nishadin (from <i>After Kurukshetra</i> )
<b>Unit 4</b>	<b>(15 Hours)</b>
4.1 Nellie Wong	When I was Growing up
4.2 Cherrie Moraga	The Welder
4.3 S. Sukirtharani	A Faint Smell of Meat
<b>Unit 5 Practical Application Tasks</b>	<b>(5 Hours)</b>

## BOOKS FOR REFERENCE

- Anazaldua, Gloria. *This Bridge Called My Back: Writing by Radical Women of Color*. Kitchen Table: Women of Colour, 1983, pp. 165-173.
- Fanon, Frantz. *Black Skin, White Mask*. Grove, 1967.
- Gail Omvedt "Chapter 11: Sita's Curse and Shambuk's Silence." *Dalit Visions*, Orient Longman, 2006.
- Gramsci, Antonio. "History of the Subaltern Classes." *Prison Notebooks* Vol. II, edited and translated by Joseph A. Buttigieg, 1996, 24-25.
- Milner, Andrew and Jeff Browitt. *Race and Ethnicity in Black and Latino Cultural Studies: Contemporary Critical Theory*. Rawat, 2003.
- Nilsen, Alf Gunvald and Srila Roy, eds. *New Subaltern Politics. Reconceptualizing Hegemony and Resistance in Contemporary India*. OUP, 2015.
- Spivak, Gayatri Chakrabarti. "Subaltern Studies: Deconstructing Historiography" Vol IV. *Writings on South Asian History and Society*, edited by Ranajit Guha, OUP, 1985, pp. 330-363.

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 150-word essays		2x10=20 marks
Section B – one out of two 300-word essay		1x15=15 marks
Section C – Passage analysis (prescribed texts)		1x15= 15 marks

**Other Components:** **Total Marks: 50**  
Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Quiz  
Panel Discussion/Group Presentation/Role-Play/Dramatisation/Creative Writing

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – three out of five 300-word essays		3x15= 45marks
Section B – two out of four 400-word essays		2x20=40 marks
Section C – Passage analysis – (prescribed texts)		1x15=15 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19CE/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19CE/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1**

**(13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

- 3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant
- 3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

- 3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing
- 3.2.2 **Configuring Email**  
Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails
- 3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

- Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.
- Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.
- Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.
- John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.
- Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.
- Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.
- Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.
- Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.
- Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ACADEMIC WRITING**

**CODE: 19CE/MC/AW23**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To hone the academic writing skills of students
- To train students in writing analytical paragraphs, essays and reports
- To enable students to write with academic integrity
- To enable students to formulate and express ideas and opinions in clear, concise prose
- To equip them with skills to describe and synthesise new ideas in writing

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- demonstrate an understanding of the process of writing
- demonstrate an awareness of academic writing conventions in a wide range of formats
- find, evaluate and use information from varied sources effectively in their writing tasks
- formulate and synthesise new ideas and opinions in writing
- create clear, grammatically correct, ethically sound, well-organised pieces of writing

<b>Unit</b>	<b>1</b>	<b>Introduction</b>	<b>(10 Hours)</b>
	1.1	What is Academic Writing?	
		1.1.1 Ethics of Academic Writing	
		1.1.2 Tone, Register, Purpose, Vocabulary, Grammar	
		1.1.3 Kinds of Research Papers—Articles, Assignments, Term papers, Projects	
	1.2	Basics of Writing	
		1.2.1 Writing a Plan	
		1.2.2 Outlines	
		1.2.3 Introduction, Body and Conclusion	
<b>Unit</b>	<b>2</b>	<b>Pre-Writing Strategies</b>	<b>(10 Hours)</b>
	2.1	Brainstorming	
	2.2	Background and Research	
	2.3	Stages in Writing an Academic Paper	
	2.4	Planning the Arguments	
	2.5	Mechanics of Documentation	

<b>Unit 3</b>	<b>Writing An Academic Essay</b>	<b>(12 Hours)</b>
3.1	Organizing a Paragraph	
3.2	Analytical Essay	
3.3	Argumentative Essay	
3.4	Documentation	
<b>Unit 4</b>	<b>Writing Reports</b>	<b>(12 Hours)</b>
4.1	Different Parts of a Report	
4.2	Analysing data	
4.3	Writing a Report	
<b>Unit 5</b>	<b>Practical Application Tasks</b>	<b>(8 Hours)</b>
	Specific tasks relevant to the concepts and techniques discussed in Units 1 to 4 will be assigned as class work	

## BOOKS FOR REFERENCE

Bowden, John. *Writing a Report*. Little, Brown and Company, 2011.

Cooley, Thomas. *The Norton Guide to Writing*. W.W. Norton and Company, New York, 1992.

Day, Trevor. *Success in Academic Writing*. Palgrave Macmillan, New York, 2013.

McWhorter, Kathleen and Candalene J McCombs. *Write to Read and Read to Write*. Little, Brown and Company, 1983.

Reid, Stephen. *The Prentice Hall Guide for College Writers*. Prentice Hall Inc., New Jersey, 1989.

Swales, John. *Academic Writing for College Students*. University of Michigan Press, 1994.

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – four out of six essays of 75 words each		4x5=20 marks
Section B – three out of five essays of 150 words each		3x10=30 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>
Presentation/Group Presentation/Writing Tasks	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out of six 75 word essays		4x5 = 20 marks
Section B – four out of six 150 word essays		4x10 = 40 marks
Section C – Writing Report/Essays- Internal Choice (300 words)		2x20 = 40 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO DRAMA AND FICTION**

**CODE: 19CE/MC/DF25**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce drama and fiction as genres
- To train students to identify, understand and interpret dramatic texts as vehicles for communicating ideas
- To enable students to identify narrative techniques and analyse a work of fiction.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify various dramatic forms, techniques and devices
- identify different aspects of fiction
- critically analyse a short story
- understand the contemporary relevance of the prescribed texts
- critically analyse and appreciate a play and a work of fiction.

<b>Unit 1</b>	<b>Elements of Drama</b>		<b>(12 Hours)</b>
1.1.	Plot		
1.2.	Character		
1.3.	Setting		
1.4.	Structure		
1.5.	Symbolism		
<b>Unit 2</b>	<b>Aspects of Fiction</b>		<b>(12 Hours)</b>
2.1	Plot		
2.2	Characterisation		
2.3	Focalisation / Point of View		
2.4	Stream of Consciousness		
<b>Unit 3</b>	<b>Text</b>		<b>(23 Hours)</b>
3.1	Henrik Ibsen	<i>A Doll's House</i>	
3.2	Mahesh Dattani	<i>Dance Like a Man</i>	
<b>Unit 4</b>	<b>Text</b>		<b>(23 Hours)</b>
4.1	Jane Austen	<i>Pride and Prejudice</i>	
4.2	Shashi Deshpande	<i>Why a Robin?</i>	

**Unit 5      Practical Application Tasks      (8 Hours)**  
Specific tasks relevant to the concepts and techniques discussed in Units 1 to 4 will be assigned as class work

### **BOOKS FOR REFERENCE**

Bloom, Harold ed. *Greek Drama*. Chealsea House, Philadelphia, 2004.  
Elam, Keir. *The Semiotics of Theatre and Drama*. Routledge, London, 2009.  
Macaulay.cuny.edu/eportfolios/lklichfall13t/files/2013/09/Esslin.pdf  
Scholes, Robert ed. *Elements of Literature: Fiction, Poetry, Drama*. Oxford University Press, 2007.  
Styan J.L. *Elements of Drama*. Cambridge: Cambridge University Press, 1967  
[www.anglistik.uni-freiburg.de/intranet/englishbasics/PDF/Drama.pdf](http://www.anglistik.uni-freiburg.de/intranet/englishbasics/PDF/Drama.pdf)

### **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – three out of five 150 word essays		3x10 = 30 marks
Section B – one out of two 400 word essays		1x20 = 20 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignment/Seminar/Presentation/Take Home Test/Quiz/Panel Discussion/Group Presentation/Role- Play/Dramatisation/Creative Writing	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out of six 300 word essays		4x15 = 60 marks
Section B – two out of four 400 words essays		2x20 = 40 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO LINGUISTICS**

**CODE: 19CE/AC/LG25**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce students to the fundamental concepts of linguistics
- To inculcate in students a scientific approach to language
- To equip them with tools to analyse linguistic units
- To introduce them to the relationship between language, culture and society

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand issues related to the structure and functioning of language
- analyse sounds and identify patterns of sounds in languages
- compare and contrast language in terms of phonetics, phonology, morphology, syntax and semantics
- understand how language, society and culture are related

**Unit 1 Language as Communication (15 Hours)**

1.1 Characteristics of Human Language

1.2 Human Language as a Signifying System

Saussure: Langue and Parole, Syntagm and Paradigm, Arbitrary Nature of Sign, Linear Nature of the Signifier

1.3 Varieties of Language – Dialect, Idiolect, Register

**Unit 2 Phonology (15 Hours)**

2.1 Segmental Phonemes

2.1.1 Cardinal Vowel Scale

2.1.2 Classification of Vowels and Consonants in English

2.2 Supra-Segmental Features

2.2.1 Word and Sentence Stress

2.2.2 Intonation

**Unit 3 Morphology (10 Hours)**

3.1 Morphemes

3.1.1 Bound and Free Morphemes

3.1.2 Derivatives – Root and Affix

3.1.3 Zero and Empty Morph



**Unit 4 Grammar (15 Hours)**

- 4.1 Traditional Grammar
- 4.2 Five Basic Sentence Patterns
- 4.3 I.C. Analysis

**Unit 5 Semantics (10 Hours)**

- 5.1 Synonymy, Antonymy, Polysemy
- 5.2 Hyponymy and Homonymy

**BOOKS FOR REFERENCE**

- Balasubramanian, T. *A Text Book of English Phonetics for Indian Students*. Macmillan India, 1981.
- Crystal, David. *The Cambridge Encyclopaedia of the English Language*. Cambridge UP, 2003.
- Palmer, Frank. *Semantics: A New Outline*. Cambridge: Cambridge UP, 1977.
- . *Grammar*, second ed. Penguin, London, 1971.
- Yule, George. *The Study of Language – An Introduction*. Oxford UP, 1970.
- Piller, Ingrid. *Linguistic Diversity and Social Justice: An Introduction to Applied Sociolinguistics*. Oxford UP, 2016.
- Pullum, Geoffrey K. *Linguistics: Why it Matters*. Wiley, 2018.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

- Section A - Phonemic transcription, IC analysis,  
Identifying sentence patterns, Morphemic analysis –no choice 20 marks  
**(Alternative questions, to replace Phonemic transcription and IC analysis, to be set for differently-abled students.)**
- Section B – three out of five 75-word essays 3x5= 15 marks
- Section C – one out of three 300-word essay 1x15= 15 marks

**Other Components: Total Marks: 50**

- Oral test on phonetics 20 marks
- Transcription 10 marks
- I.C. Analysis 10 marks
- Identifying Sentence Patterns 10 marks

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

- Section A – Phonemic transcription of ten words 10x1= 10 marks
- Section B – Identifying sentence pattern of five sentences 5x2=10 marks
- Morphemic analysis of ten words 10x1=10 marks
- IC Analysis of two sentences 2x2½=5 marks
- Section C – Four out of six 75 word-essays 4x5=20 marks
- Three out of five 300 word-essays 3x15=45 marks

**(Alternative questions, to replace phonemic transcription and IC analysis, to be set for differently-abled students.)**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WRITING FOR THE MEDIA**

**CODE : 19CE/MC/WM33**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To introduce students to different kinds of media
- To acquaint students with effective information-gathering skills and techniques
- To train students in the key principles of news writing and the specific requirements for writing for different media

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- gain the skills to research and organise information
- comprehend the foundations, process and practices of writing for the media
- present information with accuracy, objectivity, clarity and precision
- identify and use appropriate and effective writing styles for various media
- design and produce works in media based on effective principles for a target audience

<b>Unit 1</b>	<b>Introduction</b>	<b>(10 Hours)</b>
1.1	Different Kinds of Media and Their Characteristics	
1.2	Differences between Writing for the Media and Other Kinds of Writing	
1.3	Differences between Writing for the Audio/Visual Media and Print Writing	
<b>Unit 2</b>	<b>Print media – Writing News Reports and Features</b>	<b>(12 Hours)</b>
2.1	What is News? What is a Feature?	
2.2	Using Resources	
2.2	The Inverted Pyramid Structure	
2.3	Writing the Lead	
2.4	Developing the News Story	
<b>Unit 3</b>	<b>Broadcast Media</b>	<b>(10 Hours)</b>
3.1	Radio	
	3.1.1 Writing Anchor Scripts for Radio Programmes	
3.2	Television	
	3.2.1 Writing Anchor Scripts for Television Programmes	
<b>Unit 4</b>	<b>New Media</b>	<b>(10 Hours)</b>
4.1	Writing Reports and Features for the Web	

<b>Unit</b>	<b>5</b>	<b>Social Media</b>
	5.1	Blogs
	5.2	Twitter, etc.

**(10 Hours)**

## BOOKS FOR REFERENCE

Chapman, Nigel. *Digital Multimedia*. John Wiley and Sons, 2000.

Hohenberg, John. *The Professional Journalist*. Oxford & IBH Publishing Co., Calcutta, Fourth Edition, 1978.

*Mass Media and Mass Communication*. Chdadwick Healy, Cambridge, 1991.

*Mass Media in India 2000*. Ministry of Information and Broadcasting, New Delhi, 2000.

Mencher, Melvin. *Basic Media Writing*. Brown and Benchmark, 1996.

Rivers, L. William. *The Mass Media: Reporting, Writing, Editing*. Harper & Row Publishers, Second Edition, 1964.

Sharples, Mike. *How We Write: Writing as Creative Design*. Routledge, 1998.

*Manual for Writers & Editors*. Merriam-Webster Collegiate Dictionary, 2003.

Wells, Gordon. *Be a Successful Writer: 99 Surefire Checklists*. Allison & Busby, 2001.

## PATTERN OF ASSESSMENT

<b>Continuous Assessment:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 200 word essays		2x10 = 20 marks
Section B – writing tasks		30 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignment/Presentation/Take Home Test/Quiz	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
<b>Section A</b> – Four out of six 200 word short notes OR/AND application-based questions from Units 1, 2 and 5 (E.g. matching headlines with synopses of the news stories, framing headlines, writing summary leads based on reporters' notes, etc.)		
		4x10 = 40 marks
<b>Section B</b> – Three out of five reports/scripts		3x20= 60 marks

Write a news report based on reporter's notes in Inverted Pyramid style.

Write a news report on any event held on campus.

For a feature article, write a headline, creative lead and a caption based on reporter's notes and picture.

Write a radio script.

Write a TV anchor script.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BRITISH LITERATURE**

**CODE: 19CE/MC/BL34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To equip students with the critical skills to engage with the British literary tradition
- To train them to interpret and interrogate texts with respect to the socio-cultural and political background of the times
- To introduce students to the complexities of literary production in the context of the changing socio-political milieu of Britain

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of the diverse socio-cultural aspects and multiplicities of expression in British Literature
- display analytical skills appropriate to read British Literature as an outcome of its traditions and cultures
- display adequate knowledge and understanding of the trajectory of British Literature
- engage with the dynamics of narratives in the context of the changing socio-political milieu of Britain

<b>Unit 1 Sixteenth and Seventeenth Centuries</b>		<b>(10 Hours)</b>
1.1 Edmund Spenser	Sonnet 75 (from <i>Amoretti</i> )	
1.2 Francis Bacon	Of Friendship	
1.3 George Herbert	The Collar	
<b>Unit 2 Eighteenth Century</b>		<b>(10 Hours)</b>
2.1 Daniel Defoe	<i>Robinson Crusoe</i>	
2.2 Alexander Pope	<i>The Rape of the Lock</i>	
2.3 William Blake	The Chimney Sweeper	
<b>Unit 3 Nineteenth Century</b>		<b>(15 Hours)</b>
3.1 William Wordsworth	Upon Westminster Bridge	
3.2 Charlotte Bronte	<i>Jane Eyre</i>	
3.3 G. M. Hopkins	God's Grandeur	
<b>Unit 4 Twentieth and Twenty-first Centuries</b>		<b>(20 Hours)</b>
4.1 J. M. Synge	<i>Riders to the Sea</i>	
4.2 D. H. Lawrence	Snake	
4.3 Harold Pinter	<i>The Birthday Party</i>	

4.4 Julian Barnes  
4.5 Ian Russell McEwan

*The Sense of an Ending*  
*On Chesil Beach*

**Unit 5 Practical Application Tasks**

**(10 Hours)**

Group Discussions  
Seminars  
Analysis

**BOOKS FOR REFERENCE**

Alexander, Michael. *A History of English Literature*. Palgrave, 2000. .  
Blackwell, Wiley. *Reading the Eighteenth Century Novel*. Wiley Blackwell, 2017.  
Bowra, C. M. *The Romantic Imagination*. Oxford University Press, 1973.  
Esslin, Martin. *Theatre of the Absurd*. Penguin, 1991.  
Gilbert, Sandra and Susan Gubar. *Mad Woman in the Attic: The Woman Writer and the Nineteenth Century Literary Imagination*. 1979. 2<sup>nd</sup> ed. Yale University Press, 1986.  
Lodge, David. *The Modes of Modern Writing*. Edward Publishers, 1977.  
Martines, Lauro. *Society and History in English Renaissance Verse*. Basil Blackwell, 1985.  
Mathews, Greg J. *Literary Research and Irish Literature*. Scarecrow Press, 2008.  
Prince, Martin. "The Restoration and the Eighteenth Century." *The Restoration and the Eighteenth Century*, Oxford University Press, 1973.  
Steane, J. B. *Marlow: A Critical Study*. University Press, 1964.  
Thwaite, Anthony. *Poetry Today: A Critical Guide to British Poetry*. Longman Group, 1985.

**JOURNALS**

Journal of Commonwealth Literature  
ARIEL: A Review of International English Literature  
Wasafiri  
Postcolonial Studies  
<http://criticalflame.org/>  
<https://www.aprweb.org/>

**WEBSITES**

<http://www.bartleby.com/224/index.html#9>  
<http://www.janeausten.org>  
<http://www.poetryfoundation.org/poems&poets>

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 hours</b>
Section A –two out of four 250-word essays		2x10=20 marks
Section B – one out of two 500-word essay		1x15=15 marks
Section C –Passage analysis from prescribed texts		1x15=15 marks

**Other Components:** **Total Marks: 50**

Assignment/Seminar/Presentation/Open Book Test/Class Assignment – Passage Analysis/  
Quiz/Panel Discussion/Group Presentation/Dramatisation

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – Three short essays out of five (500 words)		3x15 = 45 marks
Section B – Two long essays out of four (600words)		2x20= 40 marks
Section C – Passage analysis from prescribed texts		1x15=15 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LITERATURE AND IDEAS**

**CODE: 19CE/AC/LI35**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the major schools of thought that have impacted literature
- To guide students to an understanding of the major shifts in schools of thought
- To train students to analyse literary texts using these ideas as frames of reference

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the concepts of major schools of thought, and place them in the appropriate context
- critically analyse literary texts using these concepts
- engage with canonical texts as well as contemporary literature
- extend the analysis to other media as well as real life

**Unit 1 Romanticism (14 Hours)**

1.1 Jean Jacques Rousseau	The Social Contract-General Will, Particular Will, Noble Savage, Sovereign, State of Nature, Civil State and The Social Contract
1.2 Immanuel Kant	Critique of Pure reason-A’priori, A’posteriori, Analytic, Synthetic, Noumena, Phenomena and Transcendental Deduction of Knowledge
1.3 G.W.F. Hegel	Phenomenology of the Mind-Absolute Consciousness, Totality, Negative Dialectics, Hegelian Triad, Self-Consciousness, Master-Slave Dialectic
<b>Text:</b> William Wordsworth	<i>The Prelude Book I</i> (Lines: 147-249)

**Unit 2 Marxism and Psychoanalysis (13 Hours)**

2.1 Freud and Jung	Id, Ego and Superego; Collective Unconscious
2.2 Karl Marx	Base and Superstructure
<b>Text:</b> Charles Dickens	<i>Hard Times</i> (Chapters 1-5);
Sylvia Plath	<i>Mirror</i>

<b>Unit 3 Existentialism</b>		<b>(15 Hours)</b>
3.1 Schopenhauer	The World as Will	
3.2 Nietzsche	Apollonian and Dionysian Principles	
3.3 Sartre	Awful freedom	
<b>Texts:</b> Ted Hughes	Tiger Psalm	
Kafka	<i>Metamorphosis</i>	
<b>Unit 4 Feminist Thought</b>		<b>(13 Hours)</b>
4.1 Toril Moi	Feminine, Feminist, Female	
4.2 bell hooks	Black Women - Shaping Feminist Theory	
<b>Text:</b> Makbula Manzoor	On the Road (in Galpa; Short Stories by Women from Bangladesh, Azim, Firdous and Niaz Zaman)	
<b>Unit 5 Practical Application Tasks</b>		<b>(10 Hours)</b>

## BOOKS FOR REFERENCE

Bhandari, D. R. *History of European Political Philosophy*. Bangalore Printing and Publishing, 1994.

Beauvoir, Simone De. *The Second Sex*. Vintage Books, 1949.

Copplestone, F. *A History of Philosophy*. Burn and Odes, 1959.

Durant, Will. *The Story of Philosophy*. Simon and Schuster, 1926.

Howells, Christina. Ed. *The Cambridge Companion to Sartre*. Cambridge UP, 1992.

Lavine, T.S. *From Socrates to Sartre: The Philosophical Quest*. Bantam Books, 1984.

Millet, Kate. *Sexual Politics*. Doubleday, 1970.

Russell, Bertrand. *History of Western Philosophy*. Unwin, 1979.

Zima, V., Peter. *Subjectivity and Identity: Between Modernity and Postmodernity*. Bloomsbury, 2015.

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – three out of five 100 word essays		3x5=15 marks
Section B – one out of three 400 word essay		1x15=15 marks
Section C – Passage Analysis (unseen literary text)		1x20=20 marks

**Other Components:** **Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation Creative Writing

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out of six 100 word essays on concepts		4x5=20 marks
Section B – three out of five 500 word essays		3x20=60 marks
Section C – Passage analysis (unseen literary text)		1x20=20 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19CE/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.



## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group discussions
- Group presentation
- Role play

### **No End Semester Examination**

**No CA test**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LITERARY CRITICISM**

**CODE: 19CE/MC/LC44**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To familiarize the students with the key concepts and texts of literary criticism.
- To help the students gain an understanding of the development of modern criticism and theory.
- To train the students to apply the theoretical concept and techniques to literary texts.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify, define and describe a variety of literary techniques and theories.
- identify the major critics and theorists.
- evaluate and analyse the strength and limitations of critical/theoretical arguments
- strengthen and deepen critical reading, writing and interpretive practices
- critically respond to texts using different critical and theoretical techniques

**Unit 1**

**(10 Hours)**

1.1 Introduction to Literary Criticism

M.H Abrams

Orientation of Critical Theories (from  
*The Mirror and the Lamp: Romantic  
Theory and the Critical Tradition* pp. 3-  
26)

1.2 Aristotle

*Poetics*  
Chapters 1,2,4,5,6,7,8  
(Penguin Translation)

**Text for Analysis**

Sophocles

*Oedipus Rex*

**Unit 2**

**(15 Hours)**

2.1 Philip Sidney

Extract from *Apology for Poetry*  
from V.S. Sethuraman: *Among the  
Roman...to teach and delight.* (46 –49)

2.2 Samuel Taylor Coleridge

*Biographia Literaria*

*Chapter XIII* (section on Fancy and Imagination) and *Chapter XIV* (The poet in ideal perfection ...)

2.3 Mathew Arnold

*The Study of Poetry*  
 ("Indeed there can be no more useful help...high poetic seriousness are absent from his substance and matter")

**Unit 3 New Criticism, Structuralism and Semiotics (15 Hours)**

- |                     |                                    |
|---------------------|------------------------------------|
| 3.1 T.S Eliot       | Tradition and Individual Talent    |
| 3.2 Cleanth Brooks  | Language of Paradox                |
| 3.3 Raman Selden    | Binary Oppositions - Arthur Miller |
| 3.4 Tzvetan Todorov | The Typology of Detective Fiction  |

**Unit 4 Reader Response Theory (15 Hours)**

- |                   |                                     |
|-------------------|-------------------------------------|
| 4.1 Wolfgang Iser | Interaction Between Text and Reader |
|-------------------|-------------------------------------|

**Unit 5 Practical Application Tasks (10 Hours)**

Practical analysis of literary texts/passages applying relevant critical concepts

**BOOKS FOR REFERENCE**

- Barthes, Roland. *Mythologies*. Translated by Annette Lavers, Vintage, 1993.
- Guerin Wilfred et al. *A Handbook of Critical Approaches to Literature*. Oxford, 1992.
- Habib, M.A.R. *A History of Literary Criticism and Theory: From Plato to the Present*. Wiley-Blackwell, 2005.
- Lodge, David. *Modern Criticism & Theory*. London: Longman, 1991.
- Ramanujan, A.K. "On Ancient Tamil Poetics." *Indian Literary Criticism*, Edited by G.N. Devy Hyderabad: Orient Longman. 2006.
- Selden and Widdowson. *Contemporary Critical Theory*. Lexington: The UP of Kentucky, 1993.
- Selden, Raman. *The Theory of Criticism*. Longman, London & New York. 1998.
- Sethuraman, V.S. *Indian Aesthetics*. Madras: Macmillan India Ltd., 1977.
- Wimsatt, William and Cleanth Brooks. *Literary Criticism: A Short History*. UP, 1992.
- Wordsworth, William. "Preface to the Lyrical Ballads." *English Critical Texts*, Edited by Enright and Chickera, OUP, 1962.

## **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 100 word essays		2x5 = 10 marks
Section B –two out of four 200 word essays		2x10 = 20 marks
Section C – One passage analysis applying critical concepts (500 words)		1x20 = 20 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>
Analysis of Unseen Passages applying critical concepts learnt	
Analysis of movies based on Aristotle’s criteria	
Oral Presentations on texts of literary criticism (not prescribed in the syllabus; from the period covered in the syllabus)	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out of six 200 word essays		4x10 = 40 marks
Section B – two out of four 500 word essays		2x20 = 40 marks
Section C – One passage analysis- with concepts given or One analysis- choosing any concept (500 words)		1x20=20 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CONTEMPORARY WORLD LITERATURE**

**CODE: 19CE/MC/CW45**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce students to writers and texts from across the world that represent the contemporary milieu
- To enable students to read, analyse and assess twenty-first century literature in the light of global, national and other topical issues
- To develop in students a deeper understanding and awareness of these contemporary issues in relation to their lives
- To engage with the collaborations, cross-overs and confrontations of various identities and cultures from across the world

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- critically analyse contemporary literature and the social, political, economic and cultural contexts that shape them
- appreciate different genres of literature that reflect the contemporary times
- appreciate hybrid and cultural identities of the twenty-first century from across the world
- analyse thematic patterns incorporated by contemporary authors
- relate to the texts and arrive at a better understanding of the contemporary world

**Unit 1 Poetry (15 Hours)**

1.1 Mourid Barghouthi	A Night Unlike Others
1.2 Lionel Fogarty	Connection Requital
1.3 Meena Kandasamy	The Seven Stages
1.4 Dunya Mikhail	The Stranger in Her Feminine Sign
1.5 Kathryn Gwun-Yeen Lennon	Come West, Young Man

**Unit 2 Fiction (25 Hours)**

2.1 Suzanne Collins	<i>The Hunger Games</i> (Book 1)
2.2 Chimamanda Ngozi Adichie	The Thing Around Your Neck
2.3 Haruki Murakami	Birthday Girl
2.4 Alice Munro	The Bear Came Over the Mountain

<b>Unit 3 Non-Fiction</b>	<b>(15 Hours)</b>
3.1 Siddhartha Deb	The Girl from F&B: Women in the Big City
3.2 Wangari Maathai	Learning from Trees (extract from her Nobel Peace Prize acceptance Speech)
<b>Unit 4 Drama</b>	<b>(15 Hours)</b>
4.1 Caryl Churchill	<i>A Number</i>
<b>Unit 5 Graphic Novel</b>	<b>(8 Hours)</b>
5.1 Barbara Yelin (Germany)	<i>Irmina</i>

### BOOKS FOR REFERENCE

- Baetens, Jan and Hugo Frey. *The Graphic Novel: An Introduction*. Cambridge University Press, 2015.
- Dawisha, Adeed. *Arab Nationalism in the Twentieth Century: From Triumph to Despair*. Princeton University Press, 2016.
- Etherington, Ben and Jarad Zimble, editors. *The Cambridge Companion to World Literature*. Cambridge University Press, 2018.
- Küpper, Joachim, editor. *Approaches to World Literature*. Walter de Gruyter, 2013.
- McCloud, Scott, *Understanding Comics: The Invisible Art*. Harper Perennial, 1994.
- Reddy, Bayapa, editor. *Aspects of Contemporary World Literature*. Atlantic, 2008.
- Schwarz, Henry and Sangeeta Ray, editors. *A Companion to Postcolonial Studies*. Blackwell, 2000.
- Tabachnik, Stephen E., editor. *The Cambridge Companion to the Graphic Novel*. Cambridge University Press, 2017.

### PATTERN OF EVALUATION

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 200 word essays		2 x 10 = 20 marks
Section B – two out of four 400 word essays		2 x 15 = 30 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Passage Analysis/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation	

<b>End Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out of six 200 word essays		4 x 10 = 40 marks
Section B – three out of five 400 word essays		3 x 15 = 45 marks
Section C – passage analysis from the texts prescribed		1 x 15 = 15 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LITERATURE AND GENDER**

**CODE: 19CE/AC/GD45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable students to explore literary texts with reference to gender relations and gendered ways of thinking
- To help students understand gender construction and perpetuation in society
- To enable students to use critical concepts and theoretical frameworks to analyse literary texts and extend this understanding to real life contexts

**COURSE LEARNING OUTCOME**

On successful completion of the course, the students will be able to

- display a knowledge of the history of Women's Movements and the development of Gender and Queer Studies
- apply appropriate concepts and critical frameworks for a gendered reading of canonical texts as well as contemporary literature
- respond sensitively to the construction of gender in other media and real life contexts
- understand the intersectionality of race, class and gender
- extend the critical tools to their engagement with textual as well as real life contexts

<b>Unit</b>	<b>1 Introduction</b>		<b>(10 Hours)</b>
	1.1 Virginia Woolf	<i>A Room of One's Own</i>	
<b>Unit</b>	<b>2 Poetry and Fiction</b>		<b>(15 Hours)</b>
	2.1 Adrienne Rich	Snapshots of a Daughter-in-law	
	2.2 Grace Nichols	The Fat Black Woman Goes Shopping	
	2.3 Shashi Deshpande	<i>Small Remedies</i>	
<b>Unit</b>	<b>3 Autobiography</b>		<b>(12 Hours)</b>
	3.1 Revathi	<i>Truth About My Life</i> (Penguin 2010)	
<b>Unit</b>	<b>4 Drama</b>		<b>(13 Hours)</b>
	4.1 Caryl Churchill	<i>Top Girls</i>	

## **Unit 5 Practical Application Tasks**

**(15 Hours)**

Specific tasks relevant to the concepts discussed in Units 1 to 4 will be assigned as class work

### **BOOKS FOR REFERENCE**

- Bhasin, Kamla. *Understanding Gender*. Kali for Women, 2000.
- Bhuthalia, Urvashi. "Confrontation and Negotiation: The Women's Movement's Response to Violence Against Women," *The Politics of Gender, Identity and Social Equality in India*. Kali for Women, 2002. pp. 207-33.
- Cann, Victoria. *Girls Like This, Boys Like That: Understanding the (Re)Production of Gender in Contemporary Youth Cultures*. I.B Tauris, 2018.
- Foran, John. "Alternatives to Development: Of Love, Dreams and Revolution," *Feminist Futures: Reimagining Women Culture and Development*. Ed. Kumkum Bhavnani, John Foran and Priya Kurian, Zubaan, 2003. pp. 268-274.
- Mackinnon, Catherine. "Towards a Feminist theory of State" *Feminisms*. Ed. Sandra Kemp and Judith Squires, 1997, pp. 351-358.
- Mies, Maria and Vandana Shiva. *Ecofeminism*. Zed Books, 1993.
- Rich, Adrienne. "When We Dead Awaken: Writing as Re-vision," *Adrienne Rich's Poetry*, Ed. Barbara Charles and Albert Gelpi, Norton, 1995, pp. 90-98.
- Sen, Amartya. "Gender and Co-operative Conflicts," *Capabilities, Freedom and Equality*, Ed. Bina Agarwal, Jane Humphries, Ingrid Robeyns, 2006, pp. 458-84.

### **JOURNALS**

Indian Journal of Gender Studies (Sage)  
A Journal of Feminist Cultural Studies  
Feminist Review  
A Journal of Women Studies

### **WEBSITES**

<http://www.feministreview.org/>  
<http://ftv.sagepub.com>  
<http://dukeupress.edu/cameraobscura>



## **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of five 200-word essays		2x10=20 marks
Section B – two out of four 400-word essays		2x15=30 marks
<b>Unit 1 is not for testing.</b>		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Passage Analysis/Quiz Panel Discussion/Group Presentation/Role-Play/Dramatisation	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A - two out four 500-word essays		2x20=40 marks
Section B - three out of five 400-word essays		3x15=45 marks
Section C - Passage analysis (prescribed texts)		1x15=15 marks
<b>Unit 1 is not for testing.</b>		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENGLISH LANGUAGE TEACHING**

**CODE: 19CE/MC/LT55**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To enable students to distinguish between language acquisition and language learning
- To acquaint the students with the psychology of language learning
- To equip students with the skills to identify the methods and approaches in language teaching.
- To train them to prepare materials for teaching the four skills of language.
- To train students in assessing the needs of learners and in preparing lesson plans for different levels of learners
- To familiarise students with the different components of curriculum
- To help students gain an understanding of the principles of language testing and the different kinds of tests

**COURSE LEARNING OUTCOMES**

On successful completion of the course the student will be able to

- gauge and use effectively the strategies identified by psychology with reference to language learning
- demonstrate awareness of appropriate teaching strategies
- demonstrate knowledge about language skills, and the different tasks that could be used to train learners in the use of the language
- assess learner needs and plan and teach lessons which take into account learners' backgrounds and needs
- plan and prepare lessons designed to develop their learners' overall language competence
- distinguish between the various kinds of tests and their purpose

**Unit 1 Language Acquisition**

**(13 Hours)**

**1.1 First Language Acquisition of the Child**

**1.1.1 Lateralization of the Brain**

**1.1.2 Learning by Imitation**

**1.1.3 Language Acquisition Devices**

**1.1.4 Generalisation**

**1.2 Second Language Learning of the Adult**

**1.2.1 Mother tongue Interference**

**1.2.2 Psychological and Sociological Factors Influencing Second Language Learning**

**Unit 2 Psychology of Learning (15 Hours)**

- 2.1 Behaviourism
  - 2.1.1 Behaviourist Psychology
  - 2.1.2 Stimulus–Response Learning
  - 2.1.3 Reinforcement
- 2.2 Cognitive Learning
  - 2.2.1 Cognitive Structure
  - 2.2.2 Concept Formation
  - 2.2.3 Theory of Subsuming
  - 2.2.4 Theory of Forgetting
  - 2.2.5 Bloom’s Taxonomy
- 2.3 Humanistic Approach to Learning
  - 2.3.1 The Teacher–Student Relationship

**Unit 3 Approaches, Methods and Techniques in Language Teaching (20 Hours)**

- 3.1 A survey of the Grammar Translation Method, the Situational Method and the Audio-Lingual Method
- 3.2 Communicative Approach
  - 3.2.1 Communicative Competence as different from Linguistic Competence
  - 3.2.2 The Teacher's Role—The Student's Role
  - 3.2.3 Task- based activities in the class
- 3.3 Skills Approach
  - 3.3.1 Teaching Reading Skills—Skimming, Scanning and Intensive Reading
  - 3.3.2 Teaching Listening Skills—Listening for Specific Details, Keywords, Concepts
  - 3.3.3 Teaching Speaking Skills—Expressing Ideas, Opinions, Presenting an Argument.
  - 3.3.4 Teaching Writing Skills—Writing a Paragraph—Topic Sentence, Main Idea, Supporting Ideas, Concluding Sentence—Descriptive and Narrative Writing

**Note 3.1.1 only for short answers (no essay questions)**

**Unit 4 Syllabus (15 Hours)**

- 4.1 Definition of Syllabus and Curriculum
  - 4.1.1 The Components of a Syllabus
  - 4.1.2 Testing and Evaluation
- 4.2 Kinds of Tests
  - 4.2.1. Placement Test
  - 4.2.2 Diagnostic Test
  - 4.2.3 Progress Test
  - 4.2.4 Achievement Test
  - 4.2.5 Proficiency Test
- 4.3 Criteria involved in Validity and Reliability

**Unit 5 Materials Production (15 Hours)**

- 5.1 Use of Conventional Resources
- 5.2 Use of Audiovisual Aids and Computer Software

## BOOKS FOR REFERENCE

- Fulcher, Glen and Fred Davidson. *Language Testing Assessment*. Routledge, 2007.
- Hall, Graham. *Exploring English Language Teaching: Language in Action*, 2 ed. Routledge, 2017.
- Krashen, Stephen D. *Second Language Acquisition and Second Language Learning*. Pergamon Press, 1981.
- Lefrancois, Guy R. *Psychology for Teaching*. Wordsworth Publishing Co., 2000.
- Mc Whorter, Kathleen. *College Reading and Study Skills*. Little, Brown and Company, 1986.
- Prabhu, N.S. *Communicative Teaching Project*. Bulletin of the Regional Institute of English, 1981.
- Richards, Jack C. and Theodore S. Rodgers. *Approaches and Methods in Language Teaching*. Cambridge UP, 2001.
- Yule, George and Gillian Brown. *Teaching Spoken English*. Cambridge UP, 1983.

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – three out of five-200 words essay		3x5=15 marks
Section B – one out of three-500 words essay		1x15=15 marks
Section C – Framing tasks for a given passage		20 marks
<b>Other Components:</b>	<b>Total Marks: 50</b>	
Micro teaching (Teaching their own class mates)		30 marks
Lesson plan		20 marks
<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A– five out of seven - 200 words essays		5x6=30 marks
Section B –three out of five - 500 words essays		3x15=45 marks
Section C – Framing tasks for a given passage		25 marks

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2019-2020)

INDIAN LITERATURES I

CODE: 19CE/MC/IL55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS:78

### OBJECTIVES OF THE COURSE

- To introduce students to Indian Literatures written in various languages from the classical age to the pre-independence era
- To introduce students to various genres of literature from different regions across India
- To trace the continuity, interrogation and change from classical to the pre-independence era in Indian Literature
- To enable students to understand the multiplicity of historical, social, cultural and political milieu of India as reflected in literature

### COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- appreciate, analyse, interpret and critique Indian Literature written in various languages from the classical age to the pre-independence era
- critically engage with various genres of Indian literatures written during this period
- relate Indian literatures to important historical, social, cultural and political developments that influenced it
- appreciate and engage critically with polyphonic discourses in Indian Literatures

### Unit 1 Indian Aesthetics and Thought

(15 Hours)

- 1.1 Ananda Coomaraswamy
- 1.2 A.K. Ramanujan
- 1.3 Arundhati Subramaniam

That Beauty is a State  
Afterword to *Poems of Love and War*  
Introduction to *Eating God: A Book of Bhakti Poetry*

### Unit 2 Upto the 6<sup>th</sup> Century AD

(15 Hours)

- 2.1 A.K. Ramanujan
- 2.2 Bhasa
- 2.3 Sangam Poetry
  - 2.3.1 Akam
  - 2.3.2 Puram

Flowering Tree. From *The Flowering Tree and Other Oral Tales from India*.  
Ed. Stuart Blackburn and Alan Dundes  
*Urubhangam*

Kuruntokai 25. Only a thief was there  
Narrinai 179. If a calving Cow  
Puranauru 235. If he found a little  
liquor  
Purananuru 69. Dear Singer  
(from A. K. Ramanujan. *Poems of Love and War*)

2.4 Therigatha

Punna or Punnika  
Ambapali  
(Translated by Charles Hallissey)

### Unit 3 7<sup>th</sup> Century to 18<sup>th</sup> Century

(15 Hours)

3.1 Bulle Shah

I have been pierced by the arrow of love, what shall I do?

3.2 Chokhamela

They thrash me Vithu

3.3 Soyra Bai

You say some bodies (from *Eating God. A Book of Bhakti Poetry* pp. 49)

3.4 Meera Bai

These eyes: like... (from *Three Bhakti Voices*. pp. 112-113)

3.5 Devara Dasimayya

Poem 120 (from *Speaking of Siva*)

3.6 Salabega

Get lost, you dirty flirt (from *Eating God* pp 127)

3.7 Ramprasad Sen

What a Joke (from *Singing to the Goddess: Poems to Kali and Uma from Bengal* pp. 22-23)

3.8 Babur

*Baburnama* Description of Kabul (pp. 199-207)

### Unit 4 19<sup>th</sup> Century to 1947

(20 Hours)

4.1 Toru Dutt

The Tree of Life

4.2 Chandu Menon

*Indulekha* (Trans. Anitha Bevasia

4.3 Rabindranath Tagore

*Chitra*

4.4 Munshi Premchand

Wife into Husband (from *Oxford India Premchand*)

4.5 Ammani Ammal

Expectation and the Event (from *The Tamil Short Story: Through the Times, Through the Tides* pp. 1-4)

### Unit 5 Practical Application Tasks

(13 Hours)

Specific tasks relevant to the concepts and techniques discussed in Units 1 to 4 will be assigned as class work

### BOOKS FOR REFERENCE

Afterword. *The Flowering Tree and Other Oral Tales from India*. Ed. Stuart Blackburn and Alan Dundes. Penguin Books, 1997.

Bhat, G.K. "Two Plays of Tragic Design and Tragic Intent." *Tragedy and Sanskrit Drama*, Bhandarkar Oriental Institute, 1976.

Chakravathy, Uma. "The Rise of Buddhism as Experienced by Women." Manushi.

Devy G N. *After Amnesia*. Orient Longman, 1994.

Naik, M K. *A History of Indian Literature*. Sahitya Akademi, 2005.

Pollock, Sheldon I. *A Rasa Reader: Classical Indian Aesthetics*. Columbia University Press, 2018.

Ramanujan A.K. Afterword. *Poems of Love and War*. Oxford University Press. 1996

### JOURNALS

Indian Literature

Kavya Bharathi

The Little Magazine

The Journal of Commonwealth Literature

Literary Criterion

## WEB RESOURCES

[www. sawnet.com](http://www.sawnet.com)

[www.ntm.org.in](http://www.ntm.org.in)

[www.indianruminations.com](http://www.indianruminations.com)

[ccrtindia.gov.in/literaryarts.php](http://ccrtindia.gov.in/literaryarts.php)

## PATTERN OF ASSESSMENT

### **Continuous Assessment Test:      Total Marks: 50**

**Duration: 90 minutes**

Section A- two out of four 300-word essays

2x15=30 marks

Section B- one out of two 400-word essay

1x20=20 marks

### **Other Components:      Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work-  
Passage Analysis/Quiz/Panel Discussion/Group Presentation/Role – Play/Dramatisation  
Creative Writing

### **End-Semester Examination:      Total Marks: 100**

**Duration: 3 hours**

Section A- four out of six 300-word essays

4x15=60 marks

Section B- two out of four 400-word essay

2x20=40 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENGLISH FOR ADVERTISING**

**CODE: 19CE/MC/EA55**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce students to the basic concepts in advertising
- To enable students to understand the relationships between market forces and advertising
- To train students to think in creative ways to advertise products
- To train students to use language creatively and appropriately to create advertisements in the print and broadcast media

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of some of the basic concepts related to advertising
- identify the relationships between advertising and market forces
- formulate creative ways to advertise a product/service with respect to its position in the market
- use English creatively and effectively to produce advertisements in the print and broadcast media
- recognise the societal impact of advertising and the need for ethical advertisers

**Unit 1 Introduction to Advertising (15 Hours)**

- 1.1. The Need For Advertisements
- 1.2. Kinds of Advertisements
- 1.3. Social and Ethical Aspects of Advertising
- 1.4. Ethical Issues in Advertising

**Unit 2 Preparing to create Advertisements (14 Hours)**

- 2.1 Reading Advertisements as a Sign of Social Values and Beliefs, Reading for Hidden Messages and Implications
- 2.2 The Advertising Agency
  - 2.2.1 The Role of the Advertising Agency
  - 2.2.2 Various Departments and their Functions
- 2.3 The Promotional Mix
- 2.4 Advertiser's Pyramid
- 2.5 Copywriter's Pyramid



<b>Unit 3</b>	<b>Creating Print Advertisements</b>	<b>(14 Hours)</b>
3.1	Parts of a Print Ad	
3.1.1	Headlines	
3.1.1.2	Kinds of Headlines – Straight-Sell, Announcement, Word-Play, Before-After, Question	
3.1.2	Body Copy	
3.1.2.1	Body Copy Styles	
3.1.2.2	Sections of a Body Copy	
3.1.3	Logo	
3.1.4	Certification	
3.1.5	Contact Information	
3.2	Text-Visual Relationship	
3.3	Taglines and captions	
<b>Unit 4</b>	<b>Creating Radio Advertisements</b>	<b>(15 Hours)</b>
4.1	Radio Jingles	
4.1.1	Jingles, Spots and Commercials	
4.1.2	Writing Scripts	
4.1.3	Using Sound Effects	
4.1.4	Language in Radio Jingles	
<b>Unit 5</b>	<b>Creating Television and Web Advertisements</b>	<b>(20 Hours)</b>
5.1	Creating Television Storyboard	
5.1.1	Storyboard Format	
5.1.2	Showing and Telling	
5.2	Creating Web Advertisements	
5.2.1	Flash Advertisement	
5.2.2	Pop-ups	

## BOOKS FOR REFERENCE

Chapman, Nigel. *Digital Multimedia*. John Wiley and Sons, 2000.  
*Mass Media and Mass Communication*. Chdadwick Healy, Cambridge, 1991.  
*Mass Media in India 2000*. Ministry of Information and Broadcasting, New Delhi, 2000.  
Mencher, Melvin. *Basic Media Writing*. Brown and Benchmark, 1996.

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 mins</b>
Section A – one out of two four 400 word essays		1x15 = 15 marks
Section B – three out of four 75 word essays		3x5 = 15 marks
Section C – Creating product and brand name for a given visual		2x10 = 20 marks
Creating an ad on a given topic		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Presentation/Take Home Test/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation/Creating a Storyboard	

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – four out of six 200 word essays on theory of advertisements 4x10 = 40 marks

Section B – two out of four 75 word essays 2x5 = 10 marks

Section C- Creating product, brand name for a given visual  
(two out of four)

2x5=10 marks

Creating print ad on a given topic (one out of two):

1x10=10 marks

Creating radio jingle on a given topic (one out of two):

1x10=10 marks

Creating television storyboard on a given topic (one out of two):

1x20=20 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Interdisciplinary Core Course Offered by the Departments of English (English and Communication Skills) and Psychology to B.A. English and Communication Skills and B.Sc. Psychology Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LITERATURE AND PSYCHOLOGY**

**CODE: 19ID/IC/LP55**

**CREDITS: 5**

**LTP: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce students to the interdisciplinary aspects between Literature and Psychology
- To help students understand the fundamentals of human behaviour
- To encourage students to employ psychological concepts in their understanding of literary texts

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate an ability to interpret literary texts from literary and psychological perspectives
- explain psychological theories and their application in the attitude of individuals and group behaviour
- integrate basic concepts of psychology to explain human behavior in everyday life
- critique literary works using key concepts in psychology
- appreciate and identify various attribute of interdisciplinarity of texts

**Unit 1 Introduction to Core Concepts (14 Hours)**

- 1.1 Personality- nature, brief overview of determinants of personality
- 1.2 Overview of social behaviour and positive psychology
- 1.3 Overview of developmental psychology and abnormal psychology
- 1.4 Introduction to major theorists – Freud, Jung, Lacan, Kristeva

**Unit 2 Developmental Psychology (20 Hours)**

- 2.1 Stephen Chbosky *The Perks of Being a Wallflower*
- 2.2 Psychosocial issues in adolescence
- 2.3 Identity development in adolescence
- 2.4 Trauma, abuse and sexual identity

**Unit 3 Abnormal Psychology (16 Hours)**

- 3.1 Henry James *The Turn of the Screw*
- 3.2 Psychosis- losing touch with reality, visual hallucinations
- 3.3 Edgar Allan Poe *The Tell-Tale Heart*
- 3.4 Psychosis- delusions and paranoia
- 3.5 Psychopathy- presentation and traits

<b>Unit 4 Social Psychology</b>		<b>(12 Hours)</b>
4.1 Anne Sexton	Pain for Daughter	
4.2 Grief, stages of grieving		
4.3 Meena Kandasamy	ONE-eyed	
4.4 Prejudice, discrimination and casteism		
<b>Unit 5 Positive Psychology</b>		<b>(16 Hours)</b>
5.1 Gabriele Muccino	<i>The Pursuit of Happyness</i>	
5.2 Resilience, optimism and hope		
5.3 Coping and gratitude.		

## BOOKS FOR REFERENCE

Baron. *Psychology*. Pearson Education India, 2001.

Gottschall, Jonathan and David Sloan Wilson, editors. *The Literary Animal: Evolution and the Nature of Narrative*. Northwestern University Press, 2005.

Haycock, Dean. *Characters on the Couch: Exploring Psychology through Literature and Film*. Greenwood, 2016.

Knapp, John V. "New Psychologies and Modern Assessments: Rethinking Classics in Literature, including Film and Music."

Lindauer, Martin S. *Psyche and the Literary Muses: The Contribution of Literary Content to Scientific Psychology*.

Santos, Rosemary Conceição et al. "Psychology of Literature and Literature in Psychology."

Snyder, C. R., Lopez, S. J., & Pedrotti, J. T. *Positive Psychology: The Scientific and Practical Explorations of Human Strengths*. Sage Publications, 2011.

Winterowd, W. R. and Preston, C. *Themes and Variations: A College Reader*. Harcourt, 1985.

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – Two out of four in 250 words		2 x 10 = 20
Section B – Passage analysis 350 words		2 x 15 = 30

**Other Components:** **Total Marks: 50**  
 Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Passage Analysis  
 Quiz/Panel Discussion/Group Presentation

**Term paper:** **Total Marks: 100**  
 Students will choose a theory and will be tested on its application to a corresponding text  
 (Word limit: 1500-2000 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDIAN LITERATURES II**

**CODE: 19CE/MC/IL65**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce students to Indian Literatures written in various languages from Independence to the contemporary times
- To introduce students to various genres of Literature from different regions across India.
- To enable students to understand the historical, social, cultural and political milieu of India through its literature.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- analyse Indian Literatures written in various languages from Independence era to contemporary times
- critically appreciate various genres of Literature written across India
- relate Indian Literature to important historical, social, cultural and political developments that influenced the same.

**Unit 1 Indian Thought and Aesthetics**

**(12 Hours)**

Sharankumar Liumbale

Dalit literature and Aesthetics (from *Dalit Aesthetics* pp 103-121)

A K Ramanujan

Is there an Indian way of thinking?

Ranjit Hoskote

Reasons for Belonging

**Unit 2 1947 to 1980**

**(14 Hours)**

R K Narayan

Short Story

Nissim Ezekiel

Background, Casually

Jayaprabha

Burn this Sari (from *The Oxford Anthology of Modern Indian Poetry*. Ed. Vinay Dharwadkar and A K Ramanujan. pp 169-170)

Imtiaz Dharker

Purdah 1 (from *The Oxford Anthology of Modern Indian Poetry*. Ed. Vinay Dharwadkar and A. K. Ramanujan. pp. 170-71)

Kamala Das

The Old Playhouse

Sujatha Bhatt

The Stare

**Unit 3 1980 to 2000 (20 Hours)**

Kaifi Azmi	The Last Night (from <i>Selected Poems</i> . Kaifi Azmi. Trans. Pavan K Varma
Indira Goswami	Under the Shadow of Kamakhya
Amrita Pritam	The Annunciation (from <i>Selected Poems of Amrita Pritam</i> )
Na Muthuswamy	Naarkalikkarar (from <i>Four Tamil Plays</i> . Ed. K Latha et al)
Urvashi Butalia	Honour (from <i>The Other Side of Silence</i> )

**Unit 4 2000 onwards (22 Hours)**

Arundhati Roy	<i>The Ministry of Utmost Happiness</i>
Thangjam Ibopishak	The Land of the Half Humans (from <i>Anthology of Contemporary Poetry from the Northeast</i> pp. 93-94)
Monalisa Changkija	Of a People unanswered (from <i>Anthology of Contemporary Poetry from the Northeast</i> pp 16)
Mahesh Dattani	Arun Kolatkar (from <i>Sarpa Satra</i> ) <i>Final Solutions</i>

**Unit 5 Practical Application Tasks (10 Hours)**

**BOOKS FOR REFERENCE**

- Devy, G N. *After Amnesia*. Orient Longman, 1994.
- Dharwadker, Vinay. "Afterword: Modern Indian Poetry and its contexts." *The Oxford Anthology of Modern Indian Poetry*. OUP, 2008.
- *The Oxford Anthology of Modern Indian Poetry*. OUP, 2008.
- Hoskote, Ranjit. "Introduction." *Reasons for Belonging: Fourteen Contemporary Indian Poets*. edited by Hoskote, Penguin, 2004.
- Kakkar, Sudhir and Katharina Kakkar. *The Indians: Portrait of a People*. Penguin, 2007.
- King, Bruce, "Ezekiel and His Influence," *Modern Indian Poetry in English*. Oxford UP, pp. 91-109.
- Mehrotra, Arvind Krishna. Ed. *An Illustrated History of Indian Literature in English*. Permanent Black, 2003.
- Naik, M K. *A History of Indian Literature*. Sahitya Akademi, 2005.
- Ramaswamy, Radha. "Towards a Multicultural Theatre: Mahesh Dattani and the Changing Audience for Contemporary Indian Drama in English." *Mahesh Dattani's Plays: Critical Perspectives*, edited by Angelie Multani.
- De Souza, Eunice. *Talking Poems: Conversations with Poets*. Oxford UP, 1999.

**JOURNALS**

- Indian Literature
- Kavya Bharathi
- The Little Magazine
- The Journal of Commonwealth Literature
- Literary Criterion
- Indian Journal of English Studies

## WEB RESOURCES

[www.sawnet.com](http://www.sawnet.com)

[www.ntm.org.in](http://www.ntm.org.in)

[www.indianruminations.com](http://www.indianruminations.com)

[ccrtindia.gov.in/literaryarts.php](http://ccrtindia.gov.in/literaryarts.php)

## PATTERN ASSESSMENT

### Continuous Assessment:

**Total Marks: 50**

**Duration: 90 hours**

Section A- two out of four 400-word essays

2x15=30 marks

Section B- one out of two 500-word essay

1x20=20 marks

### Other Components:

**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work-Passage Analysis/Quiz/Panel Discussion/Group Presentation/Role – Play/Dramatisation  
Creative Writing

### End-Semester Examination:

**Total Marks: 50**

**Duration: 3 hours**

Section A- four out of six 400-word essays

4x15=60 marks

Section B- two out of four 500-word essays

2x20=40 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**AMERICAN LITERATURE**

**CODE:19CE/MC/AL65**

**CREDITS:5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To train students to identify, understand and appreciate the trajectory of the evolution of American Literature
- To introduce students to the diverse socio-cultural aspects and multiplicities of expression in American Literature
- To help students understand American Literature as an outcome of its traditions and cultures
- To equip students with the requisite technical and ideological tools to interrogate literary expressions produced by the different ethnic communities of America
- To train students to understand and deconstruct the notion of American nationhood

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- display adequate knowledge and understanding of the trajectory of the evolution of American Literature
- demonstrate an understanding of the diverse socio-cultural aspects and multiplicities of expression in American Literature
- display analytical skills appropriate to reading American Literature as an outcome of its traditions and cultures
- critically analyse and interrogate literary expressions produced by the different ethnic communities of America
- deconstruct the notion of American nationhood through a critical engagement with literary texts.

<b>Unit 1 Prose</b>		<b>(10 Hours)</b>
1.1. Emerson	<i>Self-Reliance</i>	
<b>Unit 2 Poetry</b>		<b>(20 Hours)</b>
2.1. Robert Frost	Fire and Ice Birches	
2.2. e.e. cummings	next to of course god America	
2.3. Langston Hughes	The Negro Speaks of Rivers Dream Deferred	
2.4. Joy Harjo	Equinox	
2.5. Nikki Giovanni	Nikki-Rosa	
2.6. Elizabeth Bishop	The Fish	



**Unit 3 Drama** (15 Hours)  
3.1. Arthur Miller *Death of a Salesman*

**Unit 4 Fiction** (25 Hours)  
4.1. Mark Twain *The Adventures of Huckleberry Finn*  
4.2. Hemingway *The Old Man and the Sea*  
4.3. Amy Tan *Two Kinds*

**Unit 5 Practical Application Tasks** (8 Hours)

## BOOKS FOR REFERENCE

- Bigsby, C.S. *A Critical Introduction to Twentieth Century American Drama Vol II*. Cambridge University Press, 1984.  
Jarret, Gene Andrew. *The Wiley-Blackwell Anthology of African American Literature: Vol I and II*. Wiley Blackwell, 2014.  
---. *Companion to African American Literature*. Wiley Blackwell, 2013.  
Hoffman, Daniel. *Harvard Guide to American Writing*. Harvard University Press, 1979.  
Miller, Arthur. "Introduction", *Collected Plays of Arthur Miller*. Allied Publishers, 1973.  
Mitchell, Angeline. *The Cambridge Companion to African American Women's Literature*. Cambridge University Press, 2009.  
Perkins, David. *Modern American Poetry 1945-2000 –An Introduction*. Blackwell Publishers, 2006.  
Porter, Joy and Kenneth M. Roemer. *The Cambridge Companion to Native American Literature*. Cambridge University Press, 2005.  
Wagner-Martin, Linda. *History of American Literature*. Wiley Blackwell, 2016.

## JOURNALS

[americanliterature.dukejournals.org/](http://americanliterature.dukejournals.org/)

## WEBSITES

[www.wsu.edu/~campbelld/amlit/sites.htm](http://www.wsu.edu/~campbelld/amlit/sites.htm)  
[www.library.rochester.edu/subject/.../web-resources](http://www.library.rochester.edu/subject/.../web-resources)  
[americanliteratureassociation.org](http://americanliteratureassociation.org)  
[www.lang.nagoya-u.ac.jp/~matsuoka/AmeLit-G.html](http://www.lang.nagoya-u.ac.jp/~matsuoka/AmeLit-G.html)

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 250-word essays		2x10=20 marks
Section B – two out of four 500-word essays		2x15=30 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis/Quiz/Panel Discussion/Group Presentation	

<b>End-Semester Examination:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Section A – four out of six 250-word essays		4x10=40 marks
Section B – three out of six 600-word essays		3x20=60 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TECHNICAL WRITING**

**CODE: 19CE/MC/TW65**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce students to various styles and methods in technical writing
- To train students in using basic online packages and applications as tools for technical writing
- To acquaint the students with practical application of technical writing

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- follow the three stages of the writing process (prewriting/writing/rewriting)
- demonstrate an understanding of styles and methods in Technical Writing
- write with clarity, coherence and grammatical accuracy
- find, evaluate and use online packages and applications effectively
- understand how to critically analyse and interpret data and acknowledge the sources with proper citation

<b>Unit 1</b>	<b>Introduction</b>	<b>(13 Hours)</b>
1.1.	What is Technical Writing?	
1.2.	Difference between Technical and Academic Writing	
1.3.	The scope of Technical Writing	
<b>Unit 2</b>	<b>Clarity, Precision and Appropriacy</b>	<b>(15 Hours)</b>
2.1.	Using Appropriate Vocabulary	
2.2.	Grammatical Accuracy	
2.3.	Formal and Informal Style	
2.4.	Writing with Clarity and Precision	
2.5.	The Fog Factor	
<b>Unit 3</b>	<b>The Writing Process</b>	<b>(15 Hours)</b>
3.1.	Pre-writing	
3.2.	Re-writing	
3.3.	Editing (using track changes)	
<b>Unit 4</b>	<b>Application of Technical Writing</b>	<b>(20 Hours)</b>
4.1.	Writing Proposals	
4.2.	User Manual and Brochures	
4.3.	Book and Film Review	

<b>Unit</b>	<b>5</b>	<b>Practical Application Tasks</b>	<b>(15 Hours)</b>
	5.1.	Creating a Blog	
	5.2.	Creating a Web Page	
	5.3.	Writing for the Web	

## **BOOKS FOR REFERENCE**

Blicq, Ronald, S and Lisa Moretto. *Technically Write!* Prentice Hall, 2004.  
 Reddy, Devaki and Shreesh Chaudhary. *Technical English*. Macmillan, 2009.  
 Rizvi, Ashraf M. *Effective Technical Communication*. Tata McGraw-Hill, 2006.  
 Samson, C Donald. *Editing Technical Writing*. Oxford Uni. Press, 1995.

## **Electronic Resource**

Business Writing – Clarity, UK

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:      Total Marks: 50**

Classwork for Portfolio preparation

### **Other Components:      Total Marks: 50**

Presentation/Take Home Test/Open Book Test/Group Presentation

### **End Semester Evaluation      Total Marks: 50**

Project: Designing a web page, with four links (to be submitted on a CD)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WORLD CLASSICS IN TRANSLATION**

**CODE: 19CE/ME/WC45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To examine classical literature from across the globe
- To familiarise students to varied genres of World Literature
- To critically analyse literary texts from the social, historical and cultural perspectives

**COURSE LEARNING OUTCOMES:**

On successful completion of the course students will be able to

- appreciate the qualities that make a work of literature a classic
- gain a comprehensive overview of different literatures from across the globe
- appreciate varied national and global identities and cultures
- identify different genres stemming from different cultures
- analyse literary texts from multiple perspectives

**Unit 1 The Epic (20 Hours)**

- 1.1 Homer *The Iliad Book I*  
1.2 Ilango Atikal *Cilappatikaram* Trans. R. Parthasarathy  
Book 1 – Cantos 1–3; Book 2 – Cantos 18–22

**Unit 2 Ritual and Drama: The Noh Play (5 Hours)**

- 2.1. Zeami Motokiyo *Hagoromo*

**Unit 3 Sufi Poetry (20 Hours)**

- 3.1 Rumi  
3.1.1 The Worm's Waking  
3.1.2 Wean Yourself  
3.1.3 Story Water  
3.1.4 The Night Air  
3.1.5. In Baghdad dreaming of Cairo, In Cairo Dreaming of Baghdad  
(from *The Essential Rumi* (1995) Trans. Coleman Barks. San Francisco: HarperCollins)

**Unit 4 Short Fiction (10 Hours)**

- 4.1. Boccaccio *The Decameron*  
Book I: 3<sup>rd</sup> day: IX story  
4.2 Somadeva Visamasila *The Kathasaritsagara* Trans. Arshia Sattar

**Unit 5 Practical Application Tasks****(10 Hours)**

Specific tasks relevant to the concepts and techniques discussed in Units 1 to 4 will be assigned as class work

**BOOKS FOR REFERENCE**

Eliot, T. S. "What is a Classic?" *Selected Prose of T.S.Eliot*, edited by Frank Kermode.

Kermode, Frank. *The Classic*. Faber, 1975.

Shulman, David. *The Wisdom of Poets: Studies in Tamil, Telugu and Sanskrit*.

OUP, 2001.

Fadiman, James. *Essential Sufism*. HarperCollins, 2000.

Choo, Lim Beng. "They Came to Party: An Examination of the Social Status of the Medieval Noh Theatre" *Japan Forum*, 16(1) 2004, 111-113.

Dubois, Page. *History, Rhetorical Description and the Epic: From Homer to Spenser*. Brewer, Cambridge.

**PATTERN OF ASSESSMENT****Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section A – three out of five 200 word essays

3x10 = 30 marks

Section B – one out of two 500 word essay

1x20 = 20 marks

**Other Components: Total Marks: 50**

Seminar/Group Presentation/Quiz/Assignment

**End Semester Examination: Total Marks: 100****Duration: 3 hours**

Section A – four out of six 200 word essays

4x10 = 40 marks

Section B – two out of four 500 word essays

2x20 = 40 marks

Section C – Analysis of one passage out of two from Unit 1

1x 20= 20 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LITERATURES OF ASIA**

**CODE: 19CE/ME/LA45**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- to introduce students to a range of modern literatures from Asia
- to develop global awareness through identification of the values, perspectives, and practices of Asian societies
- to describe, compare, and contrast the literary forms and works from a variety of Asian cultures.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- critically analyse and respond sensitively to a variety of texts from the region
- explore the similarities and differences between literatures and cultures of the region
- engage critically with important aspects of the historical and cultural developments and trends in Asia
- gain a comparative perspective on issues affecting Asia as a region
- express one's opinion and perspectives on Asian cultural texts

<b>Unit 1</b>	<b>Pakistan, Afghanistan &amp; Bangladesh</b>	<b>(12 Hours)</b>
1.1	Sadat Hasan Manto	Khol Do
1.2	Khaled Hosseini	<i>The Kite Runner</i>
1.3	Khaleda Salahuddin	Relief Camp
<b>Unit 2</b>	<b>Sri Lanka, China &amp; Japan</b>	<b>(15 Hours)</b>
2.1	Shanmugalingam	Land of our Parents
2.2	Xue Mo	Old Man Xingjang
2.3	Masoka Shiki	Selected Haiku (4)
<b>Unit 3</b>	<b>Palestine Israel and Syria</b>	<b>(15 Hours)</b>
3.1	Palestine	
3.1.1	Mahmoud Darwish	The Passport
3.1.2	Falastine Dwikat	Beit Byout (Play House)
		Alignment

### 3.2 Israel

- 3.2.1 Yehuda Amichai      It's a Long Time Since Anybody's  
   Asked  
   Spy  
   I Am Big and Fat
- 3.2.2 Amos Oz              *A Tale of Love and Darkness*

## **Unit 4 Lebanon & Saudi Arabia (13 Hours)**

### 4.1 Lebanon

- 4.1.1 Emily Nasrallah      The Green Bird

### 4.2 Saudi Arabia

- 4.2.1 Mohammad Hassan Alwan      Oil Field

## **Unit 5 Practical Application Tasks (10 Hours)**

Writing from Nepal, Mongolia, Thailand, Singapore, Philippines, Mauritius, Tibett, Myanmar, Vietnam, Indonesia, Korea, Malaysia

## **BOOKS FOR REFERENCE**

- Bhasin, Kamala, et al. *Against All Odds*. Kali for Women, 1994.
- Bhuthalia, Urvashi. *The Other Side of Silence*. Penguin, 1998.
- Cooke, Miriam. "Talking Democracy", *Women and the War Story*. University of California, 1996.
- Dabashi, Hamid. *The Arab Spring: The End of Postcolonialism*. Zed Books, 2012.
- Goonasekere, Savitri, ed. *Violence, Law and Women's Rights in South Asia*. Sage Publications, 2004.
- Hasan, Mushirul. *Inventing Boundaries*. Oxford University Press, 2000.
- Nongkynrih, Kynpham Sing and Ngangom, Robin S. ed. *Anthology of Contemporary Poetry from the North East*. NEHU Publications, 2003.
- Notes on West Asia*. Chennai: Department of English, Stella Maris College, 2007.
- Riaz, Ali. *Religion and Politics in South Asia*. Routledge, 2010.
- Said, Edward W. *Reflections of Exile and Other Literary and Cultural Essays*. Penguin Books, 2001.
- Shamsie, Muneeza, editor. *And the World Changed*. Women Unlimited, New Delhi, 2005.
- Shanmugalingam. *Shanmugalingam Three Plays*. Translated by S. Pathmanathan. Kumaran Book House, 2007.
- Silva, Kingsley M. de. "Language, Ethnicity and Politics in South Asia." *Ethnic Studies Report*. Vol. XIV No.1, January 1996. Colombo and Kandy: International Centre for Ethnic Studies, 1996. 1-10.
- Singh, Karan. *History, Culture and Society in India and West Asia*. Shipra, 2003.
- Sisodia, N.S. *West Asia in Turmoil*. Academic Foundation, 2007.
- Trivedi, Harish. "South Asian Literature: Reflections in a Confluence." *Indian Literature*, pp. 186-194.
- Wijesinha Rajiva, ed. *Bridging Connections: An Anthology of Sri Lankan Short Stories*. National Book Trust. 2007.
- Zaman, Niaz and Fidous Azim, editors. *Galpa Short Stories by Women from Bangladesh*. Stanza, 2007.

## **JOURNALS**

Fayad, Mona. *Reinscribing Identity: Nation and Community in Arab Women's Writing*.

## **WEBSITES**

<http://www.sawnet.com>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:           Total Marks: 50**

Section A – three out of five 100-word essays

Section B – two out of four 200-word essays

Section C – Passage Analysis- no choice

### **Duration: 90 minutes**

3x5=15 marks

2x10=20 marks

1x15=15 marks

### **Other Components:                       Total Marks: 50**

Assignment/Seminar/Presentation/Online Test

### **End-Semester Examination:           Total Marks: 100**

Section A – Three out of five 350 word essays

Section B – Two out of four 600 word essays

Section C – Passage analysis

### **Duration: 3 hours**

3x15= 45 marks

2x20=40 marks

1x15=15 marks



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CONTENT AND COPY EDITING**

**CODE: 19CE/ME/CC45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To expose the students to the principles of content editing
- To familiarise students with the techniques of copy-editing
- To train students to use different editing software
- To train students to edit for accuracy and appropriacy of content, grammar and vocabulary

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the role of an editor
- spot issues with the content and organisation of information and rectify them
- assess and edit material for content, structure, style, readability and marketability
- apply editing skills to produce error-free documents

**Unit 1      The Editorial Triangle      (5 Hours)**

- 1.1 Role and Responsibility of the editor
- 1.2 The Editing Process – workflow
- 1.3 The Writer-Editor-Reader Relationship

**Unit 2      Content Editing      (20 Hours)**

- 2.1 Determining readership
- 2.2 Checking for accuracy of information
- 2.3 Coherence, Syntax, Structure
- 2.4 Finalising Style Specifications

**Unit 3      Copy Editing      (20 Hours)**

- 3.1 The role of the copyeditor
- 3.2 Standardisation – Style Sheet and Style Manual
- 3.3 Mechanics of editing
  - 3.3.1 Copy-editing marks
  - 3.3.2 Punctuation
  - 3.3.3 Grammar – Cohesion, Subject-Verb Agreement, Dangling Participles
- 3.4 Citation styles

- Unit 4      Editing Tools      (10 Hours)**  
4.1 Editing on MS Word and PDF  
4.2 Grammarly
- Unit 5      Professional Ethics      (10 Hours)**  
5.1 Over-editing & under-editing  
5.2 Acknowledging Sources  
5.3 Cultural sensitivity and political correctness

### **BOOKS FOR REFERENCE:**

Bly, W. Robert. *The Copy-Writer's Handbook: A Step-by-Step Guide to Writing Copy That Sells*. Henry Holt and Company, 2005.

Butcher, Judith, et al. *Butcher's Copy-editing: The Cambridge Handbook for Editors, Copy-Editors and Proof Readers*. Cambridge University Press, 2006.

Gilad, Suzanne. *Copy-editing & Proofreading for Dummies*. Wiley Publishing Inc, 2007.

Mill, David. *Content is King: Writing and Editing Online*. Elsevier Ltd, 2005.

Sharpe, T. Leslie, Irene Gunther. *Fact and Fiction: A Concise Guide to Book Editing*. Cambridge University Press, 1997.

Stoval, Glenn James, Edward Mullins. *The Complete Editor*. Routledge, 2016.

### **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 60 minutes</b>
Section A– two out of three 100 word essays		(2x5=10 marks)
Section B – Copy-editing – one out of two		(1x20=20 marks)
Content-editing – one of two		(1x20=20 marks)

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignment/Take home test/Open book test	

<b>End-Semester Evaluation:</b>	<b>Total Marks: 100</b>
Copy editing and Content editing exercise	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TRAVEL WRITING**

**CODE: 19CE/ME/TW45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce students to travel writing, different types of travel literature, and the prominent tropes of the genre
- To enable students to discern those features that have evolved to keep the genre relevant and popular
- To train them to analyse travel texts and issues from multiple perspectives, with special concern for how cultural assumptions inform literatures of travel
- To sensitise them to the issues that arise in different contexts, and to the nuances of ethical travel writing

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- critique and appreciate a travel writing text from different perspectives
- analyse how their ideas and experiences intersect with and diverge from those of others
- respond empathetically to narratives that record difference and conflict
- discern the ways in which travel and travel writing are both local and global practices that create points of intersection

**Unit 1 Introduction to the Genre (12 Hours)**

- |                   |   |
|-------------------|---|
| 1.1 Carl Thompson | Defining the Genre (from <i>Travel Writing</i> , pp 9–33) |
| 1.2 Pico Iyer     | Why We Travel (from salon.com)                            |

**Unit 2 Travel and Anthropology (15 Hours)**

- |                   |   |
|-------------------|---|
| 2.1 Marco Polo    | Of the Great Island of Madagascar (Chapter xxxvi)<br>(from <i>Travels of Marco Polo the Venetian</i> , pp 302–04) |
| 2.2 Bruce Chatwin | <i>Songlines</i> . Chapters 5 and 6. pp 20–29   |
| 2.3 Zac O’Yeah    | Gateway to the World in <i>The Hindu</i> Magazine dated 12 March 2017   |
| 2.4 Vikram Seth   | <i>From Heaven Lake: Travels through Sinkiang and Tibet</i> , Chapter 13  |

**Unit 3 Travel and Socio-political Issues (15 Hours)**

- |                       |   |
|-----------------------|---|
| 3.1 William Dalrymple | The Daughters of Yellamma (from <i>Nine Lives</i> ) |
|-----------------------|---|

3.2 Eddy L. Harris *South of Haunted Dreams*, Chapter 7  
3.3 Joe Sacco *Footnotes in Gaza*

**Unit 4 Travel and Humour (12 Hours)**

4.1 Bill Bryson	<i>Neither Here nor There: Travels in Europe</i> (Chapters on Paris, Brussels, Amsterdam, and Florence)
4.2 Dervla Murphy	<i>On a Shoestring to Coorg: A Travel Memoir of India</i> , Chapters 1, 2
4.3 William Dalrymple	<i>In Xanadu</i> . pp 46–58; 68–71 (Penguin Edition)

**Unit 5 Travel and Food (11 Hours)**

5.1 Anthony Bourdain	Tokyo Redux (from <i>A Cook's Tour</i> )
5.2 Samanth Subramanian	On Hunting Hilsa and Mastering its Bones (from <i>Following Fish</i> )
5.3 Calvin Trillin	Three Chopsticks in <i>The New Yorker</i> dated 27 August 2007
5.4 Griffin Shea	Cape Malay Food: South Africa's Cuisine Secret in <i>CNN</i> dated 27 March 2017

## BOOKS FOR REFERENCE

- Buford, Bill. *The Best American Travel Writing*. Houghton Mifflin Harcourt, 2010.
- Burton, Stacy. *Travel Narrative and the Ends of Modernity*. Cambridge UP, 2014.
- Clarke, Robert, editor. *The Cambridge Companion to Postcolonial Travel Writing*. Cambridge UP, 2018.
- Dalrymple, William. *In Xanadu: A Quest*. Penguin Books, 2004.
- . *Nine Lives: In Search of the Sacred in Modern India*. Bloomsbury, 2009.
- Eco, Umberto. *How to Travel with a Salmon and other Essays*. Houghton Mifflin, 1994.
- Edwards, Justin D. and Rune Graulund editors. *Postcolonial Travel Writing: Critical Explorations*. Palgrave Macmillan, 2011.
- Frank, Søren. *Migration and Literature*. Palgrave Macmillan, 2008.
- Ghosh, Amitav, *In an Antique Land*. Granta, 1994.
- Holland, Patrick, and Graham Huggan. *Tourists with Typewriters: Critical Reflections on Contemporary Travel Writing*. U of Michigan P, 1998.
- Hulme, Peter and Tim Youngs, editors. *The Cambridge Companion to Travel Writing*. Cambridge UP, 2002.
- Iyer, Pico. "Where is Home?" *TED Talks*.
- Knowles, Sam. *Travel Writing and the Transnational Author*. Palgrave Macmillan, 2014.
- Kuehn, Julia and Paul Smethurst, editors. *Travel Writing, Form and Empire: The Poetics and Politics of Mobility*. Routledge, 2009.
- Lisle, Debbie. *The Global Politics of Contemporary Travel Writing*. Cambridge UP, 2006.
- Mehta, Suketu, *Maximum City: Bombay Lost and Found*. Penguin, 2004.
- Mohanty, Sachidananda, editor. *Travel Writing and the Empire*. Katha, 2003.
- Speake, Jennifer. *Literature of Travel and Explorations: An Encyclopedia*. Fitzroy Dearborn, 2003.
- Thompson, Carl. *Travel Writing*. Routledge, 2011.
- , editor. *The Routledge Companion to Travel Writing*. Routledge, 2016.
- Youngs, Tim, editor. *Travel Writing in the Nineteenth Century: Filling the Blank Spaces*. Anthem Press, 2006.

## **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A- two out of four 200-word essays		2x10=20 marks
Section B- two out of three 400-word essays		2x15=30 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>	
Seminar (on texts prescribed in the syllabus)		10 marks
Quiz (on texts prescribed in the syllabus)		20 marks
Practical Analysis (on texts outside the syllabus)		20 marks

<b>End Semester Evaluation:</b>	<b>Total Marks: 100</b>
Term Paper (1500 words – open choice of text)	

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT**

**CODE: 19CE/ME/PR45**

**CREDITS: 5**

**OBJECTIVES OF THE COURSE**

- To provide students with the skills to undertake independent research on an area of their interest.
- To inculcate in students the skillset required to carry out structured and ethical research
- To train students in writing a well-organised and well-documented short research paper

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the student will be able to

- identify a research area of their interest and the research gap in that area
- recognize the aspects of and need for ethical research
- differentiate between different kinds of research and identify the kind most suited to their research interest
- make optimal and ethical use print and electronic resources in their area of research
- draft a well-organised and well-documented research paper

**Description:** Analysis/argument in the form of an extended research paper on a topic or aspect of a topic following the MLA (Eighth Edition) documentation and citation style.

**Length :** Around 3000-4000 words/10-20 pages, organised in 2 to 3 chapters

**Scope :** Students could work on

- a) an author/authors
- b) a particular theme or issue in the context of a literary work
- c) use a given theoretical approach to a particular text/group of texts

The above entails extensive reading of primary and secondary texts.  
(to be done in consultation with the supervisor)

**Requirement:** An abstract of 150-200 words

1. A clear thesis statement
2. Works Cited
3. Documentation and Bibliography using MLA (Eighth Edition) format
4. Drafting and revising process to be followed – with a percentage of the marks to be allotted to drafts as given below:

## **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Annotated Bibliography		20
Draft 1		30
<b>End-Semester Examination:</b>	<b>Total Marks: 50</b>	
Dissertation		75
Viva voce		25

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**General Elective Course Offered by the Department of English to  
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FICTION AND FILM**

**CODE: 19CE/GE/FF22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To equip learners with the skills to appreciate the narrative techniques of fiction and film
- To train the students to examine the interaction between films and literary texts
- To introduce learners to issues of the cultural aspects of adaptation in fiction and film

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- discern narrative techniques in fiction and film.
- engage with the different cultural aspects of film adaptation.
- demonstrate an understanding of the elements involved in adapting texts to films
- demonstrate analytical skills in reading filmed texts

**Unit 1 Narrative in Fiction and Film (8 Hours)**

- 1.1 Point of view
- 1.2 Issues of cultural aspects of adaptation
- 1.3 Narrative techniques in Fiction and Films

**Unit 2 Novel (9 Hours)**

- 2.1 Text *Harry Potter and The Philosopher's Stone*
- 2.2 Film Dir. by Chris Columbus

**Unit 3 One Text Two Visions (9 Hours)**

- 3.1 Film *Sense and Sensibility* (English version)
- 3.2 Film *Kandukondein Kandukondein* (Tamil version)

**BOOKS FOR REFERENCE**

Chatman, Seymour. *Story and Discourse: Narrative Structure in Fiction and Film*. Cornell University Press, 1978.

Corrigan, Timothy. *Film and Literature: An Introduction and Reader*. Pearson, 1998.

Giannetti, Louis. *Understanding Movies*. Pearson, 2008.

Lothe, Jakobs. *Narrative in Fiction and Film*. OUP.

Seger, Linda. *The Art of Adaptation: Turning Fact and Fiction into Film*.

Synder, Mary. *Analyzing Literature to Film Adaptations*. Continuum, 2011.



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A- three out of five 75-word answers

3x5=15 marks

(Definitions and concepts from Unit I, using e.g. from Unit II and III)

Section B- one out of two 150-word essay

1x10=10marks

(Comparison and Contrast between the different versions of prescribed texts)

### **Other Components:**

**Total Marks: 25**

Quiz/Presentations/Analysis of narrative techniques in a passage from fiction/clipping from a movie

Analysis of cultural differences in film adaptations

### **No End-semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**General Elective Course Offered by the Department of English to  
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDIAN MYTHOLOGY**

**CODE: 19CE/GE/IM22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To acquaint the students with themes, motifs and symbols in Indian mythology.
- To understand the historical and contemporary significance of mythic narratives from India.
- To analyze the influence of mythic narratives on literature and films
- To explore modern retellings of myths

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of the prevalence of mythological narratives in society
- recognize recurring mythological themes and motifs and understand their significance
- interpret how mythology reflects the culture and history of countries and communities they originate from.
- engage with the nuances of contemporary re-workings of mythic narratives

**Unit 1 Introduction**

**(6 Hours)**

1.1 Defining Myth

1.1.1 Introduction: Myth = Mithya (from *Myth* = *Mithya* – Devdutt Pattanaik)

1.1.2 Myths around the World: An Overview

**Unit 2 Mythology**

**(10 Hours)**

2.1 Draupadi

2.1.1 Meera Uberoi Chapters XXI and XXII (from *The Mahabharata*)

2.1.2 Lakshmi Kannan Draupadi

2.2 The Birth of Ganesha

2.2.1 Uma Krishnaswami Ganesha's Head (from *The Broken Tusk: Stories of the Hindu God Ganesha*)

2.2.2 Sujatha Bhatt What Happened to the Elephant?

**Unit 3 Modern Retellings**

**(10 Hours)**

3.1 Defining Retelling

3.2 Sita (from the *Handbook of Hindu Mythology* – George M Williams)

3.3 Retelling of the Rāmāyana in the film *Raavan*

## BOOKS FOR REFERENCE

Armstrong, Karen. *A Short History of Myth*. Knopf Canada, 2010.

Dimmitt, Cornelia. *Classical Hindu Mythology: A Reader in the Sanskrit Puranas*. Temple University Press, 2012.

Mani, Vettam. *Purāṇic Encyclopaedia: A Comprehensive Dictionary with Special Reference to the Epic and Purāṇic Literature*. Motilal Banarsidass, 1975.

Mukhoty, Ira. *Heroines: Powerful Indian Women of Myth & History*. Aleph, 2017.

Pattanaik, Devdutt. *Indian Mythology: Tales, Symbols and Rituals from the Heart of the Subcontinent*. Rochester, 2003.

---. *Myth = Mithya: A Handbook of Hindu Mythology*. Penguin Books, 2006.

---. *Shikhandi: And Other Tales They Don't Tell You*. Penguin UK, 2014.

## PATTERN OF ASSESSMENT

### Continuous Assessment:

**Total Marks: 25**

**Duration: 60 minutes**

Section A – three out of five 75 word answers

3x5= 15 marks

Section B – one out of two 150 word essay

1x10= 10 marks

### Other Components

**Total Marks: 25**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Passage Analysis/Quiz

Panel Discussion/Group Presentation/Role-Play/Dramatisation

**No end semester examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**General Elective Course Offered by the Department of English to  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**POPULAR CULTURE**

**CODE: 19CE/GE/PC22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To enable students to arrive at a definition of what ‘popular culture’ means in the contemporary world.
- To encourage students to think critically about popular culture.
- To equip students to examine the contexts of most popular culture elements and the reasons behind their origin.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate a clear understanding of what pop culture is and what constitutes it.
- find and examine examples of popular culture in different contexts with different kinds of representation.
- interact with the different pop culture elements around them with a more analytical and critical perspective
- appreciate the value of pop culture in shaping our zeitgeist

**Unit 1 Introduction to Popular Culture (8 Hours)**

- 1.1. Defining ‘popular culture’
- 1.2 ‘High’ vs. ‘Low’ Culture

**Unit 2 Popular Culture in the Indian Sub-Continent (9 Hours)**

- 2.1 Song Why This Kolaveri
- 2.2 Advertisements Generation of Care (Vicks)
- 2.3 Hashtag Movements #MeToo
- 2.4 Street Art GuessWho (from Kochi Muziris Biennale)

**Unit 3 Popular Culture in the Global Context (9 Hours)**

- 3.1 Song Childish Gambino This is America
- 3.2 Stand-up Hassan Minhaj Content Moderation and Free Speech (*Patriot Act*: V1, E1)
- 3.3 Advertisements Bodyform Fear Going to School Less
- 3.4 YouTube Lily Singh A Geography Class for Racist People
- 3.5 TV Show Dan Goor, Michael Schur Game Night, Season 5 Episode 9 (*Brooklyn Nine-Nine*)

## BOOKS FOR REFERENCE

- Danesi, Marcel. *Popular Culture: Introductory Perspectives*. Fourth ed., Rowman & Littlefield, 2018.
- Miller, Toby. *The Routledge Companion to Global Popular Culture*. Routledge, 2017.
- Ed. Gokulsing, K. Moti, and Wimala Dissanayake. *Popular Culture in a Globalised India*. Routledge, 2009.
- Ed. Guins, Rainford, and Omayra Zaragoza Cruz. *Popular Culture: A Reader*. Sage Publications, 2005.
- Kasbekar, Asha. *Pop Culture India! Media, Arts, and Lifestyle*. ABC-CLIO, Inc., California, 2006.

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:            Total Marks: 25**

Section A: three out of five 100 word essays

Section B: one out of three 200 word essays

**Duration: 60 minutes**

3 x 5 = 15 marks

1 x 10 = 10 marks

**Other Components:                            Total Marks: 25**

Quiz/Presentation/Analysis of Pop Culture texts

**No End-semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**General Elective Course Offered by the Department of English to  
B.A. / B.Sc, /B.Com. / B.S.W. / B.V.A./ B.C.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**THE GRAPHIC NOVEL**

**CODE: 19CE/GE/GN22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To encourage students to view graphic novels as a composite medium like film by examining both visual and textual elements.
- To train students to appreciate the unique textures and ‘language’ of narration in graphic novels.
- To introduce students to the complexities of storyboarding and sequential art.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- appreciate and critique graphic novels as literature
- comprehend the different levels of interaction between visual and textual elements in graphic novels
- empathise with the different perspectives shared through the conflict/witness literature as seen in graphic novels.

**Unit 1 Introduction to Graphic Novels (6 Hours)**

1.1 Interaction between textual and visual elements of graphic novels

1.2 Narrative

1.2.1 Storyboarding

1.2.2 Dialogue

1.2.3 Setting

1.2.4 Characterisation

1.3 Genres: Humour, Political, Memoir, Manga, and so on.

1.4 Representation: Gender, Race, Sexuality

**Unit 2 Fiction (10 Hours)**

2.1 Frank Miller, John Romita Jr.

*Daredevil: The Man Without Fear*

**Unit 3 Non-Fiction (10 Hours)**

3.1 Malik Sajad

*Munnu: A Boy from Kashmir*

## BOOKS FOR REFERENCE

- Adams, Jeff. *Documenting Graphic Novels and Social Realism*. Peter Lang Publishers, 2008.
- McCloud, Scott. *Understanding Comics: The Invisible Art*. HarperCollins Publishers, 1993.
- Danner, Alexander, et. al. *The Cambridge Companion to the Graphic Novel*. Cambridge University Press, 2017.
- Wolk, Douglas. *Reading Comics: How Graphic Novels Work and What They Mean*. Da Capo Press, 2007.

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 60 minutes</b>
Section A: three out of five 100 word essays		3 x 5 = 15 marks
Section B: one out of three 200 word essays		1 x 10 = 10 marks

<b>Other Components:</b>	<b>Total Marks: 25</b>	
Quiz/ Presentation/ Text Analysis		25 marks

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NOVEL OF COURTSHIP AND MARRIAGE**

**CODE:19CE/UI/CM23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To enable students to undertake independent learning and research
- To enable students to place the institutions of courtship and marriage within a social and historical context
- To facilitate students to study the fictional representation of courtship and marriage and related themes

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- study fictional representations of courtship and marriage by placing them within specific social and historical contexts
- undertake independent learning and research

Text: Vikram Seth: *A Suitable Boy*

**Unit 1**

**Background**

- 1.1 European/Western Conventions of Courtship and Marriage – Its History and Contemporary Views on Them
- 1.2 Indian Conventions of Courtship and Marriage

**Unit 2**

**Socio-Economic and Religious Perspectives**

- 2.1 Role of Social Class in Marriages
- 2.2 Caste-Based and Religious Considerations
- 2.3 Arranged Marriages and Marriages by Personal Choice
- 2.4 Rebellion and Conformity

**Unit 3**

**Gender Perspectives**

- 3.1 Feminist Perspectives
- 3.2 Sexual/Gender Role

**Unit 4**

**Techniques**

- 4.1 Fictional Narrative Techniques



## **Unit 5 Practical Analysis Tasks**

### **BOOKS FOR REFERENCE**

Beauvoir, Simone De. *The Second Sex*. Vintage Books, 1949.  
Brownstein, Rachel, M. *Becoming a Heroine*. The Viking Press, 1982.  
Halwani, Raja. *Philosophy of Love, Sex and Marriage: An Introduction*. Routledge, 2018.  
Kakar, Sudhir and Katherina Kakar. *The Indians: Portrait of a People*. Penguin India, 2009.  
Lewis, C. S. *The Allegory of Love*. OUP, 1958.  
Millet, Kate. *Sexual Politics*. Doubleday, 1970.  
Uberoi, Patricia, editor. *Family, Kinship and Marriage in India*. OUP, 1994.

### **PATTERN OF ASSESSMENT**

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
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Four out of six 600-word essays	(4 x 25=100)
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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF ENGLISH (SELF-FINANCED)**

**B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**POETRY OF THE ROMANTIC AGE**

**CODE: 19CE/UI/PR23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To enable students to undertake independent learning and research
- To introduce students to the English Romantic Movement and its literature

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- be familiar with the Pre-Romantic background
- understand the key aspects of the English Romantic Movement
- read, analyse and appreciate poetry written by various Romantic poets

**Unit 1**

1.1 Introduction to the Romantic Movement

**Unit 2**

2.1 The Pre-Romantics

**Unit 3**

3.1 William Wordsworth	Ode on Intimations of Immortality (from <i>Elderly Childhood</i> )
3.2 Samuel Taylor Coleridge	Dejection: An Ode

**Unit 4**

4.1 John Keats	Ode on a Grecian Urn
4.2 Percy Bysshe Shelly	To a Skylark

**Unit 5**

5.1 George Byron	Don Juan: Canto I (6-64)
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## BOOKS FOR REFERENCE

- Black, Joseph et al. *The Broadview Anthology of Romantic Poetry*. Broadview Press, 2016.
- Feldman, Paula. Ed. *British Women Poets of the Romantic Era: An Anthology*. John Hopkins Press, 1997.
- Hough, Graham. *The Romantic Poets*. Routledge, 2016.
- Simpson, David. *Irony and Authority in Romantic Poetry*. Macmillan Press, 1979.
- Wordsworth, Jonathan and Jessica Wordsworth, editors. *The Penguin Book of Romantic Poetry*. Penguin Books, 2003.

## PATTERN OF ASSESSMENT

<b>End Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Four out of six 600-word essays		4 x 25 = 100 marks

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CEHNNAI – 600 086**

**DEPARTMENT OF CHEMISTRY**

**PROGRAMME DESCRIPTION**

The Bachelor of Science degree in Chemistry at Stella Maris College aims to provide quality education in Chemistry and prepares students for advanced postgraduate study in Chemistry. The programme offers practical skills to students through extensive hands-on experience with state-of-the-art scientific equipment thereby giving them the requisite skills for problem solving, data analysis and interpretation. With its emphasis on interdisciplinary research skill development, the undergraduate programme builds on a core of courses covering the principal areas of Chemistry such as Organic, Inorganic, Physical and Analytical Chemistry.

Distinguished professors specialised in specific areas of Chemistry are invited to conduct classes to prepare students for competitive exams. The students acquire critical thinking, independent and team learning and opportunities for undergraduate research. To keep abreast with current trends in Chemistry, eminent scientists are invited to deliver lectures on significant areas of research and interact informally with the faculty and students.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

At the end of a Bachelor of Science programme in Chemistry students will be able to

- Demonstrate knowledge and understanding of the fundamental concepts in all areas of chemistry
- Demonstrate critical thinking, analytical reasoning and judgement in identifying and solving scientific problems with intellectual independence
- Design and carry out scientific experiments as well as accurately record and analyse the results of the experiments
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Develop the ability to communicate scientific information and research results in written and oral formats
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods and practices in their chosen field of study to address real-world challenges and opportunities

- Understand the interdisciplinary nature of Chemistry and to integrate knowledge of Mathematics, Physics and other disciplines to a wide variety of chemical problems
- Explore new areas of research in both Chemistry and allied fields of science and technology
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Appreciate the vital role of Chemistry in our society and use this as a basis to show responsibility and understanding local and global issues, including an understanding of safe handling of chemicals
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH IV - CHEMISTRY**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19CH/MC/GC14	General Chemistry	4	4	1	0	3	50	50	100
19CH/MC/P112	Volumetric Analysis Practical	2	0	0	3	3	50	50	100
19CH/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Life Skills:Personality Development	3	3	0	0	-	50	-	100
<b>SEMESTER-II</b>									
19CH/MC/OC24	Organic Chemistry I	4	4	1	0	3	50	50	100
19CH/MC/AC23	Analytical Chemistry	3	3	1	0	3	50	50	100
19CH/MC/P222	Semi-micro Qualitative Analysis Practical I	2	0	0	3	3	50	50	100
19CH/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
<b>SEMESTER-III</b>									
19CH/MC/IC34	Inorganic Chemistry I	4	4	1	0	3	50	50	100
19CH/MC/PC33	Physical Chemistry I	3	3	1	0	3	50	50	100
19CH/MC/P332	Semi-micro Qualitative Analysis Practical II	2	0	0	3	3	50	50	100
<b>Allied Core Offered to the Departments of Botany and Zoology</b>									
19CH/AC/FB33	Fundamentals of Biochemistry I	3	3	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Physics</b>									
19CH/AC/FC33	Fundamentals of Chemistry I	3	3	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Physics, Botany and Zoology</b>									
19CH/AC/P132	Biochemistry Practical I	2	0	0	3	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
<b>SEMESTER-IV</b>									
19CH/MC/OC44	Organic Chemistry II	4	4	1	0	3	50	50	100
19CH/MC/P442	Organic Chemistry Practical I	2	0	0	3	3	50	50	100
19CH/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
<b>Allied Core Offered to the Departments of Botany and Zoology</b>									
19CH/AC/FB43	Fundamentals of Biochemistry II	3	3	0	0	3	50	50	100
19CH/AC/P242	Biochemistry Practical II	2	0	0	3	3	50	50	100
<b>Allied Core Offered to the Department of Physics</b>									
19CH/AC/FC43	Fundamentals of Chemistry II	3	3	0	0	3	50	50	100
19CH/AC/P342	General Chemistry Practical	2	0	0	3	3	50	50	100
	Major Elective I								



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**B.Sc. DEGREE : BRANCH IV - CHEMISTRY**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-V</b>									
19CH/MC/OC54	Organic Chemistry III	4	4	1	0	3	50	50	100
19CH/MC/PC54	Physical Chemistry II	4	4	1	0	3	50	50	100
19CH/MC/BC54	Biochemistry	4	4	1	0	3	50	50	100
19CH/MC/P551	Biochemistry Practical	1	0	0	2	3	50	50	100
19CH/MC/P652	Physical Chemistry Practical I	2	0	0	3	3	50	50	100
<b>Interdisciplinary Core Course (CH and BT) to students of Chemistry and Botany</b>									
19ID/IC/BA55	Bioanalytical Techniques	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100
<b>SEMESTER-VI</b>									
19CH/MC/IC64	Inorganic Chemistry II	4	4	1	0	3	50	50	100
19CH/MC/PC64	Physical Chemistry III	4	4	1	0	3	50	50	100
19CH/MC/SP64	Spectroscopy	4	4	1	0	3	50	50	100
19CH/MC/P761	Organic Chemistry Practical II	1	0	0	2	3	50	50	100
19CH/MC/P862	Physical Chemistry Practical II	2	0	0	3	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	2	2	0	0	-	50	-	100
	General Elective IV	2	2	0	0	-	50	-	100
	Major Elective II								
<b>Major Elective Courses</b>									
19CH/ME/PH45	Pharmaceutical Chemistry	5	4	0	1	3	50	50	100
19CH/ME/PL45	Polymer Chemistry	5	4	0	1	3	50	50	100
19CH/ME/CC45	Computers in Chemistry	5	3	0	2	3	50	50	100
19CH/ME/FC45	Food Chemistry	5	4	0	1	3	50	50	100
19CH/ME/PR45	Project	5	0	0	5	-	50	50	100
<b>General Elective Courses</b>									
19CH/GE/CP22	Cosmetics and Personal Care	2	2	0	0	-	50	-	100
19CH/GE/NH22	Nutraceuticals and Health Care	2	2	0	0	-	50	-	100
19CH/GE/FA22	Food Quality and Detection of Food Adulteration	2	1	0	1	-	50	-	100
19CH/GE/BN22	Basic Nutritional Chemistry	2	2	0	0	-	50	-	100
19CH/GE/FC22	Forensic Chemistry	2	2	0	0	-	50	-	100
19CH/GE/CE22	Chemistry in Everyday Life	2	2	0	0	-	50	-	100
<b>Independent Elective Courses</b>									
19CH/UI/IC23	Industrial Chemistry	3	0	0	0	3	-	100	100
19CH/UI/DD23	Drugs and Diseases	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**GENERAL CHEMISTRY**

**CODE:19CH/MC/GC14**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- Explain the nature of electromagnetic radiation by describing its wave properties: wavelength ( $\lambda$ ), frequency ( $\nu$ ) and speed ( $c$ )
- Describe the quantum mechanical model of the atom including the relationships among the following concepts: the wave properties of electrons, Heisenberg's uncertainty principle, orbitals, electron density, and probability
- Understand the causes and properties of radiation and radioactivity.
- To understand different types of electronic displacements in covalent bonds provide an overview of Organic Chemistry
- Recognize and distinguish between aromatic and anti-aromatic compounds by their structures.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Evaluate the molecular geometry, hybridization and polarity of a covalent molecule
- Appreciate the significance of quantum numbers
- Demonstrate the type of molecular bonding (s or p) in a covalent molecule and identify the orbitals used for bonding
- Draw the resonance structures and predict the order of stability
- Explain the effect of electronic displacements in covalent bonds on molecular stability and chemical reactivity
- Classify organic compounds as aromatic/anti-aromatic/non-aromatic

**Unit 1**

**(15 Hours)**

**Atomic structure**

- 1.1 Rutherford's nuclear model of the atom. Planck's quantum theory of radiation. Photoelectric effect. Bohr's theory, its limitations and atomic spectrum of hydrogen atom.
- 1.2 Wave mechanics: de Broglie equation, Davisson - Germer experiment. Heisenberg's principle of uncertainty. Compton Effect.
- 1.3 Postulates of Quantum mechanics; operators- Hermitian operators, Laplacian and Hamiltonian operators, Eigen functions and Eigen values of operators. Conditions for a well behaved function, Schrodinger wave equation (no derivation). Significance of  $\psi$  and  $\psi^2$
- 1.4 Quantum numbers and their significance. Normalized and orthogonal wave functions. Sign of wave functions. Shapes of orbitals (s, p, d, f)

**Unit 2 (5 Hours)**

**Introduction to Chemical bonding**

- 2.1 Types of Bonds - Ionic, Covalent, Metallic, Coordinate Bonds and their Properties.
- 2.2 Lattice Energy - Born-Landé Equation (No Derivation) - Factors affecting Lattice Energy
- 2.3 Born Haber Cycle and its Applications

**Unit 3 (10 Hours)**

**Covalent Bond**

- 3.1 Covalent Bond – Lewis Structures of Simple Molecules and Ions, Valence Shell Electron Pair Repulsion Theory {[BF<sub>4</sub>]<sup>-</sup>, NH<sub>3</sub>, H<sub>2</sub>O, PCl<sub>5</sub>, SF<sub>4</sub>, ClF<sub>3</sub>, I<sub>3</sub><sup>-</sup>}. Covalent Character in Ionic Compounds - Polarisation and Fajan's Rules
- 3.2 Valence Bond Theory (VBT) – Hybridization of orbitals (BeF<sub>2</sub>, BF<sub>3</sub>, CH<sub>4</sub>)
- 3.3 Molecular Orbital Theory (MOT) – Bonding, Antibonding and Nonbonding Orbitals. Application of MOT to He<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub>, O<sub>2</sub><sup>-</sup>, O<sub>2</sub><sup>2-</sup>, CO, NO, HF, Comparison between VBT and MOT

**Unit 4 (15 Hours)**

**Nuclear Chemistry**

- 4.1 Elementary Particles - Concept of Nuclides, Representation of Isobars, Isotones, Isotopes with Examples. Nucleus Structure – Liquid Drop and Shell Model. Nuclear Stability –  $n/p$  Ratio, Binding Energy, Mass Defect and Magic Numbers
- 4.2 Radioactive Elements, Modes of Decay – Neutron, Positron Theory of  $\alpha$ ,  $\beta$  and  $\gamma$  emission, Characteristics of  $\alpha$ ,  $\beta$  and  $\gamma$  particles, K-Electron Capture and Positron emission. Half-Life Period, Geiger – Nuttall Rule. Radioactive Displacement Laws – Soddy, Fajan and Russel. Radioactive Decay Series  $4n$ ,  $4n+1$ ,  $4n+2$  and  $4n+3$
- 4.3 Detection and Measurement of Radioactivity - Ionization Chamber, Geiger-Müller Counter and Scintillation Counter. Artificial Radioactivity - Artificial Transmutation of Elements, Nuclear Reactions – Nuclear Fusion and Fission

**Unit 5 (20 Hours)**

**Introductory Organic Chemistry**

- 5.1 IUPAC Nomenclature of Organic Compounds
- 5.2 Types of Organic Reaction and Reagents: Nature of Bond Fission – Homolytic and Heterolytic. Types of Reagents – Electrophiles and Nucleophiles. Substitution, Addition, Elimination and Rearrangement Reactions (Definition with an example)
- 5.3 Reactive Intermediates with Examples – Carbocations, Carbanions and Free Radicals - Conditions Favouring their Formation, Stability and Structure, their Reactions with Examples. Electron Displacement Effects - Inductive, Electromeric, Mesomeric, Resonance, Hyper-Conjugation and Steric Effects – Tautomerism
- 5.4 Concept of Aromaticity – Definition, Huckel's Rule – Application to Benzenoid and Non-Benzenoid Compounds-Benzene, Naphthalene, Cyclopropenyl Cation, Cyclopentadienyl Anion and Tropylium Cation

## BOOKS FOR STUDY

J.D. Lee. *Concise Inorganic Chemistry*. New Delhi: Oxford University Press, 2018.  
Jain M.K, Sharma S.C., *Modern Organic Chemistry*, Vishal publishing & Co, 2017  
Morrison .R.T. Boyd R.N & Bhattacharjee.S.K. *Organic Chemistry*. Pearson, Dorling Kindersley 2016.  
Puri,B.R., L.R. Sharma., Madan S. Pathania. *Principles of Physical Chemistry*. New Delhi: Vishal, 2018.  
Puri B.R, Sharma L.R & Kalia K.C. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2017.

## BOOKS FOR REFERENCE

Arinikar H.J. *Essentials of Nuclear Chemistry*. New Delhi: New Age International, 2011.  
Madan R.D. *Satyaprakash's Modern Inorganic Chemistry*. New Delhi: Sultan Chand, 2014.  
Solomons & Fryhle, *Organic Chemistry*, New Delhi, Wiley India, 2017.

## WEB RESOURCES

<http://www.chem1.com/acad/webtext/chembond/cb01.html>  
<http://education-portal.com/academy/topic/nuclear-chemistry.html>  
<https://www.class-central.com/mooc/437/coursera-introductory-organic-chemistry-part-1>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving/MCQ  
Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**VOLUMETRIC ANALYSIS PRACTICAL**

**CODE:19CH/MC/P112**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**Unit 1**

**Calibration**

Calibration of Burettes / Pipettes

**Unit 2**

**Theory of Volumetric Estimations**

Theory and Principle behind the Experiments, Equivalent Weight Calculations to be tested in every class

**Unit 3**

**Volumetric Estimation**

3.1 Estimation of  $\text{Na}_2\text{CO}_3$  / HCl

3.2 Estimation of Oxalic Acid (Permanganimetry)

3.3 Estimation of Dichromate (Iodometry)

3.4 Estimation of Iron (Dichrometry / Permanganimetry)

3.5 Estimation of Magnesium / Zinc (Complexometry)

3.6 Group Experiment - Estimation of Chloride (Argentometry), Estimation of Hardness of the given Water Sample

**Testing of Principles in the CA tests and also End Semester Examination for a maximum of five marks**

**BOOKS FOR STUDY**

Sathian Jesurietta. *Volumetric Estimations – Lab Manual*. 2010.

**BOOKS FOR REFERENCE**

Vogel, A.I., *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, Science, 2000.

Mendhan,J., *Vogel's Textbook of Quantitative Chemical Analysis*,Pearson 2009.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 3 hours**

Two – Three questions related to Theory of Volumetric Analysis

5 marks

Equations and short Procedure (10 minutes)

5 marks

Experiment

upto 2% error - 40 marks

2.1 – 3.0% - 35marks

3.1 – 4.0 25 marks

4.1 -5% 20 marks

Above 5% 15Marks

### **End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Two – Three questions related to theory of Volumetric Analysis

5 marks

Equations and short Procedure (10 minutes)

5 marks

Experiment

upto 2% error - 40 marks

2.1 – 3.0% - 35marks

3.1 – 4.0 25 marks

4.1 -5% 20 marks

Above 5% 15Marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19CH/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ORGANIC CHEMISTRY I**

**CODE:19CH/MC/OC24**

**CREDITS: 4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable the students to recognize molecules as optically active or inactive, chiral or achiral, racemic or meso, to distinguish between pairs of stereoisomers as enantiomers or diastereomers, to label the chiral carbons as R/S and geometrical isomers as E/Z
- To enable a comprehensive understanding of aliphatic substitution as  $S_N1$ ,  $S_N2$ ,  $S_Ni$ , and  $S_NcB$ , aromatic substitution electrophilic and nucleophilic, addition and elimination reactions
- To apply learned concepts and mechanisms of carbonyl compounds to analyse and solve problems relating to nucleophilic addition and Oxidation Reduction Reactions of Carbonyl Compounds

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Classify, explain, and apply concepts associated with general reaction types to product prediction, synthesis design and reaction mechanism.
- Recognize and draw structural isomers and stereoisomers including enantiomers and diastereomers, racemic mixtures and meso compounds.
- Identify stereocenters in a molecule and assign absolute configuration
- Draw logical and detailed mechanisms for various fundamental reactions of carbonyl compounds
- Recall important name reactions associated with the oxidation and reduction reactions of carbonyl compounds.

**Unit 1**

**Stereochemistry**

**(15 Hours)**

- 1.1 Stereoisomerism-Definition and Types, Geometrical Isomerism - *E-Z* Notation. Optical Isomerism – Definition, Conditions for Optical Activity and its Measurement, Specific Rotation, Asymmetric Centre, and Chirality. Enantiomers, Diastereomers, racemic and meso Compounds (Definition and Examples)
- 1.2 Notations for Optical Isomers with one and two Asymmetric Carbon Atoms. Specification of Configuration - *D-L* and *R-S* Notations (Cahn-Ingold-Prelog Rules), Erythro and Threo representations
- 1.3 Conformational Isomerism-Interconversion of Newman Projection, Fischer, Flying Wedge and Sawhorse Projections. Conformational Analysis of Ethane, n-Butane and Cyclohexane
- 1.4 Stereospecific and Stereoselective Reactions - Addition of hydrogen and bromine to Alkenes-Syn and Anti Addition

## Unit 2

### **Electrophilic and Nucleophilic Substitution Reactions (15 Hours)**

- 2.1 Aliphatic nucleophilic substitution reaction -  $S_N1$ ,  $S_N2$ ,  $S_Ni$ , and  $S_NcB$ . Factors governing  $S_N1$ ,  $S_N2$  Reactions - Effects of Structure, Solvent, nature of entering and leaving group. Kinetics, stereochemistry of nucleophilic aliphatic substitution, duality of mechanism, Walden Inversion.  $S_N1$  vs  $S_N2$
- 2.2 Aromatic nucleophilic substitution reaction-  $S_NAr$  Mechanism-Benzyne intermediate formation and evidences. Aromatic electrophilic substitution reaction - sulphonation, nitration, halogenation, Friedel Crafts alkylation and acylation reaction, Effect of substituent already present in the ring, ortho / para ratio, orientation in di substituted compounds

## Unit 3

### **Addition and Elimination Reactions (15 Hours)**

- 3.1 Addition: Electrophilic Addition- orientation and reactivity, Markownikoff and Anti- Markownikoff rule. Examples of Addition Reaction- Addition of Hydrogen, Halogen, Hydrogen halide, Hypohalous acid, sulphuric acid, water, hydroxylation, epoxidation, hydroboration (with Propene and Propyne as Examples), ozonolysis, mechanism of the peroxide initiated addition of HBr. Electrophilic addition to conjugated dienes-1, 2 and 1, 4 addition
- 3.2 Elimination:  $E_1$ ,  $E_2$  and  $E_{1cB}$  Mechanisms, orientation and reactivity (Hoffmann and Saytzeff rule) and evidences. Stereochemistry of  $E_1$  and  $E_2$  reactions. Syn- and Anti- Elimination and Elimination vs Substitution

## Unit 4

### **Aliphatic, Aromatic and Unsaturated Carbonyl Compounds (12 Hours)**

- 4.1 Structure of Carbonyl Group, acidity of alpha hydrogen, Keto-Enol tautomerism – evidence for the two forms. Relative reactivity of Aldehydes and Ketones. A comparison of reactivity with aromatic carbonyls and its derivatives
- 4.2 Nucleophilic addition reactions: Aldol Condensation, Cannizzaro, Crossed Cannizzaro, Claisen- Schmidt, Houben- Hoesch (Synthesis of Phenolic Ketone), Benzoin Condensation, Haloform, Knoevenagel, Reformatsky and Perkin reactions
- 4.3 Acrolein, Crotonaldehyde, Cinnamaldehyde– Preparation and reactions

## Unit 5

### **Oxidation and Reduction Reactions of Carbonyl Compounds (8 Hours)**

- 5.1 Oxidation and Reduction of Carbonyl Compounds- Meerwein-Ponndorf-Verley, Clemmensen, Oppenauer, Baeyer- Villiger, Wolff- Kishner,  $LiAlH_4$  and  $NaBH_4$  reductions

## **BOOKS FOR STUDY**

Kalsi P S. *Stereochemistry: Conformation and Mechanism*, New Age International Publisher, 10<sup>th</sup> Edition, 2019

Morrison.R.T. Boyd R.N & Bhattacharjee.S.K. *Organic Chemistry*. Pearson, Dorling Kindersley 2016

Ahluwalia V K. *Organic Reaction Mechanisms*. New Delhi: Narosa,(2011)

Tewari, K.S. and Vishnoi, N. K. *A Text Book of Organic Chemistry*, 4<sup>th</sup> edition, Vikas Publishing 2017

## BOOKS FOR REFERENCE

Francis A. Carey, Richard A. Sundberg. *Advanced Organic Chemistry*. Springer, 2007  
Michael B. Smith, Jerry March. *March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure*. Wiley 2007  
Jonathan Clayden., Nick Greeves, Stuart Warren. *Organic Chemistry*. Oxford University Press, 2012  
Paula Y. Bruice. *Organic Chemistry*. Prentice Hall, 2010  
Reinhard Brückner. *Organic Mechanisms - Reactions, Stereochemistry and Synthesis*. Springer, 2010

## WEB RESOURCES

<http://www.organic-chemistry.org/>  
<http://www.chemguide.co.uk/orgmenu.html>  
<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/intro1.htm>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving/  
MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV - CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019- 2020)

**ANALYTICAL CHEMISTRY**

**CODE:19CH/MC/AC23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To introduce the key concepts of Analytical Chemistry with a special reference to its applications
- To understand the importance of statistical measures
- To familiarize students with separation techniques and thermoanalytical methods
- To understand the common sampling strategies for inorganic and organic compounds

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Account for measurement quality at chemical determinations and apply relevant statistical methods to chemical data
- Differentiate between types of errors and precision and solve problems in various statistical methods
- Separate simple organic mixtures using basic chromatographic techniques
- Apply the principles of titrimetry to perform volumetric analysis experiments
- Evaluate the importance of thermoanalytical techniques in the study of simple compounds

**Unit 1**

**Stoichiometry**

**(6 Hours)**

- 1.1 Important Units of Measurement – S.I Units, Distinction between Mass and Weight, Concentration of Solutions - Moles, Millimoles, Milliequivalence, Molality, Molarity, Normality, Percentage by Weight and Volume, ppm, ppb. Density and Specific Gravity of Liquids. Stoichiometry Calculations.

**Unit 2**

**Sampling and Errors**

**(12 Hours)**

- 2.1 Sampling Techniques-Sampling and Sample Handling of Liquids and Gases, Particulate Solids, Metals and Alloys. Preparation of a Laboratory Sample
- 2.2 Errors – Types of Errors, Accuracy, Precision, Minimization of Errors. Significant Figures. Methods of Expressing Precision: Mean, Median, Average Deviation, Standard Deviation, Coefficient of Variation, Confidence Limits, Q-test, F-test, T-test. The Least Square Method for Deriving Calibration Plots

### Unit 3

#### Separation Techniques

(14 Hours)

- 3.1 Solvent Extraction – Liquid - Liquid Extraction - Factors affecting Solvent Extraction, Soxhlet and Rotavapor Extraction
- 3.2 Chromatography - Column, TLC, Paper, Gas, HPLC and Electrophoresis – Principle, Classification, Choice of Adsorbents, Solvents, Preparation of Column, Elution, Development of Chromatogram and  $R_f$  Value

### Unit 4

#### Titrimetry

(13 Hours)

- 4.1 Calibration of Burette, Pipette, Standard Flask, Titrant, Titrand, Indicators, Equivalence Point, End Point. Primary and Secondary Standards- Criteria and Preparation. Limitations of volumetric analysis
- 4.2 Neutralisation Titrations- strong acid-strong base, weak acid-strong base titrations, indicators, range of indicator, choice of indicator, feasibility of acid base titrations, effect of pH on equivalence point.
- 4.3 Complexation Titrations- metallochrome indicators, masking and demasking agents, Factors affecting Equivalence Point
- 4.4 Precipitation Titrations- Mohr method and Fajans method of estimation of halides. Redox titrations -Theory of redox indicators (Ferroin and diphenyl amine)

### Unit 5

#### Thermoanalytical Methods

(7 Hours)

- 5.1 TGA/DTG and DTA - Principle and Instrumentation, Thermal Analysis of Silver Nitrate, Calcium Oxalate, Methods of obtaining Thermograms, Factors affecting TGA/DTA
- 5.2 DSC - Principle and Applications

### BOOKS FOR STUDY

Vogel, A.I. *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, Science, 2009  
Gopalan, R, Subramanian, P.S and Rengarajan, K. *Elements of Analytical Chemistry*. New Delhi: Sultan Chand, 2004.  
Skoog, D.A, West, D.M. *Fundamentals of Analytical Chemistry*. Thomson Asia, 2014.  
Shoba Ramakrishnan and Banani Mukhopadhyay, *Essentials of Analytical Chemistry*. Noida: Pearson, 2018

### BOOKS FOR REFERENCE

Day R.A.Jr. & A.L. Underwood. *Quantitative Analysis*. New Delhi: Prentice Hall of India, 1993.  
Skoog, Douglas A, James F. Holler & Timothy A. Nieman. *Principles of Instrumental Analysis*. Singapore: Haracourt Asia, 2001.  
Srivastava, T.N & P.C.Kamboj. *Systematic Analytical Chemistry*. New Delhi: Shobanlal Nagin Chand, 1999.  
Usharani, S. *Analytical Chemistry*. New Delhi: Macmillan, 2006.

### WEB RESOURCES

<http://www.epa.gov/rpdweb00/docs/marlap/402-b-04-001b-14-final.pdf>  
<http://eric.ed.gov/?id=EJ386287>

<http://www.sjsu.edu/faculty/watkins/diamag.htm>

<http://www.britannica.com/EBchecked/topic/108875/separation-and-purification>

<http://www.chemistry.co.nz/stoichiometry.htm>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving/  
MCQ/Model Preparation/Short Answer Tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SEMI-MICRO QUALITATIVE ANALYSIS PRACTICAL I**

**CODE:19CH/MC/P222**

**CREDIT:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**Unit 1**

- 1.1 Reactions of the Following Acid Radicals: Carbonate, Sulphate, Sulphide, Nitrate, Chloride, Bromide, Fluoride, Oxalate, Phosphate, Arsenite, Arsenate, Chromate and Borate
- 1.2 Elimination of Interfering Radicals – Fluoride, Oxalate, Phosphate, Chromate and Borate
- 1.3 Reactions of the Following Basic Radicals and its Group Separations. Lead, Copper, Bismuth, Cadmium, Antimony, Iron, Chromium, Aluminum, Cobalt, Nickel, Manganese, Zinc, Barium, Strontium, Calcium, Ammonium and Magnesium

**Unit 2**

Analysis of a given Salt Containing one Cation and one Anion (which will be an interfering ion.)

**Unit 3**

**Preparation of Inorganic Complexes (to be tested internally)**

Tetraamminecopper(II)sulphate hydrate,  
Tris(thiourea)copper(II)sulphate dehydrate  
Potassium trioxalatoferrate (III)

**Theory and principles behind the experiments concerned to be tested periodically (equations involved) and along with the CA tests and end semester exam for a maximum of ten marks**

**BOOKS FOR STUDY**

Sathian Jesurietta, *Semi Micro Qualitative Analysis*. 2008.  
Svehla.G. *Vogel's Qualitative Inorganic Analysis*. Prentice Hall, 2008.  
Sundaram. S., P. Krishnan. and P.S. Raghavan, *Practical Chemistry*. Madras.  
S.Viswanathan (Printers & Publishers) Pvt. Ltd., 1993.  
Venkateswaran V. R., Veeraswamy, A.R. Kulandaivelu, *Basic Principles of Practical Chemistry*, New Delhi. Sultan Chand & Sons, 1993.



**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 3 Hours**

Two-Three questions involved in Semi-Micro Analysis

10 marks

General Procedure

5 marks

Acid Radical (1x15)

15 marks

Elimination Procedure

5 marks

Basic Radical (1x15)

15 marks

**End-Semester Examination:****Total Marks: 50****Duration: 3 hours**

Two-Three questions involved in Semi-Micro Analysis

10 marks

General Procedure

5 marks

Acid Radical (1x15)

15 marks

Elimination Procedure

5 marks

Basic Radical (1x15)

15 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19CH/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INORGANIC CHEMISTRY I**

**CODE:19CH/MC/IC34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To give an understanding of the general trends in the chemistry behind s and p-block elements.
- To impart an understanding of the biological significance of sodium, potassium, magnesium and calcium and the preparation and properties of industrially important compounds.
- To create interest in the chemistry of the compounds of boron, carbon, nitrogen, sulphur and halogens

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- State the list of elements in the periodic table so as to demonstrate trends in their physical and chemical properties.
- Classify alkali and alkaline earth metals according to their properties
- Compare the reactivity of groups 13 to 17 in the periodic table
- Appreciate the importance of noble gases and their compounds
- Understand the significance of Clathrate compounds

**Unit 1**

**Periodicity of Properties and the Hydrides**

**(15 Hours)**

- 1.1 Periodic Table, Horizontal, Vertical and Diagonal Relationships in the Periodic Table – Li-Mg, Be-Al, B-Si
- 1.2 Periodicity of Properties of s, p and d – Block Elements with respect to Atomic Radii, Ionic Radii, Covalent Radii, Ionization Energy, Electronegativity, Electron Affinity
- 1.3 Inert Pair Effect, Effective Nuclear Charge – Screening Effect, Slater Rules
- 1.4 Hydrides – Classification as Saline, Metallic, Molecular and Polymeric Hydrides - One Method of Preparation and Important Properties, Hydrogen Bonding and its Consequences
- 1.5 Acids and Bases: Bronsted-Lowry, Lux-Flood, Solvent System and Lewis Concepts of Acids and Bases, Factors affecting strengths of Lewis Acids and Bases, HSAB Principle and its Applications

## Unit 2

### Chemistry of s-Block Elements

(10 Hours)

- 2.1 Group 1 Alkali Metals: Position of Alkali Metals in the Periodic Table, Discussion of Alkali Metal Group with respect to their Oxides, Halides and Hydroxides. Extraction of Lithium from Spodumene. Importance of Cryptates and Crown Ethers
- 2.2 Group 2 Alkaline Earth Metals: Similarities and Gradations in Physical and Chemical Properties with respect to Oxides, Hydroxides, Halides and Sulphates. Extraction of Beryllium

## Unit 3

### Chemistry of p-Block Elements – Groups 13 & 14

(12 Hours)

- 3.1 Boron Family: Periodicity in the Properties of Boron Group with respect to their Oxides, Hydroxides and Halides. Preparation and Bonding of  $B_2H_6$ . Preparation, Properties, Structure and uses of Boron Nitride and Borazole
- 3.2 Carbon Family: Comparison of Carbon Group Elements - Hydrides, Oxides and Halides. Silicates: Classification and Structure. Silicones- Preparation, Properties and uses

## Unit 4

### Chemistry of p-Block Elements–Groups 15, 16 & 17

(18 Hours)

- 4.1 Nitrogen Family: Comparison of Nitrogen Group Elements with respect to Oxides, Hydrides and Halides. Preparation, Properties and Structure of Hydrazine, Hydroxylamine, Hydrazoic Acid. Oxyacids of Nitrogen and Phosphorus - Preparation, Properties and Structure. Structure and Applications of Phosphonitrilic Compounds
- 4.2 Oxygen Family: Comparison of Oxygen Group Elements with respect to Hydrides, Halides, Oxides. Preparation, Properties and Structure of Oxyacids and Peracids of Sulphur. Thionic Acids
- 4.3 Halogen Family: Comparison of Halogens with respect to the Elements, Hydrides and Oxides. Preparation and Structure of  $OF_2$ ,  $Cl_2O$ ,  $I_2O_5$  and  $Cl_2O_7$ ,  $HClO_4$ .
- 4.4 Interhalogen Compounds: Preparation and Structure of  $ICl$ ,  $BrF_3$ ,  $IF_3$ ,  $IF_5$  and  $IF_7$ . Basic Nature of Iodine. Pseudohalogens and Polyhalides

## Unit 5

### Chemistry of Group 18 elements

(10 Hours)

- 5.1 Occurrence, Position of Noble Gases in the Periodic Table. Preparation, Properties and Structure of Compounds of Xenon -  $XeF_2$ ,  $XeF_6$ ,  $XeO_3$ ,  $XeOF_2$  as per VSEPR Theory
- 5.2 Clathrate Compounds and its Applications

## BOOKS FOR STUDY

Puri. B.R., L.R Shama, & C.I. Kalia. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2018.

Gopalan. R. *Inorganic Chemistry for Undergraduates*. Hyderabad: Universities Press, 2009.

## BOOKS FOR REFERENCE

Cotton, F.A. and G. Wilkinson. *Advanced Inorganic Chemistry*. New Delhi: Wiley Eastern, 2008.  
Emeleus, H.J. & A.G. Sharpe. *Modern Aspects of Inorganic Chemistry*. London: ELBS, 1973,  
Shriver, O and Atkins, P.W. *Inorganic Chemistry*. San Francisco: W.H. Freeman, 2006.  
Lee J.D. *Concise Inorganic Chemistry*. New Delhi: Oxford University Press, 2008.

## WEBSITES

<http://www.funscience.in/study-ne/Chemistry/ModernPeriodicTable/PeriodicityOfElements.php>  
[https://chem.libretexts.org/Bookshelves/Inorganic\\_Chemistry](https://chem.libretexts.org/Bookshelves/Inorganic_Chemistry)  
<https://www.thoughtco.com/noble-gases-forming-compounds-608601>  
<https://www.brightstorm.com/science/chemistry/the-periodic-table/s-block-elements>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**  
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Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)  
Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**  
Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving/  
MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5  
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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PHYSICAL CHEMISTRY I**

**CODE:19CH/MC/PC33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of different crystal systems
- To explain the various cubic lattices
- To impart a comprehensive knowledge on closed packed structures
- To introduce the concept of electrical polarizability and magnetic susceptibility
- To enlighten on concepts of ionic equilibria

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Recognize the seven crystal systems, represent Miller planes and identify cubic powder X-ray diffractograms
- Explain the principle involved in closed packed structures
- Relate the electrical and magnetic properties of molecules and their structures
- Determine the pH of buffers, weak electrolytes and salts of weak electrolytes
- Understand the applications of solubility product

**Unit 1 (13 Hours)**

**Solid State**

- 1.1 Elements of Symmetry in a cube, Crystalline and Amorphous Solids, Isotropy and Anisotropy, Interfacial Angles, Symmetry in Crystal Systems
- 1.2 Unit Cell, Seven Crystal Systems, Space Lattice and Bravais Lattices
- 1.3 Law of Rational Indices, Weiss indices, Miller Indices, X-Ray Diffraction, Bragg's Law, Derivation of Bragg's Equation, Representation of Planes.
- 1.4 Bragg's Equation, Experimental Technique-Powder Method, X-Ray Diffraction Patterns of a Cubic System- Primitive, Body Centered and Face Centered Cubic Lattice

**Unit 2 (13 Hours)**

**Closed Packed Structures of Ionic Crystals**

- 2.1 Closed Packed Structures- CCP and HCP, Percentage Void, Packing Efficiency, Radius Ratio Rule
- 2.2 Simple Structures: Types - AX (NaCl, ZnS, NiAs), AX<sub>2</sub> (CaF<sub>2</sub>, TiO<sub>2</sub>, CdCl<sub>2</sub> and CdI<sub>2</sub>)
- 2.3 Point Defects – Schottky and Frenkel Defects, Non-Stoichiometric Defects
- 2.4 Liquid Crystals – Types, Structures, Textures and Applications

**Unit 3 (10 Hours)**

**Electrical & Magnetic Properties of Atoms and Molecules**

- 3.1 Electrical properties: Polarisation, Clausius-Mossotti equation, Debye equation, polarisability & frequency
- 3.2 Dipole moment and molecular polarisabilities and their measurements.
- 3.3 Magnetic properties: Magnetic permeability, magnetic susceptibility, Diamagnetism, Paramagnetism, Ferro and Anti-ferromagnetism

**Unit 4 (10 Hours)**

**Ionic Equilibria**

- 4.1 Proton Transfer Equilibria-Bronsted Lowry Theory, Protonation and Deprotonation ( $pK_a$ ,  $pK_b$ , pH, pOH,  $K_w$  and  $pK_w$ ), Polyprotic Acids, Amphiprotic Systems ( $H_2O$ )
- 4.2 Buffers: Acid, Basic and Single salt buffer, buffer capacity, buffer action, Derivation of Henderson-Hasselbach Equation
- 4.3 Hydrolysis of Salts (weak acid & strong base, weak base & strong acid, weak acid & weak base), Hydrolysis Constant, Relation between  $K_h$ ,  $K_a$  ( $K_b$ ),  $K_w$  and Degree of hydrolysis

**Unit 5 (6 Hours)**

**Solubility Equilibria**

- 5.1 Solubility, Solubility Product, relation between molar solubility and solubility product of a sparingly soluble salt, Common Ion effect
- 5.2 Applications of solubility product in determination of solubility of sparingly soluble salts, predicting precipitation reactions, precipitation of soluble salts and in qualitative semi micro inorganic salt analysis

**BOOKS FOR STUDY**

Atkins, P.W. *Physical Chemistry*. Oxford University, 2016.

Puri, B.R., Sharma, L.R. & Pathania, M.S., *Principles of Physical Chemistry*, Vishal Publishing Co, Jalandar, Delhi, 2018

**BOOKS FOR REFERENCE**

Bahl, A., Bahl, B.S. & Tuli, G.D., *Essentials of Physical Chemistry*, S.Chand 2018

Rogers, D. W. *Concise Physical Chemistry* Wiley 2010.

Silbey, R. J.; Alberty, R. A. & Bawendi, M. G. *Physical Chemistry* 4th Ed., John Wiley & Sons, Inc. 2005.

Barrow, Gordon, M. *Physical Chemistry*. The McGraw Hill companies, 2008.

Smart, L.E and Moore, E.A. *Solid State Chemistry: An Introduction*. CRC Press, 2012.

Donald Allan McQuarrie, John Douglas Simon. *Physical Chemistry: A Molecular Approach* University Science Books, 2013.

Moore, W.J. *Physical Chemistry*. Orient Longman, 2004.

Ball, D. W. *Physical Chemistry* Thomson Press, India 2007

Castellan, G. W. *Physical Chemistry* 4th Ed. Narosa 2004

**WEB RESOURCES**

<http://www.jce.acs.in>

<http://chemwiki.ucdavis.edu>



## **PATTERN OF ASSESSMENT**

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**Total Marks: 50**

**Duration: 90 minutes**

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**Total Marks: 50**

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MCQ/Model Preparation/Short Answer Tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**10 to 15% of portion must be numerical**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SEMI-MICRO QUALITATIVE ANALYSIS PRACTICAL II**

**CODE:19CH/MC/P332**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**Unit 1**

- 1.1 Analysis of a Salt Mixture Containing two Cations and two Anions
- 1.2 Principles and Techniques in Semi-Micro Analysis of Acid and Basic Radicals:  
Solubility Product Principle, Common Ion Effect, use of Organic and Inorganic Reagents in Spot Tests (Equations Relating to Reactions and Confirmatory Tests)

**Theory, Principles and Equations involved behind the reactions to be tested periodically & along with the CA tests and also end semester exam for a maximum of five marks.**

**BOOKS FOR STUDY**

Sathian Jesurietta, *Semimicro Qualitative Analysis*. 2008.

Svehla.G, *Vogel's. Qualitative Inorganic Analysis*. Prentice Hall, 2008.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 3 Hours**

Two/three questions involved in analysis (First 10 min): 5 marks

General Procedure:	6 marks
Acid radicals:	20 (2x10) marks
Elimination procedure:	3 marks
Basic radicals:	16 (2x8) marks

**End-Semester Examination:                      Total Marks: 50                      Duration: 3 hours**

Two/three questions involved in analysis (First 10 min): 5 marks

General Procedure:	6 marks
Acid radicals:	20 (2x10) marks
Elimination procedure:	3 marks
Basic radicals:	16 (2x8) marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Chemistry to Plant Biology & Plant  
Biotechnology and Advanced Zoology & Biotechnology Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FUNDAMENTALS OF BIOCHEMISTRY I**

**CODE:19CH/AC/FB33**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To bring about an understanding of fundamental biochemical principles.
- To enable students to explain biological mechanisms, such as the processes and control of bioenergetics and metabolism, as chemical reactions
- To explain the significance of clinical hematological tests
- To enable students to understand the chemistry involved in enzyme action

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the specificity of enzymes and the chemistry of enzyme action
- Appreciate the significance of pH in blood
- Explain how the metabolism of glucose leads ultimately to the generation of large quantities of ATP
- Illustrate the importance of glucose in biological processes
- Describe the roles and pathways of coagulation factors in blood plasma in activating thrombin to promote coagulation

**Unit 1**

**Introduction to Biochemistry**

**(10 Hours)**

- 1.1 Molecular Logic of Living Organisms
- 1.2 Water – Physical Properties and Hydrogen Bonding of Water-Solvent Properties of Water, Hydrophobic Interactions, the Ionic Product of Water, the pH Scale. Acid Base Indicators- Phenolphthalein and Methyl Orange
- 1.3 Maintenance of pH of Blood, Bicarbonate Buffers, Acidosis and Alkalosis, Buffers and electrolytes in the body

**Unit 2**

**Blood**

**(5 Hours)**

- 2.1 Blood - Composition of Blood, Blood Coagulation – Mechanism. Hemophilia and Sickle Cell Anaemia
- 2.2 Clinical significance of RBC, WBC and Platelet Count in blood

- Unit 3**  
**Bioenergetics** (4 Hours)  
3.1 Enthalpy, Entropy, Free Energy, Standard Free Energy, Spontaneous and Non-Spontaneous. Exergonic and Endergonic Reactions  
3.2 High Energy Compounds ATP and ADP, Structural Basis for the Role of ATP as the currency of the cell

- Unit 4**  
**Carbohydrates** (15 Hours)  
4.1 Classification of Carbohydrates  
4.2 Haworth's Structure and Reactions of Glucose, Fructose and Sucrose.  
Polysaccharides -Homopolysaccharides-Cellulose, Starch-Amylose and Amylopectin (Structural Elucidation not required)  
4.3 Digestion of di and polysaccharides in the body, maintenance of glucose level in Blood- significance of HbA1c  
4.4 Carbohydrate Metabolism - Metabolism of Glucose - Glycolysis, TCA Cycle (structures not required), Glycogenesis, Glycogenolysis, Gluconeogenesis. Oxidative phosphorylation and electron transport chain

- Unit 5**  
**Enzymes** (5 Hours)  
5.1 Definition of Enzymes, Coenzymes and Apoenzymes  
5.2 Nomenclature and Classification of Enzymes  
5.3 Enzyme Specificity - Factors affecting Enzyme Action  
5.4 Mechanism of Enzyme Action - Michaelis- Menten Theory (No Derivation) – Fischer's lock and key model and Koshland's induced fit model

### BOOKS FOR STUDY

Berry, A.K. *Textbook of Biochemistry*. Emkay, 2001  
Jain, J.L. *Fundamentals of Biochemistry*. New Delhi: S. Chand, 2007.  
Doraiswamy Yesodha, Geetha Swaminathan and Nagamani, B. *Allied Biochemistry*. Chennai: Margham, 2015.  
Satyanarayana, U., *Biochemistry*, 2<sup>nd</sup> ed., Kolkata: Books and allied, 2005

### BOOKS FOR REFERENCE

Dushyant Kumar Sharma. *Biochemistry*. Alpha Science, 2009  
Lehninger A.L. *Principles of Biochemistry*. Delhi: CBS, 2006.  
Stryer, Lubert. *Biochemistry*. New York: W.H. Freeman, 2007.  
Conn, E E., and P.K Stumpf., *Outline of Biochemistry*, 5th ed., New Delhi: Wily Eastern, 2002.

### WEB RESOURCES

<https://www.rpi.edu/dept/bcbp/molbiochem/MBWeb/mb1/part2/bioener.htm>  
<http://www.rsc.org/Education/Teachers/Resources/cfb/enzymes.htm>  
<http://www.rsc.org/Education/Teachers/Resources/cfb/carbohydrates.htm>  
<http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/E/EnzymeKinetics.html>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving

MCQ/Model Preparation/Short Answer Tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Chemistry to students of Physics**

(Effective from the academic year 2019-2020)

**FUNDAMENTALS OF CHEMISTRY I**

**CODE:19CH/AC/FC33**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To acquire introductory knowledge of organic compounds and concepts in organic chemistry
- To learn the fundamentals of polymer chemistry
- To understand the important structural aspects and functions of amino acids, proteins and carbohydrates
- To learn about the kinetics of zero, first and second order reactions and the effect of temperature on rates of reactions.
- To learn the basics of acid-base theories and buffer solutions.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Gain basic knowledge on the functional groups in organic chemistry
- Appreciate the applications of different polymers
- Understand the structural aspects and functions of biomolecules
- Appreciate the importance of kinetics
- Analyse the kinetics of a chemical reaction
- Differentiate between the types of acids and bases

**Unit 1**

**Introduction to Organic Chemistry (6 Hours)**

- 1.1 Identification of common functional groups in Organic compounds (alcohols, amines, alkyl halides, aldehydes, ketones, carboxylic acids, esters and amides)
- 1.2 Nature of bond fission- homolytic and heterolytic, types of reagents-nucleophile and electrophile (examples)
- 1.3 Types of intermediates- carbocations, carbanions and free radicals –definition, structure and examples
- 1.4 Substitution, Addition and Elimination Reactions- definition with an example each.

**Unit 2**

**Polymer Chemistry (10 Hours)**

- 2.1 Classification of Polymers, types of Polymerisation – addition (cationic, anionic and free radical mechanism) and condensation
- 2.2 Thermosetting and Thermoplastics –Definition with examples, Structure and Applications of Polyethylene, Polyvinylchloride, Nylon 66 and Bakelite, Natural Rubber- Vulcanisation of rubber
- 2.3 Biodegradable and Non-biodegradable polymers

**Unit 3** (10 Hours)

**Chemistry of Biomolecules**

- 3.1 Amino acids – Classification based on R groups, Zwitter ion and isoelectric point- definition and illustrations, chemical reactions of amino acids-Ninhydrin test
- 3.2 Polypeptides-Introduction and nomenclature, Proteins-Structure (primary, secondary, tertiary and quaternary) and functions, Denaturation and Renaturation of proteins
- 3.3 Carbohydrates- Classification, structure of Glucose and Fructose –Fischer and Haworth projections, Structure and uses of Maltose and Sucrose, Starch- structure and reaction with iodine, Uses of starch and cellulose
- 3.4 Analysis for carbohydrates- Molisch, Barfoed, Tollen's and Fehling's tests, preparation of Osazone derivative

**Unit 4** (7 Hours)

**Chemical Kinetics**

- 4.1 Rate of reaction, Order and Molecularity
- 4.2 Zero order, First order, Pseudo-unimolecular and Second order reactions.
- 4.3 Determination of order – Graphical, Half - life, Integrated rate equation and Ostwald's isolation methods
- 4.4 Energy of activation- Effect of temperature on reaction rates-Arrhenius equation

**Unit 5** (6 Hours)

**Ionic Equilibrium**

- 5.1 Acid-base concept -Arrhenius, Lowry Bronsted and Lewis Concepts
- 5.2 Strength of acids and bases- Dissociation constants of acids ( $K_a$ ), bases(  $K_b$ ) and water (  $K_w$ ),  $pK_a$ ,  $pK_b$  and  $pK_w$
- 5.3 Definition of pH and pOH, significance of pH scale
- 5.4 Buffer solutions – Types, buffer action, Derivation and importance of Henderson-Hasselbach equation

**BOOKS FOR STUDY**

Puri, B.R., L.R. Sharma., Madan S. Pathania. *Principles of Physical Chemistry*. New Delhi: Vishal, 2018.

Puri B.R, Sharma L.R & Kalia K.C. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2017.

Jain M.K, Sharma S.C., *Modern Organic Chemistry*, Vishal Publishing & Co, 2015

Jain. J.L, Sunjay Jain, Nitin Jain, *Fundamentals of Biochemistry*, S. Chand & Company Ltd, New Delhi, 2006.

Subramanian, P.S, R. Gopalan, K. Rengarajan, *Elements of Analytical Chemistry*, Sultan Chand & Sons, New Delhi, 2007.

Yesodha Doraiswamy, Swaminathan Geetha and V. Radhakrishnan, *Allied Biochemistry*, Chennai, Margham Publications, 2002.

**BOOKS FOR REFERENCE**

Furniss *et al*, *Vogel's Text Book of Practical Organic Chemistry*, London, ELBS, 2006.

Morrison. R.T. Boyd R.N & Bhattacharjee. S.K, *Organic Chemistry*, 7<sup>th</sup> Edition, Pearson, Dorling Kindersley (India) Pvt Ltd., 2012.

## **WEBSITES**

<http://chemed.chem.purdue.edu/genchem/topicreview/bp/ch20/electro.php>

<http://www.cliffsnotes.com/sciences/biology/biochemistry-i/the-importance-of-weak-interactions/acid-base-reactions-in-living-systems>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving/MCQ

Model Preparation/Short Answer Tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 Hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10,

Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Chemistry to Physics, Plant Biology & Plant Biotechnology and Advanced Zoology & Biotechnology Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**BIOCHEMISTRY PRACTICAL I**

**CODE:19CH/AC/P132**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**Unit 1**

1. Reactions of Carbohydrates – Glucose, Fructose, Maltose, Sucrose and Starch
2. Reactions of Amino Acids - Reactions of Tryptophan, Tyrosine, Arginine and Cysteine
3. Reactions of Proteins - Reactions of Casein and Egg Albumin
4. Identification of Unknown Organic Compound

**BOOKS FOR STUDY**

Swaminathan Geetha and Mary George. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Analysis	50 marks	
Preliminary reaction	15 marks	
Confirmatory tests with all colour tests	30 marks	
Final report	5 marks	

<b>End-Semester Examination:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Analysis	50 marks	
Preliminary reaction	15 marks	
Confirmatory tests with all colour tests	30 marks	
Final report	5 marks	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ORGANIC CHEMISTRY II**

**CODE:19CH/MC/OC44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the structure and reactivity of carboxylic acid and their derivatives
- To provide a basic understanding of the synthesis of nitrogen containing organic compounds
- To introduce the classification and preparation of dyes
- To enable students to understand the structure and reactivity of alcohol, phenol, and ether functional groups.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Assign IUPAC names for different types of organic compounds
- Predict and explain the structural difference between alcohols and phenols which affect their physical characteristics and reactivity
- Account for the basicity and nucleophilicity of amines.
- Recognize the synthetic importance of benzene diazonium salts and diazomethane
- Describe and discuss the reactions of carboxylic acid derivatives

**Unit 1 (13 Hours)**

**Alcohols, Phenols and Ethers**

- 1.1 Aliphatic Alcohols: Reactions with reference to C-OH Bond Cleavage and O-H Bond Cleavage. Di and Trihydric Alcohols- Action of  $\text{HIO}_4$  and Uses
- 1.2 Phenols: Nomenclature, acidity of phenols- Effects of substituents – Comparison of Acidity with Alcohols. Hydrogen Bonding
- 1.3 Reactions: Acid Character, Ether Formation, Ester Formation, Reactions involving Benzene Ring- Nitration, Sulphonation, Halogenation, Nitrosation, Friedel–Crafts reaction, Coupling reactions, Kolbe's and Riemer-Tiemann reactions
- 1.4 Reactions of Ethers and Epoxides. Cleavage of Ether Linkages by HI.

**Unit 2 (15 Hours)**

**Carboxylic Acids and their Derivatives**

- 2.1 Nomenclature and Classification of Aliphatic and Aromatic monocarboxylic Acids, Preparation and Reactions. Acidity (Effect of Substituents on Acidity) and Salt formation, mechanism of Reduction and substitution in Alkyl or Aryl Group
- 2.2 Preparation and Properties of Unsaturated Carboxylic acids- Acrylic, Crotonic and

- Cinnamic acids. Preparation and Properties of Dicarboxylic Acids - Oxalic, Malonic, Succinic, Glutaric, Adipic and Phthalic Acids
- 2.3 Action of heat on  $\alpha$ ,  $\beta$ ,  $\gamma$  - Hydroxy and Amino carboxylic acids. Stereospecific addition reaction of maleic and fumaric acids
- 2.4 Preparation and Reactions of Acid Chlorides, Acid Anhydrides, Amides and Esters. Acid and Alkaline Hydrolysis of Esters. Trans-Esterification

**Unit 3 (15 Hours)**

**Nitro and Amino Compounds**

- 3.1 Aliphatic and Aromatic Nitro Compounds- Classification, general properties and preparation by nitration. Nitroalkanes – Tautomerism and reactions- Distinction from alkyl nitrite
- 3.2 Aromatic Nitro Compounds - reduction of Nitrobenzene in acidic, neutral and alkaline media and electrolytic reduction
- 3.3 Aliphatic and Aromatic Amines – Preparation, Reactions- Basicity of Amines, Effect of substituents on basicity of amines. Separation of Mixture of Amines by Hinsberg and Hofmann method
- 3.4 Distinguishing primary, secondary and tertiary amines. Ascent and descent of series in aliphatic amines
- 3.5 Diazonium Salts-Preparation and reactions - Replacement reactions (Sandmeyer, Gattermann and Gomberg reactions) and Coupling Reactions

**Unit 4 (12 Hours)**

**Synthesis involving Active Methylene Group**

- 4.1 Malonic, Acetoacetic and Cyanoacetic Ester: Characteristic reactions of active methylene group and synthetic applications
- 4.2 Diazomethane and Diazoacetic Ester: Preparation, Structure and Synthetic Applications

**Unit 5 (10 Hours)**

**Colours and Dyes**

- 5.1 Complementary Colours and Photochemistry of Vision
- 5.2 Theories of Dyes, Classification of Dyes based on chemical structure and application
- 5.3 Preparation and uses of Azo Dye - Methyl Orange and Bismarck Brown; Triphenyl Methane Dye -Malachite Green, Para Rosaniline and Crystal Violet; Phthalein Dye - Phenolphthalein and Fluorescein; Vat Dye – Indigo; Anthraquinone Dye - Alizarin

**BOOKS FOR STUDY**

Jain M.K, Sharma S.C., *Modern Organic Chemistry*, Vishal publishing & Co, 2015

Morrison .R.T. Boyd R.N & Bhattacharjee.S.K. *Organic Chemistry*, Pearson, Dorling Kindersley,2016.

Sachin Kumar Gosh. *Advanced General Organic Chemistry (A Modern Approach) (Set I & II)*, 3<sup>rd</sup> Edition, New Central Book Agency, Kolkatta, 2010

**BOOKS FOR REFERENCE**

Michael B. Smith, Jerry March. *March's Advanced Organic Chemistry Reactions, Mechanisms, and Structure*. Wiley, 2007.

Francis A. Carey, Richard A. Sundberg. *Advanced Organic Chemistry*. Springer, 2007.

Ahluwalia V K. *Organic Reaction Mechanisms*. New Delhi: Narosa, 2011.

Finar I.L. *Organic Chemistry Vol. I& II* London:ELBS,2002.

Paula Y. Bruice. *Organic Chemistry*. Prentice Hall, 2010.  
Jonathan Clayden, Nick Greeves, Stuart Warren. *Organic Chemistry*. Oxford University Press, 2012.

### WEB RESOURCES

<http://www.organic-chemistry.org/>

<http://www.chemguide.co.uk/orgmenu.html>

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/intro1.htm>

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the  
Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving

MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the  
Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH IV - CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ORGANIC CHEMISTRY PRACTICAL I**

**CODE:19CH/MC/P442**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL TEACHING HOURS:39**

**Unit 1**

**Analysis of Organic Compounds**

- 1.1 Qualitative analysis of unknown organic compounds containing simple functional groups -Acids, Phenols, Carbohydrates, Aldehydes, Ketones, Esters, Amines, Amides, Nitro Compounds, Anilides, Halo Compounds, Sulphur Compounds (Thiourea).
- 1.2 Preparation of Derivatives of Organic Compounds

**Theory and principles behind the experiments concerned to be tested periodically (equations involved) and along with the CA tests and end semester exam for a maximum of five marks**

**BOOKS FOR STUDY**

Sathian Jesurietta, *Organic Chemistry Practicals – Lab Manual*. 2010.

Vogel.A. *Vogel's Textbook of Practical Organic Chemistry* India: Pearson, 2005.

**BOOKS FOR REFERENCE**

Mann F.G. & Saunders B.C. *Practical Organic Chemistry* India: Pearson, 2009.

Furniss, B.S.; Hannaford, A.J.; Smith, P.W.G.; Tatchell, A.R. *Practical Organic Chemistry, 5th Ed.*, Pearson Education 2012

Ahluwalia, V.K. & Aggarwal, R. *Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis*, University Press 2000.

Ahluwalia, V.K. & Dhingra, S. *Comprehensive Practical Organic Chemistry: Qualitative Analysis*, University Press 2000.

Vogel A.I., Tatchell, A.R., Furnis B.S. Hannaford A.J. & Smith P.W.G., *Textbook of Practical Organic Chemistry, 5th Ed.*, Prentice-Hall 1996.

**PATTERN OF ASSESSMENT**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 3 Hours**

Two-Three questions related to the Theory of analysis of Organic Compounds	5 marks
Aliphatic/Aromatic:	6 marks
Saturated/Unsaturated:	6 marks
Special Elements:	8 marks
General Procedure:	10 marks
Derivative:	5 marks
Functional Group test	
and relevant confirmatory test:	8 marks
Report:	2 marks

<b>End-Semester Examination:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Two-Three questions related to the Theory of analysis of Organic Compounds	5 marks	
Aliphatic/Aromatic:	6 marks	
Saturated/Unsaturated:	6 marks	
Special Elements:	8 marks	
General Procedure:	10 marks	
Derivative:	5 marks	
Functional Group test and relevant confirmatory test:	8 marks	
Report:	2 marks	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19BT/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Chemistry to students of Plant Biology and Plant Biotechnology and Advanced Zoology and Biotechnology**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FUNDAMENTALS OF BIOCHEMISTRY II**

**CODE:19CH/AC/FB43**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of the biochemical importance of lipids, proteins, hormones and nuclei acids
- To enable students to acquire skills in simple laboratory testing of blood samples
- To enable students to understand the structure of DNA and RNA and explain the difference between the constituent bases, sugars, nucleosides and nucleotides

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Summarise the mechanism of DNA replication and learn the significance of discontinuous synthesis
- Demonstrate an understanding of the principles involved in important biochemical techniques
- Describe the mechanism for activation and transport of fatty acids into mitochondria for catabolism.
- Explain the mechanism for the formation of ketone bodies and identify the physiological and pathological roles of those molecules
- Distinguish between primary, secondary, tertiary, and quaternary protein structure
- Describe the effect of hormones on the processes and pathways that regulate blood glucose level

**Unit 1 (8 Hours)**

**Lipids**

- 1.1 Classification of Lipids and Fats
- 1.2 Definitions and Significance of Iodine Value, Acid Value, Saponification Value, RM Value and Acetyl Value
- 1.3 Lipid Metabolism- Oxidation of  $\beta$  fatty acids, Biosynthesis of Fatty Acids, Ketone bodies and Ketosis. Digestion and Absorption of Lipids
- 1.4 Risk factor of HDL, LDL and total cholesterol in the body

**Unit 2 (12 Hours)**

**Proteins**

- 2.1 Amino Acids - Classification based on R Groups
- 2.2 Chemical Reactions of amino acids - with ninhydrin, mineral acid, formaldehyde, FDNB and CO<sub>2</sub>
- 2.3 Structure of Proteins - Peptide Bond, Primary, Secondary and Tertiary structures.

- 2.4 Classification of proteins based on shape, composition and solubility. Properties of proteins - denaturation, amphoteric nature, ion binding capacity and solubility
- 2.5 Protein Metabolism - transamination, oxidative deamination and Urea Cycle.
- Digestion and absorption of proteins

**Unit 3 (5 Hours)**

**Hormones**

- 3.1 Definition, Classification of Hormones (Steroid and Non-Steroid Only)
- 3.2 Mechanism of Hormone Action
- 3.3 Functions of Insulin and Thyroxin. Clinical significance of TSH, T<sub>3</sub> and T<sub>4</sub>

**Unit 4 (8 Hours)**

**Nucleic Acids**

- 4.1 Nucleosides, Nucleotides, DNA – Structure (Watson and Crick model) and Functions
- 4.2 RNA – Structure, Types and Functions
- 4.3 Comparison of DNA and RNA with reference to occurrence, composition, structure and functions
- 4.4 DNA as Genetic Material, DNA Replication and Protein Synthesis

**Unit 5 (6 Hours)**

**Analytical techniques in Biochemistry**

- 5.1 Centrifugation – Principle and applications of sedimentation and Ultracentrifugation
- 5.2 Electrophoresis – Principle and applications of SDS-PAGE
- 5.3 Ultrafiltration – Principle and applications of Dialysis
- 5.4 Chromatography – Principle and applications of Thin layer (TLC) and High Performance Liquid Chromatography (HPLC)

**BOOKS FOR STUDY**

Berry, A.K. *Textbook of Biochemistry*. Emkay, 2001.  
 Doraiswamy Yesodha, Geetha Swaminathan and Nagamani, B. *Allied Biochemistry*. Chennai: Margham, 2015.

**BOOKS FOR REFERENCE**

Lehninger A.L. *Principles of Biochemistry*. New Delhi: CBS, 2006.  
 Stryer Lubert, *Biochemistry*. New York: W.H. Freeman, 2007.  
 Satyanarayana U, (2005), *Biochemistry*, 2<sup>nd</sup> ed., Books and allied (P) ltd, Kolkata  
 Dushyant Kumar Sharma. *Biochemistry*. Alpha Science, 2009  
 Satyanarayana, U., *Biochemistry*, 2<sup>nd</sup> ed., Kolkata: Books and allied, 2005

**WEB RESOURCES**

<http://www.hsph.harvard.edu/nutritionsource/what-should-you-eat/protein/>  
<http://e.hormone.tulane.edu/learning/types-of-hormones.html>  
<https://www2.chemistry.msu.edu/faculty/reusch/virttxtjml/nucacids.htm>  
<http://library.med.utah.edu/NetBiochem/nucacids.htm>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A –  $15 \times 1 = 15$  Marks (All questions to be answered) Multiple choice - 5, Fill in the  
Blanks - 5, T/F or Match the following or single line answer - 5

Section B –  $3 \times 5 = 15$  Marks (3 out of 5 to be answered)

Section C –  $2 \times 10 = 20$  Marks (2 out of 3 to be answered)

**Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving/  
MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $30 \times 1 = 30$  Marks (All questions to be answered) Multiple choice - 10, Fill in the  
Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B –  $5 \times 6 = 30$  Marks (5 out of 7 to be answered)

Section C –  $2 \times 20 = 40$  Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Chemistry to students of Plant Biology and Plant Biotechnology and Advanced Zoology and Biotechnology**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BIOCHEMISTRY PRACTICAL II**

**CODE:19CH/AC/P242**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL TEACHING HOURS:39**

**Unit 1**

**Estimations**

1. Estimation of Oxalic Acid /  $\text{Fe}^{2+}$  (Permanganimetry)
2. Estimation of Glucose
3. Estimation of Glycine by Sorensen's Titration
4. Estimation of Ascorbic Acid
5. Estimation of Acid Value / Saponification Value / Iodine Value of Edible Oil
6. Estimation of Enzyme Catalase in Chowchow / Radish

**Unit 2**

**Group Experiments**

1. Estimation of Phosphorus by Colorimetry
2. Estimation of DNA/RNA by Colorimetry
3. Separation of Amino Acids by Paper Chromatography

**BOOKS FOR STUDY**

Sathian Jesurietta. *Volumetric Estimations – Lab Manual*. 2010.

Vogel A.I. *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, 2000.

Mendhan,J., *Vogel's Textbook of Quantitative Chemical Analysis*, Pearson 2009.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 3 Hours**

Equations and short Procedure (10 minutes) 10 marks

Experiment upto 2% error - 40 marks  
2.1 – 3.0% - 35marks  
3.1 – 4.0 25 marks  
4.1 -5% 20 marks  
Above 5% 15 marks

**End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Equations and short Procedure (10 minutes) 10 marks

Experiment upto 2% error - 40 marks  
2.1 – 3.0% - 35 marks  
3.1 – 4.0 25 marks  
4.1 -5% 20 marks  
Above 5% 15 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Chemistry to students of Physics**

(Effective from the academic year 2019-2020)

**FUNDAMENTALS OF CHEMISTRY II**

**CODE:19CH/AC/FC43**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To learn various concentration terms and apply them for numerical calculations
- To comprehend the basics of electrochemistry
- To appreciate the importance of phase diagrams
- To gain fundamental knowledge of coordination complexes
- To learn the basics of thermoanalytical methods

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply numerical concepts related to mole concept and concentrations to practical exercises
- Prepare standard solutions based on stoichiometry of a chemical reaction
- Acquire introductory knowledge on Electrochemistry, Coordination Chemistry, Phase diagrams and Thermoanalytical methods
- Differentiate between Conductance, Conductivity, Molar Conductivity and Equivalent Conductivity
- Analyse TG curves of simple inorganic compounds

**Unit 1 (7 Hours)**

**Mole concept**

- 1.1 Definition of mole and applications of mole concept in stoichiometry
- 1.2 Equivalent weight – calculation of equivalent weight of oxidants and reductants in redox reactions, acids and bases, molecular volume
- 1.3 Concentration terms used to express strength of solutions- Normality, Molarity, Mole fraction and Molality, ppm and ppb

**Unit 2 (10 Hours)**

**Electrochemistry**

- 2.1 Definition of specific, equivalent & molar conductance, effect of dilution on Conductance
- 2.2 Ostwald dilution law, Kohlrausch's law –applications
- 2.3 Conductometric titration –principle and types
- 2.4 Electrochemical cells-definition, representation of cells and cell reactions, types of electrodes-standard hydrogen and calomel electrodes, Nernst equation-significance, standard electrode potential and its measurement, electrochemical series-applications
- 2.5 Commercial cells – Primary and Secondary cells, Fuel cells- Hydrogen-Oxygen, Batteries- Lead storage battery, Nickel-Cadmium battery

**Unit 3 (6 Hours)**

**Phase rule**

- 3.1 Definitions - Phase, component and degree of freedom, Derivation of phase rule.
- 3.2 Application of phase rule to one component systems (water and carbon dioxide)
- 3.3 Two component systems: simple eutectic (Pb-Ag) and (Bi-Cd)

**Unit 4 (8 Hours)**

**Coordination Chemistry**

- 4.1 Coordination complexes- definition, types of ligand, IUPAC nomenclature of simple mononuclear complexes
- 4.2 Isomerism- Structural- ionisation, linkage, ligand, coordination and hydrate isomerism. Stereoisomerism- geometrical and optical isomerism of four coordinated complexes.
- 4.3 Pauling theory (VBT)-geometry of complexes based on hybridization (coordination number 4 and 6) magnetic moment of complexes.
- 4.4 Biological coordination compounds- structural features (figurative representation only), functions of Haemoglobin and Vitamin B<sub>12</sub>

**Unit 5 (8 Hours)**

**Thermoanalytical Methods**

- 5.1 TGA and DTA- Principle, Instrumentation, methods of obtaining Thermograms, factors affecting TGA/DTA, Thermal analysis of silver nitrate, calcium oxalate and calcium acetate
- 5.2 DSC- Principle, Instrumentation and applications.

**BOOKS FOR STUDY**

Puri, B.R., L.R. Sharma., Madan S. Pathania. *Principles of Physical Chemistry*. New Delhi: Vishal, 2018.

Puri B.R, Sharma L.R & Kalia K.C. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2017.

Bahl, Arun, Bahl. B.S and Tuli, J.D, *Essentials of Physical Chemistry*, New Delhi, S.Chand & Co., 2018

Gopalan.R and Ramalingam.V Concise Coordination Chemistry, New Delhi, Vikas Publishing 2011

**BOOKS FOR REFERENCE**

Barrow, Gordon, M., *Physical Chemistry*, McGraw Hill & Co., 5<sup>th</sup> Ed., 2008.

Skoog, Douglas, West, Donald, Holler. James and Crouch, Stanley, *Fundamentals of Analytical Chemistry*, 9<sup>th</sup> Edition, Cengage Technology Edition, 2013

**WEBSITES**

[http://gibbs.uio.no/phase\\_rule.html](http://gibbs.uio.no/phase_rule.html)

<http://www.chem1.com/acad/webtext/elchem/ec2.html>

<http://chemed.chem.purdue.edu/genchem/topicreview/bp/ch22/rate.php>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $15 \times 1 = 15$  Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B –  $3 \times 5 = 15$  Marks (3 out of 5 to be answered)

Section C –  $2 \times 10 = 20$  Marks (2 out of 3 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving

MCQ/Model Preparation/Short Answer Tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $30 \times 1 = 30$  Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B –  $5 \times 6 = 30$  Marks (5 out of 7 to be answered)

Section C –  $2 \times 20 = 40$  Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Chemistry to students of Physics**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**GENERAL CHEMISTRY PRACTICAL**

**CODE:19CH/AC/P342**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL TEACHING HOURS:39**

**Unit 1**

**Phase Equilibria and Kinetics (Group Experiments)**

- 1.1 Kinetics Study of Acid Hydrolysis of an Ester
- 1.2 Determination of Molecular Weight by Rast Method

**Unit 2**

**Conductometry and Potentiometry (Group Experiments)**

- 2.1 Determination of Strength of Weak Acid Conductometrically
- 2.2 Determination of  $\text{Fe}^{2+}$  potentiometrically using Potassium Dichromate

**Unit 3**

**Volumetric Estimations**

- 3.1 Estimation of Oxalic Acid (Permanganimetry)
- 3.2 Estimation of Magnesium (Complexometry)
- 3.3 Estimation of Ferrous Ion (Permanganimetry)
- 3.4 Estimation of Glycine (Sorensen's method)

**BOOKS FOR STUDY**

Venkateswaran, V. R. Veeraswamy, and A. R. Kulandaivelu. *Basic Principles of Practical Chemistry*. New Delhi: Sultan Chand, 1993.  
Sundaram. S, P.Krishnan, and P.S. Raghavan. *Practical Chemistry*. Chennai: S.Viswanathan, 1993.  
Swaminathan Geetha and Mary George. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

**BOOK FOR REFERENCE**

Vogel, A.I. *A Text Book of Quantitative Inorganic Analysis Including Elementary Instrumental Analysis*. London: ELBS, 1989.  
Mendhan,J., *Vogel's Textbook of Quantitative Chemical Analysis*, Pearson 2009.



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 3 Hours**

Equations and short Procedure (10 minutes) 10 marks

Experiment

upto 2% error - 40 marks

2.1 – 3.0% - 35 marks

3.1 – 4.0 25 marks

4.1 -5% 20 marks

Above 5% 15 marks

### **End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Equations and short Procedure (10 minutes) 10 marks

Experiment

upto 2% error - 40 marks

2.1 – 3.0% - 35marks

3.1 – 4.0 25 marks

4.1 -5% 20 marks

Above 5% 15 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ORGANIC CHEMISTRY III**

**CODE:19CH/MC/OC54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the structure, synthesis and properties of heterocyclic compounds and their application as intermediates of industrial importance
- To enable students to identify the functional groups and study how reactions can be carried out chemoselectively.
- To provide a better understanding of the mechanisms involved in various rearrangements and organic syntheses
- To interpret the pattern of reactivity, mechanism and the ability to analyze the products of organic reactions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss and predict the reactivity of different heterocycles
- Classify carbohydrates and describe their reactivity by structural elucidation of simple monosaccharides
- Recognize organic molecules by their functional groups and identify the various agents that can be used to carry out reactions selectively and perform simple functional group transformations
- Identify the various types of molecular rearrangement reactions
- Interpret the pattern of reactivity, mechanism and predict the products of different organic reactions

**Unit 1 (12 Hours)**

**Heterocyclic Compounds**

- 1.1 Classification, Preparation of Furan, Pyrrole, Thiophene and Pyridine. Reactions - Electrophilic and Nucleophilic Substitutions, Oxidation and Reduction reactions.
- 1.2 Condensed Ring Systems- Indole, Quinoline, Isoquinoline - Comparison of Reactions. Preparation of Quinoline by Skraup's Synthesis and Isoquinoline by Bischler-Napieralsky Synthesis. Mechanism of Electrophilic and Nucleophilic substitutions, oxidation and reduction reactions. Relationship between Indole, Isatin and Indigo

**Unit 2 (15 Hours)**

**Carbohydrates**

- 2.1 Classification by various methods. Explanation of Diastereomer, Enantiomer,

- Anomer, Epimer, Building of Carbohydrates from D-Glyceraldehyde, D and L Sugars
- 2.2 Monosaccharides-  $\text{HIO}_4$  Oxidation, Mechanism of mutarotation, osazone formation. Haworth structure, structural elucidation of Glucose and Fructose, Determination of configuration and ring size. Interconversion of Glucose and Fructose. Ascending and Descending the Sugar Series
- 2.3 Disaccharides -Formation of Glycosidic Bond: Haworth's Structure of Sucrose, Maltose, Lactose. Difference between Maltose and Cellobiose. Polysaccharides- Structure and Reactions of Starch and Cellulose. Applications of Cellulose- acetate and xanthate

**Unit 3 (18 Hours)**

**Natural Products**

- 3.1 Occurrence and Extraction of Terpenoids, Carotenoids, Steroids and Alkaloids in nature
- 3.2 Alkaloids- Definition and Classification, General Properties, Determination of the chemical constitution of the alkaloids, functional group analysis, estimation of groups-  $\text{OH}$ ,  $\text{NH}_2$  and  $\text{OCH}_3$ , degradation and synthesis. Structural Elucidation of Piperine, Nicotine
- 3.3 Terpenoids- Classification, Isoprene Rule, General Properties, Structure Determination of the following Monoterpenoids – Citral,  $\alpha$ -Terpeneol and  $\alpha$ -Pinene

**Unit 4 (10 Hours)**

**Molecular Rearrangements**

- 4.1 Classification-Anionotropic, Cationotropic, Free Radical, Inter and Intramolecular rearrangements
- 4.2 Pinacol-Pinacolone, Beckmann, Hoffmann, Curtius, Lossen, Wolff and Benzilic acid rearrangements (mechanism, evidence for intermediate formation- migratory aptitude)
- 4.3 Claisen and Cope (Sigmatropic rearrangement). Fries rearrangement (- evidence for intramolecular nature and allylic carbon attachment)

**Unit 5 (10 Hours)**

**Functional Group interconversion and Designing Organic Synthesis**

- 5.1 Protection of Functional Groups – Need for and methods of protection of –  $\text{NH}_2$ ,  $\text{-OH}$ ,  $\text{>C=O}$ ,  $\text{>C=C}$  and  $\text{-COOH}$  Groups
- 5.2 Functional Group Modifications by Reduction, Oxidation, Addition, Elimination, Displacement and Addition – Elimination Processes

**BOOKS FOR STUDY**

Agarwal O. P. *Chemistry of Organic Natural Products Vol 1 and 2*. Goel Publishing house, 2002.

Sachin Kumar Gosh. *Advanced General Organic Chemistry (A Modern Approach) (Set I & II)*, 3<sup>rd</sup> Edition, New Central Book Agency, Kolkatta, 2010

Tewari, K.S. and Vishnoi, N. K. *A Text Book of Organic Chemistry*, 4<sup>th</sup> edition, Vikas Publishing 2017

**BOOKS FOR REFERENCE**

Michael B. Smith, Jerry March. *March's Advanced Organic Chemistry Reactions, Mechanisms, and Structure*. Wiley, 2007.

Morrison .R.T, Boyd R.N & Bhattacharjee.S.K. *Organic Chemistry*. Pearson, Dorling Kindersley, 2012.

Ahluwalia V K. *Organic Reaction Mechanisms*. New Delhi: Narosa Publishing House, 2011.

Gurdeep Chatwal. *Chemistry of Organic Natural Products* Vol 1 and 2, Goel Pub. House, 2002.

Finar I.L. *Organic Chemistry* Vol. I & II. London: ELBS, 2002.

Jonathan Clayden, Nick Greeves, Stuart Warren. *Organic Chemistry*. Oxford University, 2012.

Paula Y. Bruice. *Organic Chemistry*. Prentice Hall, 2010.

Reinhard Brückner. *Organic Mechanisms - Reactions, Stereochemistry and Synthesis*. Springer, 2010.

### WEB RESOURCES

<http://www.organic-chemistry.org/>  
<http://www.chemguide.co.uk/orgmenu.html>  
<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/intro1.htm>

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving/  
MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PHYSICAL CHEMISTRY II**

**CODE:19CH/MC/PC54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide basic concepts in physical chemistry including Fundamental Concepts of Thermodynamics, Heat, Work, Internal Energy, Enthalpy, and the First Law of Thermodynamics
- To impart the basic concepts of Thermodynamics and Thermochemistry
- To bring an understanding of the second law of Thermodynamics
- To provide an understanding of Gibbs phase rule and phase equilibria
- To understand the theory and technique of separation of miscible and immiscible liquids
- To enlighten the students on the theory of colligative properties

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Define the various terms involved in Thermodynamics
- Explain basic thermodynamic properties and units.
- Apply the second law of thermodynamics to thermal cycles
- Determine the enthalpy of formation from bond energies of molecules
- Apply the principle of phase equilibria to one and two component systems
- State how two liquids can be separated by various physical methods
- Appreciate the significance of colligative properties

**Unit 1**

**(15 Hours)**

**Introduction to Thermodynamics**

- 1.1 Types of Systems, Extensive and Intensive Properties, Different Forms of Energy. First Law – Statements, Internal Energy and Enthalpy, State and Path Functions and their characteristics
- 1.2 Isothermal and Adiabatic Changes for ideal gases - Work Done, Internal Energy Changes, Thermodynamics of Real Gases obeying van der Waal's Equation of State, Isothermal and Adiabatic Changes for Real Gases- Work Done, Internal Energy Changes, Difference between Heat Capacities at Constant Pressure and Volume of ideal and real gases
- 1.3 Joule- Thomson Effect, Inversion Temperature
- 1.4 Thermochemistry- Change in enthalpy of Chemical reaction, Endothermic and Exothermic reactions, Kirchoff's equation (Variation of enthalpy with temperature), Enthalpy of formation, Enthalpy of combustion and bond energy, resonance energy

**Unit 2 (15 Hours)**

**Second Law of Thermodynamics**

- 2.1 Need for Second Law, Different Forms of stating the Law, Carnot's Cycle and Carnot's Theorem, Thermodynamic Scale of Temperature
- 2.2 Concept of Entropy, S as a Function of T&P, P&V and T&V. Entropy Changes in a Phase change (Trouton's Rule), Entropy Change for Irreversible Processes (Clausius Inequality) Comparison of  $\Delta S$  for Reversible and Irreversible Processes, Criteria for Spontaneity of Process in Terms of  $\Delta S$ , Entropy of Mixing and Entropy as a Measure of Disorder, Third Law Statement
- 2.3 Helmholtz and Gibb's Energies, Maximum and Net Work done, Variation in A & G in Terms of P, V and T, Condition for Equilibrium and Spontaneity, Maxwell's Relations, Standard Free Energies, Gibbs-Helmholtz Equation and its Application in Chemistry
- 2.4 Chemical Equilibria: Law of Mass Action, Equilibrium Constant and Free Energy, Significance of K, Application of Law of Mass Action to Homogenous systems, Le Chatelier's Principle, van't Hoff Equation (Reaction Isochore) and van't Hoff's Reaction Isotherm.

**Unit 3 (12 Hours)**

**Introduction to Phase Equilibria**

- 3.1 Phase, Component, Degree of freedom, Gibbs Phase rule, Thermodynamic derivation of Phase rule, Phase diagram of One component system – water, sulphur and carbon dioxide, application of Clausius-Clapeyron Equation to phase systems
- 3.2 Measures of Concentration- Molality and Mole Fraction, Partial Molal Properties, Concept of Chemical Potential, Gibbs-Duhem Equation
- 3.3 Raoult's Law (with conditions for deviations) and Henry's Law, Real Solutions, Concept of Activity and Activity Coefficient

**Unit 4 (9 Hours)**

**Separation of Liquid Mixtures using Phase Equilibria**

- 4.1 Phase Diagrams of Binary liquids -Mixtures of Volatile Liquids (Fractional Distillation, Low and High Boiling Azeotrope), Lever Rule and fractional distillation
- 4.2 Distillation of immiscible liquids - Steam Distillation, Solubility of partially miscible liquids- Phase Diagram (Nitrobenzene & Hexane and Water & Triethylamine)
- 4.3 Nernst Distribution Law, Conditions, Derivation, Applications

**Unit 5 (14 Hours)**

**Phase Equilibria in Real Systems**

- 5.1 Two-component systems- Cooling curves, Simple eutectic system (Pb-Ag), Phase diagram of compound with congruent melting point ( $\text{FeCl}_3$  -water system)
- 5.2 Phase diagram of compounds with incongruent melting points (sodium sulphate water system) efflorescence, deliquescence
- 5.3 Colligative Properties – Depression in Freezing Point, Elevation in Boiling Point and Osmosis van't Hoff Factor, Abnormal Molar Mass, Degree of Dissociation and Association

## BOOKS FOR STUDY

Rajaram, J & Kuriakose, J. C. *Chemical Thermodynamics - Classical, Statistical and Irreversible Thermodynamics*. Pearson, 2013.

Peter Atkins & Julio de Paula, *Physical Chemistry* 10 th Ed., Oxford University Press 2016.

## BOOKS FOR REFERENCE

Puri, B.R., Sharma, L.R.& Pathania, M.S., *Principles of Physical Chemistry*, Vishal Publishing Co, Jalandar, Delhi, 2018

Bahl,A, Bahl,B.S.& Tuli, G.D., *Essentials of Physical Chemistry*, S.Chand, 2018

Donald Allan McQuarrie, John Douglas Simon. *Physical Chemistry: A Molecular Approach*. University Science Books, 2013.

Zundhal, S.S. *Chemistry concepts and applications* Cengage India 2011.

Ball, D. W. *Physical Chemistry* Cengage India 2012.

Mortimer, R. G. *Physical Chemistry* 3rd Ed., Elsevier: NOIDA, UP 2009.

Levine, I. N. *Physical Chemistry* 6th Ed., Tata McGraw-Hill 2011.

Metz, C. R. *Physical Chemistry* 2nd Ed., Tata McGraw-Hill 2009.

Klotz, I.M. *Introduction to Chemical Thermodynamics*. New York: W.A. Benjamin, 2000.

Rastogi, R.P. & R.R. Misra. *An Introduction to Chemical Thermodynamics*. New Delhi: Vikas, 1990.

Barrow, Gordon, M. *Physical Chemistry*. McGraw Hill, 2008.

Glasstone, Samuel, *Thermodynamics*, Tata McGraw-Hill, 2000

## WEB RESOURCES

<http://www.chem.uci.edu>

[http://serc.carleton.edu/research\\_education/equilibria/phaserule.html](http://serc.carleton.edu/research_education/equilibria/phaserule.html)

<http://www.chem1.com/acad/webtext/thermeq/>

<http://www.jce.acs.in>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving/MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
**10 to 15% of portion must be numerical**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BIOCHEMISTRY**

**CODE:19CH/MC/BC54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide knowledge on concepts of Biochemistry
- To enable an understanding of Biomolecules, metabolic pathways and bioenergetics
- To enable students to understand the chemistry involved in enzyme action

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the composition of blood
- Appreciate the significance of biomolecules
- Comprehend and explain the various metabolic processes in the human body
- Appreciate the features of enzymes
- Describe the mechanism of hormone action

**Unit 1 (10 Hours)**

**Introductory Biochemistry**

- 1.1 Molecular Logic of Living Organisms
- 1.2 Relationship of Biochemistry and Medicine
- 1.3 Blood - Composition of Blood, Blood Coagulation – Mechanism. Hemophilia and Sickle Cell Anaemia
- 1.4 Maintenance of pH of Blood – Bicarbonate Buffer, Acidosis, Alkalosis

**Unit 2 (18 Hours)**

**Structure of Biomolecules**

- 2.1 Amino Acids– Classification Based on R Groups and their Metabolism, Zwitter ions, isoelectric point, peptide bond formation, Chemical Reactions - with Mineral Acid, (HNO<sub>2</sub>) Formaldehyde, FDNB, and CO<sub>2</sub>, Ninhydrin Test, Action of Heat on  $\alpha$ ,  $\beta$  and  $\gamma$  - Amino acids
- 2.2 Proteins - Primary, Secondary, Tertiary and Quaternary Structures. Sequencing of Proteins -N Terminal and C Terminal Determination. Ramachandran Plot
- 2.3 Lipids– Classification of Lipids as Saponifiable and Non-Saponifiable, Definitions and Significance of Iodine Value, Acid Value, Saponification Value, RM Value and Acetyl Value
- 2.4 Nucleic Acids – Structure and Functions. Nucleosides, Nucleotides, Structure of DNA, RNA - Types and Differences. DNA Replication and Protein Synthesis
- 2.5 Genetic Engineering: Definition, overview of tools (type II restriction enzymes) and techniques (creating genetically modified organism through microinjection and agrobacterium mediated recombination), Applications



**Unit 3** **(15 Hours)**  
**Metabolism**

- 3.1 Carbohydrate Metabolism - Glycolysis, TCA Cycle, Glycogenesis, Glycogenolysis, Gluconeogenesis, Oxidative Phosphorylation, Electron Transport Chain
- 3.2 Proteins - Transamination, Oxidative Deamination and Urea Cycle. Inborn Errors of Amino Acid Catabolism – Albinism, Alkaptonuria and Phenyl Ketonuria
- 3.3 Amino Acids: Synthesis - Gabriel's Synthesis, Strecker's Synthesis. Preparation of Tryptophan from Indole
- 3.4 Lipids - Oxidation of Fatty Acids, Biosynthesis of Fatty Acids, Ketone Bodies

**Unit 4** **(14 Hours)**  
**Enzymes**

- 4.1 Definition of Enzymes and Coenzymes (TPP, NAD, NADP, FAD, ATP) Cofactors-Prosthetic Group of Enzymes
- 4.2 Classification of Enzymes (with Examples)
- 4.3 Enzyme Specificity - Factors affecting Enzyme Action
- 4.4 General Mechanism of Enzyme Catalysis - Michaelis - Menten Theory – Fischer's Lock and Key Model, Koshland's Induced Fit Model
- 4.5 Mechanism of Inhibition (Competitive, Non-Competitive, Allosteric)
- 4.6 Structure and Function of Carboxypeptidase A

**Unit 5** **(8 Hours)**  
**Vitamins and Hormones**

- 5.1 Vitamins: Definition, Classification (as water and fat soluble), sources, structure and functions of Vitamins A and C
- 5.2 Definition, Classification of Hormones (Steroid and Non-Steroid Only) Source and Functions of Insulin, Thyroxin and Sex Hormones, Mechanism of Hormone Action

**BOOKS FOR STUDY**

Jain J.L. *Fundamentals of Biochemistry*. New Delhi: S. Chand, 2001.  
Doraiswamy Yesodha, Swaminathan Geetha and V. Radhakrishnan. *Allied Biochemistry*. Chennai: Margham, 2002.

**BOOKS FOR REFERENCE**

Berry, A.K. *Textbook of Biochemistry*. Emkay, 2001.  
Lehninger A.L. *Principles of Biochemistry*. New Delhi: CBS Publishers, 2006.  
Satyanarayana, U, U. Chakrapani. *Biochemistry*. Delhi: New Central Book Agency, 2006.  
Stryer Lubert. *Biochemistry*. New York: W.H. Freeman, 2007.

**WEB RESOURCES**

<https://www.rpi.edu/dept/bcbp/molbiochem/MBWeb/mb1/part2/bioener.htm>  
<http://www.rsc.org/Education/Teachers/Resources/cfb/enzymes.htm>  
<http://www.rsc.org/Education/Teachers/Resources/cfb/carbohydrates.htm>  
<http://www.hsph.harvard.edu/nutritionsource/what-should-you-eat/protein/>  
<http://e.hormone.tulane.edu/learning/types-of-hormones.html>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the  
Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving/  
MCQ/Model Preparation/Short Answer Tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the  
Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**BIOCHEMISTRY PRACTICAL**

**CODE:19CH/MC/P551**

**CREDITS:1**

**L T P:0 0 2**

**TOTAL TEACHING HOURS:26**

**Unit 1**

**Estimation of**

- 1.1 Glycine by Sorensen's formalin method
- 1.2 Glucose by Benedicts method
- 1.3 Ascorbic acid by Dye method
- 1.4 Protein by Biuret method
- 1.5 Catalase activity
- 1.6 Vitamin A by colorimetry
- 1.7 DNA/RNA (Spectrophotometry)

**Unit 2**

**Chromatography (Demonstration only)**

- 2.1 Separation of amino acids by paper chromatography
- 2.2 Separation of o-and p-nitrophenol by thin layer chromatography (TLC)/column chromatography

**BOOKS FOR STUDY**

Vogel, A.I. *Quantitative Organic Analysis*, Part 3, Pearson Education (2012).  
Mann, F.G. & Saunders, B.C. *Practical Organic Chemistry*, Pearson Education (2009)

**BOOKS FOR REFERENCE**

Furniss, B.S.; Hannaford, A.J.; Smith, P.W.G.; Tatchell, A.R. *Practical Organic Chemistry, 5th Ed.*, Pearson Education (2012)  
Ahluwalia, V.K. & Aggarwal, R. *Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis*, University Press (2000).  
Ahluwalia, V.K. & Dhingra, S. *Comprehensive Practical Organic Chemistry: Qualitative Analysis*, University Press (2000)  
Vogel, A.I., Tatchell, A.R., Furnis, B.S. Hannaford, A.J. & Smith, P.W.G., Textbook of Practical Organic Chemistry, Prentice-Hall, 5th edition, 1996.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 3 Hours**

Equations and short Procedure (10 minutes) 10 marks

Experiment

upto 2% error

40 marks

2.1 – 3.0%

35 marks

3.1 – 4.0

25 marks

4.1 -5%

15 marks

Above 5%

10Marks

### **End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Equations and short Procedure (10 minutes) 10 marks

Experiment

upto 2% error

40 marks

2.1 – 3.0%

35 marks

3.1 – 4.0

25 marks

4.1 -5%

15 marks

Above 5%

10Marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PHYSICAL CHEMISTRY PRACTICAL I**

**CODE:19CH/MC/P652**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL TEACHING HOURS:39**

**Unit 1**

**Thermometry**

Determination of enthalpy of neutralization of strong acid by strong base

**Unit 2**

**Phase Equilibria**

2.1 Determination of Molecular Weight by Rast Method

2.2 Construction of the Phase Diagram of Phenol - Water system and determination of Critical Solution Temperature (CST), Critical Solution Composition (CSC) and the composition of the given mixture

**Unit 3**

**Chemical Kinetics**

Determination of Rate Constant of Acid Catalyzed hydrolysis of ester

**Unit 4**

**Adsorption Isotherm**

Verification of the Freundlich isotherm for the adsorption of acetic acid on activated charcoal

**Unit 5**

**Conductometry, pH and Potentiometry**

5.1 Verification of Ostwald's dilution law

5.2 Verification of Hendersons' Equation

5.3 Determination of  $\text{Fe}^{2+}$  in the given sample potentiometrically using potassium dichromate

5.4 Determination of strength of the given acid using quinhydrone potentiometrically

**Theory and principles behind the experiments concerned to be tested periodically and along with the CA tests for a maximum of five marks.**

**BOOKS FOR STUDY**

Viswanathan, B. and Raghavan, P.S., *Practical Physical Chemistry*, New Delhi, Viva Books 2005.

Venkateswaran, V. R. Veeraswamy, and A. R. Kulandaivelu. *Basic Principles of Practical Chemistry*. New Delhi: Sultan Chand, 1993.

### **BOOKS FOR REFERENCE**

Vogel, A.I., *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, Science, 2000.

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 3 Hours**

Two- Three questions on Principles involved in Physical Chemistry Experiments	5 marks
Procedure and experimental principles	5 marks
Tabulation, calculation and graph	15 marks
Experimental Result	25 marks

**End-Semester Examination:**                      **Total Marks: 50**                      **Duration: 3 hours**

Two- Three questions on Principles involved in Physical Chemistry Experiments	5 marks
Procedure and experimental principles	5 marks
Tabulation, calculation and graph	15 marks
Experimental Result	25 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086.**

**Interdisciplinary Core Course Offered by the Departments of Chemistry and Botany to  
B.Sc. Chemistry and B.Sc. Plant Biology and Plant Biotechnology Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BIOANALYTICAL TECHNIQUES**

**CODE:19ID/IC/BA55**

**CREDITS:5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of extraction and separation techniques
- To use spectroscopic techniques to understand the structure of phytochemicals
- To understand cell size and morphology using microscopy
- To understand the basic principles of various instrumentation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Extract and separate phytochemicals using separation techniques
- Isolate biomolecules using centrifugation and gel electrophoresis
- Characterize and analyse the extracted product
- Examine and check the purity of a sample
- Separate a substance based on its solubility
- Estimate the metal ions by spectrophotometry and Flame photometry
- Assess water quality using turbidimetry.

**Unit 1 (16 Hours)**

**Microscopy: Principle, Construction and Application**

- 1.1 Light microscopes – Compound, Phase Contrast, Differential Interference Contrast and Confocal Microscopes.
- 1.2 Preparation of Specimen for Light Microscopy – Paraffin Techniques – Fixatives: FAA, Carnoy's, Dehydration and Infiltration, Embedding and Sectioning (Paraffin Blocks), Staining and Mounting.
- 1.3 Electron Microscopes – TEM, specimen preparation for TEM.

**Unit 2 (15 Hours)**

**Centrifugation: Principle, Instrumentation and Application**

- 2.1 Bench, Ultracentrifuge, Refrigerated, Continuous flow centrifuge and Microfuge.
- 2.2 Density gradient and differential centrifugation
- 2.3 Isolation of Chloroplast (practical)

**Unit 3 (16 Hours)**

**Separation Techniques**

- 3.1 Separation by solvent extraction: Principle, Extraction by chemically active solvents, Soxhlet extraction, Factors Influencing the Extraction Efficiency.
- 3.2 Capillary Electrophoresis (Capillary Zone and Capillary Gel), Gel Electrophoresis – Agarose and Polyacrylamide, Orthogonal-Field-Alternation, Gel Electrophoresis (OFAGE), Field Inversion Gel Electrophoresis (FIGE), Immunoelectrophoresis.
- 3.3 Separation of Proteins/ DNA using Gel Electrophoresis (Practical)
- 3.4 Separation by Precipitation, methods of Filtering, Drying- Ignition & Incineration of Precipitate, Nucleation, Crystal Growth, Solubility Product, Principle, Factors affecting Solubility, Purity of Precipitates, Co-precipitation and Post Precipitation

**Unit 4 (14 Hours)**

**Purification techniques**

- 4.1 Desiccants: Types, efficiency, regeneration and choice of desiccants
- 4.2 Technique of drying of solids, Distillation: Types, Theory and techniques of fractional, Steam and Vacuum distillation
- 4.3 Recrystallisation, Sublimation - Types, techniques and applications
- 4.4 Criteria and test for purity- melting point, boiling point and density

**Unit 5 (17 Hours)**

**Spectroscopic Techniques and Spectrochemical Methods**

- 5.1 Introduction to Spectroscopy, Beer-Lambert's law-statement and deviation; UV-Visible-instrumentation and applications-estimation of  $Mn^{2+}$
- 5.2 Nephelometry and Turbidimetry Principle, Instrumentation and Applications-determination of TDS of water sample
- 5.3 Principle, Instrumentation and Applications of Atomic absorption Spectroscopy (estimation of Ca), Flame photometry (estimation of K/Na) and Fluorimetry (estimation of Fluorescein)

**BOOKS FOR STUDY**

Gopalan, R, Subramanian, P.S and Rengarajan, K. *Elements of Analytical Chemistry*. New Delhi: Sultan Chand, 2004.  
Skoog, D.A, West, D.M. *Fundamentals of Analytical Chemistry*. Thomson Asia, 2014.  
Steven, E Ruzin, *Plant Microtechnique and Microscopy*, USA: Oxford University, 1999.  
Jensen, W.A. *Botanical Histochemistry*. New Delhi: TataGraw – Hill, 1962.  
Vogel, A.I. *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, Science, 2000.

**BOOKS FOR REFERENCE**

Beckman Coulter, Daniel, C Liebler. *Introduction to Proteomics: Tools for new biology*, Human, 2002.  
Day R.A.Jr. & A.L. Underwood. *Quantitative Analysis*. New Delhi: Prentice Hall of India, 1993.  
Herb Schwartz and Andras Guttman. *Separation of DNA by Capillary Electrophoresis*, USA



James P. Landers, *Handbook of Capillary and Microchip Electrophoresis and Associated Microtechniques*, USA: CRC, 2008.

Karp Gerald. *Cell and Molecular Biology: Concepts and Experiments*. USA: Wiley, 2013.

Landers, James P. *Handbook of Capillary Electrophoresis*. USA: CRC, 1996.

Mendhan, J., *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson 2009.

Skoog, Douglas A, James F. Holler & Timothy A. Nieman. *Principles of Instrumental Analysis*. Singapore: Haracourt Asia, 2001.

Srivastava, T.N & P.C.Kamboj. *Systematic Analytical Chemistry*. New Delhi: Shobanlal Nagin Chand, 1999.

Usharani, S. *Analytical Chemistry*. New Delhi: Macmillan, 2006.

## WEB RESOURCES

<https://www.britannica.com/science/separation-and-purification>

<http://www.britannica.com/EBchecked/topic/108875/separation-and-purification>

<http://www.chemistry.co.nz/stoichiometry.htm>

## PATTERN OF ASSESSMENT

### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

### Other Components:

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving

MCQ/Model Preparation/Short Answer Tests

### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INORGANIC CHEMISTRY II**

**CODE:19CH/MC/IC64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the importance of transition metal ions in biological systems
- To enable a comprehensive understanding of the theories of bonding in coordination compounds.
- To apply the acquired knowledge of coordination chemistry in solving problems related to electronic and magnetic properties of transition metal complexes
- To enable students to understand the structure and bonding of organometallic compounds
- To give an insight on inner transition elements

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the role played by transition metal complexes in Inorganic Chemistry.
- Explain the theories of bonding, structure, electronic and magnetic properties of coordination compounds and their kinetics.
- Appreciate the importance of coordination compounds in qualitative and quantitative analysis
- Recognize and explain the role of metal ions in living systems and their significance in diagnosis and medicinal therapy
- Appreciate the chemistry of Lanthanides and Actinides series in the periodic table

**Unit 1**

**(10 Hours)**

**Transition Elements**

- 1.1 General group trends with special reference to electronic configuration, colour, variable valency, magnetic and catalytic properties, ability to form complexes. Stability of various oxidation states and EMF (Latimer & Ebsworth diagrams) Difference between the first, second and third transition series
- 1.2 Ti, V, Cr, Mn Groups, Fe, Co, Ni Groups - A Comparative Study with respect to Oxidation States, Oxides and Complexes
- 1.3 Biological Importance of Transition Metals-Biological Roles of Mo, Fe, Co, Cu, Zn (Metal Containing Proteins, Vitamins and Enzymes and their Biological Roles)

**Unit 2 (18 Hours)**

**Chemistry of Coordination Compounds**

- 2.1 Introduction – Ligands- Monodentate, Bidentate and Polydentate Ligands, Coordination Sphere, Coordination Number, Chelate Effect, Nomenclature of Coordination Compounds
- 2.2 Isomerism – Linkage, Ionization, Hydrate, Coordination, Coordination Position Isomerism, Geometrical and Optical Isomerism of 4 and 6 – Coordinate Complexes

**Unit 3 (18 Hours)**

**Theories and Applications of Coordination Compounds**

- 3.1 Sidgwick's Effective Atomic Number Rule (EAN), 18 Electron Rule, Valence Bond Theory (VBT), Hybridization, Geometry and Magnetic Properties of Coordination Compounds, Drawbacks of VBT
- 3.2 Crystal Field Theory - Crystal Field Splitting in Octahedral, Tetrahedral and Square Planar Complexes, Crystal Field Stabilization Energy, Spectrochemical Series, Low and High Spin Complexes, factors influencing the magnitude of Crystal Field Splitting, Jahn Teller Effect
- 3.3 Applications of Coordination Compounds in Qualitative and Quantitative Analyses Potassium Ferrocyanide, Potassium Ferricyanide, Alizarin, Ferroin, DMG, Oxine, Cupferron and EDTA

**Unit 4 (9 Hours)**

**Inner Transition Elements**

- 4.1 Lanthanides – Lanthanide Series, their position in the Periodic Table, Properties of Lanthanides with respect to electronic configuration, oxidation states, colour, spectral and magnetic properties
- 4.2 Lanthanide Contraction and its consequences
- 4.3 Isolation of Lanthanides - Ion Exchange Chromatography
- 4.4 Actinides – Actinide Series, Position in the Periodic Table, Properties of Actinides with respect to electronic configuration, oxidation states, colour, spectral and magnetic properties. Actinide Contraction and its Consequences. Comparison between Lanthanides and Actinides
- 4.5 Extraction of Thorium from Monazite and Uranium from Pitch Blende

**Unit 5 (10 Hours)**

**Organometallic Compounds**

- 5.1 Metal Carbonyls - Preparation, Properties and Structures of Ni and Fe Carbonyls
- 5.2 Preparation and Structures of Metal Alkyls and Aryls of Li, Al and Ti. Structure of Metal Alkene Complexes –Ziese's salt
- 5.3 Ferrocene - Preparation and reactions (acetylation, alkylation, metallation, Mannich Condensation), Structure and Aromaticity - Comparison of aromaticity and reactivity with that of benzene (No MO treatment)

**BOOKS FOR STUDY**

Gopalan R, V. Ramalingam. *Concise Coordination Chemistry*. New Delhi: Vikas, 2001.

Lee J.D. *Concise Inorganic Chemistry*. London: ELBS, 2008.

Puri. B.R., L.R. Sharma., & C.I. Kalia *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2008.

## BOOKS FOR REFERENCE

Atkins, P.W., Fraser Armstrong, Jonathan Rourke, Mark Weller & Tina Overton. *Inorganic Chemistry*. Oxford Press, 2010

Cotton, F.A., and G. Wilkinson. *Advanced Inorganic Chemistry*. New Delhi: Wiley Eastern, 2008.

James, E., Huheey & Ellen A. Keiter. *Principles of Structure and Reactivity*. Pearson, India, 2011.

Purcell, K.F and J.C Kotz., *Inorganic Chemistry* W.B. Saunders, 1977.

Lippard, S.J. and J.M. Berg, *Principles of Bioinorganic Chemistry* Panima 1994.

Basolo, F, and R.C Pearson, *Mechanisms of Inorganic Chemistry*, New York: John Wiley, 1967.

Greenwood, N.N. and A. Earnshaw., *Chemistry of the Elements*, Butterworth- Heinemann, 1997

Miessler, G. L. & Donald, A. Tarr, *Inorganic Chemistry 4th Ed.*, Pearson, 2010.

Crabtree, Robert H. *The Organometallic Chemistry of the Transition Metals*. j New York, NY: John Wiley, 2000

Huheey, J. E.; Keiter, E.A. & Keiter, R.L. *Inorganic Chemistry, Principles of Structure and Reactivity 4th Ed.*, Harper Collins 1993, Pearson, 2006.

Spessard, Gary O., & Gary L. Miessler. *Organometallic Chemistry*. Upper Saddle River, NJ: Prentice-Hall, 1996

Sharpe, A.G. *Inorganic Chemistry*, 4th Indian Reprint (Pearson Education) 2005

## WEB RESOURCES

<http://www.chem1.com/acad/webtext/chembond/cb09.html>

<http://www.britannica.com/EBchecked/topic/602775/transition-element/81116/Biological-functions-of-transition-metals>

<https://www2.chemistry.msu.edu/faculty/reusch/virttxtjml/orgmetal.htm>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving  
MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-20)

**PHYSICAL CHEMISTRY III**

**CODE:19CH/MC/PC64**

**CREDITS:4**

**L T P :4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To develop an understanding of the key concepts of Electrochemistry
- To impart knowledge on various types of cells and their significance
- To give complete understanding of rate of a chemical reaction
- To give an insight into adsorption and catalysis
- To impart skills to solve numerical problems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the key concepts involved in Electrochemistry
- Describe the operations of different types of electrochemical cells and electrodes
- Appreciate the importance of Kinetics in chemical reactions
- Develop an interest in Surface Chemistry and Catalysis
- Solve numerical problems

**Unit 1 (10 Hours)**

**Electrochemistry I**

- 1.1 Migration of Ions, Conductivity, Ostwald's Dilution Law, Variation of Conductance with Dilution, Types of Conductometric titration, Kohlrausch's Law, Ionic Mobility, Transport Number and Ionic Conductance
- 1.2 Transport Number - Determination by Hittorf's and Moving Boundary Methods,
- 1.3 Debye Hückel Theory of Strong Electrolytes, Debye-Falkenhagen effect, Wien effect
- 1.4 Activity Coefficient, Mean Activity Coefficient and Ionic Strength

**Unit 2 (15 Hours)**

**Electrochemistry II**

- 2.1 Concept of Electrochemical Cell, Galvanic Cell, Reversible and Irreversible Cells, Half Cells, Electrode and Cell Reactions, Nernst Single Electrode Potential, Cell Representation, Terminology and Conventions
- 2.2 Reversible Electrodes, Standard Hydrogen Electrode, Calomel Electrode, and Equation of EMF of Cells- Standard Electrode Potentials, Sign Convention, Electrochemical Series, Significance, Applications. Weston Cadmium Cell, EMF – Measurement Poggendorff's Compensation Method, Redox Potential
- 2.3 Applications of EMF Measurements: Application of Gibbs - Helmholtz Equation in the Calculation of  $\Delta G$ ,  $\Delta H$ ,  $\Delta S$ , Temperature Coefficient of EMF of Galvanic

- Cells, Equilibrium Constant, Determination of pH using Glass, Hydrogen and Quinhydrone Electrodes, Potentiometric Titration
- 2.4 Types of Reversible Cells, Concentration Cells with and without Transference. Liquid Junction Potential (cell reversible with respect to cations and anions) Derivation - Significance of Salt Bridge

**Unit 3 (16 Hours)**

**Chemical Kinetics**

- 3.1 The Rate Equation, Order and Molecularity of Reactions with Examples, Derivation of Rate Constants for Zero, First, Second (Equimolar and Non-Equimolar Reactant Concentrations) and  $n^{\text{th}}$  Order Reactions, Characteristics of Fractional Order Reactions, Half Life Time, Methods of Determination of Order of Reaction
- 3.2 Collisions and Encounters, Effect of Temperature on Reaction Rate, Concept of Activation Energy, Energy Barrier, Effect of Catalyst, Arrhenius Equation, Calculation of Arrhenius Parameters
- 3.3 Theories of Reaction Rates, Collision Theory of Bimolecular Reactions, Limitations of Collision Theory, Activated Complex Theory of Bimolecular Reactions, Transition State Theory –Thermodynamic Derivation of Rate Constant for TS, Eyring's Equation (No Derivation), Significance of  $\Delta H^*$ ,  $\Delta G^*$  &  $\Delta S$
- 3.4 Photochemical Rate Law, Kinetics of Hydrogen-Chlorine, Jablonski diagram - Laws of photochemistry- Quantum Efficiency

**Unit 4 (12 Hours)**

**Catalysis**

- 4.1 Catalytic Reactions-Characteristics, Homogenous Catalysis- Acid-Base Catalysis, Kinetics of catalysis
- 4.2 Enzyme Catalysis- Michaelis – Menton Mechanism, Effect of Temperature, pH and substrate concentration on catalysis
- 4.3 Heterogenous Catalysis- Kinetics of Surface Reactions, Unimolecular and Bimolecular Surface Reactions, Effect of pH on Catalysed Reactions

**Unit 5 (12 Hours)**

**Colloids and Surface Chemistry**

- 5.1 Colloidal systems- classification, preparation and properties of colloids
- 5.2 Adsorption - Physisorption and Chemisorption- Types of Adsorption Isotherms, factors affecting adsorption
- 5.3 Freundlich Adsorption Isotherm -Limitations. Derivation of Langmuir Adsorption Isotherm; BET Adsorption Isotherm - Postulates and Equation. Determination of Surface Area

**BOOKS FOR STUDY**

Atkins, P.W. *Elements of Physical Chemistry*. Oxford University, 2013.

Bajpai.S. *Physical Chemistry*. New Delhi: Shobanlal Nagin Chand, 2006.

Puri, B.R., Sharma, L.R.& Pathania, M.S., *Principles of Physical Chemistry*, Vishal Publishing Co, Jalandar, Delhi, 2018

**BOOKS FOR REFERENCE**

Donald Allan McQuarrie, John Douglas Simon. *Physical Chemistry. A Molecular Approach*. University Science Books, 2013.  
Moore, W.J. *Physical Chemistry*. Orient Longman, 2004.  
Samuel H. Maron & Jerome B. Lando. *Fundamentals of Physical Chemistry*. New York: Macmillan, 2004.  
Bahl, A., Bahl, B.S. & Tuli, G.D., *Essentials of Physical Chemistry*, S. Chand 2018  
Engel, T. & Reid, P. *Physical Chemistry* 3rd Ed., Prentice-Hall 2012.  
Rogers, D. W. *Concise Physical Chemistry* Wiley 2010.  
J. C. Kotz, P. M. Treichel, J. R. Townsend, *General Chemistry*, Cengage Learning India Pvt. Ltd.: New Delhi 2009  
Adamson Arthur W, Alice P. G. *Physical Chemistry of Surfaces*. India: Pearson, 2007.

## WEB RESOURCES

<http://bouman.chem.georgetown.edu/S02/lect25/lect25.htm>  
<http://www.tau.ac.il/~advanal/Polarography.htm>  
<http://www.chm.davidson.edu/vce/Kinetics/ReactionRates.html>  
<http://www.chem1.com/acad/webtext/elchem/ec2.html>  
<http://www.wwnorton.com/college/chemistry/chemistry3/ch/15/chemtours.aspx>  
<http://www.jce.acs.in>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving  
MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
**10 to 15% of portion must be numerical**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE : BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**SPECTROSCOPY**

**CODE:19CH/MC/SP64**

**CREDITS: 4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To bring about an understanding of the basics of spectroscopy and its approach in characterization of compounds
- To give an overview of the various spectroscopic instrumentation techniques
- To interpret the spectra of molecules and predict the structures of compounds

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the various regions of the Electromagnetic Spectrum
- Understand the interaction of electromagnetic radiation with matter
- Analyse and interpret data collected by different spectroscopic methods.
- Solve problems related to the structure, purity and concentration of chemicals
- Identify molecular interactions by choosing suitable spectroscopic methods and interpret corresponding data.

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Electromagnetic Spectrum
- 1.2 Microwave Spectroscopy: Rotational Transitions, Theory of Rotational Spectroscopy, Rotation of Homonuclear and Heteronuclear Diatomic Molecules, Selection Rule, Forbidden Transitions, Instrumentation
- 1.3 Calculation of Moment of Inertia and Reduced Mass

**Unit 2 (15 Hours)**

**Vibrational Transitions: FTIR and Raman Spectroscopy**

- 2.1 Principle, Instrumentation, Modes of Vibration, Conditions of Sensitivity to IR
- 2.2 Characteristic Frequencies of Functional Groups and Aromatic Compounds
- 2.3 IR Pattern of Simple Organic Compounds
- 2.4 Theory of Raman Spectroscopy, Instrumentation, Comparison with IR, Mutual Exclusion Principle

**Unit 3 (15 Hours)**

**Electronic Transitions: UV Visible Spectroscopy**

- 3.1 Theory of Electronic Spectroscopy, Instrumentation, Laws of Light Absorption-Beer-Lambert's Law, Definitions of chromophore, auxochrome, bathochromic and hypsochromic shifts. Franck Condon Principle, Block Diagram of Double



- Beam Spectrophotometer
- 3.2 Factors Affecting UV Absorption, Solvents, Parameters of UV Plot
- 3.3 Woodward - Fieser Rules as Applied to Aliphatic Dienes and  $\alpha,\beta$ -Unsaturated Aldehydes and Ketones
- 3.4 UV Spectra of Simple Organic Compounds -Toluene and Cresol

**Unit 4 (15 Hours)**

**Nuclear Magnetic Resonance Spectroscopy**

- 4.1 Theory of NMR Absorption- Magnetic Properties of Nuclei (Magnetic Moment, g Factor) and Theory of Nuclear Resonance. Larmor Precession Frequency, Resonance Condition and Relaxation Processes
- 4.2 Standards Employed in NMR, Factors Affecting Chemical Shift – Electronegativity, Hybridization, Shielding and Deshielding, van der Waals Deshielding, H-Bonding, Diamagnetic and Paramagnetic Anisotropy
- 4.3 Spin-Spin Coupling, (n+1) Rule and its Origin, Pascal's Diagram, Chemical Shift Values
- 4.4 Instrumentation and Sample Handling. Factors Influencing Spin Coupling Constants, Vicinal and Geminal Coupling.
- 4.5  $^{13}\text{C}$  NMR Spectra, Spin Decoupling Techniques – Advantages
- 4.6 NMR Spectra of Simple Organic Compounds –  $\text{CH}_3\text{Cl}$ ,  $\text{CH}_3\text{CH}_2\text{OH}$ ,  $\text{C}_6\text{H}_5\text{CH}_3$ ,  $\text{CH}_3\text{CHO}$  and  $\text{CH}_3\text{COOH}$

**Unit 5 (10 Hours)**

**Mass Spectrometry**

- 5.1 Theory and Rules of Fragmentation, Molecular Ion, Base Peak, Nitrogen Rule, Isotope Peaks and Metastable Peaks, Instrumentation
- 5.2 McLafferty Rearrangement, Retro Diel's Alder Rearrangement
- 5.3 Fragmentation Patterns of Various Functional Groups in Simple Organic Compounds

**Visit to R&D labs**

**BOOKS FOR STUDY**

Banwell, C.N. *Fundamentals in Molecular Spectroscopy*. Tata McGraw Hill, 2007.

Pavia D. L, Lampman G.M., Kriz G. S. *Spectroscopy*. Pearson, 2010.

Sharma, Y.R., *Elementary Organic Spectroscopy Principles and Chemical Applications*, New Delhi: S.Chand, 2013

**BOOKS FOR REFERENCE**

Dudley H Williams and Ian Fleming. *Spectroscopic Methods in Organic Chemistry*. Tata McGraw-Hill, 2005.

Kemp W. *Organic Spectroscopy*. India Macmillan, 2007.

Sathyanarayana, D.N. *Vibrational spectroscopy*. New Age International Publishers, 2007.

Silverstein, Morrill Bassler. *Spectrometric Identification of Organic Compounds*. India: John Wiley, 2008.

Jag Mohan, *Organic Spectroscopy: Principles & Applications*, Narosa, 2009

**WEB RESOURCES**

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/Spectrpy/nmr/nmr1.htm>

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/Spectrpy/InfraRed/infrared.htm>

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/Spectrpy/UV-Vis/spectrum.htm>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving/MCQ  
Model Preparation/Short Answer Tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ORGANIC CHEMISTRY PRACTICAL II**

**CODE:19CH/MC/P761**

**CREDITS:1**

**L T P:0 0 2**

**TOTAL TEACHING HOURS:26**

**Unit 1**

**Organic Preparations**

- 1.1 Acetylation of Aniline
- 1.2 Benzoylation of amines/phenols
- 1.3 Preparation of glucosazone
- 1.4 Hydrolysis of ester
- 1.5 Oxidation of benzaldehyde
- 1.6 Preparation of methyl orange
- 1.7 Nitration of nitrobenzene to m-dinitrobenzene

Mechanism of various reactions involved to be discussed.  
Recrystallisation and calculation of quantitative yield to be done

**Unit 2**

**Purification of organic compounds**

- 2.1 Crystallisation (from water and alcohol)
- 2.2 Distillation
- 2.3 Determination of melting and boiling points

**Unit 3**

**Spectral analysis of simple organic compounds (To be tested internally)**

Identification of functional groups using UV-visible and IR spectral techniques (Spectra to be provided).

**BOOKS FOR STUDY**

Vogel, A.I. *Quantitative Organic Analysis*, Part 3, Pearson Education (2012).  
Swaminathan Geetha and Mary George. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

## BOOKS FOR REFERENCE

Mann, F.G. & Saunders, B.C. *Practical Organic Chemistry*, Pearson Education (2009)

Furniss, B.S.; Hannaford, A.J.; Smith, P.W.G.; Tatchell, A.R. *Practical Organic Chemistry, 5th Ed.*, Pearson Education (2012)

Ahluwalia, V.K. & Aggarwal, R. *Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis*, University Press (2000).

Ahluwalia, V.K. & Dhingra, S. *Comprehensive Practical Organic Chemistry: Qualitative Analysis*, University Press (2000)

Vogel, A.I., Tatchell, A.R., Furnis, B.S. Hannaford, A.J. & Smith, P.W.G., *Textbook of Practical Organic Chemistry*, Prentice-Hall, 5th edition, 1996.

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 3 Hours**

**Procedure with equations: 10 marks**

**Practical work    40 marks**

Experimental (colour, texture and yield)

Crude - 30 marks

Recrystallised – 10 marks

**End-Semester Examination:                      Total Marks: 50                      Duration: 3 hours**

**Procedure with equations: 10 marks**

**Practical work    40 marks**

Experimental (colour, texture and yield)

Crude - 30 marks

Recrystallised – 10 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PHYSICAL CHEMISTRY PRACTICAL II**

**CODE:19CH/MC/P862**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL TEACHING HOURS: 39**

**Unit 1**

**Distribution Law**

- 1.1 Distribution Coefficient of  $I_2$  between  $CCl_4$  &  $H_2O$  and determination of equilibrium constant of the reaction,  $I_2 + I^- \rightleftharpoons I_3^-$
- 1.2 To determine the concentration of the given KI in the equilibrium  $I_2 + I^- \rightleftharpoons I_3^-$  by partition coefficient method

**Unit 2**

**Chemical Kinetics**

To study the kinetics of iodide – persulphate reaction (equal concentration) and determine the rate constant of the reaction

**Unit 3**

**Phase Equilibria**

- 3.1 To study the effect of added impurity (NaCl / Succinic Acid) on UCST and determine percentage composition
- 3.2 Determination of eutectic composition and eutectic temperature of biphenyl & naphthalene

**Unit 4**

**Conductometry**

Conductometric Acid-Base Titration (Strong Acid vs Strong Base, Weak Acid vs Strong Base / Mixture of Weak & Strong Acid vs Strong Base)

**Unit 5**

**Spectrophotometry and Flame Photometry**

- 5.1 Spectrophotometric estimation of copper ions using EDTA
- 5.2 Determination of *Na/K ions* using Flame Photometer

Note : Theory and principles behind the experiments concerned to be tested periodically and along with the CA tests for a maximum of five marks.

**BOOKS FOR STUDY**

Venkateswaran, V. R. Veeraswamy, and A. R. Kulandaivelu. *Basic Principles of Practical Chemistry*. New Delhi: Sultan Chand, 1993.

## BOOKS FOR REFERENCE

Viswanathan, B and Raghavan, P.S. *Practical Physical Chemistry*. New Delhi: Viva Books, 2005.

## PATTERN OF ASSESSMENT

### Continuous Assessment:

**Total Marks: 50**

**Duration: 3 Hours**

Two- Three questions on Principles involved in Physical Chemistry Experiments	5 marks
Procedure and experimental principles	5 marks
Tabulation, calculation and graph	15 marks
Experimental Result	25 marks

### End-Semester Examination:

**Total Marks: 50**

**Duration: 3 hours**

Two- Three questions on Principles involved in Physical Chemistry Experiments	5 marks
Procedure and experimental principles	5 marks
Tabulation, calculation and graph	15 marks
Experimental Result	25 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self (10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family (17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086.**

**B.Sc DEGREE: BRANCH IV- CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PHARMACEUTICAL CHEMISTRY**

**CODE:19CH/ME/PH45**

**CREDITS:5**

**L T P:4 0 1**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the fundamental concepts of drug discovery and development
- To give an understanding of pharmacokinetics and pharmacodynamics of drugs
- To give an overview of common and important diseases and their treatment

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the scientific basis associated with quantitative and qualitative analytical techniques applied in Pharmaceutics
- Categorise different diseases and their treatment
- Demonstrate the importance of chemistry in the development and application of therapeutic drugs.
- Assess the physico-chemical properties of active pharmaceutical ingredients (API) to justify their formulation into dosage form
- Predict chemical, biochemical, and pharmaceutical properties applicable to dosage forms using quantitative methods

**Unit 1**

**(12 Hours)**

**Introduction to Pharmaceutical Chemistry**

- 1.1 Definitions - Pharmacy, Pharmacology, Pharmacodynamics, Pharmacokinetics, Antimetabolites, Bacteria, Virus, Fungi, Mutation, Pharmacognosy, Toxicology, Pharmacotherapeutics, Chemotherapy, Therapeutic Index. Classification of Drugs
- 1.2 Drug Targets: Cell structure in brief, drug target- Proteins, nucleic acids, drug targets at molecular level, intermolecular bonding forces - electrostatic bonding forces, hydrogen bonding, dipole-dipole and ion-dipole interactions, van der Waals interaction, Repulsive interaction, role of water and hydrophobic interactions
- 1.3 Routes of administering drug, Dosage forms, Slow release drug formulation. Storage of drugs- factors affecting stability of drugs, storage requirements.

**Unit 2**

**(14 Hours)**

**Common Diseases and their treatment**

- 2.1 Diseases - insect borne - Malaria; air borne - measles, tuberculosis ; waterborne – Cholera, typhoid, dysentery-Causes, symptoms, treatment, precautions
- 2.2 Common disorders of the digestive system –Jaundice; respiratory system-

- Asthma; nervous system- Epilepsy – causes, prevention and treatment.
- 2.3 Haematological agents - Anaemia – Causes and Control - Antianaemic Drugs.  
Blood Pressure, Hypo and Hypertension - Causes, Prevention and Treatment;  
antihypertensive Agents - Aldomet, Reserpine.
- 2.4 Cardiovascular diseases: Cardiac glycosides-Digoxin; antiarrhythmic drugs-  
Quinidine- structure, dosage, therapeutic uses; Antagonists of Ca
- 2.5 Antianginal agents- nitriles; vasodilators-Sodium Nitroprusside, Papaverine,  
nicotinic acid

**Unit 3 (16 Hours)**

**Drugs of Importance**

- 3.1 Analgesics: Narcotic- Morphine- Source, Structure-Activity Relationship and  
Uses. (Pethidine) and Non-Narcotic Drugs, Antipyretic and Anti-Inflammatory  
Agents – synthesis, characteristics and uses (Asprin, Paracetamol,  
Phenylbutazone, Ibuprofen)
- 3.2 Anaesthetics- Conditions of an Ideal Anesthetic Agent, Types-General (Ether,  
CHCl<sub>3</sub>, Halothane, Nitrous Oxide), Local (Cocaine) and Intravenous  
(Barbiturates)
- 3.3 Antibiotics: Therapeutic uses of Penicillin, Streptomycin, Tetracycline,  
Chloramphenicol
- 3.4 Diabetes - Types and Causes, Hypoglycemic Agents
- 3.5 Types and Treatments of Cancer, Antineoplastic Drugs - Antimetabolites, Plant  
Products, Hormone Therapy and Radioactive Isotopes
- 3.6 HIV – Causes, Prevention and Treatment

**Unit 4 (10 Hours)**

**Pharmacological Aids**

- 4.1 Preservatives-Sodium Benzoate; Antioxidants - Esters of Gallic Acid;  
Sequestrants-Calcium Complex of EDTA; Emulsifying Agents-Sorbitan  
Monolaurate - Colouring Agents - Caramel, Amaranth (Permitted Colours);  
Flavouring Agents - Vanillin, (Permitted Flavors); Sweetening Agents - Sucrose,  
Sorbitol, Saccharin; Stabilising and Suspending Agents - Gelatin, Pectin
- 4.2 Ointment Bases - Hydrocarbon Bases, Absorption Bases – Emulsions

**Unit 5 (13 Hours)**

**Practicals (to be tested internally)**

- 5.1 Synthesis of Aspirin
- 5.2 Estimation of Iron / Vitamin A by Colorimetry / Spectrophotometry
- 5.3 Separation of Analgesics (Ibuprofen, Paracetamol, Aspirin) by Thin Layer  
Chromatography (TLC)
- 5.4 Identification of Blood Group
- 5.5 Estimation of Blood Glucose by o-Toluidine Method

**Industrial visit: Visit to Industry**

**BOOKS FOR STUDY**

Chatwal. G.R. *Pharmaceutical Chemistry Inorganic (Volume 1)*. New Delhi: Himalaya, 2006.

Jayasree Ghosh. *A text book of Pharmaceutical Chemistry*. New Delhi: S.Chand, 2014.

### BOOK FOR REFERENCE

Craig, Robert, R. E. Stitzel. *Modern Pharmacology*. Boston: Little Brown, 2000.  
Lakshmi, S., *Pharmaceutical chemistry*, 3<sup>rd</sup> ed., Delhi: Sultan Chand, 2004.  
Ashutosh Kar, *Medicinal chemistry*, 2<sup>nd</sup> ed., New Delhi: New Age, 2002.  
Patrick G, *Instant Notes Medicinal Chemistry*, New Delhi :Viva Books, 2002.  
Thomas L. Lemke, William Zito, S., Victoria F. Roche, David A. Williams, *Essentials of Foye's Principles of Medicinal Chemistry*. Philadelphia: LWW, 2016.  
Mukherjee, K.L., *Medical Laboratory Technology*, New Delhi:Tata McGraw-Hill, 2005,

### WEB RESOURCES

<http://www.oocities.org/srn251/weng.htm>  
[http://www.rightdiagnosis.com/medical/hematologic\\_agent.htm](http://www.rightdiagnosis.com/medical/hematologic_agent.htm)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/  
Problem Solving/MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 Hours**

### QUESTION PAPER PATTERN

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV - CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**POLYMER CHEMISTRY**

**CODE:19CH/ME/PL45**

**CREDITS:5**

**L T P:4 0 1**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To learn the basic techniques and mechanisms of polymerisation
- To understand the chemistry of polymers and their manufacturing techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Classify polymers and describe their structural features
- Correlate the properties of polymeric materials with their structure
- Distinguish between the different methods of polymer synthesis and their mechanisms
- Illustrate the importance of the properties of polymers in their applications
- Carry out the synthesis of simple polymers

**Unit 1 (10 Hours)**

**Introduction to Polymers**

- 1.1 Classification of Polymers Based on Origin/Occurrence, Chemical Structure, Physical Properties, Mechanical Behaviour, Polymerisation Process, Arrangement of Monomers and Thermal Properties
- 1.2 Natural and Synthetic Fibers: Types, Regenerated Cellulose Acetate Fibers, Nylon
- 1.3 Structure, Properties and Applications of PU, PVC, Poly Acrylates, PMMA, Silicones, Plastics, Emulsions, Resins

**Unit 2 (16 Hours)**

**Chemistry of Polymerisation**

- 2.1 Types and Mechanism of Addition, Condensation, Free Radical, Ionic and Coordination Polymerisation
- 2.2 Kinetics of Free Radical and Ionic Polymerisation – Kinetic Chain Length
- 2.3 Synthesis of Graft and Block Co-Polymers
- 2.4 Techniques of Polymerisation- Bulk, Solution, Suspension, Emulsion, Melt Polycondensation, Solution Polycondensation, Interfacial Condensation, Solid and Gas Phase Polymerisation
- 2.5 Stereospecificity in Polymers, Tacticity

**Unit 3 (16 Hours)**

**Molecular Weight and Properties of Polymers**

- 3.1 Molecular Weight of Polymers-Number Average and Weight Average, Molecular Weight Distribution, Determination of Molecular Weight
- 3.2 Glass Transition Temperature-State of Aggregation and State of Phase Transitions, Factors Influencing Glass Transition Temperature, Importance of Glass Transition Temperature, Heat Distortion Temperature
- 3.3 Crystallinity of Polymers: Crystalline Behaviour, Degree of Crystallinity
- 3.4 Reactions of Polymers-Hydrolysis, Acidolysis, Aminolysis, Addition and Substitution Reactions (One Example Each)
- 3.5 Cyclisation, Cross-Linking and Reactions of Specific Functional Groups in the Polymer

**Unit 4 (13 Hours)**

**Polymer Degradation**

- 4.1 Types of Degradation - Thermal, Mechanical, Ultra Sound, Photo Radiation and Chemical Degradation Methods
- 4.2 Rubber-Natural and Synthetic-Structure, Mechanism of Vulcanisation
- 4.3 Biodegradable and Non-Biodegradable Polymers

**Unit 5 (10 Hours)**

**Practicals (To be assessed internally)**

- 5.1 Synthesis of Phenol-Formaldehyde Resin/Urea Formaldehyde Resin
- 5.2 Synthesis of Polymethylmethacrylate (PMMA)
- 5.3 Synthesis of Polyester
- 5.4 Determination of the Molecular Weight of Polyvinyl Alcohol (PVA)/Polyvinyl Chloride (PVC)

**Industrial visit: Visit to polymer industry / CLRI**

**BOOKS FOR STUDY**

Gowariker V.R, N.V. Viswanthan and Jayadev Sreedhar. *Polymer Science*.

New Delhi: New Age International, 2015.

Misra G.S. *Introductory Polymer Chemistry*. New Delhi: Wiley Eastern, 2010.

**BOOKS FOR REFERENCE**

Billmeyer, F.W. *Polymer Science*. India: Wiley-Interscience, 2007.

Joel Fried. *Polymer Science and Technology*. New Delhi: Prentice hall, 2005.

Bahadur P and Sastry N V. *Principles of Polymer Science*. New Delhi: Narosa Publishing House, 2005

**WEB RESOURCES**

<https://polymerdatabase.com>

<http://amrita.vlab.co.in/?sub=2&brch=190&sim=603&cnt=1>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/  
Problem Solving/MCQ/Model Preparation/Short Answer Tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

## **QUESTION PAPER PATTERN**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COMPUTERS IN CHEMISTRY**

**CODE:19CH/ME/CC45**

**CREDITS:5**

**L T P:3 0 2**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To apply computing techniques and software to solve problems in Chemistry

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate proficiency in using computers to solve chemical and basic mathematical problems
- Use ChemDraw and ChemDraw 3D to draw and manipulate chemical structures
- Describe the basic principles of molecular modelling
- Solve Physical chemistry problems using MS-Excel
- Use MS-Excel and ORIGIN for plotting curves

**Unit 1 (15 Hours)**

**Data Processing and Analysis**

- 1.1 Elements of Computer Architecture - Creating, Editing, Naming, Renaming and Locating Files, Folders, Directory
- 1.2 Components of Excel - Spreadsheets, Database, Chart & Building Workbooks
- 1.3 Building Formulae, User Made and Statistical Functions, Formatting Cells
- 1.4 Managing and Organizing Data - Creating Link, Analyzing Data
- 1.5 Solving Problems from Physical and Analytical Chemistry (Precision and Accuracy), Standard Deviation using Spectral Data

**Unit 2 (15 Hours)**

**Introduction to Graphs**

- 2.1 Introduction to Charts - Types, Creating Charts from a Table, Reviewing Graphs
- 2.2 Solving Problems in Chemistry
- 2.3 Plotting Graphs using Theoretical and Experimental Data. Trend Line Addition and Determining the Slope and Intercept
- 2.4 Using ORIGIN 9.5 for plotting graphs

**Unit 3 (10 Hours)**

**Introduction to MathCad**

- 3.1 Eigen Values and Eigen Vectors of Matrices
- 3.2 Differential and Integral Calculus
- 3.3 Histograms, Extrapolation and Interpolation in Graphs, Curve Cutting Integration Methods
- 3.4 Regression Analysis of Experimental Data and its Related Techniques

3.5 Solutions for Simultaneous Equations by Matrix Methods  
**Unit 4 (15 Hours)**

**CHEM Draw & CHEM 3D Pro**

- 4.1 Using CHEM DRAW for Writing Chemical Equations and Representing Schemes of Reaction Mechanisms, Editing, Transporting as Picture to Word Document
- 4.2 Using CHEM 3D PRO for Building Molecules and for Measurement of Bond Angles, Bond Energy, Energy Minimization
- 4.3 Use of Internet in Chemical Research- XRD, IR, NMR Data

**Unit 5 (10 Hours)**

**Molecular Mechanics**

- 5.1 Introduction to Cheminformatics in Drug Discovery - 2D Databases and Database searching, Substructure search, property searching, similarity searching
- 5.2 Representation and manipulation of 2D Molecular Structures, 3D Databases: experimental data sources, Chemical Databases - CHEMDB, KEGG LIGAND, CAS REGISTRY, Chemical searching methods - exact searching, sub structure searching, similarity searching, reaction searching

**BOOKS FOR STUDY**

Ramesh Kumari. *Computers and applications to Chemistry*. New Delhi: Narosa, 2005.  
F. James Holler, Stanley R. Crouch, *Applications of Microsoft Excel in Analytical Chemistry*, UK Cengage Learning : 2013

**BOOK FOR REFERENCE**

Raman K.V. *Computers in Chemistry*. Tata McGraw-Hill, 2002.  
Andrew R. Leach, Valerie J. Gillet. *An Introduction to Chemoinformatics*. UK: Springer, 2007.  
Bunin, Barry A. Dordrecht. *Chemoinformatics: Theory, Practice, and Products*. UK: Springer, 2010.

**WEB RESOURCES**

[https://www.cambridgesoft.com/Ensemble\\_for\\_Chemistry/ChemDraw/](https://www.cambridgesoft.com/Ensemble_for_Chemistry/ChemDraw/)  
<http://www.sciencesoftware.se/en/>  
<http://www.analytictech.com/networks/graphtheory.htm>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5

Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)

Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components: Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments /Problem Solving/  
MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

**QUESTION PAPER PATTERN**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV - CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020 Onwards)

**FOOD CHEMISTRY**

**CODE:19CH/ME/FC45**

**CREDITS:5**

**L T P:4 01**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To create an awareness of the chemistry of different constituents of food – Carbohydrates, Proteins, Vitamins, Lipids, Enzymes
- To give an understanding about the effects of processing of Fats, Oils, Vitamins and Minerals
- To provide an optimum environment for students to understand the chemical bases of food component reactivity and functionality.
- To develop skills in testing the various approaches for manipulating the chemical and/or functional properties of foods.
- To provide an opportunity to enhance and test their critical thinking skills through structured problem solving.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the enzymatic reactions that influence food quality in the food industry
- Identify the various components of food along with their structure and reactivity
- Give a molecular rationalization for the observed physical properties and reactivity of major food components.
- Evaluate the effect of additives and processing on various food materials
- Predict how processing conditions are likely to change the activity of food components.

**Unit 1**

**(20 Hours)**

**Constituents of foods**

- 1.1 Types of water in food and their specific functions, Water activity and Shelf life of food, Water Balance, Moisture content in foods, Role of Water in food preparation
- 1.2 **Carbohydrates** – Classification, Chemical reactions, Properties of Sugars and Polysaccharides in foods, Applications of Sugars and Polysaccharides. Maillard Reaction. Pectin, Gums and Hydrocolloids, Artificial Sweetening Agents
- 1.3 **Proteins**- Essentials of amino acids, Sources of protein, physicochemical properties, Denaturation and its implications, Gel formation and its theories. Chemical changes in proteins during processing, Functional properties of proteins in foods. Wheat proteins – dough formation. Milk proteins
- 1.4 **Lipids** - Classification and use of lipids in foods. Sources of fats, functions and storage of fats. Structure and classification of fatty acids, Chemistry of fats and oil processing, emulsions and emulsifiers, rancidity of fats, Hydrogenation

- 1.5 **Minerals and Vitamins** - Sources, functions, bioavailability and deficiency of the following minerals - calcium, iron, iodine, fluorine, sodium and potassium (elementary treatment). Vitamins - classification, sources, functions and deficiencies (A, D, E, K, C, B complex - riboflavin, thiamin, Folic acid, B<sub>6</sub> and B<sub>12</sub>). Effect of cooking on vitamins and minerals

**Unit 2 (15 Hours)**  
**Food Additives**

- 2.1 Definitions of Food Additives, Classification and Functions - Legitimate uses of additives in foods, Intentional and Non Intentional additives, Indirect food additives Food additive in formulations: Additives such as colour, preservatives (Class I and Class II preservatives as per FSSAI, antioxidants, emulsifiers, sequesterants, Humectants and stabilizers. Uses and functions in formulations.
- 2.2 Significance of natural pigments in food – Chlorophylls, Carotenoids, Haemoglobin and Myoglobin, Anthocyanins, Flavonoids, Betalains and Tannins, Pigments in food and their industrial applications.
- 2.3 Flavours – Types of food flavours-natural and artificial, flavours generated during processing – reaction, stability of flavours during food processing Low calorie and non-nutritive sweeteners, flour improvers and acidulants with respect to chemistry, uses and functions in formulations
- 2.4 Toxicological evaluation of food additives

**Unit 3 (10 Hours)**  
**Nutrition and Balanced Diet**

- 3.1 Nutrition – calorific value of food –Respiratory quotient of food – basal metabolic rate – factors influencing BMR (Body Metabolic Rate), specific dynamic action (SDA) of food.
- 3.2 Thermogenic effect – energy requirements of individuals – diet and its components – the protein requirements – biological value of proteins, supplementary value of proteins. Diseases associated with protein malnutrition.
- 3.3 Nutritional value of carbohydrates. – Fibre in the diet, dietary sugars – nutritional aspects of lipids.

**Unit 4 (10 Hours)**  
**Food Quality Control**

- 4.1 Quality Control and its importance, Quality Assurance, HACCP (Hazard Analysis Critical Control Point)) Food Laws: Prevention of Food Adulteration Act, BIS Act, FPO Act, Essential Commodities Act, Consumer Protection Act, Agricultural Produce Act (AGMARK), FSSAI, Drug License and WHO Standards. Salient Features of P.F.A., Misbranded Food, Brief Outline of Labeling Provisions Under P.F.A
- 4.2 Role and Functions of Implementing Agencies with references to Indian Scenario. Tips to Consumers for Buying Safety Food
- 4.3 Sensory Characteristics of Food, Factors affecting Food Acceptance - Sensory and Psychological. Objective Method of Sensory Evaluation

**Unit 5 (10 Hours)**  
**Practical (To be assessed internally)**

- 5.1 Estimation of ascorbic acid in lime / sweet lime / gooseberry
- 5.2 Estimation of glucose and total sugars
- 5.3 Estimation of oxalic acid in guava fruit

- 5.4 Estimation of iodine value, acid value and RM value of an edible oil.  
5.5 Estimation of food colours (by colorimetric method).

#### BOOKS FOR STUDY

Swaminathan. M. *Textbook on Food Chemistry*. Bangalore: Printing and Publishing Co. Ltd., 2010  
Owen R. Fennema. *Food Chemistry*, New York: Marcel Decker Inc., 2006  
Srilakshmi. B. *Food Science*, III ed., New Delhi: New Age International Pvt. Ltd. Publishers, 2003

#### BOOKS FOR REFERENCE

John M. deMan. *Principles of Food Chemistry*. Maryland USA: ASPEN Publication, 2006  
Norman. N. Potter. *Food Science*, New Delhi: CBS Publishers and Distributors, 2004  
William Hogoland Mayer. *Food Chemistry*, New Delhi: CBS Publishers and Distributors, 1994  
Damodaran, S., Parkin, K. L., and Fennema, O.R. *Fennema's Food Chemistry* 4th Edition, CRC Press, 2008.  
Belitz, H-D., Grosch, W. & Schieberle, P. *Food Chemistry* 3rd Ed. (translation of fifth German edition), Springer, 2004.  
DeMan, J.M. *Principles of Food Chemistry* 3rd Ed. Aspen Publisher 1999.

#### WEB RESOURCES

<https://nptel.ac.in/courses/103107088/module4/lecture1/lecture1.pdf>  
[https://link.springer.com/chapter/10.1007/978-1-349-06153-2\\_10](https://link.springer.com/chapter/10.1007/978-1-349-06153-2_10)  
<https://www.who.int/news-room/fact-sheets/detail/food-additives>  
<https://www.nutrition.org.uk/healthyliving/healthydiet/healthybalanceddiet.html>  
<https://www.indeed.com/q-Food-Quality-Control-jobs.html>  
<http://videos.howstuffworks.com/discovery-health/36937-bob-greene-manon-the-streets-nutrition-quiz-video.htm>  
<http://www.who.int/dietphysicalactivity/publications/trs916/summary/en/>

#### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**  
Section A – 15 x 1 = 15 Marks (All questions to be answered) Multiple choice - 5, Fill in the Blanks - 5, T/F or Match the following or single line answer - 5  
Section B – 3 x 5 = 15 Marks (3 out of 5 to be answered)  
Section C – 2 x 10 = 20 Marks (2 out of 3 to be answered)

**Other Components:** **Total Marks: 50**  
Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving/MCQ/Model Preparation/Short Answer Tests

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

#### QUESTION PAPER PATTERN

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5  
Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)  
Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH IV – CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PROJECT**

**CODE:19CH/ME/PR45**

**CREDITS:5**

**GUIDELINES FOR PROJECT**

Project should be done individually. Each student will choose a topic of her interest and the student will be assigned to a supervisor

The project will require practical work with the submission of a project report. It should include experimental lab work. The duration of the project work is one semester

The project report should be submitted in the prescribed format containing a minimum of 30 pages. The report should be enhanced with graphs, spectra, tables and/or photographs

Each candidate has to give three periodical reviews to the internal guide on the scheduled dates prescribed by the Department

Each candidate will submit 3 hard copies of the project thesis and submit on the scheduled date. The student will appear for viva voce before a panel comprising the External Examiner, supervisor and Head of the Department

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

Periodical review and submission of reports

**End Semester Examination:**

**Total Marks: 50**

Dissertation and Viva-Voce

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Chemistry for  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**COSMETICS AND PERSONAL CARE**

**CODE:19CH/GE/CP22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To introduce the concept of cosmetology
- To understand the importance of personal care

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate the importance of skin care in the maintenance of good health
- Understand the health hazards of cosmetics
- Choose the proper beauty product for both skin and hair maintenance
- Distinguish between various beauty treatments

**Unit 1**

**Skin Care**

**(8 Hours)**

- 1.1 Skin- Structure and Functions- pH and Moisture Balance, Maintenance of Skin
- 1.2 Types of Skin: Dry Skin, Oily Skin, Wrinkled Skin
- 1.3 Cleansing of Skin, Creams and Lotions, Astringent and Skin Tonics, Skin Lighteners, Depilatories, Food Habits Related to Skin Care

**Unit 2**

**Scalp and Hair Treatments**

**(8 Hours)**

- 2.1 Structure of Hair, Growth and Type of Hair
- 2.2 Shampoos and Conditioners, Hair Styling Products, Hair Ironing and Methods of Colouring /Dyeing- Precautionary Measures
- 2.3 Personal Care and Cleanliness of Hair

**Unit 3**

**Beauty Treatments**

**(10 Hours)**

- 3.1 Facials-Types-Advantages and Disadvantages
- 3.2 Lipstick, Eyeliner, Mascara, Eye Shadow - Chemical Composition
- 3.3 AHA Exfoliation, Facial - Galvanic, High Frequency, Aroma Therapy
- 3.4 Toxicology of Cosmetics
- 3.5 Demonstration by Experts in the Field of Cosmetology

## **BOOKS FOR STUDY**

Gem Mathew, G.D. *Chemistry in Everyday Life*. Vishal, 2014

Wilkinson J B E and Moore R J. *Harry's Cosmetology*. London: Chemical Publishers, 2000.

## **WEB RESOURCES**

[http://www.abpishools.org.uk/page/modules/skin/.cfm?coSiteNavigation\\_allTopic=1](http://www.abpishools.org.uk/page/modules/skin/.cfm?coSiteNavigation_allTopic=1)

<http://health.howstuffworks.com/skin-care/nail-care>

[http://www.chemistryviews.org/details/ezone/4007741/Shampoo\\_Science.html](http://www.chemistryviews.org/details/ezone/4007741/Shampoo_Science.html)

[http://www.webhealthcentre.com/HealthyLiving/personal\\_hygiene\\_index.aspx](http://www.webhealthcentre.com/HealthyLiving/personal_hygiene_index.aspx)

## **PATTERN OF ASSESSMENT**

### **No End-Semester Examination**

#### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A 10 x 1 = 10 marks

Section B 2 x 3 = 6 marks

3x3 = 9 marks

#### **Other Components:**

**Total Marks: 25**

Seminars/Quiz/Assignments/Group Discussions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086**

**B.Sc DEGREE: BRANCH IV- CHEMISTRY**

**General Elective Course Offered by Department of Chemistry to  
B A. / B.Sc. / B.Com./B.S.W. / B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NUTRACEUTICALS AND HEALTH CARE**

**CODE:19CH/GE/NH22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of Food Science and Human Nutrition
- To develop functional foods for the market

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the importance on functional foods
- Be aware of Probiotics
- Appreciate diet for healthy living
- Identify Nutraceutical Rich Supplements from plant extract

**Unit 1**

**Introduction**

**(8 Hours)**

- 1.1 Definition and Classification of Nutraceuticals
- 1.2 Relationship between Nutraceuticals, Food and Medicine
- 1.3 Prebiotics: Definition, Sources, Bioavailability, Effects on Human Health and Applications-Non-Digestible (Carbohydrates/Oligosaccharides), Dietary Fibre and Resistant Starch
- 1.4 Probiotics: Probiotic Microorganisms, Foods - Fermented Milk Products, Non-Milk Products, Quality Assurance of Probiotics and Safety

**Unit 2**

**Phytonutrients**

**(10 Hours)**

- 2.1 Role of Isoprenoids, Flavonoids, Carotenoids and Polyunsaturated Fatty Acids.
- 2.2 Functional Foods – Vegetables, Cereals, Milk and Dairy Products
- 2.3 Nutraceutical Rich Supplements – Caffeine, Green Tea, Mushroom Extract, Chlorophyll and Spirulina
- 2.4 Nutraceutical Remedies – Bronchitis, Circulatory Problems, Hypoglycemia, Nephrological Disorders, Liver Disorders, Psoriasis and Ulcers

### Unit 3

#### Diet Therapy and Health Care

(8 Hours)

- 3.1 Basic Concepts of Diet Therapy –Principles and Classification of Therapeutic Diets
- 3.2 Nutritional Care for Weight Management –Etiological Factors Contributing to Obesity, Low Energy Diets, Balanced Energy Reduction and Behavioural Modification - Underweight – Etiology and Assessment, High Energy Diets For Weight Gain

#### BOOKS OF STUDY

Robert E.C. Wildman, Robert Wildman, Taylor C. Wallace. *Handbook of Nutraceuticals and Functional Foods*. Boca Raton: CRC, 2012.

#### BOOK FOR REFERENCE

Aluko, Rotimi E. *Functional Foods and Nutraceuticals*. Boca Raton: CRC, 2012.

#### WEB RESOURCES

<http://www.ijppsjournal.com/Vol2Issue3/599.pdf>

<http://www.ajpcr.com/Vol3Issue1/265.pdf>

[http://sphinxssai.com/Vol.3No.1/pharm\\_jan-mar11/pdf/JM11%28PT=74%29%20pp%20442-448.pdf](http://sphinxssai.com/Vol.3No.1/pharm_jan-mar11/pdf/JM11%28PT=74%29%20pp%20442-448.pdf)

#### PATTERN OF ASSESSMENT

##### No End-Semester Examination

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes.

Section A 10 x 1 = 10 marks

Section B 2 x 3 = 6 marks

3x3 = 9 marks

##### Other Components:

Total Marks: 25

Seminars/Quiz/Assignments/Group Discussions



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Chemistry for B A. /  
B.Sc. / B.Com. B.S.W. / B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019- 2020)

**FOOD QUALITY AND DETECTION OF FOOD ADULTERATION**

**CODE:19CH/GE/FA22**

**CREDITS:2**

**L T P:1 0 1**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To educate students on the health hazards associated with food adulterants
- To enable students to use the simple Home Kit to detect food adulteration in common food items
- To provide an understanding of the legislative aspects and the role and functions of regulatory agencies in India

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the label of a food product
- Identify the adulteration in food products
- Analyse food Adulteration at home
- Understand the significance of various food laws

**Unit 1**

**Food Quality Control**

**(9 Hours)**

- 1.1 Quality Control and its importance, Quality Assurance, HACCP
- 1.2 Food Laws: Prevention of Food Adulteration Act, BIS Act, FPO Act, Essential Commodities Act, Consumer Protection Act, Agricultural Produce Act (AGMARK), FSSAI, Drug License and WHO Standards
- 1.3 Salient Features of P.F.A., Misbranded Food, Brief Outline of Labeling Provisions Under P.F.A
- 1.4 Role and Functions of Implementing Agencies with references to Indian Scenario. Tips to Consumers for Buying Safety Food
- 1.5 Sensory Characteristics of Food, Factors affecting Food Acceptance - Sensory and Psychological. Objective Method of Sensory Evaluation

**Unit 2**

**Food Additives**

**(4 Hours)**

- 2.1 Artificial Sweeteners – Saccharin, Cyclamate, Aspartame, Food Flavours – MSG, Esters, Aldehydes and Heterocyclic Compounds, Antioxidants, Food Colours – Permitted and Non Permitted Colours, Emulsifying Agents, Preservatives, Leavening Agents- Baking Powder and Yeast

### Unit 3

#### Practicals (to be tested internally)

(13 Hours)

- 3.1 Assessment of Food Quality - Sensory Evaluation: Threshold Test, Dilution Test - Colour Comparison, Scoring Test, Difference Test – Paired Difference Test, Duo-Trio Test, Triangle Test. Rating Test – Hedonic, Numerical Scoring Test, Descriptive Test – Flavour Profile
- 3.2 Detection of Adulterants: Chicory and Tamarind Seed Powder in Coffee Powder, Non Permitted Colours in Tea and Dhal, Metanil Yellow in Turmeric Powder, Kesari Dhal and Thoor Dhal, Castor Oil in Coconut Oil, Papaya Seeds and Rotten Pepper in Pepper, Brick Powder in Chilli Powder, Washing Soda in Jaggery, Vanaspathi in Ghee, Chalk Powder in Salt and Sugar, Non Permitted Colours in Jams, Jelly, Juices and Saccharin in Supari

#### BOOKS FOR STUDY

Swaminathan Geetha and Mary George. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

Thankamma Jacob, *Food Adulteration*. Macmillan Company, 1976

#### BOOKS FOR REFERENCE

Lilian Hoagland Meyer. *Food Chemistry*. CBS Publishers & Distributors, 2004.

Mudambi, R, Sumathi and Raja Gopal, M.V. *Fundamentals of Foods and Nutrition*. India: Wiley Eastern, 2004

Sri Lakshmi, B. *Food Science*. New Age International, 2005.

Swaminathan, M. *Handbook of Food and Nutrition*. Bangalore: Bangalore Printing and Pub, 2001.

#### WEB RESOURCES

<http://agmarknet.nic.in/adulterants.htm>

<http://www.fssai.gov.in/>

<http://www.foodafactoflife.org.uk/sheet.aspx?siteId=19&sectionId=83&contentId=308>

#### PATTERN OF ASSESSMENT

##### No End-Semester Examination

##### Continuous Assessment Test:

**Total Marks: 25**

**Duration: 60 minutes**

Section A 10 x 1 = 10 marks

Section B 2 x 3 = 6 marks

3x3 = 9 marks

##### Other Components:

**Total Marks: 25**

Seminars/Quiz/Assignments/Group Discussions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Chemistry for B A. / B.Sc. / B.Com.  
B.S.W. / B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BASIC NUTRITIONAL CHEMISTRY**

**CODE:19CH/GE/BN22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To educate students on the fundamental aspects of nutrition
- To enlighten students on healthy living through right food

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the importance of nutrition in maintenance of good health
- Analyse the labels on food products
- Understand different types of diets
- Calculate BMI and know its importance

**Unit 1**

**Nutrition and Health**

**(9 Hours)**

- 1.1 Definition- Nutrition, Health and Disease; Nutrients – Macronutrients - Carbohydrate, Protein, Fat, Water- Micronutrients - Vitamins and Minerals
- 1.2 Under Nutrition, Over Nutrition, and Malnutrition; Diet Recommendations for Optimal Health
- 1.3 Mandatory and Optional Inclusions on Nutrition Labels, Claims on Labels, Allergy Warnings

**Unit 2**

**Indicators of Health**

**(7 Hours)**

- 2.1 Body Mass Index [BMI] – Calculation, Limitations; Body Fat and its Distribution
- 2.2 Health Risk – Obesity, Underweight-Anorexia Nervosa, Bulimia, Binge-Eating Disorder
- 2.3 Recommendations for Weight Management -Dietary, Behavioural, and Physical Activity

**Unit 3**

**Nutrition through Life**

**(10 Hours)**

- 3.1 From Childhood to Adulthood
- 3.2 Dietary Food Trends- Functional Foods, Conventional Foods, Modified Foods and Medical Foods
- 3.3 Popular Diets- GM Diet, DASH Diet, Gluten-Free Diet, Low-Carb Diets, The Macrobiotic Diet, the Mediterranean Diet, Vegetarian and Vegan Diets

### **BOOKS FOR STUDY**

Maureen Zimmerman and Beth Snow. *An introduction to Nutrition*. Creative Commons, 2012.  
Srilakshmi, B. *Nutrition Science*. New Delhi: New Age International, 2014.  
Swaminathan, M. *Textbook on Food Chemistry*. Bangalore: Printing and Publishing, 2006.

### **BOOKS FOR REFERENCE**

William Hogoland Mayer. *Food Chemistry*. New Delhi: CBS Publishers and Distributors, 2002  
Owen R. Fennema. *Food Chemistry*. New York: Marcel Decker Inc, 2000.

### **WEB RESOURCES**

<http://videos.howstuffworks.com/discovery-health/36937-bob-greene-manon-the-streets-nutrition-quiz-video.htm>  
<http://www.who.int/dietphysicalactivity/publications/trs916/summary/en/>

### **PATTERN OF ASSESSMENT**

#### **No End-Semester Examination**

#### **Continuous Assessment Test:**

Section A 10 x 1 = 10 marks

Section B 2 x 3 = 6 marks

3x3 = 9 marks

**Total Marks: 25**

**Duration: 60 minutes**

#### **Other Components:**

**Total Marks: 25**

Seminars/Quiz/Assignments/Group Discussions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Chemistry for B A. / B.Sc. / B.Com.  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**FORENSIC CHEMISTRY**

**CODE:19CH/GE/FC22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the fundamentals concepts of Criminalistics
- To understand the method of searching, collecting, preserving and analyzing arson evidence
- To familiarize with the classification of explosives

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the various types of evidences
- Collect and handle evidences
- Categorize various explosives

**Unit 1**

**Introduction to Criminalistics**

**(6 Hours)**

- 1.1 Investigating the Crime Scene - Documenting the Scene and the Evidence, Recognition of Physical Evidence Collection, Preservation, Inventory, and Transportation of Physical Evidence
- 1.2 Investigating and Processing Physical Evidence- Types of Evidence, the Modern Crime Lab, Functions of a Forensic Scientist, Characteristics of Physical Evidence

**Unit 2**

**Trace, Physical and Biological Evidence**

**(10 Hours)**

- 2.1 Forensic Identification of Hair, Fibre, Paint and Glass
- 2.2 Fingerprints - Characteristics of Fingerprints, Methods for Developing Fingerprints, Preservation of Fingerprints, Handwriting, Typed and Word-Processed Documents, Photocopied Documents
- 2.3 Forensic Methods for Determination of Metals and Gunshot Residue, Techniques for the Analysis of Inorganic Materials, Drugs of Abuse
- 2.4 Forensic Toxicology- Measurement of Blood, Alcohol Breath Test for Alcohol
- 2.5 Biological Fluids - Blood, Semen, Saliva. Forensic DNA Typing

**Unit 3**

**Fire-Arson and Explosives**

**(10 Hours)**

- 3.1 Firearms - Ammunition, Ballistics, Laboratory Examination of Firearm Evidence

- 3.2 Arson - Evidence from Fire affected Area – Combustible Burning Characteristics – Nature of Combustion
- 3.3 Explosives – Classification of explosives – low explosives and high explosives. Homemade explosives. Military explosives. Blasting agents, Synthesis and characteristics of TNT, PETN and RDX. Explosion process. Bomb scene management. Evidence from the Scene of Explosion, Post blast residue collection and analysis. Blast injuries. Detection of hidden explosives

### **BOOKS FOR STUDY**

Bapuly, A.K. *Forensic Science – Its Applications in Crime Investigation*. Hyderabad: Paramedical Publisher, 2006.

Sharma B.R. *Forensic Science in Criminal Investigation and Trials*. New Delhi: Universal law publication, 2006.

### **BOOKS FOR REFERENCE**

Henry C. Lee, Timothy Palmbach and Marilyn C. Miller. *Henry Lee's Crime Scene Handbook*. Amsterdam: Elsevier Academic Press, 2001.

Russel Max M Houck and Jay A Siegel. *Fundamentals of Forensic Science*. Amsterdam: Elsevier Academic Press, 2006.

Tilstone W.J., Hastrup, M.L. Hald, and C. Fisher's, *Techniques of Crime Scene Investigation*, CRC Press, 2013.

### **WEB RESOURCES**

[http://www.remondini.net/newsite/?q=system/files/forensic%20chemistry\\_0.pdf](http://www.remondini.net/newsite/?q=system/files/forensic%20chemistry_0.pdf)

<http://www.legalindia.in/cyber-crimes-and-the-law/>

### **PATTERN OF ASSESSMENT**

#### **No End-Semester Examination**

#### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A 10 x 1 = 10 marks

Section B 2 x 3 = 6 marks

3x3 = 9 marks

#### **Other Components:**

**Total Marks: 25**

Seminars/Quiz/Assignments/Group Discussions

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086.**

**General Elective Course Offered by Department of Chemistry for B A./ B.Sc. /  
B.Com. B.S.W. / B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CHEMISTRY IN EVERYDAY LIFE**

**CODE:19CH/GE/CE22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students visualise the importance of Chemistry in daily life
- To give an understanding of the classification of drugs
- To bring about an understanding of drug-target interaction of enzymes and receptors
- To be aware of how drugs function in the body
- To know artificial sweetening agents and food preservatives

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate the significance of food additives
- Understand and explain the use of drugs
- Exhibit knowledge of chemicals in cosmetics
- Use cosmetics safely

**Unit 1**

**Food Additives**

**(9 Hours)**

- 1.1 Food Colours - Permitted and Non Permitted, Artificial Sweeteners – Aspartame, Saccharin and Cyclamate, Preservatives - Natural and Synthetic, Flavours – Monosodium glutamate.
- 1.2 Stabilising and Suspending Agents - Gelatin, Pectin. Toxic Effects of Food Additives

**Unit 2**

**Pharmaceuticals**

**(8 Hours)**

- 2.1 Antimalarials, Antipyretics, Analgesics, Antiseptics, Antibiotics-Antacids, Antihistamines, Chemotherapy –Definition and Therapeutic Uses. Diabetes-Types and Causes
- 2.2 Nutraceuticals – Vitamins - Water and Fat Soluble, Minerals and Trace Elements, Antioxidants. Role of Nutraceuticals in Disease Prevention- Diabetes and Cancer

**Unit 3**

**Cosmetics**

**(9 Hours)**

- 3.1 Skin Products, Soaps and Shampoos –Creams and Lotions, Lipstick and Hair Dye
- 3.2 Perfume – General Formulation, Deodorants and Antiperspirants
- 3.3 Toxicology of Cosmetics

**BOOKS FOR STUDY**

Gem Mathew G.D. *Chemistry in Everyday Life*. Jalandhar-Delhi: Vishal, 2009

**BOOKS FOR REFERENCE**

Chakrabarty, B.N. Industrial Chemistry. New Delhi: Shiv Narain, 2002.

Sharma B. K. Industrial Chemistry. Meerut: GOEL Publishing House, 2000.

**WEB RESOURCES**

<http://chemistry.about.com/od/everydaychemistry/>

<http://dwb4.unl.edu/Chem/CHEM869A/CHEM869ALinks/www.sdahq.org/sdalatest/html/soapchemistry1.htm>

**PATTERN OF ASSESSMENT****No End-Semester Examination****Continuous Assessment Test:****Total Marks: 25****Duration: 60 minutes**

Section A 10 x 1 = 10 marks

Section B 2 x 3 = 6 marks

3x3 = 9 marks

**Other Components:****Total Marks: 25**

Seminars/Quiz/Assignments/Group Discussions



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086**

**B.Sc DEGREE: BRANCH IV- CHEMISTRY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDUSTRIAL CHEMISTRY**

**CODE:19CH/UI/IC23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the process of development, optimization and monitoring of fundamental chemical processes in petrochemical and polymer industries
- To understand the sources of solid and hazardous wastes and methods of disposal of waste
- To provide an understanding of the environment and health impacts of solid waste mismanagement
- To study the generation of energy from various sources

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Classify the different types of fuels and their applications
- Recognise health and environmental issues related to solid waste management
- Contrast the types of polymers and how to recycle them
- Compare the properties and applications of oils, fats, waxes and soaps
- Appreciate the role of dyes in the fabric and food industries

**Unit 1**

**Fuels and Combustion**

- 1.1 Introduction - Classification of Fuels -Characteristics of a Good Fuel. Calorific Value, Theoretical Calculation Value of a Fuel-Solid Fuels-Wood
- 1.2 Coal - Classification of Coal, Analysis of Coal and Its Significance
- 1.3 Liquid Fuels: Petroleum - Cracking - Advantages of Catalytic Cracking Over Thermal Cracking - Synthetic Petrol

**Unit 2**

**Industrial Waste and Treatment Process**

- 2.1 Types of Industrial Waste, Treatment of Disposal of Industrial Waste or Effluent with Organic and Inorganic Impurities.
- 2.2 Characterization of Waste Water by Physical and Chemical Characteristics
- 2.3 Primary Treatment: Sedimentation, Neutralization, Coagulation, Equalization, Grid Removal, Secondary Treatment: Aerobic Treatment, Oxidation Ponds, Oxidation Ditches, Trickling Filters, Activated Sludge Process, Aerated Lagoons, Anaerobic Treatment. Tertiary Treatment: Reverse Osmosis, Electrodialysis, Desalination
- 2.4 Industrial Effluents: Characteristics and Treatment Options for Effluents from Various Industries: Textiles and Dyes, Paper and Pulp, Leather, Food and Dairy, Fertilizers, Electroplating Industries, Distilleries
- 2.5 Sewage Treatment

- 2.6 Water Conservation, Recycling of Waste Water and Rain Water Harvesting
- Unit 3**  
**Synthetic Polymers**
- 3.1 Requirement of a Fibre, Difference between Natural Fiber and Synthetic Fiber, Properties
- 3.2 Applications of Synthetic Fiber – Nitro Cellulose, Rayon, Cuprammonium Acetate, Rayon, Viscose Rayon, Nylon 66 and Terylene.
- 3.3 Different Types of Plastics, Recycling of Plastics
- Unit 4**  
**Oils, Fats, Waxes and Soaps**
- 4.1 Distinction between Oils and Fats. Classification and Properties of Animal Fats and Oils. Difference Between Animal, Vegetable and Mineral Oil, Essential Oils and Classification of Waxes
- 4.2 Soaps and Detergents- Classification, Cleansing Action of Soaps and Detergents. Enzymatic Detergents, Non-Degradable and Biodegradable Detergents
- Unit 5**  
**Papers and Dyes**
- 5.1 Types of Paper- Paper Stability, Environmental Impact of Paper, Applications of Paper- Thickness, Weight and Size of Paper
- 5.2 Classification of Dyes, General Methods of Applications of Dyes on Fibre
- 5.3 Dyes as Food Colours-Yellow Aniline Dyes, Metanil Yellow, Beta-Oxalyl-Amino Alanine and Lead Chromate

### **BOOKS FOR STUDY**

Gem Mathew G.D. Chemistry in Everyday Life. Jalandhar-Delhi: Vishal, 2009.  
Sharma B. K. Industrial Chemistry. Meerut: GOEL, 2013.

### **BOOKS FOR REFERENCE**

Norris Shreve, R and Joseph A. Brink, Jr. Chemical Process Industries. Kogakusha: McGraw Hill, 2002.  
Jain, P. C and Jain M. Engineering Chemistry. Delhi: Dhanpat Rai, 2001.

### **WEB RESOURCES**

<http://www.ignou.ac.in/upload/unit-3.pdf>  
<http://www.epa.gov/waste/nonhaz/industrial/guide/index.htm>  
<http://www.epa.gov/osw/conserva/materials/plastics.htm>  
<http://www.epa.gov/epawaste/hazard/testmethods/sw846/index.htm>

### **PATTERN OF EVALUATION**

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 Hours**

Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086**

**B.Sc DEGREE: BRANCH IV- CHEMISTRY**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**DRUGS AND DISEASES**

**CODE:19CH/UI/DD23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To give an overview of medicines in day to day life
- To enlighten students on the application of chemistry to the maintenance of good health

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Define important terms in Pharmaceutical Chemistry
- Identify common diseases and their treatment
- Explain the mechanism of blood coagulation
- Classify different drugs based on their mechanism of action
- Appreciate the significance of hypoglycemic agents and artificial sweeteners

**Unit 1**

**General Introduction to Drugs**

- 1.1 Definitions: Pharmacy, Pharmacology, Pharmacodynamics, Pharmacokinetics, Antimetabolites, Bacteria, Virus, Fungi, Mutation, Pharmacognosy, Toxicology, Pharmacotherapeutics, Chemotherapy, Therapeutic Index
- 1.2 Classification of Drugs-Biological, Chemical and Commercial Classification, Prescribed Drugs and over - the Counter-Drugs. Side Effects and Contra Indications

**Unit 2**

**Common Diseases and their Treatment by Drugs**

- 2.1 Some Common Diseases: Insect Borne – Malaria; Air Borne Diseases - Whooping Cough, Measles, Common Cold and TB; Waterborne Diseases - Cholera, Typhoid, Dysentery - Etiology, Symptoms, Prevention and Remedy
- 2.2 Some Common Disorders of the Digestive System – Jaundice; Respiratory System- Asthma; Nervous System - Epilepsy - Prevention and Treatment
- 2.3 Aids – Causes, Prevention and Treatment

**Unit 3**

**Blood and Hematological agents**

- 3.1 Blood Pressure, Hypertension - Cause, Prevention and Treatment, Antihypertensive Agents – Aldomet and Reserpine
- 3.2 Clotting of Blood - Mechanism, Haematological Agents, Anaemia – Causes and Control, Antianaemic Drugs
- 3.3 Cardiovascular Diseases - Cardiac Glycosides – Digoxin, Antiarrhythmic Drugs - Quinidine - Dosage and Therapeutic uses, Calcium Blockers

## Unit 4

### Drugs of Importance – I

- 4.1 Anesthetics: Types - General – Nitrous Oxide, Ether, CHCl<sub>3</sub>, Halothane; Local - Cocaine, Intravenous - Advantages and Disadvantages
- 4.2 Antiseptics and Disinfectants - (Phenols, Chloramines, Bleaching Powder, Boric Acid, Iodine, Zinc Oxide, Dyes-Crystal Violet)
- 4.3 Analgesics, Anti Pyretic and Anti-Inflammatory Agents - Narcotic and Non-Narcotic Drugs – Morphine. Source, Activity and uses of Pethadine, Aspirin, Paracetamol, Phenyl Butazone and Ibuprofen

## Unit 5

### Drugs of Importance – II

- 5.1 Antibiotics - Classification - Therapeutic uses of Chloramphenicol, Penicillin - Streptomycin, Tetracyclines, Erythromycin, Amoxycillin, Ciproflaxin
- 5.2 Antidepressants - Sedatives and Hypnotics - (Barbiturates); Hypoglycemic Drugs: Types of Diabetes, Hypoglycemic Agents, Sugar Substitutes
- 5.3 Antineoplastic Drugs - Types, Common Causes and Treatment of Cancer - Antineoplastic Agents; Antihistamines

## BOOKS FOR STUDY

Jayasree Ghosh. *A Text Book of Pharmaceutical Chemistry*. New Delhi: S.Chand, 2014.  
Chatwal, G.R. *Pharmaceutical Chemistry* (Volume 1). New Delhi: Himalaya, 2006.

## BOOKS FOR REFERENCE

David A., Williams, Thomas L. Lemke. Foye's *Principles of Medicinal Chemistry*. Lippincott: Williams & Wilkins, 2005.  
Graham Patrick. *An Introduction to Medicinal Chemistry*. Oxford University, 2001.  
John H. Block, John M. Beale, Jr. *Organic Medicinal and Pharmaceutical Chemistry*. Lippincott: Williams & Wilkins, 2004.

## WEB RESOURCES

[http://www.rightdiagnosis.com/medical/hematologic\\_agent.htm](http://www.rightdiagnosis.com/medical/hematologic_agent.htm)  
<http://www.drugs.com/forum/alternative-medicine/importance-drugs-29012.html>

## PATTERN OF ASSESSMENT

**End-Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 Hours**  
Section A – 30 x 1 = 30 Marks (All questions to be answered) Multiple choice - 10, Fill in the Blanks - 10, T/F or Match the following - 5, single line answer - 5  
Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)  
Section C – 2 x 20 = 40 Marks (2 out of 3 to be answered)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI**

**DEPARTMENT OF COMMERCE – SHIFT II**

**BACHELOR OF COMMERCE (ACCOUNTING & FINANCE)**

**PROGRAMME DESCRIPTION**

B.Com. Accounting & Finance is a three year degree programme designed to develop skills and competencies of the students in the field of Accountancy and Finance. This programme provides in-house training in SAP FICO and Financial Analytics which will enable the students to pursue different career paths. The curriculum is rigorous and progressive and prepares its graduates for professional roles in the areas of finance and accounting. The programme enhances practical knowledge and employability through real-time simulation based projects and internships. It focuses on building competencies in accounting and finance and provides the students with a wide range of managerial skills.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

At the end of a Bachelor of Commerce in Accounting and Finance programme, students will be able to

- Demonstrate an understanding of the concepts, methods and standards of accounting
- Exhibit critical thinking in problem solving
- Demonstrate competency in the preparation of financial statements
- Prepare, analyse and interpret financial statement for managerial decision making
- Comprehend laws pertaining to the regulatory aspects of business
- Identify basic ethical issues relating to various aspects of business
- Understand the role of corporate restructuring for revival of business
- Identify tax planning opportunities and recommend tax saving strategies
- Build a well-diversified portfolio and formulate an investment strategy
- Explore the different schemes for financing an entrepreneurial venture
- Apply appropriate analytical methods to find solutions to business problems
- Design a risk management programme for an organisation
- Comprehend the prosecution procedure and penalties for tax offenses
- Show responsibility and understanding of local and global financial issues

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Com. DEGREE: ACCOUNTING AND FINANCE**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
19AF/MC/FR14	Financial Reporting and Analysis	4	4	1	0	3	50	50	100
19AF/MC/MP13	Management Principles and Applications	3	3	1	0	3	50	50	100
19AF/AC/SB15	Statistics for Business Decisions	5	5	0	0	3	50	50	100
19AF/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
19AF/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
SEMESTER-II									
19AF/MC/CC23	Cost Concepts and Methods	3	3	1	0	3	50	50	100
19AF/MC/PM23	Principles of Marketing	3	3	1	0	3	50	50	100
19AF/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
SEMESTER-III									
19AF/MC/FM34	Financial Management	4	4	1	0	3	50	50	100
19AF/MC/TD34	Tools for Managerial Decision Making	4	4	1	0	3	50	50	100
19AF/MC/BL33	Business Law	3	3	1	0	3	50	50	100
19AF/MC/BE33	Business Ethics and Corporate Governance	3	3	1	0	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
SEMESTER-IV									
19AF/MC/CR44	Corporate Accounting and Restructuring	4	4	1	0	3	50	50	100
19AF/MC/BI43	Banking and Insurance	3	3	1	0	3	50	50	100
19AF/MC/CS43	Corporate and Securities Law	3	3	1	0	3	50	50	100
19AF/MC/FC43	Financial Communication	3	3	1	0	3	50	50	100
19AF/AC/TA45	Tools for Business Analytics	5	2	0	3	3	50	50	100
	Major Elective I								
SEMESTER-V									
19AF/MC/IA54	Individual Tax Assessment	4	4	1	0	3	50	50	100
19AF/MC/CF54	Computer Aided Financial Analysis	4	1	0	4	3	50	50	100
19AF/MC/SP54	Security Analysis and Portfolio Management	4	4	1	0	3	50	50	100
19AF/MC/IF54	Investment Banking and Financial Services	4	4	1	0	3	50	50	100
Interdisciplinary Core Course (B.Com(General) and A&F) to students of B.Com(Gen) and A&F									
19ID/IC/SI55	Social Finance and Impact Investing	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Com. DEGREE: ACCOUNTING AND FINANCE**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-VI									
19AF/MC/EF64	Entrpreneurial Finance	4	4	1	0	3	50	50	100
19AF/MC/BT64	Business Taxation	4	4	1	0	3	50	50	100
19AF/MC/AA64	Auditing and Assurance	4	4	1	0	3	50	50	100
19AF/MC/IB64	Introduction to Business Analytics	4	2	0	3	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV	2	2	0	0	-	50	-	100
	Major Elective II								
Major Elective Courses									
19AF/ME/RM45	Financial Risk Management	5	5	0	0	3	50	50	100
19AF/ME/TP45	Business Tax Planning and Procedures	5	5	0	0	3	50	50	100
19AF/ME/EC45	E-Commerce	5	5	0	0	3	50	50	100
19AF/ME/OP45	Organisation and People Management	5	5	0	0	3	50	50	100
19AF/ME/FV45	Financial Analysis and Business Valuation	5	5	0	0	3	50	50	100
General Elective Courses									
19AF/GE/SI22	Stock Market Investment	2	2	0	0	-	50	-	100
19AF/GE/CA22	Computerised Accounting System	2	1	0	1	-	50	-	100
19AF/GE/NF22	New Venture Finance	2	2	0	0	-	50	-	100
19AF/GE/PF22	Personal Financial Planning	2	2	0	0	-	50	-	100
Independent Elective Course									
19AF/UI/MF23	Marketing of Financial Products	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FINANCIAL REPORTING AND ANALYSIS**

**CODE: 19AF/MC/FR14**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the disclosure of information in financial statements
- To educate the students on the need for financial analysis and interpretation
- To facilitate students to understand the choices made by enterprises in reporting the results of business activities

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Prepare cash flow statement in accordance with accounting standards to aid in decision making
- Compute and interpret liquidity, profitability, solvency of the business concern
- Demonstrate competency in preparation of final accounts of a company and sole proprietor
- Comment on the financial position of the business concern

**Unit 1 (10 Hours)**

**Framework for Preparation and Presentation of Financial Statement**

- 1.1 Conceptual Framework of Accounting - Accounting as an Information System, Users and their Information Needs, Advantages of Computerized Accounting and Information System (AIS)
- 1.2 Accounting Standards - International Accounting Standards, Accounting Standards in India – Objectives, Process, Accounting Standards Board, Scope & Application of AS – 1,2,3,4,5,9,10,26 & 29 in preparation of Financial Statements

**Unit 2 (15 Hours)**

**Preparation of Financial Statements of Sole Proprietor**

- 2.1 Preparation of Final Accounts of Sole Proprietor and Manufacturing concerns
- 2.2 Closing Entries and Adjustment Entries – Loss of Stock by Accident or Fire, Manager's Commission on Net Profit Before and After Commission, Works Manager and General Manager Commission, Writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax

**Unit 3 (15 Hours)**

**Final Accounts of a Company**

- 3.1 Final Accounts of a Company- Preparation of Final Accounts- Forms and Contents as per Schedule- III of Companies Act 2013
- 3.2 Managerial Remuneration

**Unit 4 (15 Hours)**

**Cash Flow and Fund Flow Analysis**

- 4.1 Meaning and Importance of Cash Flow and Fund Flow
- 4.2 Significance and Limitations of Cash Flow and Fund Flow Statement
- 4.3 Preparation of Cash Flow and Fund Flow Statement as per AS 3

**Unit 5 (10 Hours)**

**Financial Statement Analysis**

- 5.1 Meaning of Financial Statements, Functions, Objectives and Process of Financial Statement Analysis and Interpretation
- 5.2 Ratio Analysis - Significance and Limitations of Ratio Analysis, Computation and Interpretation of Ratios - Liquidity, Profitability Solvency and Leverage Ratios – Intrafirm and Interfirm

**BOOKS FOR STUDY**

Gupta R.L. and Radhaswamy M., Advanced Accountancy (Vol.1), New Delhi: Sultan Chand & Sons, 2015  
Reddy, T.S and Murthy, A., Corporate Accounting (Vol.1), Chennai: Margham Publications, 2013  
Reddy, T.S and Murthy, A., Financial Accounting, Chennai: Margham Publications, 2012  
Reddy T.S and Hari Prasad Reddy, Y., Management Accounting, Chennai: Margham Publications, 2000

**BOOKS FOR REFERENCE**

Atkinson A. Anthony, Robert S. Kaplan, S. Mark Young, *Management Accounting*, Pearson, 6<sup>th</sup> Edition  
Maheshwari S.N., *Principles of Management Accounting*, New Delhi: Sultan Chand, 2015  
Manmohan and Goyal. S.N., *Principles of Management Accounting*, Agra: Sahitya Bhawan  
Goyal, V.K. and Goyal, Ruchi, *Financial Accounting*, New Delhi: PHI Learning, 4<sup>th</sup> Edition  
Jain S.P and Narang K.L, *Advanced Accountancy (Part I)*, New Delhi: Kalyani Publishers, 2016

**JOURNALS**

Indian Journal of Finance  
International Journal of Research in Commerce and Management  
Management Accountant - The ICWA of India

**WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)  
[www.cimaglobal.com](http://www.cimaglobal.com)  
[www.investopedia.com](http://www.investopedia.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 Minutes**

Section A  $3 \times 2 = 6$  (no choice)

Section B  $3 \times 8 = 24$  (from a choice of four)

Section C  $1 \times 20 = 20$  (from choice of two)

### **Other Components :**

**Total Marks: 50**

Open book test/Problem solving/Objective Test/Assignment

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  (Max. 50 words, 5 theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (From a choice of 7 Problems)

Section C –  $2 \times 20 = 40$  Marks (From a choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**MANAGEMENT PRINCIPLES AND APPLICATIONS**

**CODE: 19AF/MC/MP13**

**CREDITS:3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To expose students to the concepts of Management
- To provide the students a comprehensive understanding of the principles of management and its application
- To educate students on the need for competence, communication and leadership for working in the organisation
- To familiarise students with the current management practices

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Understand the fundamental concepts in management
- Analyse the various functions in managing the business
- Apply management theory as related to management function
- Acquire practical management skills necessary for higher organisational positions

**Unit 1 (12 Hours)**

**Overview of Management**

- 1.1 Meaning – Science or Art, Process, Managerial Functions and Roles
- 1.2 Approaches to Management – Classical, Quantitative, Behavioral, Contemporary
- 1.3 Management Thought – FW Taylor, Henry Fayol, Elton Mayo, Peter Drucker, Michael Porter, CK Prahalad
- 1.4 Trends and Challenges of Management in Global Scenario

**Unit 2 (10 Hours)**

**Planning**

- 2.1 Planning – Meaning Types and Process
- 2.2 Business Environment Analysis – Meaning, Types and Techniques (SWOT, PESTLE, BCG Matrix)
- 2.3 Decision Making – Meaning, Types and Techniques - Quantitative and Qualitative

**Unit 3 (10 Hours)**

**Organising**

- 3.1 Meaning and Types of Organisation
- 3.2 Process of Organising
- 3.3 Organisation Structure and Chart
- 3.4 Span of Control, Departmentation, Delegation and Decentralization

**Unit 4 (12 Hours)**

**Staffing and Directing**

- 4.1 Staffing – Recruitment, Selection, Induction, Training and Development
- 4.2 Motivation – Meaning and Theories (Maslow – Need Theory, Herzberg – Two Factor Theory)
- 4.3 Leadership – Meaning, Styles and Theories (Trait, Likert Behavioral, Managerial Grid, Fiedler Situational)
- 4.4 Communication – Meaning, Types, Process and Barriers

**Unit 5 (8 Hours)**

**Control**

- 5.1 Meaning and Importance of Control.
- 5.2 Process of Control Mechanism - MIS
- 5.3 Control Techniques – PERT, CPM, ROI, Budgetary Control

**BOOKS FOR STUDY**

Gupta, C. B., *Business Management*, New Delhi, Sultan Chand and Sons.  
Koontz, H. and Weihrich, H., *Essentials of Management*, Pearson Education.

**BOOKS FOR REFERENCE**

Robbins, S. and Coulter, M., *Management*, Pearson Education.  
Robbins, S. P. Decenzo, D.A., Bhattacharya, S. and Agrawal, M.M., *Fundamentals of Management: Essentials, Concepts and Applications*, Pearson Education.  
Drucker P. F., *Practice of Management*, Mercury Books, London.  
Singh, B.P. and Singh, A.K., *Essentials of Management*, Excel Books.  
Chhabra, T.N., *Essentials of Management*, Sun India.  
Griffin, R.W., *Management Principles and Application*, Cengage Learning 8. Luthans, F., *Introduction to Management*, McGraw Hill.

**JOURNALS**

European Journal of Business Management  
International Journal of Management Reviews  
Academy of Management Journal  
Management Science

**WEB RESOURCES**

[www.exed.hbs.edu](http://www.exed.hbs.edu)  
[www.hbr.org](http://www.hbr.org)  
[www.xlri.ac.in](http://www.xlri.ac.in)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice- Max 30 words)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven- Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM. DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**STATISTICS FOR BUSINESS DECISIONS**

**CODE: 19AF/AC/SB15**

**CREDITS: 5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To give the students a practical exposure to the various statistical tools.
- To assist students to arrive at rational decisions through systematic analysis and interpretation.
- To educate students on the effective and efficient application of various statistical tools associated with research.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Comprehend knowledge on standard statistical distributions.
- Demonstrate statistical thinking, training and approach to problem solving
- Understand and analyse large sample and small sample properties
- Apply statistical tools for research

**Unit 1 (12 Hours)**

**Descriptive Statistics**

- 1.1 Data Types – Univariate Summaries
- 1.2 Multivariate Summaries - Karl Pearson's Co-efficient of Correlation
- 1.3 Partial Correlation of First Order and Second Order Co-efficient Co- efficient of Multiple Correlations

**Unit 2 (14 Hours)**

**Test of Hypothesis**

- 2.1 Procedure for Testing Hypothesis
- 2.2 Test of Significance
- 2.3 Parametric and Non-Parametric Approaches
- 2.4 Test on Single Parametric Value – z Test, t Test
- 2.5 Test for Difference of Two Parametric Values
- 2.6 Variance Ratio Test
  - 2.6.1 One-way Classification Model – One-way ANOVA
  - 2.6.2 Two-way Classification Model – Two-way ANOVA

**Unit 3 (12 Hours)**

**Categorical data and Chi-square test**

- 3.1 Introduction to Categorical Data
- 3.2 Meaning and Conditions for Applying Chi- Square test
- 3.3 Application of Chi Square Test - Test of Goodness of Fit and Test of Independence - Yates Correction
- 3.4 Mc Nemar Test



**Unit 4** **(15 Hours)**

**Regression Models**

- 4.1 Simple Linear Regression
  - 4.1.1 Least square Estimation Formula
  - 4.1.2 Hypotheses Testing and confidence interval
- 4.2 Multiple Linear Regression
  - 4.2.1 Least square Estimation Formula
  - 4.2.2 Hypotheses Testing and confidence interval
- 4.3 Residual Analysis (Formula based)
- 4.4 Handling Indicator Predictors

**Unit 5** **(12 Hours)**

**Analysis of Time Series**

- 5.1 Utility and components of time series
- 5.2 Methods of measuring trend – Simple Averages, Semi-Averages, Moving Averages and Least Square
- 5.3 Measurement of seasonal variations

**BOOKS FOR STUDY**

Gupta S.P., *Statistical Methods*, New Delhi, Sultan Chand, 2017  
Agresti, A. *Categorical Data Analysis* (Vol. 482). John Wiley & Sons, 2003  
Montgomery, D.C., Peck, E. A. & Vining, G. G. *Introduction to Linear Regressions Analysis* Vol. 821. John Wiley & Sons. 2012

**BOOKS FOR REFERENCE**

Gupta, S. C. & Kapoor, V. C. *Fundamentals of Mathematical Statistics*, Sultan Chand & Sons, 2017.  
Agarwal, S. & Bharadwaj, *Business Statistics*, Kalyani Publications, Ludhiana.  
Agarwal Y.P., *Statistical Methods, Concepts, Applications and Computations*, New Delhi, Sterling, 2006.  
Beri, G.C., *Business Statistics*, New Delhi, Tata Mc Graw Hill , 2007  
Pillai, R.S.N. & Bagavathy, V., *Statistics*, New Delhi, Sultan Chand, 2014  
Sharma J.K., *Business Statistics*, New Delhi, 1<sup>st</sup> edition, Pearson Education, 2006

**JOURNALS**

Open Journal of Statistics - SEIRT  
Aligarh Journal of Statistics  
Journal of Applied Statistics  
Statistics Journal

**WEB RESOURCES**

[www.ststisticsofindia.com](http://www.ststisticsofindia.com)  
[www.indiastat.com](http://www.indiastat.com)  
[www.statsoft.com](http://www.statsoft.com)  
<http://statistics-help-for-students.com>

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – 3 x 2 = 6 Marks (No Choice)

Section B – 3 X 8 = 24 Marks (From a choice of Four Questions)

Section C – 1 x 20 = 20 Marks (From a choice of Two Questions)

**Other Components:****Total Marks: 50**

Open book tests/Assignments/Problem solving/Objective Test/Case Study Analysis

**End-Semester Examination:****Total Marks: 100****Duration: 3****hours**

Section A – 10 x 2 = 20 Marks (No Choice) (5 Theory questions and 5 Problems)

Section B – 5 x 8 = 40 Marks (From a choice of 7 questions)

(2 theory Questions and 5 Problems)

Section C – 2 x 20 = 40 Marks (from a choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19AF/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)

[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19AF/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**COST CONCEPTS AND METHODS**

**CODE: 19AF/MC/CC23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of the basic concepts of Cost Accounting
- To equip students with the skills required to analyse and evaluate information for cost ascertainment, control and decision making
- To provide comprehensive knowledge on the role of cost accounting in business management and value creation
- To expose the students to the practical applicability of Cost Accounting

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Demonstrate understanding of the fundamental concepts of Cost Accounting
- Prepare quotations for products incorporating the various components of Cost and Profit
- Understand the techniques of computing remuneration
- Compute the cost of services

**Unit 1 (10 Hours)**

**1.1 Introduction to Cost Accounting**

- 1.1.1 Scope and Objectives of Cost Accounting
- 1.1.2 Cost Centre and Cost Units, Methods of Costing
- 1.1.3 Elements of Cost and Classification of Cost

**1.2 Unit and Output Costing**

- 1.2.1 Meaning and Components of Cost Sheet
- 1.2.2 Computation of Total Cost and Profit
- 1.2.3 Preparation of Quotations

**Unit 2 (12 Hours)**

**2.1 Material Cost and Material Control**

- 2.1.1 Material Control – Meaning, Objectives, Computation of Material Cost and Accounting Treatment for Normal Loss, Abnormal Loss and Scrap
- 2.1.2 Purchase Control – Purchase Procedure
- 2.1.3 Stores Control -Techniques of Inventory Control, Economic Order Quantity, Level Setting

- 2.1.4 Issue Control - Stores and Material Records, Methods of Material Issue – First in First Out, Last in First Out, Average Cost- Simple and Weighted Average

## **2.2 Labour Cost**

- 2.2.1 Computation of Labour Cost, Treatment of Overtime and Idle time
- 2.2.2 Labor Turnover - Causes and Effects, Methods of Computation
- 2.2.3 Methods of Remuneration- Time Rate System, Piece Rate System-Taylor’ Merrick’s Differential Piece Rate System, Incentive Schemes – Halsey and Rowan Premium Plans

## **Unit 3 (10 Hours)**

### **Overheads**

- 3.1 Classification of Overhead Costs
- 3.2 Apportionment and Allocation of Overheads
  - 3.2.1 Primary Distribution of Overheads
  - 3.2.2 Secondary Distribution of Overheads- Direct Distribution, Reciprocal and Non Reciprocal Methods
- 3.3 Methods of Absorption of Overheads
  - 3.3.1 Direct Labour Hour Rate
  - 3.3.2 Machine Hour Rate
  - 3.3.3 Activity Based Overhead Absorption Rate

## **Unit 4 (10 Hours)**

### **4.1 Process Costing**

- 4.1.1 Meaning and Features of Process Costing
  - 4.1.2 Process Losses and Gains – Accounting Treatment of Normal and Abnormal Wastage and Abnormal Gain
  - 4.1.3 Inter-Process Profit
- ### **4.2 Joint and By Product Costing**

## **Unit 5 (10 Hours)**

### **5.1 Operating Costing**

- 5.1.1 Introduction to Operating Costing, Cost Unit in Operating Costing
- 5.1.2 Transport Costing

### **5.2 Contract Costing**

- 5.2.1 Features of Contract Costing
- 5.2.2 Accounting for Contracts

### **5.3 Activity Based Costing**

- 5.3.1 Features and Activity Based Cost Sheet

## **BOOKS FOR STUDY**

Jain S.P. and Narang K.L., *Cost Accounting Principles and Practice*, New Delhi: Kalyani Publishers, 2016

Reddy T.S and Hari Prasad Reddy Y., *Cost Accounting*, Chennai: Margham Publications, 2014



### **BOOKS FOR REFERENCE**

Khanna B.S., Pandey I.M., Ahuja G.K., Batra, S.C.L., Practical Costing, New Delhi: Sultan Chand, 2010

Maheshwari S.N., Problems and Solutions in Cost Accounting, New Delhi: Sultan Chand, 2012

Kishore, Ravi M., Cost & Management Accounting, 6th edition, New Delhi: Taxmann's, 2016

Tulsian, P.C. and Tulsian, Bharat, Cost Accounting, New Delhi: S. Chand & Company, 2010

### **JOURNALS**

The Management Accountant - The Institute of Cost Accountants of India

Indian Journal of Finance

Journal of Cost Accounting Research

### **WEB RESOURCES**

[www.accountingformanagement.com](http://www.accountingformanagement.com)

[www.accaglobal.com](http://www.accaglobal.com)

[www.icmai.in](http://www.icmai.in)

### **PATTERN OF ASSESSMENT**

#### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 Minutes**

Section A  $3 \times 2 = 6$  (no choice)

Section B  $3 \times 8 = 24$  (from a choice of four)

Section C  $1 \times 20 = 20$  (from choice of two)

#### **Other Components:**

**Total Marks: 50**

Open book test/Objective Test/Problem solving/Assignment

#### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  (Max. 50 words, 5 theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (From a choice of 7 Problems)

Section C –  $2 \times 20 = 40$  Marks (From a choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF MARKETING**

**CODE:19AF/MC/PM23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the intricacies of marketing principles
- To expose students to various concepts, tools and principles of marketing.
- To help students understand the macro role of marketing in society and micro role in business.
- To assist students in analysing the buying behavior of consumers and its impact on sales.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to:

- Identify various elements of marketing and its implications.
- Analyse factors influencing buying behavior of consumers and interpret it.
- Apply marketing concepts in practical situations.
- Develop Marketing Program for products and services.

**Unit 1 (8 Hours)**

**Introduction**

- 1.1 Meaning, Scope and Core Marketing Concepts
- 1.2 Functions of Marketing
- 1.3 Market Segmentation and Market Environment
- 1.4 Marketing Mix – 7 P's of Marketing

**Unit 2 (12 Hours)**

**Product Mix**

- 2.1 Meaning and Classification of Product
- 2.2 Product Management
- 2.3 New Product Development
- 2.4 Product Life Cycle

**Unit 3 (12 Hours)**

**Pricing and Place Mix**

- 3.1 Pricing
  - 3.1.1 Meaning and Factors Affecting Pricing
  - 3.1.2 Pricing Methods, Pricing Policies and Strategies
  - 3.1.3 Legal Implications on Pricing
- 3.2 Place
  - 3.2.1 Distribution – Meaning and Channels
  - 3.2.2 Factors affecting the Choice of Distribution

**Unit 4** (12 Hours)  
**Promotional Mix**

- 4.1 Integrated Marketing Communication- Meaning, Modes and Purposes
- 4.2 Tools for IMC - Advertising, Public Relations, Sales Promotion and Personal Selling
- 4.3 IMC Planning Process - Review of Market plan, Situational Analysis, Communication Process Analysis, Budget Determination and Evaluation

**Unit 5** (8 Hours)  
**Current Trends in Marketing**

- 5.1 Social Cause Marketing and Sports Marketing
- 5.2 Relationship Marketing and Diversity Marketing
- 5.3 Digital Marketing

**BOOKS FOR STUDY**

Kotler, Philip; Keller, Kevin Lane; Koshy, Abraham, and Mithileshwar Jha, *Marketing Management: A South Asian Perspective*, Pearson Education, 15<sup>th</sup> Edition, 2016.  
Rajan Nair and Sanjith Nair, *Marketing*, New Delhi, Sultan Chand & Sons, 13<sup>th</sup> Edition, 2015.

**BOOKS FOR REFERENCE**

Dr. R.L. Varshney, Dr. S.L. Gupta, *Marketing Management*, Himalaya  
Gandhi J.C. *Marketing*, New Delhi, Tata McGraw Hill, 2009  
Philip Kotler, *Marketing*, 12th edition, New Delhi, Prentice Hall of India, 2008  
William J. Stanton, Micheal J. Etzel, Bruce J. Walker, *Fundamentals of Marketing*, New Delhi, Mc Graw Hill, 2009  
Xavier, M. J., *Marketing in the New Millenium*, New Delhi, Vikas, 2009

**JOURNALS**

Indian Journal of Marketing  
International Journal of Marketing Studies  
International Journal of Research in Marketing  
International Journals of Marketing and Technology

**WEB RESOURCES**

<http://www.yourarticlelibrary.com>  
<https://www.boundless.com>  
<http://www.marketingsherpa.com>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 = 16 Marks (from a choice of three)  
Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:** **Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice- Max 30 words)  
Section B – 5 x 8 = 40 Marks (from a choice of seven- Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19AF/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FINANCIAL MANAGEMENT**

**CODE: 19AF/MC/FM34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

### **OBJECTIVES OF THE COURSE**

- To enable students to analyse financial data for internal reporting, control and effective decision-making.
- To provide students skills required for preparation of financial statements
- To expose students to the relevant accounting standards
- To enable students to interpret financial statements for managerial decision making

### **COURSE LEARNING OUTCOMES**

On the completion of the course, students will be able to

- Prepare cash flow statement in accordance with accounting standards to aid in decision making
- Compute and interpret liquidity, profitability, solvency and leverage ratios
- Demonstrate competency in preparation of final accounts of a company to determine profitability of a company
- Make appropriate adjustments to the final accounts of a sole proprietor and determine the correct profit of the concern

#### **Unit 1 (15 Hours)**

##### **Introduction**

- 1.1 Nature, Importance and Objectives of Financial Management
- 1.2 Scope of Financial Management – Profit Maximization and Wealth Maximization  
Traditional and Modern Approach
- 1.3 Functions of finance – Finance Decision, Investment Decision, Dividend Decision  
Organisation of finance function
- 1.4 Time value of money: Meaning – Rationale of Time Preference for Money –  
Future Value – Present Value

#### **Unit 2 (15 Hours)**

##### **Financing Decisions**

- 2.1 Cost of Capital – Meaning, Significance and Classification of Costs
- 2.2 Computation of Specific Cost of Capital, Cost of Debt, Cost of Preference Share  
Capital, Cost of Equity Share Capital and Cost of Retained Earnings,  
Computation of weighted Average and Marginal Cost of Capital
- 2.3 Leverages - Meaning, Types - EBIT-EPS Analysis, Degree of Operating  
Leverage, Degree of Financial Leverage, Degree of Combined Leverage,  
Indifference Point

2.4 Capital Structure - Meaning, Determinants, Theories - Net Income Approach, Net Operating Income Approach, Traditional Approach, MM Approach

**Unit 3 (10 Hours)**

**Investment Decisions**

3.1 Meaning, Importance and Process

3.2 Techniques of Capital Budgeting – Traditional Techniques: Payback Period – Accounting / Average Rate of Return, Discounted Techniques, Discounted Payback Period, Net Present Value, Internal Rate of Return, Profitability Index – NPV Vs. IRR – Capital Rationing

3.3 Risk Analysis in Capital Budgeting Decisions - Sources and Perspectives of Risk, Risk Adjusted Discount Rate, Certainty Equivalent, Coefficient of Variation and Decision Tree Analysis

**Unit 4 (15 Hours)**

**4.1 Working Capital Management**

4.1.1 Meaning, Definition, Concept, Types, Factors determining Working Capital

4.1.2 Computation of Working Capital Requirement

4.1.3 Operating Cycle – Meaning and Computation

**4.2 Dividend Decision**

4.2.1 Meaning, Types of Dividend Policies, Factors Influencing Dividend Policy

4.2.2 Forms of Dividend (Theory), Dividend Theories - Relevance Theories – Walter's Model, Gordon's Model, Irrelevance Theory, MM Hypothesis

**Unit 5 (10 Hours)**

**Sources of Finance**

5.1 Different Sources of Finance, Characteristics of Different Types of Long Term Debt and Equity Finance, Method of Raising Long Term Finance

5.2 Different Sources of short- term Finance

5.3 Internal fund as a source of finance

5.4 International sources of finance

5.5 Other sources of finance- Sale and lease back, Convertible debt, Venture capital, Grants etc.

5.6 Lease Financing - Concept and Classification, Significance and Limitations, Financial Evaluation of Leasing Decision

**BOOKS FOR STUDY**

Pandey I. M., *Financial Management*, New Delhi Vikas

Prasanna Chandra, *Fundamentals of Financial Management*, New Delhi, Tata McGraw Hill

**BOOKS FOR REFERENCE**

James C. Van Horne, *Financial Management and Policy*, New Delhi. Prentice Hall of India

Khan M.Y. and Jain P.K. *Basic Financial Management*, New Delhi. Tata McGraw Hill

Maheshwari S. N., *Financial Management*, New Delhi. Vikas

Ravi M. Kishore, *Taxmann's Financial Management*, New Delhi. K. L., Taxmann

**NOTE:** Recent Edition of Book to be used



## **JOURNALS**

Journal of Banking and Finance

Journal of Finance

Journal of Financial Economics

## **WEB RESOURCES**

[www.cfainstitute.org/cfaprogram](http://www.cfainstitute.org/cfaprogram)

[www.icaai.org](http://www.icaai.org)

[www.icsi.edu](http://www.icsi.edu)

[www.icwai.org](http://www.icwai.org)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – Answer all Questions

3 x 2 = 6 Marks

Section B – Answer any Two Questions from a choice of Four 3 x 8 = 24 Marks

Section C – Answer any One Question from a choice of Two 1 x 20 = 20 Marks

### **Other Component:**

**Total Marks: 50**

Open book tests/Assignments- Problem solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 (Max. 50 words, 5 theory and 5 Problems)

Section B – 5 x 8 = 40 Marks (From a choice of 7 Problems)

Section C – 2 x 20 = 40 Marks (From a choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**TOOLS FOR MANAGERIAL DECISION MAKING**

**CODE:19AF/MC/TD34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with financial data required for internal reporting and control
- To enable students to analyse and interpret the financial statements for Managerial decision making
- To expose students to management techniques for effective planning and forecasting
- To provide an overview of human resource accounting and responsibility accounting

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Prepare, analyse and interpret financial statements for managerial decision making
- Analyse cost-volume-profit relationship for better decision-making
- Identify variances and compute deviations
- Understand the importance of human resource accounting

**Unit 1 (10 Hours)**

**Management Accounting – A Decision Making Tool**

- 1.1 Meaning and Emergence of Management Accounting
- 1.2 Definition, Need, Importance and Objectives of Management accounting
- 1.3 Difference between Management Accounting and Financial accounting
- 1.4 Installation of Management Accounting System, Functions of Management Accountant

**Unit 2 (15 Hours)**

**Budgets and Budgetary Control**

- 2.1 Meaning of Budget, Essentials of Budget, Budget Manual, Budget Setting Process
- 2.2 The Use of Budget in Planning and Control
- 2.3 Classification of Budgets - Flexible Budget, Preparation of Functional Budget for Operating and Non-Operating Functions, Cash Budget, Master Budget

2.4 Introduction to Key Budget Factor, Zero Based Budgeting (ZBB),  
Performance Budget, Control Ratios and Budget Variance

**Unit 3 (15 Hours)**

**Marginal Costing and its Applications**

- 3.1 Definition, Meaning and Features of Marginal Costing
- 3.2 Cost Volume Profit Analysis – Contribution, Profit-Volume Ratio, Margin of Safety, Break-Even Point
- 3.3 Applications of Marginal Costing – Key Factor, Make or Buy, Plant Merger Decision, Product Mix or Sales Mix Decision, Export Decision, Selling below Cost Decision, Plant Purchase Decision, Product Elimination Decision

**Unit 4 (15 Hours)**

**Standard Costing and Variance Analysis**

- 4.1 Meaning -Standard Costing as a Management Tool - Limitations
- 4.2 Variance Analysis - Material, Labour, Overhead and Sales Variances

**Unit 5 (10 Hours)**

**5.1 Network Analysis**

- 5.1.1 Use of PERT and CPM in Decision Making
- 5.1.2 Calculation of Floats, Crashing – Time and Cost Overrun

**5.2 Responsibility Accounting**

- 5.2.1 Concept of Responsibility Accounting
- 5.2.2 Responsibility Centres – Cost Centre, Revenue Centre, Profit Centre, Investment Centre, Responsibility Performance Reporting.

**5.3 Recent Developments in Reporting**

- 5.3.1 Value Added Statement
- 5.3.2 Economic Value Added, Market Value Added, Shareholders' Value Added
- 5.3.3 Human Resource Accounting

**BOOKS FOR STUDY**

Maheshwari S.N., *Principles of Management Accounting*, New Delhi: Sultan Chand, 2007  
Reddy T.S and Murthy A, *Management Accounting*, Chennai: Margham Publications, 2018  
Vittal P.R and Malini.V, *Operations research*, Margham Publications, 2012

**BOOKS FOR REFERENCE**

Atkinson, Anthony A. and Kaplan, Robert, *Advanced Management Accounting*, Pearson Education India, 2015  
Walther, Larry M., *Managerial Accounting*, Createspace Publishers, 2018  
Horngreen, Charles T., Sundem, Gary L. and William O. Stratton, *Introduction to Management Accounting*, Prentice Hall of India, 2006  
Garison, R.H. and Noreeb, E.W., *Managerial Accounting*, McGraw Hill, 2000  
Hilton, Ronald W., *Managerial Accounting*, McGraw Hill Education, 2006  
Lal, Jawahar, *Advanced Management Accounting*, Text, Problems and Cases, New Delhi: S. Chand & Co., 2009  
Kapoor V.K *Operations Research*, SultanChand and Sons, 2018

## **JOURNALS**

Journal of Management Accounting  
Research. Management Accountant  
Journal  
Journal of Cost Accounting Research

## **WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)  
[www.cimaglobal.com](http://www.cimaglobal.com)  
[www.icmai.in](http://www.icmai.in)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 Minutes**  
Section A  $3 \times 2 = 6$  (no choice)  
Section B  $3 \times 8 = 24$  (from a choice of four)  
Section C  $1 \times 20 = 20$  (from choice of two)

**Other Components:**                                      **Total Marks: 50**  
Open book test/Problem solving/Objective tests/Assignment

**End-Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 hours**  
Section A –  $10 \times 2 = 20$  (No choice, max.30 words, 5 Theory 5 Problems)  
Section B –  $5 \times 8 = 40$  Marks (From a choice of 7 problems)  
Section C –  $2 \times 20 = 40$  Marks (From a choice of 4 problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS LAW**

**CODE:19AF/MC/BL33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To provide a brief idea about the framework of Indian business law.
- To familiarise the students with the principles of law that is essential to manage complex business transactions
- To provide the students an understanding on the working of Limited Liability Partnership.
- To expose students to the law pertaining to Intellectual Property Rights.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Identify various laws involved in business operations.
- Apply basic principles of law pertaining to business.
- Understand the operations of Limited Liability Partnership.
- Comprehend Laws pertaining to Intellectual Property Rights.

**Unit 1 (12 Hours)**

**Contract Act 1872**

- 1.1 Meaning and Types of Contract
- 1.2 Essentials of a Valid Contract- Offer and Acceptance, Consideration, Capacity of Parties, Free Consent, Legality of Object.
- 1.3 Performance of Contract
- 1.4 Discharge of Contract, Remedies for Breach of Contract

**Unit 2 (10 Hours)**

**Special Contracts**

- 2.1 Contract of Indemnity and Guarantee
  - 2.1.1 Difference between Indemnity and Guarantee
  - 2.1.2 Rights, Liabilities and Discharge of Surety
- 2.2 Contract of Bailment and Pledge
  - 2.2.1 Rights and Duties of Bailor and Bailee, Pledger and Pledge
  - 2.2.2 Termination of Bailment.

**Unit 3 (10 Hours)**

**Sale of Goods Act 1930**

- 3.1 Essentials of a Contract of Sale
- 3.2 Conditions and Warranties
- 3.3 Transfer of Ownership and Delivery of Good
- 3.4 Performance of Contract of Sale.
- 3.5 Rights of an Unpaid Seller

**Unit 4 (10 Hours)**

**Limited Liability Partnership Act, 2008 (LLP)**

- 4.1 Salient Features of LLP, Difference Between LLP, Partnership and Company
- 4.2 Partners and Designated Partners – Relations
- 4.3 Incorporation - Incorporation by Registration, Registered Office of LLP and Change of Name, Extent and Limitation of Liability of LLP and Partners
- 4.4 Conversion to LLP, Winding Up and Dissolution

**Unit 5 (10 Hours)**

**Law Relating to Intellectual Property**

- 5.1 Provisions Relating to Patents, Trademarks and Copyrights
- 5.2 Overview of Laws Relating to other Intellectual Property Rights
- 5.3 Enforcement of Intellectual Property Rights

**BOOKS FOR STUDY**

Kapoor N.D. *Business Law*. New Delhi: Sultan Chand & Sons, 2019.  
Pillai N.P.N., Bhagavathy, *Legal Aspects of Business*, New Delhi, S.Chand, 2013

**BOOKS FOR REFERENCE**

Tulsian, P.C, *Business Law*, Tata McGraw Hill, New Delhi.  
Sharma, J.P., and Kanojia, Sunaina. *Business Laws*, Ane Books Pvt. Ltd., New Delhi.  
Chadha, P.R, *Business Law*, Galgotia Publishing Company, New Delhi  
Maheshwari & Maheshwari, *Business Law*, National Publishing House, New Delhi.

**JOURNALS**

Indian Business Law Journal  
A.P.L.J. Andhra Pradesh Law Journal  
Journal of Business Law Limited Partnership  
Journal of Intellectual Property Rights

**WEB RESOURCES**

[www.legalservicesindia.com](http://www.legalservicesindia.com)  
[www.indilaw.com](http://www.indilaw.com)  
[www.amritt.com](http://www.amritt.com)  
[www.niscair.res.in](http://www.niscair.res.in)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 = 16 Marks (from a choice of three)  
Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components: Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice- Max 30 words)  
Section B – 5 x 8 = 40 Marks (from a choice of seven- Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS ETHICS AND CORPORATE GOVERNANCE**

**CODE:19AF/MC/BE33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the understanding and practices of business ethics.
- To provide the students an understanding of ethical issues related to business and governance necessary for long term survival of business.
- To acquaint students with the socially responsible activities undertaken by the corporate companies.
- To give the students a comprehensive framework of corporate governance.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify basic ethical issues in various aspects of business.
- Gain insights on various socially responsible activities undertaken by the corporate companies.
- Comprehend the practices of corporate governance.
- Apply corporate governance principles in business practice.

**Unit 1 (10 Hours)**

**Introduction to Business Ethics**

- 1.1 Meaning, Scope and Objectives of Business Ethics
- 1.2 Business Ethics in Globalised Environment
- 1.3 Ethical Dilemma in Business

**Unit 2 (12 Hours)**

**Business and Ethical Environment**

- 2.1 Ethical Issues in Finance - Issues Related to Financial Services, Insider Trading and Takeovers
- 2.2 Ethical Issues in Marketing and Advertising
- 2.3 Ethical Issues in Management- Morals of Ethics for Organizational Interests, Ethical and Social Implications of Business Policies and Decisions
- 2.4 Whistle Blowing and Whistle Blower's Protection

**Unit 3 (10 Hours)**

**Corporate Governance**

- 3.1 Meaning, Definition and Functions
- 3.2 Management Structure for Corporate Governance
- 3.3 Boards of Directors – Responsibilities and Legal Requirements

**Unit 4 (10 Hours)**

**Corporate Governance in Global Scenario**

- 4.1 Corporate Governance Requirements in Global Scenario
- 4.2 Global Practices: Cadbury Report – Organisation for Economic Co-Operation and Development (OECD) Committee Recommendations
- 4.3 Desirable Corporate Governance in India – A Code Summary of the SEBI
- 4.4 Naresh Chandra Committee on Corporate Audit and Governance – Case Studies

**Unit 5 (10 Hours)**

**Corporate Social Responsibility**

- 5.1 Meaning, Importance of CSR and Legal Requirements
- 5.2 Corporate Sustainability and CSR
- 5.3 Managing Environmental Issues
- 5.4 Sustainability Reporting – Triple Bottom Line

**BOOKS FOR STUDY**

Andrew Crane Dirk Matten, *Business Ethics*. New Delhi: Oxford University Press, 4<sup>th</sup> edition, 2016

Fernando, A.C., *Corporate Governance – Principles, Policies & Practice*. Pearson.

Joan R. Boatright. *Ethics and the Conduct of Business*. 7<sup>th</sup> edition. Pearson, 2016

**BOOKS FOR REFERENCE**

Dr. K. Nirmala, Karunakara Readdy : *Business Ethics and Corporate Governance*, Himalaya Publishing House

Christine, A Mallin. *Corporate Governance* (Indian Edition). New Delhi: Oxford University Press.

Kotler, Philip and Nancy Lee. *Corporate Social Responsibility – Doing the Most Good for Your Company and Your Cause*. Wiley – India.

Mathur, O U.C. *Corporate Governance & Business Ethics*. Macmillan.

Subhash Chandra Das, *Corporate Governance in India*. PHI.

**NOTE:** Latest edition of Books to be used.

**JOURNALS**

International Journal of Management Reviews

International Journal on Corporate Strategy and Social Responsibility

SSRN – E Journal

**WEB RESOURCES**

[www.ibscdc.org](http://www.ibscdc.org)

[www.exed.hbs.edu](http://www.exed.hbs.edu)

[www.hbr.org](http://www.hbr.org)

[www.ddceutkal.ac.in](http://www.ddceutkal.ac.in)



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

### **Other Components:**

**Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice- Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven- Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CORPORATE ACCOUNTING AND RESTRUCTURING**

**CODE: 19AF/MC/CR44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To expose students to the accounting practices in specific industries
- To acquaint students with the accounting procedures for mergers and acquisitions
- To equip students with the ability to prepare consolidated financial statements
- To provide an understanding of the provisions relating to liquidation of a company

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Prepare the consolidated financial statements of Holding Companies
- Identify the differences between Amalgamation, Absorption and External Reconstruction
- Understand the role of corporate restructuring for revival of business
- Gain a practical insight in the process of liquidating a company

**Unit 1 (10 Hours)**

**Valuation of Shares and Goodwill**

- 1.1 Meaning, Need and Factors to be considered for valuing Goodwill and Shares
- 1.2 Methods of Valuation of Shares - Intrinsic Value, Yield Value, Earning Capacity and Fair Value
- 1.3 Methods of Valuation of Goodwill – Average Profits, Super Profit, Capitalization of Super Profit and Annuity Method.

**Unit 2 (15 Hours)**

**Holding Company Accounts**

- 2.1 Preparation of Consolidated Balance Sheet – Calculation of Minority Interest, Capital Profit and Goodwill or Cost of Control
- 2.2 Intercompany Owings with One Subsidiary Company
- 2.3 Dividend Received and Bonus Shares

**Unit 3 (15 Hours)**

**External Reconstruction**

- 3.1 Meaning and Difference
- 3.2 Calculation of Purchase Consideration for Amalgamation in the Nature of Merger and Purchase
- 3.3 Accounting Entries and Preparation of Balance Sheet

**Unit 4****(15 Hours)****Internal Reconstruction**

- 4.1 Alteration of Share Capital – Types – Accounting Procedure.
- 4.2 Alteration, Reduction of Share Capital, Surrender and Forfeiture, Buy Back, Bonus and Rights issue
- 4.3 Accounting Entries and Preparation of Balance Sheet after Internal Reconstruction

**Unit 5****(10 Hours)****Winding Up of Company**

- 5.1 Legal Provision under Companies Act 2013 and Insolvency Bankruptcy Code 2016
- 5.2 Types of Winding Up
  - 5.2.1 Compulsory Winding Up by the Court
  - 5.2.2 Voluntary Winding Up by Members or Creditors
  - 5.2.3 Winding up Under the Supervision of the Court
  - 5.2.4 Statement Relating to IBC

**BOOKS FOR STUDY**

Reddy, T.S. Murthy, A., *Corporate Accounting Vol II Revised*, Chennai: Margham Publications, 2016

Maheshwari, S.N., Maheshwari, Suneel K., and Maheshwari, Sharad K., *Corporate Accounting*, Vikas Publishing House, 2018

**BOOKS FOR REFERENCE**

Goyal, V.K. and Goyal, Ruchi, *Corporate Accounting*, Prentice Hall Learning, 2012

Shukla, S.M. and Gupta, K.L., *Corporate Accounting*, Sahitya Bhawan Publications, 2018

Gupta, R.L. and Radhaswamy, M., *Corporate Accounting* Vol. I and II, Sultan Chand & Sons, 2013

Jain, S.P. Narang, K.L., *Advanced Accountancy Corporate Accounting* Vol. II, Kalyani Publishers, 2014

Hanif, M. and Mukherjee, A., *Corporate Accounting*, McGraw-Hill Education, 2017

**JOURNALS**

Advances in Accounting

Journal of Finance

Indian Journal of Commerce

Journal of Corporate Accounting and Finance

**WEB RESOURCES**

[www.icai.org](http://www.icai.org)

[www.emeraldgrouppublishing.com](http://www.emeraldgrouppublishing.com)

[www.journals.elsevier.com](http://www.journals.elsevier.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A  $3 \times 2 = 6$  (no choice)

Section B  $3 \times 8 = 24$  (from a choice of four)

Section C  $1 \times 20 = 20$  (from choice of two)

### **Other Components:**

**Total Marks: 50**

Quiz/Objective Test/Assignments/Problem Solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2$  (No choice, max. 30 words, 5 Theory 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (From a choice of 7 Problems)

Section C –  $2 \times 20 = 40$  Marks (From a choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BANKING AND INSURANCE**

**CODE: 19AF/MC/BI43**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To expose students to the concept and practices adopted in the banking industry.
- To educate students about the practical relevance and importance of banking.
- To expose students to various concepts of both life and general insurance.
- To provide a basic understanding of the insurance mechanism.
- To provide an overview of life and general insurance products.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Obtain institutional and practical knowledge in the fields of banking and insurance.
- Acquire skills and competencies required to be employed in banking and insurance companies.
- Differentiate financial statements of different companies
- Understand the recent developments in the financial system of the country

**Unit 1 (10 Hours)**

**Introduction to Banking**

- 1.1 Meaning, Definition and Developments of Commercial Banking
- 1.2 Banking Functions and Services – Fund Based and Fee based
- 1.3 Banking Practices – Opening and Closing of Bank Accounts, Documents relating to Banking Transactions
- 1.4 Negotiable Instruments - Cheque, Promissory Note and Bills of Exchange

**Unit 2 (10 Hours)**

**Developments in banking**

- 2.1 E-Banking – Meaning, Importance, Merits and Demerits
- 2.2 Internet Banking, Mobile Banking, Tele-Banking, Rural Banking and Retail Banking
- 2.3 Debit card, Credit card, ATM Card, Digital Wallet and Smart card
- 2.4 Electronic Payment System - Electronic Clearing Service and Electronic Fund Transfer

**Unit 3 (10 Hours)**

**Banking Company Accounts**

- 3.1 Treatment of Rebate on Bills Discounted

- 3.2 Computation of Provision to be made for Advances
- 3.3 Computation of Profit and Loss Account with Schedules
- 3.4 Preparation of Balance sheet with Schedules

**Unit 4 (11 Hours)**

**Introduction to Insurance**

- 4.1 Insurance: Definition, Need, Functions & Principles
- 4.2 Types of Insurance Products - Life & General insurance
- 4.3 Intermediaries in Insurance Contracts and Procedure for Settlement of Claims
- 4.4 Overview of Insurance Regulatory and Development Authority Act 1999

**Unit 5 (11 Hours)**

**Insurance Company Accounts**

- 5.1 Accounts of General Insurance
- 5.2 Accounts of Life insurance Companies

**BOOKS FOR STUDY**

Gurusamy. S, *Financial Services*, Tata McGraw Hill Education Pvt. Ltd  
 Sundaram K.P.M. and Varshney P. N., *Banking Theory Law and Practice*, 18th Edition, New Delhi, Sultan Chand & Sons, 2015

**BOOKS FOR REFERENCE**

Sethi, J., & Bhatia, N. *Elements of Banking and Insurance*. New Delhi, India: PHI Learning Private Limited. 2012.  
 Gurusamy S. *Financial Services and Markets*, Chennai, Vijay Nicole Imprints Pvt. Ltd., 2014.  
 Khan M.Y., *Financial Services*, Second Edition, New Delhi, Tata McGraw Hill Publishing Pvt. Ltd., 2013.  
 Machiraju H. R. Second Edition, *Indian Financial System*, New Delhi, Vikas Publishing House Pvt. Ltd, 2019.  
 Bhalla. V.K., *Management of Financial Services*, 1<sup>st</sup> edition, New Delhi, Anmol Publications Pvt. Ltd., 2006.  
 Gupta, P. K. (2012). *Fundamentals of Insurance*. New Delhi: Himalaya Publishing House.  
 Insurance Institute of India, *Principles of Insurance*, Mumbai.

**JOURNALS**

Asian Journal of Research in Banking and Finance  
 Indian Journal of Finance  
 Journal of Banking, Information Technology and Management  
 Journal of Bank Management

**WEB RESOURCES**

<https://www.india-financing.com/indo1.html>  
<http://www.languages.ind.in/factoring.htm>  
<http://www.rbi.org.in/scripts/PublicationReportDetails.aspx?ID=243>  
<https://www.irda.gov.in/>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A -  $3 \times 2 = 6$  (No choice)

Section B -  $3 \times 8 = 24$  (from a choice of Four Questions)

Section C -  $1 \times 20 = 20$  (from choice of Two Questions)

### **Other Components:**

**Total Marks: 50**

Problem Solving/Quiz/Assignments

### **End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (No choice) (6 Theory Questions and 4 Problems)

Section B –  $5 \times 8 = 40$  Marks (From a choice of Seven Questions) (Five theory and Two Problems)

Section C –  $2 \times 20 = 40$  Marks (From a choice of Four Questions, Two Theory and Two Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CORPORATE AND SECURITIES LAWS**

**CODE:19AF/MC/CS43**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To familiarise the students with the law relating to management of a company
- To provide the students an overview of securities contract law
- To educate the students on the roles and responsibilities of Securities and Exchange Board of India

**COURSE LEARNING OUTCOME**

On successful completion of the course, the students will be able to:

- Comprehend the legal provisions relating to formation of a company
- Understand the method of raising capital by the company.
- Identify laws pertaining to investing in stock markets.
- Comprehend the laws pertaining to listing of securities.

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Definition, Characteristics and Types of Company
- 1.2 Lifting of the Corporate Veil
- 1.3 Incorporation of a Company
- 1.4 Memorandum of Association and Articles of Association

**Unit 2 (10 Hours)**

**Raising of Capital**

- 2.1 Prospectus – Definition, Contents, Mis-statements in Prospectus and Consequences
- 2.2 Shares - Meaning, Nature and Types of Shares, Application and Allotment, Transfer and Transmission of Shares
- 2.3 Debentures-Nature and Classes of Debentures

**Unit 3 (12 Hours)**

**Management and Administration**

- 3.1 Board of Directors – Appointment, Removal, Powers, Duties and Liabilities
- 3.2 DIN, Number of Directorship, Women Directors and Independent Directors
- 3.3 Annual General Meeting and Extraordinary General Meeting – Frequency, Quorum, Agenda and Voting; Board Meetings – Video Conferencing and Other Audio-Visual Aids
- 3.4 Resolutions - Types



**Unit 4** **(10 Hours)**

**Competition Act 2000 and FEMA 1999**

- 4.1 Object of the Act - Competition Act Vs The Monopolistic Restrictive Trade Practices Act
- 4.2 Definitions: Acquisition, Agreement, Cartel, Commission, Consumer, Enterprise, Price, Relevant, market Trade, Turnover
- 4.3 Prohibition of Certain Agreements, Abuse of Dominant Position and Regulation of Combinations; Establishments of Competition Commission; Duties Powers and Functions of Commission.
- 4.4 FEMA 1999 - Definitions: Adjudicating Authority, Authorized Person, Capital Account Transaction, Current Account Transaction, Currency, Currency Notes, Foreign Currency, Foreign Exchange, Person Resident In India Person Resident outside India.
- 4.5 Capital Account and Current Account Transactions – Compliances - Government of India, Rules, Prohibited List, matters which requires approval from Government of India and/or RBI, Capital Account Transactions - Permissible Transactions by Persons resident outside India, Prohibition on Investment Outside India of Capital Account Transaction

**Unit 5** **(10 Hours)**

**Securities Contract Regulation Act 1956 and SEBI 1992**

- 5.1 Objects of Securities Contract Regulation Act
- 5.2 Listing and Delisting of Securities
- 5.3 Penalties and Procedures
- 5.4 Objects, Powers and Functions of SEBI
- 5.6 SEBI Guidelines for the Issue of Shares
- 5.7 Insider Trading
- 5.8 Adjudication and Penalties

**BOOKS FOR STUDY**

Kapoor, N.D. *Company Law*. New Delhi: Sultan Chand, 2015  
Khan M.Y. *Indian Financial System*: McGraw Hill, 9<sup>th</sup> edition

**BOOKS FOR REFERENCE**

Bhandari, Munish Professional. *Approach to Corporate Laws and Practice*. New Delhi: Bharat Law House.  
Baby, Agarwal, *SEBI Act*, Taxman Publishing, 2011.  
Pillai, Bagavathy, *Legal Aspects of Business*, S Chand Publication, 2011.  
Pandab, S.K. *Company Law & Practice*. New Delhi: Bharat Law House,

**JOURNALS**

Indian Journal of Law and Technology  
Symbiosis Contemporary Law Journal  
SEBI Corporate Laws

**WEB RESOURCES**

[www.taxguru.in](http://www.taxguru.in)  
[www.lawctopus.com](http://www.lawctopus.com)  
[www.indialawworld.Co](http://www.indialawworld.Co)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

### **Other Components:**

**Total Marks: 50**

Seminar/Group Discussion/Assignments

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice- Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven- Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FINANCIAL COMMUNICATION**

**CODE:19AF/MC/FC43**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To provide students with an overview of financial communication
- To educate students on the need for dissemination of true and fair information
- To expose students to the current financial communication practices
- To provide students with an insight into the risks, opportunities and expectations of financial communication

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the need for financial communication and its core principles
- Understand the role of financial communication for amicable investor relations
- Describe the issues, threats, opportunities and expectations of financial communication in the online world
- Demonstrate knowledge of the skills required for a successful investor relations officer

**Unit 1 (10 Hours)**

**General Principles of Financial Communication**

- 1.1 Financial Communication – Meaning
- 1.2 Principle of Equal Access to Information, Principle of Consistency
- 1.3 Dissemination of Accurate, True and Fair Information and Regulatory Information
- 1.4 Financial Communication Language

**Unit 2 (10 Hours)**

**Framework for Financial Communication**

- 2.1 Disclosures of Periodic Information, Estimates or Prospective Information
- 2.2 Events Associated with a Company's Business, Events Affecting Shareholding Structure
- 2.3 Risks and Litigation
- 2.4 Rumours and Leaked Information

**Unit 3 (10 Hours)**

**Financial Communication Practices**

- 3.1 Calendar and Organization
- 3.2 Financial Marketing and Targeting
- 3.3 Implementation of Financial Communication
- 3.4 Providing Management with Feedback on Market Perceptions

**Unit 4** (10 Hours)

**Financial Communication and Investor Relations**

- 4.1 Financial Analysts and their Role in Financial Communication and Investor Relations
- 4.2 Measurement and Evaluation of Investor Relations and Financial Communication Activities
- 4.3 Risks, Opportunities and Expectations of Financial Communication in an Online World

**Unit 5** (12 Hours)

**Ethics in Financial Communication and Investor Relations**

- 5.1 Stakeholder Expectations, Corporate Social Responsibility, and Principle-Based Analysis
- 5.2 Skills required to be a Successful Investor Relations Officer
- 5.3 Financial and Investor Relations for Start-Up Businesses and Emerging Companies
- 5.4 Issues Management in Investor Relations and Financial Communication
- 5.5 An Overview on Right to Information Act

**BOOKS FOR STUDY**

Laskin, Alexander V, *The Handbook of Financial Communication and Investor Relations*, Wiley-Blackwell, 2017  
Prat, Bredin, *Financial Communication: Framework and Practices*, Cliff Investor Relations, 2018

**BOOKS FOR REFERENCE**

Halff, Gregor, *Introduction to Financial Communication*, Routledge Publications, 2017  
Westbook, Ian, *Strategic Financial and Investor Communication*, Routledge Publications, 2014  
Damodaran, A., *Narrative and Numbers: The Value of Stories in Business*, Columbia University Press, 2017

**JOURNALS**

Journal of Financial Markets  
International Journal of Strategic Communication

**WEB RESOURCES**

[www.thefcs.org](http://www.thefcs.org)  
[www.rmit.edu](http://www.rmit.edu)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A  $7 \times 2 = 14$  (no choice)  
Section B  $2 \times 8 = 16$  (from a choice of three)  
Section C  $1 \times 20 = 20$  (from choice of two)

**Other Components**

**Total Marks: 50**

Case studies/Class Presentation/Group Discussion/Assignment

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A  $-10 \times 2 = 20$  (No choice, Max. 30 words)  
Section B  $-5 \times 8 = 40$  Marks (From a choice of 7 - Max. 500 words)  
Section C  $-2 \times 20 = 40$  Marks (From a choice of 4 - Max. 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019– 2020)

**TOOLS FOR BUSINESS ANALYTICS**

**CODE: 19AF/AC/TA45**

**CREDITS:5**

**LTP: 2 0 3**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce students to the effective usage of R for data analysis
- To acquaint students with the software necessary for a statistical programming environment
- To create an exposure on practical issues in statistical computing with R
- To expose students to the implementation of statistical procedures within the R environment
- To acquaint students with the skills required in flexible matrix manipulation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Access online resources for R and import new function packages into the R workspace
- Import, review, manipulate and summarize data-sets in R
- Explore data-sets to create testable hypotheses and identify appropriate statistical tests
- Perform appropriate statistical tests using R

**Unit 1 (8 Hours)**

**Introduction to Computing with R**

- 1.1 Overview of R, Reading and Writing Data
- 1.2 Control Statements and Functions
- 1.3 Packages in R
- 1.4 Functional Programming in R

**Unit 2 (12 Hours)**

**Computational Mathematics with R**

- 2.1 Graphics of Mathematical Functions in R
- 2.2 Matrix Operations
- 2.3 Computational Calculus
- 2.4 Application of Numerical Methods

**Unit 3 (15 Hours)**

**Descriptive Analytics**

- 3.1 Data Types, Univariate and Multivariate Summaries
- 3.2 Test on Single Parametric Value, Test for Difference of Two or More Parametric Values
- 3.3 Parametric and Non-Parametric Approaches
- 3.4 Visual and Numerical Presentation

**Unit 4** **(15 Hours)**

**Model Building**

- 4.1 Linear Regression and Classification, Polynomial Regression
- 4.2 Random Forest, Support Vector Machines
- 4.3 Neural Network, Factor Analysis, Principal Component Analysis
- 4.4 Clustering, Discriminant Analysis

**Unit 5** **(15 Hours)**

**Special Topics and Dynamic Reporting**

- 5.1 Time Series Models, Longitudinal Data Models
- 5.2 Introduction to R Mark Down, Introduction to Shiny
- 5.3 Inputs, Outputs, and Rendering Functions
- 5.4 Introduction to Technical Publications

**BOOKS FOR STUDY**

Jacques, Ian, *Mathematics for Economics and Business*, Pearson Education, 2009  
James, G., Witten, D., Hastie, T., & Tibshirani, R., *An Introduction to Statistical Learning*, Springer Publications, 2013

**BOOKS FOR REFERENCE**

Kabakoff, Robert I, *R In Action – Data Analysis and Graphics with R*, Manning Publications, 2015  
Wickham, Hadley and Golemund, Garrett, *R for Data Science*, Schroff/O'Reilly Publications, 2017  
Gardener, Mark, *Beginning R: The Statistical Programming Language*, John Wiley & Sons, 2012  
Lander, Jared P., *R for Everyone: Advanced Analytics and Graphics*, Pearson Education, 2014

**JOURNALS**

The R Journal  
International Journal of Data Science and Analytics  
EPJ Data Science  
Chance  
Journal of Data Science

**WEB RESOURCES**

[www.rstudio.com/online-learning/](http://www.rstudio.com/online-learning/)  
[zoonek2.free.fr/UNIX/48\\_R/all.html](http://zoonek2.free.fr/UNIX/48_R/all.html)  
[www.r-bloggers.com/](http://www.r-bloggers.com/)  
<https://stats.idre.ucla.edu/r/>

**PATTERN OF ASSESSMENT****Continuous Assessment Test:  
(Practical)****Total Marks: 50****Duration: 90 minutes**Section A  $4 \times 5 = 20$  (no choice)Section B  $3 \times 10 = 30$  (from a choice of three)**Other Components:****Total Marks: 50**

Project and Viva

**End-Semester Examination:  
(Practical)****Total Marks: 100****Duration: 3 hours**Section A  $-8 \times 5 = 40$  (No choice)Section B  $-6 \times 10 = 60$  Marks (From a choice of 8)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INDIVIDUAL TAX ASSESSMENT**

**CODE:19AF/MC/IA54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the Income Tax Structure and its complexities.
- To equip students with knowledge and broad conceptual framework for determining the taxable income and tax liability of an individual
- To educate students on tax planning and tax saving strategies

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate knowledge of concepts, principles and rules of taxation of individuals
- Compute the income of individuals under different heads of income and determine tax liability
- Recognize tax planning opportunities and recommend tax-saving strategies
- Compute total income and tax liability

**Unit 1 (10 Hours)**

**Introduction to Taxation**

- 1.1 Meaning of Tax, Importance and Features of Taxation
- 1.2 Types of Tax – Direct and Indirect
- 1.3 Basic concepts – Person, Assessee, Assessment year, Previous year, Total income, Taxable Income
- 1.4 Residential Status and Incidence of Tax

**Unit 2 (15 Hours)**

**2.1 Computation of Salary income**

- 2.1.1. Definition, Meaning, Basis of Charge
- 2.1.2. Allowances – Taxable and Exempted
- 2.1.3. Perquisites, Other Receipts and Treatment of Provident Fund
- 2.1.4. Deductions

**2.2 Computation of Income from House Property**

- 2.2.1 Basis of Charge
- 2.2.2 Computation of House Property Income
- 2.2.3 Deductions



**Unit 3 (15 Hours)**

**Profits and Gains of Business or Profession**

- 3.1 Computation of Professional Income
- 3.2 Depreciation – Meaning and Relevance – Computation
- 3.3 Computation of Business Income

**Unit 4 (15 Hours)**

**4.1 Capital Gains**

- 4.1.1 Meaning of Capital Asset - Types of Capital Asset
- 4.1.2 Computation of Short Term and Long Term Capital Gains
- 4.1.3 Exempted Capital Gains

**4.2 Income from Other Sources**

- 4.2.1 Basis of Charge, Casual and Other Income
- 4.2.2 Computation of Taxable Income from Other Sources

**Unit 5 (10 Hours)**

**Computation of Total Income**

- 5.1 Set-off and Carry Forward of Losses
- 5.2 Clubbing of Income
- 5.3 Deductions - Individual
- 5.4 Computation of Tax Liability

**BOOKS FOR STUDY**

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi: Kalyani Publishers  
Singhania, Vinod K. and Singhania, Monica, *Students' Guide to Income Tax*, New Delhi:  
Taxmann Publication

**BOOKS FOR REFERENCE**

Dinkar Pagare, *Law and Practice of Income Tax*, New Delhi: Sultan Chand Publications  
Ahuja, Girish and Gupta, Ravi, *Systematic Approach to Income Tax*, New Delhi: Bharat Law House  
Lal B.B. and Vashisht, N., *Income Tax Law and Practice*, New Delhi: IK International Publishing House  
Mehrotra, H.C., *Income Tax Law and Accounts*, Agra: Sahitya Bhawan Publications  
Singhania, Vinod K. and Singhania, Monica, *Students' Guide to Income Tax*, New Delhi: Taxmann Publication

**NOTE:** Latest edition of the readings may be used

**JOURNALS**

Journal of Taxation  
Journal of Accounting and Taxation  
Journal of Indian Taxation

**WEB RESOURCES**

[www.incometaxindia.gov.in](http://www.incometaxindia.gov.in)  
[www.taxlawsonline.com](http://www.taxlawsonline.com)  
[www.taxmann.com](http://www.taxmann.com)

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**Section A  $3 \times 2 = 6$  (no choice)Section B  $3 \times 8 = 24$  (from a choice of four)Section C  $1 \times 20 = 20$  (from choice of two)**Other Components:****Total Marks: 50**

Open book test/Problem solving/Assignment/Objective Test

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A –  $10 \times 2 = 20$  Marks (max. 30 words, 5 theory and 5 Problems)Section B –  $5 \times 8 = 40$  Marks (From a choice of 7 Problems)Section C –  $2 \times 20 = 40$  Marks (From a choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COMPUTER AIDED FINANCIAL ANALYSIS**

**CODE: 19AF/MC/CF54**

**CREDITS: 4**

**L T P: 1 0 4**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To give a practical exposure on tools adopted for financial analysis
- To educate on the effective and efficient application of various statistical tools associated with research in business fields
- To generate Accounting reports in Tally

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Develop critical and analytical thinking and problem solving skills.
- Apply SPSS and Excel in statistical analysis
- Analyze real life data and draw logical conclusions
- Apply in business research

**Unit 1 (15 Hours)**

**Accounting Package - Tally**

- 1.1 Introduction to Tally
- 1.2 Creation, Alteration and Deletion of a Company
- 1.3 Creation, Alteration and Deletion of Groups and Ledgers
- 1.4 Accounting Vouchers – Types, Voucher Entry
- 1.5 Preparation of Financial Statements – Day Book, Trial Balance, Profit and Loss Account and Balance Sheet - Moving Data to Excel from Tally

**Unit 2 (15 Hours)**

**Analysis using MS Excel**

- 2.1 Introduction to Excel
- 2.2 Formatting Worksheets
- 2.3 Mathematical and Statistical Operations, Text, Logical, Lookup and References using Excel Functions
- 2.4 Presentation of Data in MS Excel using Graph, Tables and PIVOT table
- 2.5 Named Ranges in MS Excel

**Unit 3 (10 Hours)**

**Financial Statement Analysis and Business Forecasting using Excel**

- 3.1 Techniques of Financial Statement Analysis
  - 3.1.1 Comparative Statements
  - 3.1.2 Common Size Statements
  - 3.1.3 Trend Percentages
- 3.2 Preparation of Master Budgets
- 3.3 Cash Flow Analysis

**Unit 4 (10 Hours)**

**Business Evaluation Techniques using Excel**

- 4.1 Time Value of Money
- 4.2 Future and Present Value of Money
- 4.3 Future and Present Value of Annuity
- 4.4 Evaluation Techniques – Pay Back Period, NPV and IRR methods

**Unit 5 (15 Hours)**

**Application of MS Excel in Statistics**

- 5.1 Univariate analysis
- 5.2 Correlation Analysis – Correlation Coefficient
- 5.3 Regression Analysis – Regression Equations
- 5.4 Testing of Hypothesis for Small Sample
- 5.5 Application of Chi-Square Test – Test of goodness fit and Test of Independence
- 5.6 Analysis of Variance

**BOOKS FOR STUDY**

Nadhani, A.K. and Nadhani K.K, *Implementing Tally 9*, BPB Publications, 2009.

Frye Curtis, *Microsoft Excel 2016 Step by Step*, Microsoft Press, 2015.

**BOOKS FOR REFERENCE**

Deepak Jain, *Computer Applications in Business*, Kolkatta : Lawpoint Publications, 2008

Bodhanwala, J. Ruzbeh, *Understanding and Analysing Balance Sheets using Excel Worksheet*, Prentice Hall, 2004.

John, E. Harker, Dean W. Wichern, Arthur G. Reitsch, *Business Forecasting*, Prentice Hall of India Pvt. Ltd., 2012.

Bernd Held, *Excel 2016 Functions & Formulas*, BPB Publications, 2015.

**JOURNALS**

Indian Journal of Computer Application  
Journal of Statistical Software  
Journal of Modern Applied Statistical Methods  
Chilean Journal of Statistics

**WEB RESOURCES**

<http://www.ecommerce-digest.com/online-academic-journals.html><http://www.openlearningworld.com/books/>  
<https://www.tallyschool.com/free-tally-course-online/>  
<https://tallysolutions.com/id/using-tally-want-learn/>  
<https://excelexposure.com>

**PATTERN OF ASSESSMENT - PRACTICALS****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes****(Practical)**Section A  $4 \times 5 = 20$  (no choice)Section B  $3 \times 10 = 30$  (from a choice of three)**Other Components:****Total Marks: 50**

Case studies/Class Presentation/Group Discussion/Assignment

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours****(Practical)**Section A  $8 \times 5 = 40$  (No choice)Section B  $6 \times 10 = 60$  Marks (From a choice of 8)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT**

**CODE: 19AF/MC/SP54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide students with a theoretical and practical background of investments
- To acquaint students with the fundamental principles and techniques of security analysis
- To expose students to the guidelines for creation and revision of an investment portfolio
- To equip students with necessary computing skills for dealing with investments

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Analyse various investment avenues and make an investment choice
- Build a well-diversified portfolio and formulate an investment strategy
- Compute risk-return of individual securities and portfolio
- Evaluate portfolio performance and make necessary revision

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Definition and Meaning of Portfolio Management
- 1.2 Steps involved in Portfolio Management, Principles of Portfolio Management
- 1.3 Return - Meaning and Components of Return
- 1.4 Risk – Meaning and Causes, Types of Risk – Systematic and Unsystematic

**Unit 2 (15 Hours)**

**Theories of Portfolio Management**

- 2.1 Measurement of Return and Risk – Single Security and Portfolio
- 2.2 Portfolio Theory - Harry Markowitz, Single Index Model, Capital Assets Pricing Model

**Unit 3 (15 Hours)**

**Valuation of Securities**

- 3.1 Equity Valuation based on Accounting Information, Dividends and Earnings.
- 3.2 Bond Valuation - Bond pricing, Yield to Maturity, Yield to Call

**Unit 4 (15 Hours)**

**Security Analysis**

- 4.1 Fundamental Analysis – Intrinsic value of shares – EIC (Economy-Industry Company) Framework
- 4.2 Technical Analysis (only theory) –Basic Tenets of Technical Analysis, Price and Volume Charts, Dow Theory, Pattern Analysis

## Unit 5

(10 Hours)

### Techniques of Portfolio Management

5.1 Efficient Market Hypothesis

5.2 Asset Allocation Framework – Strategic and Tactical

5.3 Passive and Active Management Strategies

5.4 Portfolio Evaluation – Treynor Measure, Sharpe Measure, Jensen Measure

### BOOKS FOR STUDY

Rustagi, R.P, Investment Analysis and Portfolio Management, New Delhi: Sultan Chand & Sons, 2013

Chandra, Prasanna, Investment Analysis and Portfolio Management, New Delhi: Tata McGraw-Hill, 2012

### BOOKS FOR REFERENCE

Bhalla V.K, *Fundamentals of Investment Management* (Revised Edition), New Delhi: S. Chand & Co, 2013

Grinold, Richard and Kahn, Ronald, N., *Active Portfolio Management – Quantitative Theory and Applications*, New Delhi: S. Chand Publications

Gurusamy, S., *Security Analysis and Portfolio Management*, Chennai: Vijay Nicole Imprints, 2017

Singh, Preethi, *Investment Management Security Analysis and Portfolio Management*, Mumbai: Himalaya Publishing House, 2017

### JOURNALS

Journal of Financial Markets and Portfolio Management

Streetwise –The Journal of Portfolio Management

Journal of Project, Program and Portfolio Management

### WEB RESOURCES

[www.aaii.in](http://www.aaii.in)

[www.investopedia.com](http://www.investopedia.com)

[www.askinvestmentmanagers.com](http://www.askinvestmentmanagers.com)

### PATTERN OF ASSESSMENT

#### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A 3 x 2 = 6 (no choice)

Section B 3 x 8 = 24 (from a choice of four)

Section C 1 x 20 = 20 (from choice of two)

#### Other Components:

**Total Marks: 50**

Open book test/Problem solving/Assignment/Objective test

#### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 (no choice, max. 30 words - 5 Theory 5 Problems)

Section B – 5 x 8 = 40 Marks (From a choice of 7- 2 Theory, 5 Problems)

Section C – 2 x 20 = 40 Marks (From a choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM. DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INVESTMENT BANKING AND FINANCIAL SERVICES**

**CODE:19AF/MC/IF54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the role played by investment bankers
- To provide an understanding the various financial services.
- To empower the students for a successful career in the management of financial services
- To enable the students to think critically for solutions to business constraints

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the role of an investment banker
- Comprehend the functions of various financial services
- Discuss the role of intermediaries in issue management
- Suggest companies on appropriate financial product to raise funds for business

**Unit 1 (10 Hours)**

**Investment Banking**

- 1.1 Introduction & Functions of Investment Banks
- 1.2 Types of Investment Banks- Investment Banking Services
- 1.3 Merchant Banking Services-Issue Management
- 1.4 Underwriting - Underwriting in Fixed Price Offers and Book Built Offers.

**Unit 2 (12 Hours)**

**Depository System**

- 2.1 Depository System - Objectives, Activities, Interacting Systems
- 2.2 Role of Depositories and their Services, NSDL and CDSL.
- 2.3 Process of Clearing and Settlement through Depositories and Depository Participants.
- 2.4 Rights and Obligations of Depositories and Participants.

**Unit 3 (13 Hours)**

**Housing Finance**

- 3.1 Housing Finance – Role and Types of Housing Loans.
- 3.2 Institutions and Banks offering Housing Finance, Procedure, Interest Rates and Income Tax Implication
- 3.3 Reverse Mortgage Loan
- 3.4 Non-Banking Finance Companies - Types, Functions and RBI Guidelines for NBFCs.



**Unit 4 (15 Hours)**

**Factoring and Securitization of Debt**

- 4.1 Factoring – Origin and Types
- 4.2 Factoring Mechanism, Factoring Charges, International Factoring & Factoring in India.
- 4.3 Forfeiting: Origin, Characteristics, Benefits, Difference between Factoring and Forfeiting.
- 4.4 Securitisation of Debt: Meaning, Features, Special Purpose Vehicle, Types of Securitisable Assets, Benefits of Securitization, Issues in Securitization.

**Unit 5 (15 Hours)**

**Other Financial Services**

- 5.1 Venture Capital - Concept, Features, Current Indian Scenario.
- 5.2 Microfinance - NGOs and SHGs - Microfinance Delivery Mechanisms – Future of Micro Finance.
- 5.3 Credit rating - Meaning, Process of Credit Rating of Financial Instruments, Rating Agencies.
- 5.4 Leasing - Concept, Steps in Leasing Transactions, Types of Lease, Problems in Leasing, Factors influencing Buy, Borrow or Lease Decision.
- 5.5 Hire Purchasing - Concepts and features, Hire Purchase Agreement, Comparison of Hire Purchase with Credit sale, Installment Sale and Leasing, Problems related to outright Purchase, Hire purchase and Leasing.

**BOOKS FOR STUDY**

Gurusamy. S, *Financial Services*, Tata McGraw Hill Education Pvt. Ltd  
Khan M.Y., *Financial Services*, Tata Mc Graw Hill Publishing Pvt. Ltd

**BOOKS FOR REFERENCE**

Sundaram K.P.M. and Varshney P. N., *Banking Theory Law and Practice*, New Delhi, Sultan Chand & Sons, 2015.  
Gurusamy S. *Financial Services and Markets*, Chennai, Vijay Nicole Imprints Pvt. Ltd., 2014  
Machiraju H. R, *Indian Financial System*, Vikas Publishing House Pvt. Ltd, 2019.  
Bhalla. V.K., *Management of Financial Services*, Anmol Publications Pvt. Ltd., 2006  
Gurusamy S, *Banking Theory Law and Practice*, Vijay Nicole Imprints Pvt. Ltd., 2013.  
Varshney P.N., *Banking Law and Practice*, Sultan Chand & Sons, 2014.  
Gordon. E and Natarajan, K, *Banking Theory, Law And Practice*, Himalaya Publishing House, 2016

**JOURNALS**

Asian Journal of Research in Banking and Finance  
Indian Journal of Finance  
Journal of Banking, Information Technology and Management  
Journal of Bank Management

**WEB RESOURCES**

<https://www.india-financing.com/indo1.html>  
<http://www.languages.ind.in/factoring.html>  
<http://www.rbi.org.in/scripts/PublicationReportDetails.asp>  
<http://www.allbankingsolutions.com/top-topics/depl.shtml>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two)

### **Other Components:**

**Total Marks: 50**

Quiz/Group discussion/Assignments/Class Presentation/Objective Test

### **End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (No choice)

Section B –  $5 \times 8 = 40$  Marks (from a choice of Seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of Four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Department of Commerce (Accounting and Finance and Commerce General) to B.Com(General) and Accounting and Finance Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIAL FINANCE AND IMPACT INVESTING**

**CODE:19ID/IC/SI55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To provide students with a conceptual foundation for social finance
- To enable students to understand the theoretical concept of impact investing
- To acquaint students with the policies and actions that affect social performance and investor reactions

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Demonstrate knowledge of the origin of social finance and impact investing
- Conceive, design, develop and present a comparative analysis of impact investing strategies
- Synthesize the opportunities and barriers to impact investing for individuals, institutions, funds, communities and governments
- Understand the gap in funding the start-up social enterprises

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Social Entrepreneurship - Meaning, Evolution
- 1.2 Social Enterprise and Social Finance Market
- 1.3 Elements of Social Finance – Demand, Supply and Intermediaries
- 1.4 Entrepreneurial Social Finance Eco System

**Unit 2 (17 Hours)**

**Social Finance Investment**

- 2.1 Social Finance Investment – Meaning and Characteristics
- 2.2 Place and With Whom
- 2.3 Financing for Social Innovation
- 2.4 Types of Social Finance Investment

**Unit 3 (17 Hours)**

**Impact Investing**

- 3.1 Meaning, Difference between Traditional Investing and Impact Investing
- 3.2 Overview of the spectrum of Investment Opportunities from Traditional to Philanthropy
- 3.3 Emergence and Driving Forces of Impact Investing

**Unit 4 (17 Hours)**

**Impact Investing to the Sectors**

- 4.1 Microfinance and Development Related Investment
- 4.2 Pros and Cons of using Business Approaches (Impact Investing) to tackle these World Issues Vs Government Intervention
- 4.3 Large Scale Impact Investing Programmes: Deutsche Eye Bank etc

**Unit 5 (17 Hours)**

**Financial Tools for Integrated Portfolios**

- 5.1 Defining Traditional Risk and Social Risk
- 5.2 Evaluating risks across sectors
- 5.3 Sustainability Accounting Standards Board – Trends in Integrated Portfolio Management

**BOOKS FOR STUDY**

Bugg-Levine, Antony and Emerson, Jed, *Demystifying Impact Investing*, Wiley, 2011  
Rodin, Judith, *The Power of Impact Investing*, Wharton Digital Press, 2014  
Balkin, Jeremy, *Investing with Impact*, Routledge Publications, 2015

**BOOKS FOR REFERENCE**

Clark, C., Emerson J. and Thornley, *The Impact Investor: Lessons in Leadership and Strategy for Collaborative Capitalism*, Jossey-Bass Publications, 2015  
Kelly, Majorie, *The Divine Right of Capital: Dethroning the Corporate Aristocracy*, Berrett-Koehler Publishers, 2015  
Shiller, R., *Finance and the Good Society*, Princeton University Press, 2012  
Tan, Kim and Griffiths, Brian, *Social Impact Investing*, Anchor, 2016

**JOURNALS**

Journal of Sustainable Finance and Investment  
Journal of Social Innovations

**WEB RESOURCES**

[www.alliancemagazine.org](http://www.alliancemagazine.org)  
[www.cgap.org](http://www.cgap.org)  
[www.responsiblesearch.com](http://www.responsiblesearch.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 Minutes**

Section A 7 x 2 = 14 (no choice)  
Section B 2 x 8 = 16 (from a choice of three)  
Section C 1 x 20 = 20 (from choice of two)

**Other Component Total Marks: 50**

Presentations/Case Studies/Assignment

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – Short Answers (max. 50 words) - 10 x 2 = 20 Marks  
Section B – Long Answers 5 x 8 = 40 Marks (From a choice of 7)  
Section C – Essay answers 2 x 20 = 40 Marks (From a choice of 4)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENTREPRENEURIAL FINANCE**

**CODE:19AF/MC/EF64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide to the students an understanding about the concept of entrepreneurship.
- To impart knowledge to the students on financing entrepreneurial ventures.
- To educate students on choice of financial avenues

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the concept of entrepreneurship.
- Understand investment process in new ventures.
- Identify sources of finance for new ventures.
- Explore the different schemes for financing entrepreneurial venture

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Entrepreneur - Meaning, Definition, Characteristics, Types and Functions of an Entrepreneur
- 1.2 Role of Entrepreneurship in the growth of Economic Development
- 1.3 Entrepreneurship Development - Barriers (Internal and External)
- 1.4 Factors Influencing Entrepreneurship development

**Unit 2 (15 Hours)**

**Enterprise Launching**

- 2.1 Opportunity Identification and Selection, Idea Generation-Sources
- 2.2 Project Formulation- Importance and Elements
- 2.3 Project Feasibility Analysis- Factors and Report.
- 2.4 Business Plan – Contents and Significance of Business Plan

**Unit 3 (15 Hours)**

**Entrepreneurial Finance**

- 3.1 Financial Planning – Meaning, Need and Process
- 3.2 Sources of finance – Internal and External
- 3.3 Project Cost Analysis
- 3.4 Venture Capital Financing, Angel Investors, Lease Financing, Crowd Funding

**Unit 4 (10 Hours)**

**Institutions Assisting Entrepreneurial Finance**

- 4.1 Banking Institutions- Commercial , Co-operative, Rural
- 4.2 Non-Banking Institutions assisting Entrepreneurs
- 4.3 Development Financial Institutions – SIDBI, Mudra
- 4.4 Startup Finance

**Unit 5 (15 Hours)**

**Government Initiatives in Promoting Entrepreneurship**

- 5.1 Financial Assistance to Entrepreneur – Subsidies and Incentives
- 5.2 MSME policy in India,
- 5.3 State Development Promotion Agencies: District Industries Centers (DIC), SIPCOT
- 5.4 Small Industries Service Institute of India (SISI)

**BOOKS FOR STUDY**

Khanka S S, *Entrepreneurial Development*, New Delhi: S. Chand & Co, 2015  
Leach Chris, W Ronald, *Entrepreneurial Finance*, Cengage Learning, 5<sup>th</sup> Edition., 2014

**BOOKS FOR REFERENCE**

Yindenaba Jousha, *Entrepreneurial Finance for MSMEs: A Managerial Approach for Developing Markets*, Palgrave Macmillian, 2017  
Rogers nd Makonnen, *Entrepreneur Finance: Finance and Business Strategy for a Serious Entrepreneur*. Mc Graw hill Education.  
Gibbons Gary, *Entrepreneur Finance: A Global Perspective*, Sage Publications, 2014  
Alemany Lusía, *Entrepreneurial Finance: the Art and Science of Growing Ventures*, Cambridge University Press, 2018

**JOURNALS**

The Journal of Entrepreneurial Finance  
Venture Capital Journal

**WEB RESOURCES**

[www.ocw.mit.edu.com](http://www.ocw.mit.edu.com)  
[www.nptel.ac.in](http://www.nptel.ac.in)  
[www.xlri.com](http://www.xlri.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 = 16 Marks (from a choice of three)  
Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components: Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice- Max 30 words)  
Section B – 5 x 8 = 40 Marks (from a choice of seven- Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS TAXATION**

**CODE: 19AF/MC/BT64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide to the students comprehensive knowledge of corporate tax laws
- To equip students with the skills to compute the taxable income and tax liability of a company
- To help students develop conceptual understanding of GST law
- To provide students with working knowledge of the provisions of Customs Duty

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Compute total income of the company and determine tax liability
- Demonstrate understanding of the core concepts of GST and Customs Duty
- Analyse and evaluate the effect on GST on consumers
- Understand the GST procedure for filing and payment

**Unit 1 (15 Hours)**

**Computation of Corporate Tax**

- 1.1 Computation of Taxable Income
- 1.2 Carry Forward and Set Off of Losses in the case of Certain Companies Under Sec. 79 of Income-Tax Act, 1961
- 1.3 Computation of Corporate Tax Liability - Minimum Alternate Tax, Tax on Distributed Profits of Domestic Companies, Tax on Income Distributed to Unit Holders

**Unit 2 (15 Hours)**

**Implications of Tax Concessions and Incentives**

- 2.1 Setting up a New Business, Location of Business and Nature of Business.
- 2.2 Tax Planning - Financial Management Decisions – Capital Structure Decisions, Dividend Policy, Bonus Shares, Investments and Capital Gains
- 2.3 Tax Planning - Managerial Decisions – Owning or Leasing of an Asset, Purchase of Assets by Installment and Hire Purchase System, Purchase of an Asset out of own Funds or Borrowed Capital

**Unit 3 (10 Hours)**

**Customs Duty**

- 3.1 Definition and Basic Concepts in Customs Duty
- 3.2 Levy, Collection and Exemptions of Customs Duty
- 3.3 Demand of Duties and Refund, Duty Drawback

**Unit 4 (15 Hours)**

**Goods and Services Tax - Introduction**

- 4.1 CGST, IGST, & SGST/UGST
- 4.2 Concept of Destination Based Consumption Tax, IGST Model, Input Tax Credit
- 4.3 Levy of GST, Registration of Dealers, E-Way Bills
- 4.4 Supply – Meaning and Scope, Place of Supply, Time of Supply, Valuation

**Unit 5 (10 Hours)**

**Goods and Services Tax - Administration**

- 5.1 GST Records and Returns- Tax Invoice Rules, Filing of Returns, Types of Returns, Matching of Input Tax Credit
- 5.2 GSTN – Overview of Technology Framework Enabling GST

**BOOKS FOR STUDY**

Singhania, Vinod K. and Monica Singhania, Corporate Tax Planning, New Delhi: Taxmann Publications

Chaudhary, Vashistha, Dalmia, Ashu and Girdharwal, Shaifaly, GST- A Practical Approach, New Delhi: Taxmann Publications

Sareen, V.K., Sharma, Ajay, GST Goods and Service Tax, Kalyani Publishers

**BOOKS FOR REFERENCE**

Ahuja, Girish and Gupta Ravi, Corporate Tax Planning and Management, Bharat Law House.

Datey, V.S., GST Ready Reckoner, New Delhi: Taxmann Publications

Singhania, Vinod K., Singhania, Monica, Students' Guide to Income Tax, New Delhi: Taxmann Publications

Lakhotia, R.N., Corporate Tax Planning, New Delhi: Vision Books Ltd.

**JOURNALS**

Journal of Corporate Taxation

Goods & Services Tax Cases and Corporate Professionals Today

Income Tax Tribunal Decisions and Taxman

**WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)

[www.icsi.edu](http://www.icsi.edu)

[www.taxjournal.com](http://www.taxjournal.com)

[www.taxlawsonline.com](http://www.taxlawsonline.com)



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A -  $7 \times 2 = 14$  (no choice)

Section B -  $2 \times 8 = 16$  (from a choice of four questions)

Section C -  $1 \times 20 = 20$  (from choice of two questions)

### **Other Components**

**Total Marks: 50**

Seminar/Problem Solving/Quiz/Objective Test

### **End-Semester Examination**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice) 7 Questions Theory and 3 Problems

Section B –  $5 \times 8 = 40$  Marks (From a choice of 7 questions, 5 Theory and 2 Problems)

Section C –  $2 \times 20 = 40$  Marks (From a choice of 4 questions, 3 Theory and 1 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM. DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**AUDITING AND ASSURANCE**

**CODE:19AF/MC/AA64**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To educate the students about auditing practices
- To provide the students an understanding of audit process embedded with Assurance Standards.
- To familiarise the students with the roles and responsibilities of an Auditor
- To provide practical knowledge of generally accepted auditing procedures and Techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Acquire practical understanding of the audit practices
- Identify various roles and responsibilities of an auditor.
- Apply audit process in manual and computerised environment.
- Evaluate the practical working of audit in various organizations.

**Unit 1 (12 Hours)**

**Audit Environment**

**1.1 Introduction**

- 1.1.1 Auditing – Meaning and Definition
- 1.1.2 Classification of audits
- 1.1.3 Basic Principles Governing an Audit SA 200
- 1.1.4 Objective of Audit SA 200

**1.2 Position of an Auditor**

- 1.2.1. Qualification, Appointment and Removal of Auditor
- 1.2.2. Rights, Duties and Independence of an Auditor SA 200
- 1.2.3. Auditors Liabilities as per Companies Act

**Unit 2 (14 Hours)**

**Audit requirements**

- 2.1 Auditing Engagement SA 210
- 2.2 Audit Planning and Audit Programme SA 300
- 2.3 Documentation SA 230
  - 2.3.1 Audit Materiality SA 320
  - 2.3.2 Audit Working Papers
  - 2.3.3 Audit Files
- 2.4 Audit Evidence (SA 500, 501)
  - 2.4.1 Audit Procedure for Obtaining Evidence
  - 2.4.2 Sources of Evidence
  - 2.4.3 Methods of Obtaining Evidence

**Unit 3 (14 Hours)**

**Internal Controls**

- 3.1 Internal Control and Internal Check
  - 3.1.1 Objectives and Methods of Internal Control ((SA 315 & SA 330)
  - 3.1.2 Internal Check – Objectives and Methods
- 3.2 Audit Sampling (SA 530)
  - 3.2.1 Types of Sampling
  - 3.2.2 Test Checking
  - 3.2.3 Techniques of Test Check

**Unit 4 (15 Hours)**

**Audit of Ledgers**

- 4.1 Audit of Payments – General Consideration – Wages, Capital Expenditure and other Payments.
- 4.2 Audit of Receipts – Cash Sales, Receipts from Debtors and other Receipts
- 4.3 Audit of Purchases – Vouching Cash and Credit Purchases
- 4.4 Audit of Sales – Vouching of Cash and Credit Sales
- 4.5 Audit of Suppliers Ledger and Debtors Ledger
- 4.6 Audit of Impersonal Ledger
- 4.7 Audit of Assets and Liabilities

**Unit 5 (10 Hours)**

**Audit Reporting**

- 5.1 Audit Report – Types of Opinion SA 700 and Reporting Requirements under CARO 2013
- 5.2 Audit in a Computerized Environment
- 5.3 Audit of different types of Undertaking – Educational Institution, Trusts, NBFC, Hotels and Hospitals
- 5.4 Government Audit – Comptroller & Audit General (C&AG)

**BOOKS FOR STUDY**

Tandon, B. N. *Handbook of Practical Auditing*. New Delhi: S.Chand  
Pagare, Dinakar. *Principles & Practices of Auditing*. New Delhi: Sultan Chand, 2016.

**BOOKS FOR REFERENCE**

De Paula, F.R.M. *Principles of Auditing: A Practical Manual for Student and Practitioners*. London: E.L.B.S.  
Gupta, Kamal. *Contemporary Auditing*. New Delhi: Tata McGraw Hill  
Kumar, Pradeep, Sachdeva, Baldev and Singh Jagwant. *Auditing Theory and Practice*. New Delhi: Kalyani  
Saxena, R. G. *Banking Audit: A Practical Guide for Auditing*. Mumbai: Himalaya, 2018

**JOURNALS**

International Journal of Auditing  
Auditing: A journal of Practice and Theory  
Journal of Accounting, Auditing and Finance  
Accounting, Auditing and Accountability Journal

## **WEB RESOURCES**

[www.neoxen.com/neoxen/methodology/docs/intro\\_auditing\\_online.pdf](http://www.neoxen.com/neoxen/methodology/docs/intro_auditing_online.pdf)  
[www.academia.edu/7505528/VERIFICATION\\_AND\\_VALUATION](http://www.academia.edu/7505528/VERIFICATION_AND_VALUATION)  
[www.e-conomic.co.uk/accountingsystem/glossary/auditors-report](http://www.e-conomic.co.uk/accountingsystem/glossary/auditors-report)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:** **Total Marks: 50**  
Quiz/Group discussion/Assignments/Class Presentation/Objective Test

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (No choice)

Section B – 5 x 8 = 40 Marks (from a choice of Seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of Four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INTRODUCTION TO BUSINESS ANALYTICS**

**CODE: 19AF/MC/IB64**

**CREDITS:4**

**LTP:2 0 3**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide students with a strategic understanding of the field of Business Analytics
- To enable students to identify inter-relationships in business and make holistic judgments
- To nurture critical thinking skills required to solve business problems
- To acquaint students with the skills required to navigate the complex demands of the current business environment

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify and describe complex business problems in terms of analytical models
- Apply appropriate analytical methods to find solutions to business problems that achieve stated objectives
- Translate results of business analytic projects into effective courses of action
- Exhibit ethical decision-making in structured or unstructured and ambiguous situations

**Unit 1 (10 Hours)**

**Introduction to Business Analytics**

- 1.1 Evolution, Scope, Application, Importance
- 1.2 Use of Business Analytics in Problem Solving and Decision Making

**Unit 2 (15 Hours)**

**Marketing Analytics**

- 2.1 Segmentation – Target – Positioning of Market, Marketing Mix
- 2.2.Channel Analysis and Sales Performance Analysis
- 2.3 Campaign Analysis and Social Media Analysis
- 2.4 Customer Analysis – Customer Loyalty, Customer Lifetime Value, Customer Segmentation

**Unit 3 (15 Hours)**

**HR Analytics**

- 3.1 Recruitment, Training
- 3.2 Talent Management
- 3.3 Compensation, Workforce Productivity and Performance
- 3.4 HR Metrics

**Unit 4** (10 Hours)

**Financial and Risk Analytics**

- 4.1 Profitability Analysis - Customer Profitability, Product Profitability, Cost Analysis, Forecasting, Cash Flow Analysis, Value-Driver Analysis, Shareholder Value Analysis
- 4.2 Fraud Prediction & Deduction, Recovery Management, Loss Forecasting
- 4.3 Risk Profiling, Portfolio Stress Testing

**Unit 5** (15 Hours)

**Technology for Analytics**

- 5.1 Introduction to Analytical Tools – Excel, Power BI, R, Tableau, SPSS, SAS, etc.
- 5.2 Dashboard for Analytics
- 5.3 Machine Learning

**BOOKS FOR STUDY**

Grigsby, Mike, *Advanced Customer Analytics: Targeting, Valuing, Segmenting and Loyalty Techniques*, Kogan Page Publications, 2016  
Sivanesan, R., *Consumer Behaviour*, Margham Publications

**BOOKS FOR REFERENCE**

Evans, James R., *Business Analytics*, Pearson Publications, 2012  
Albright, Christian and Winston, Wayne L., *Business Analytics: Data Analysis and Decision Making*, Cengage Learning, 2017  
Cox, Emmett, *Retail Analytics: The Secret Weapon*, John Wiley and Sons, 2011  
Erik, Van Vulpen and Green, David, *The Basic Principles of People Analytics*, Createspace Independent Publishing, 2016

**JOURNALS**

Drake Business Review  
Journal of Business Analytics  
International Journal of Business Analytics

**WEB RESOURCES**

[http://www.mop.ir/portal/file/?132654/www.irpdf.com\\_Predictive\\_Analytics\\_for\\_Human\\_Resources.pdf](http://www.mop.ir/portal/file/?132654/www.irpdf.com_Predictive_Analytics_for_Human_Resources.pdf)  
<http://alqashi.com/book/book17.pdf>

**PATTERN OF ASSESSMENT - PRACTICALS**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**  
Section A 4 x 5 = 20 (no choice)  
Section B 3 x 10 = 30 (from a choice of three)

**Other Components:** **Total Marks: 50**  
Case studies/Class Presentation/Group Discussion/Assignment  
**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
**(Practical)**

Section A – 8 x 5 = 40 (No choice)  
Section B – 6 x 10 = 60 Marks (From a choice of 8)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FINANCIAL RISK MANAGEMENT**

**CODE:19AF/ME/RM45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce to the students the concepts in Financial Risk Management
- To enable students to differentiate between uncertainty and risk
- To educate the students to identify financial risks and the approach to manage them
- To discern and develop capabilities and competencies in Financial Risk Management

**COURSE LEARNING OUTCOME**

On the successful completion of the course, students will be able to

- Demonstrate knowledge about the financial risks facing the organization
- Understand the approaches to risk management
- Explain various risk control measures available
- Design a risk management programme for an organization

<b>Unit 1</b>	<b>(8 Hours)</b>
<b>Fundamentals of Risk</b>	
1.1 Risk – Definition	
1.2 Forms of Risk – Credit Risk, Operational Risk and Market risk	
1.3 Risk policy	
<b>Unit 2</b>	<b>(15 Hours)</b>
<b>Risk Management</b>	
2.1 Risk management – Process	
2.2 Corporate Governance and Risk Management	
2.3 Enterprise Risk Management frameworks	
<b>Unit 3</b>	<b>(15 Hours)</b>
<b>Quantitative Analysis</b>	
3.1 Probability	
3.2 Measuring Return and Risk	
3.3 Measuring risk factors using Value at Risk measures	
3.4 Monte Carlo Simulation Method	
<b>Unit 4</b>	<b>(12 Hours)</b>
<b>Financial Markets and Products</b>	
4.1 Futures and Forwards	
4.2 Options and Swaps	
4.3 Commodities	
4.4 Corporate and Interest rates	

## Unit 5

(15 Hours)

### Valuation and Risk Models

- 5.1 Basic bond valuation and bond hedging
- 5.2 Valuation using Binomial trees
- 5.3 Expected and unexpected loss estimation
- 5.4 Stress Testing

### BOOKS FOR STUDY

IIBF, Risk Management, Macmillan Publishers India Ltd

Jorion Philippe, *Financial Risk Manager Handbook FRM Part I/Part II*, GARP, 6<sup>th</sup> Edition

### BOOKS FOR REFERENCE

Saunders Anthony & Cornett Marcia Millon, *Financial Markets & Institutions*, McGraw-Hill

Alexander Carol, *Quantitative Methods in Finance*, John Wiley & Sons Ltd

Skoglund Jimmy & Chen Wei, *Financial Risk Management: Applications in Market, Credit, Asset and Liability Management, and Firm wide Risk*, SAS Institute, 2015

Dun & Bradstreet, *Financial Risk Management*, Tata McGraw Hill Education

### JOURNALS

Journal of Financial Risk Management

Journal of Risk Management in Financial Institutions

Journal of Risk and Finance Management

### WEBSITE

[www.garp.org](http://www.garp.org)

[www.iiqf.org](http://www.iiqf.org)

[www.iirm.com](http://www.iirm.com)

[www.riskpro.in/imp](http://www.riskpro.in/imp)

[www.theirm.org](http://www.theirm.org)

### PATTERN OF ASSESSMENT

#### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A -  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of four questions)

Section C -  $1 \times 20 = 20$  (from choice of two questions)

#### Other Components:

Open book tests/Assignments/Case Study Analysis

#### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice) (6 theory Questions and 4 Problems)

Section B –  $5 \times 8 = 40$  Marks (From a choice of seven questions, five theory questions and two problems)

Section C –  $2 \times 20 = 40$  Marks (From a choice of four questions, three theory questions and one problem)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS TAX PLANNING AND PROCEDURES**

**CODE:19AF/ME/TP45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with business tax procedures and tax management
- To provide the students an insight into the structure of Income tax authorities
- To enable students to understand the procedure for tax filing, recovery and refund

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the difference between tax evasion and tax planning
- Apply tax provisions for tax planning
- Understand the procedure for filing of tax and recovery of refund
- Comprehend the prosecution procedure and penalties for tax offences

**Unit 1**

**(10 Hours)**

**1.1 Tax Planning**

- 1.1.1 Meaning and Need for Tax Planning
- 1.1.2 Methods of Tax Planning
- 1.1.3 Tax Avoidance and Tax Evasion

**1.2 Income Tax Authorities**

- 1.2.1 Income Tax Authorities
- 1.2.2 Powers of Income Tax Authorities - Relating to Search and Seizure, Application of Seized Or Requisitioned Assets, Power of Survey, Power to Collect Certain Information
- 1.2.3 Disclosure of Information Regarding Assessee to Certain Authorities

**Unit 2**

**(15 Hours)**

**2.1 Tax Deducted at Source (TDS)**

- 2.1.1 Deduction of Tax from Salary, Interest on Securities, Deemed Dividend and Casual Income
- 2.1.2 TDS from Insurance Commission, Brokerage, Rent, Fees For Professional or Technical Services

**2.2 Tax Collected at Source (TCS)**

- 2.2.1 Classification of Seller and Buyer for TCS

- 2.2.2 Goods and Transactions Classified under TCS
- 2.2.3 Certificate of TCS and TCS Exemptions
- 2.2.4 Payment of TCS to Government, Electronic TCS, Filing of TCS Returns

**Unit 3 (15 Hours)**

**3.1 Filing of Return**

- 3.1.2 Time Limit for Filing of Return of Income
- 3.1.2 Filing of Return of Loss and Filing of Revised Return
- 3.1.3 Defective or Incomplete Return

**3.2. Recovery of Tax and Refunds**

- 3.2.1 Payment of Tax
- 3.2.2 Modes of Recovery of Tax
- 3.2.3 Refund of Tax

**Unit 4 (15 Hours)**

**Penalty and Prosecution**

- 4.1 Penalty – Different Penalties for Offences and Procedure for Imposing Penalty
- 4.2 Prosecution for Removal of Assets and Documents During Searches, Removal, Concealment, Transfer or Delivery of Property to Avoid Tax Recovery, Failure to Comply with Provisions regarding Transfer of Immoveable Property, Failure to Pay TDS or TCS
- 4.3 Prosecution for False Statement in Verification, Falsification of Books of Account or Document Etc.

**Unit 5 (10 hours)**

**Income Tax Settlement Commission**

- 5.1 Setting up and Constitution of Settlement Commission
- 5.2 Jurisdiction and Powers of Settlement Commission
- 5.3 Additional Income Tax, Procedure on Receipt of Application

**BOOKS FOR STUDY**

Gaur V.P., Narang D.B., *Income Tax Law and Practice*, New Delhi: Kalyani Publishers  
Singhania, Vinod K. and Singhania, Monica, *Students' Guide to Income Tax*, New Delhi: Taxmann Publication

**BOOKS FOR REFERENCE**

Dinkar Pagare, *Law and Practice of Income Tax*, New Delhi: Sultan Chand Publications  
Ahuja, et. Al, *Systematic Approach to Income Tax*, New Delhi: Bharat Law House  
Lal B.B., Vashisht, N., *Income Tax Law and Practice*, New Delhi: IK Int Publishing House  
Mehrotra, H.C., *Income Tax Law and Accounts*, Agra: Sahithya Bhawan Publications  
Singhania, et. al, *Students' Guide to Income Tax*, New Delhi: Taxmann Publication

**NOTE:** Latest edition of the readings may be used

## **JOURNALS**

Journal of Taxation

Journal of Accounting and Taxation

Vision: Journal of Indian Taxation

## **WEB RESOURCES**

[www.incometaxindia.gov.in](http://www.incometaxindia.gov.in)

[www.taxlawsonline.com](http://www.taxlawsonline.com)

[www.taxmann.com](http://www.taxmann.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 Minutes**

Section A 7 x 2 = 14 (no choice)

Section B 2 x 8 = 16 (from a choice of three)

Section C 1 x 20 = 20 (from choice of two)

### **Other Components:**

**Total Marks: 50**

Quiz/Case Studies/Class Presentations/Assignment

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 (No choice, max. 30 words)

Section B – 5 x 8 = 40 Marks (From a choice of 7- max. 500 words)

Section C – 2 x 20 = 40 Marks (From a choice of 4 - max. 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**E-COMMERCE**

**CODE:19AF/ME/EC45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide the students an overview of the fundamental concepts of e-commerce and internet technology.
- To acquaint the students with the information on various online platforms to conduct business.
- To create awareness on the importance and working of Electronic Payment System and E-Security.

**COURSE LEARNING OUTCOME**

On successful completion of the course, the students will be able to

- Analyse various platforms in which E-Commerce is conducted.
- Identify the variants of Digital Currencies and Online payment systems.
- Identify risk and threats with regards to online business.
- Develop basic online platform for conducting business.

**Unit 1 (10 Hours)**

**Internet and E-commerce**

- 1.1 Meaning and Definition – Internet, Intranet and Extranet
- 1.2 Emergence of the Internet
- 1.3 Meaning, Definition of E-commerce and Difference between Traditional Commerce and E-commerce, E-Commerce and E-Business
- 1.4 Advantages and Disadvantages of E- Commerce

**Unit 2 (15 Hours)**

**Business Models for E-Commerce**

- 2.1 Introduction to Business Models
- 2.2 Models Based on the Relationships of Transaction parties – B2B, B2C, C2C, C2B, E-Governance
- 2.3 Models Based on the Relationship of Transaction Types – Brokerage, Aggregator, Info-Mediary, Value chain, Manufacturer, Advertising and Subscription Models

**Unit 3 (15 Hours)**

**Digital Marketing**

- 3.1 Meaning, Characteristics of Digital Marketing
- 3.2 Digital Marketing Strategies
- 3.3 E-Advertising and E-Branding

**Unit 4** (13 Hours)  
**Electronic Payment System**

- 4.1 Types of Online Payments – Token Based, Credit Card Based, Debit Card Based and Smart Card Based.
- 4.2 Designing Electronic Payment System – Encryption – Digital Signature- Common Standards for Secure E- Payments.
- 4.3 Digital Currencies
- 4.4 Risk on Electronic Payment System

**Unit 5** (12 Hours)  
**Cyber Security**

- 5.1 Information System Security
- 5.2 Data Protection and Security Measures
- 5.3 Information Security Environment in India – Information Technology Act 2000

**BOOKS FOR STUDY**

Joseph PT. *E-commerce: An Indian Perspective*: 5<sup>th</sup> edition. 2015  
Traver, Laudon: *E-Commerce – Business, Technology, And Society*: thirteenth edition 2017

**BOOKS FOR REFERENCE**

Agarwala, Kamlesh N., Amit Lal and Deeksha Agarwala, *Business on the Net: An Introduction to the Whats and Hows of E -Commerce*, Macmillan India Ltd.  
Bajaj, Deobyani Nag, *E-Commerce*, Tata McGraw Hill Company, New Delhi.  
Turban, E., et. al., *Electronic commerce: A Managerial Perspective*, Pearson Education Asia.  
Diwan, Prag and Sunil Sharma, *Electronic Commerce -A Manager's Guide to E-Business*, Vanity Books International, Delhi.  
Dietel, Harvey M., Dietel, Paul J., and Kate Steinbuhler., *E-business and E-commerce for Managers*, Pearson Education.

**JOURNALS**

Electronic Market  
International Journal of E-Commerce  
Journal to Management Information system

**WEB RESOURCES**

[www.ecommerce-digest.com](http://www.ecommerce-digest.com)  
[www.htmlgoodies.com](http://www.htmlgoodies.com)  
[www.openlearningworld.com](http://www.openlearningworld.com)

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 7 x 2 = 14 Marks (no choice)		
Section B – 2 x 8 = 16 Marks (from a choice of three)		
Section C – 1 x 20 = 20 Marks (from a choice of two)		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Seminar/Group Discussion/Assignments	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – 10 x 2 = 20 Marks (no choice- Max 30 words)		
Section B – 5 x 8 = 40 Marks (from a choice of seven- Max 500 words)		
Section C – 2 x 20 = 40 Marks (from a choice of four- Max 1200 words)		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ORGANISATION AND PEOPLE MANAGEMENT**

**CODE:19AF/ME/OP45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS 65**

**OBJECTIVES OF THE COURSE**

- To provide an overview on concepts relating to Organisational Behaviour.
- To impart knowledge to the students on organisational culture and change.
- To educate students on the principles and practices of human resources.
- To familiarise the students on the managerial, operative and maintenance aspects of the human resources in an organisation.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Analyse individual and group behavior.
- Identify how organisational change and culture affect working relationship within the organisation.
- Apply the principles pertaining to People Management in the organisation.
- Become better leaders by enhancing effective people management skills.

**Unit 1 (10 Hours)**

**Organisational Behaviour**

- 1.1 Introduction and Importance
- 1.2 The Emerging Challenges of Organisational Behaviour
- 1.3 Organisational Behaviour - Structure and Model

**Unit 2 (15 Hours)**

**Individual Behaviour and Group Dynamics**

- 2.1 Meaning, Types and Factors Influencing Personality
- 2.2 Values and Attitude, Learning, Perceptions and Emotions- Concept and Factors
- 2.3 Organisational Culture and Climate- Concept and Determinants
- 2.4 Organisational Change- Process and Managing Change
- 2.5 Stress Management

**Unit 3 (15 Hours)**

**Group Dynamics**

- 3.1 Group Formation
- 3.2 Group Characteristics
- 3.3 Power
- 3.4 Organisation Politics
- 3.5 Impression Management

**Unit 4** (15 Hours)  
**Compensation Management**

- 4.1 Performance Appraisal- Meaning and Methods
- 4.2 Wages and Salaries Administration
- 4.3 Financial and Non- Financial Incentives
- 4.4 Statutory Compliances – ESI, PF, Gratuity

**Unit 5** (10 Hours)  
**Contemporary Issues in Human Resource Management**

- 5.1 Collective Bargaining
- 5.2 Grievance Redressal
- 5.3 Career Planning and Succession Planning
- 5.4 Managing Diversity at Workplace

**BOOKS FOR STUDY**

Robbins, S.P., Vohra, *Organisational Behaviour*, Pearson Publication, New Delhi, 2016  
Aswathappa, K., *Human Resource Management*, New Delhi, Tata Mc Graw Hill Publishing Company, 8<sup>th</sup> edition

**BOOKS FOR REFERENCE**

Gupta C.B., *Human Resource management*, New Delhi, Sultan Chand and Sons, 2007.  
Prasad L.M., *Human Resource management*, New Delhi, Sultan Chand and Sons, 2007.  
Mamoria C.B., *Personnel Management*, Mumbai, Himalaya Publishing House, 2004.  
Fred Luthans: *Organisational Behaviour* – McGraw hill  
K.Ashwathappa: *Organisational Behaviour* – Himalaya Publications

**JOURNALS**

International Journal of Human Resource Management  
The Human Resource Management Review  
International Journal of Organisational Behaviour

**WEB RESOURCES**

[www.hrwale.com](http://www.hrwale.com)  
[www.hrcouncil.ca.in](http://www.hrcouncil.ca.in)  
[www.xlri.com](http://www.xlri.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**  
Section A – 7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 = 16 Marks (from a choice of three)  
Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:** **Total Marks: 50**  
Seminar/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
Section A – 10 x 2 = 20 Marks (no choice- Max 30 words)  
Section B – 5 x 8 = 40 Marks (from a choice of seven- Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**FINANCIAL ANALYSIS AND BUSINESS VALUATION**

**CODE: 19AF/ME/FV45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the concept of financial modeling
- To develop skills in analyzing the financial statements
- To create an understanding on the concept of growth and sustainable earning
- To provide a strong framework on business valuation methods

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Appreciate the concept of financial modeling
- Develop skills in preparing comparative income statement and balance sheet
- Identify the various models in business valuation
- Comprehend the methods of valuation of intangible assets

**Unit 1 (10 Hours)**

**Analysis of Income Statement and Balance Sheet**

- 1.1 Financial Analysis-Meaning, Need and Significances
  - 1.1.1 Types of Financial Statements
  - 1.1.2 Financial Statement Analysis
- 1.2 Comparative Analysis of Balance Sheet and Income Statement
- 1.3 Analysis of Changes in Income
- 1.4 Corporate Debt Instrument Analysis
- 1.5 Distress Analysis
- 1.6 Off Balance Sheet Items Analysis

**Unit 2 (15 Hours)**

**Financial Modeling for Project Appraisal**

- 2.1 Financial Modeling - Concepts and Application
  - 2.1.1 Use of NPV,IRR,ARR for Project Appraisal
- 2.2 Forecasting Techniques

**Unit 3 (15 Hours)**

**Analysis of Profitability, Growth and Sustainable Earning**

- 3.1 Du Pont Analysis
- 3.2 Introduction to Growth Analysis- Meaning and Significance



- 3.3 Analysis of Changes in Profitability and Sustainable Earning
- 3.4 Analysis of Changes in Shareholder Equity

**Unit 4 (13 Hours)**

**Business Valuation**

- 4.1 Business Valuation- Meaning, Basis and Role
- 4.2 Principles and Techniques of Valuation
- 4.3 Valuation Models- Discounted Cash Flow Valuation, Free Cash Flow Valuation and Related Valuation, Valuation of a Firm

**Unit 5 (12 Hours)**

**Valuation of Mergers and Acquisitions and Intangible Assets**

- 5.1 Approaches to Valuation of Mergers and Acquisitions
- 5.2 Strengths and Weakness of Various Methods of Business Valuation
- 5.3 Forms of Consideration and Terms of Acquisition
- 5.4 Implication of Regulation for Mergers and Acquisition
- 5.5 Methods of Valuation of Goodwill, Patents, Copyrights and Brands

**BOOKS FOR STUDY**

S.N.Maheshwari, *Management Accounting*, Sultan Chand & Sons, 2013  
 Prasana Chandra, *Corporate Valuation - A Guide for Analysts, Managers and Investors*, McGraw Hill  
 Prasana Chandra, *Corporate Valuation and Value Creation*, McGraw Hill, 2011  
 Krishna G. Palepu, Paul M. Healy, *Business Analysis Valuation - Using Financial Statements*, Cengage Publishers, 5<sup>th</sup> Edition, 2015

**BOOKS FOR REFERENCE**

Ashish.K.Bhattacharya, *Introduction to Financial Statement Analysis*, Elsevier Publication, 2007  
 Pitabas Mohanty, *Business Valuation-Text and Cases*, Taxmann Publication  
 Narasimhan, *Financial Statement and Analysis*, Cengage Publishers, 2018

**JOURNALS**

Financial Analyst Journal  
 International Review of Financial Analysis  
 Management Accountant - The ICWA of India

**WEB RESOURCES**

[www.icmai.org](http://www.icmai.org)  
[www.corporatefinanceinstitute.com](http://www.corporatefinanceinstitute.com)  
[www.cimaglobal.com](http://www.cimaglobal.com)  
[www.investopedia.com](http://www.investopedia.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50 Duration: 90 Minutes**

Section A 3 x 2 = 6 (no choice)  
 Section B 3 x 8 = 24 (from a choice of four)  
 Section C 1 x 20 = 20 (from choice of two)

**Other Components : Total Marks: 50**

Open book test/Problem solving/Objective Test/Assignment

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 (Max. 50 words, 5 theory and 5 Problems)  
 Section B – 5 x 8 = 40 Marks (From a choice of 2 Theory and 5 Problems)  
 Section C – 2 x 20 = 40 Marks (From a choice of 1 Theory and 3 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course Offered by B.Com (Accounts and Finance) to students of  
B.A / B.Sc. / B.Com. / B.Com CS / B.B.A / B.C.A. / B.V.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**STOCK MARKET INVESTMENT**

**CODE:19AF/GE/SI22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the importance of investment
- To provide students with an overview of the functions of stock markets and trading mechanism
- To provide practical insight on current practices in the stock exchange

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the relationship between return and risk and their impact on investment
- Comprehend the role of stock exchange and its significance in the financial system
- Understand the process of stock trading
- Corroborate the vital role played by stock market intermediaries

**Unit 1 (8 Hours)**

**Introduction to Investment**

- 1.1 Investment Environment
- 1.2 Factors affecting Investment
- 1.3 Types of Investments
- 1.4 Meaning of Return and Risk, Risk-Return Tradeoff

**Unit 2 (10 Hours)**

**Introduction to Stock Market**

- 2.1 History of Stock Market
- 2.2 Membership, Organization, Governing body
- 2.3 Functions of stock Exchange, Online trading, Role of SEBI
- 2.4 Recognized Stock Exchanges in India (brief discussion of NSE and BSE)

**Unit 3 (8 Hours)**

**Trading in Stock Market**

- 3.1 Patterns of Trading and Settlement
- 3.2 Speculation – Types of Speculations
- 3.3 Activities of Brokers – Broker Charges
- 3.4 Regulatory Authorities - National Securities Depository Ltd. (NSDL) and Central Securities Depository Ltd. (CSDL) (in brief)

### **BOOKS FOR STUDY**

Tripathi, Vanita and Panwar, Neeti, *Investing in Stock Markets*, Taxmann Publications, New Delhi, 2019

Gurusamy, S., *Financial Markets and Institutions*, McGraw-Hill Education

### **BOOKS FOR REFERENCE**

Mishkin, Fredrick S. and Eakins, Stanley G., *Financial Markets and Institutions*, Pearson Education India, 2018

Graham, Benjamin, *The Intelligent Investor*, Harper Business Publications, 2013

Murthy, D.K. and Venugopal, *Indian Financial System*, I K International Publishing House

Houpt, Evan J. and Border, John, *Stock Market for Beginners*, Createspace Independent Publishers, 2014

### **JOURNALS**

Journal of Investment and Management

Journal of Investment Strategies

Journal of Financial Markets

### **WEB RESOURCES**

[www.investopedia.com](http://www.investopedia.com)

[www.liberatedstocktrader.com](http://www.liberatedstocktrader.com)

[www.niftytradingacademy.net](http://www.niftytradingacademy.net)

### **PATTERN OF ASSESSMENT**

#### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

#### **Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

### **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by B.Com (Accounts and Finance) to students of  
B.A / B.Sc. / B.Com. / B.Com CS / B.B.A / B.C.A. / B.V.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COMPUTERISED ACCOUNTING SYSTEM**

**CODE:19AF/GE/CA22**

**CREDITS:2**

**L T P:1 0 1**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to utilise Tally in maintaining records of organisations
- To assist students to process common business applications electronically
- To generate accounting reports from Tally.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Acquire skills for business applications in computers
- Develop desirable attitude and skill in handling real time data
- Acquire specialized skills, knowledge and attitude to work in finance and accounting field using computers.

**Unit 1 (9 Hours)**

**Accounting Package - Tally**

- 1.1 Introduction to Tally
- 1.2 Creation, Alteration and Deletion of a Company
- 1.3 Creation, Alteration and Deletion of Groups and Ledgers
- 1.4 Accounting Vouchers – Types, Voucher Entry
- 1.5 Preparation of Financial Statements – Day Book, Trial Balance, Profit and Loss Account and Balance Sheet - Moving Data to Excel from Tally

**Unit 2 (9 Hours)**

**Financial Statement Analysis and Business Forecasting using Excel**

- 2.1 Techniques of Financial Statement Analysis
  - 2.1.1 Comparative Statements
  - 2.1.2 Common Size Statements
  - 2.1.3 Trend Percentages

**Unit 3 (8 Hours)**

**Business Evaluation Techniques using Excel**

- 3.1 Time Value of Money
- 3.2 Future and Present Value of Money
- 3.3 Future and Present Value of Annuity
- 3.4 Evaluation Techniques – Pay Back Period, NPV and IRR methods

### **BOOKS FOR STUDY**

Nadhani, A.K. and Nadhani K.K, *Implementing Tally 9*, BPB Publications, 2009.

Frye Curtis, *Microsoft Excel 2016 Step by Step*, Microsoft Press, 2015.

### **BOOKS FOR REFERENCE**

Deepak Jain, *Computer Applications in Business*, Kolkatta : Lawpoint Publications

Bodhanwala, J. Ruzbeh, *Understanding and Analysing Balance Sheets using Excel Worksheet*, Prentice Hall

John, E. Harker, Dean W. Wichern, Arthur G. Reitsch, *Business Forecasting*, Prentice Hall of India Pvt. Ltd.

Bernd Held, *Excel 2016 Functions & Formulas*, BPB Publications

### **JOURNALS**

Indian Journal of Computer Application

Journal of Statistical Software

Journal of Modern Applied Statistical Methods

### **PATTERN OF ASSESSMENT**

#### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

#### **Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

### **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by B.Com (Accounts and Finance) to students of  
B.A / B.Sc. / B.Com. / B.Com CS / B.B.A / B.C.A. / B.V.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NEW VENTURE FINANCE**

**CODE:19AF/GE/NF22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To provide to the students an understanding about the concept of entrepreneurship.
- To impart knowledge to the students on financing entrepreneurial ventures.
- To educate students on financial avenues provided by the Government.

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Comprehend the concept of entrepreneurship.
- Understand the process of setting up a new venture.
- Identify sources of finance for new ventures.
- Explore the different schemes for financing entrepreneurial venture

**Unit 1**

**(8 Hours)**

**New Venture Creation**

- 1.1 Business- Meaning, Forms of Organisation
- 1.2 Setting up of New Business- Opportunity Identification and Selection, Idea Generation-Sources
- 1.3 Business Plan – Contents and Significance of Business Plan

**Unit 2**

**(9 Hours)**

**Entrepreneurial Finance**

- 2.1 Entrepreneurial Finance – Need, Sources– Internal and External
- 2.2 Project Cost Analysis- Cost, Price, Sales, Breakeven Point, Profit
- 2.3 Recent Trends in Enterprise Finance-Venture Capital Financing, Angel Investors, Lease Financing

**Unit 3**

**Institutions Assisting Entrepreneurial Finance**

**(9 Hours)**

- 3.1 Banking and Non-Banking Institutions assisting Entrepreneurs
- 3.2 National and State Institutions
- 3.3 Government Assistance in Promoting entrepreneurship- Subsidies and incentives

### **BOOKS FOR STUDY**

Khanka S S, *Entrepreneurial Development*, New Delhi: S. Chand & Co, 2015

Leach Chris, W Ronald, *Entrepreneurial Finance*, Cengage Learning, 5<sup>th</sup> Edition., 2014

### **BOOKS FOR REFERENCE**

Yindenaba Jousha, *Entrepreneurial Finance for MSMEs: A Managerial Approach for Developing Markets*, Palgrave Macmillian, 2017

Rogers nd Makonnen, *Entrepreneur Finance: Finance and Business Strategy for a Serious Entrepreneur*. Mc Graw hill Education.

Gibbons Gary, *Entrepreneur Finance: A Global Perspective*, Sage Publications, 2014

Aleman Lusian, *Entrepreneurial Finance: the Art and Science of Growing Ventures*, Cambridge University Press, 2018

### **JOURNALS**

**The Journal of Entrepreneurial Finance**

**Venture Capital Journal**

### **WEB RESOURCES**

[www.ocw.mit.edu.com](http://www.ocw.mit.edu.com)

[www.nptel.ac.in](http://www.nptel.ac.in)

[www.xlri.com](http://www.xlri.com)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

**Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by B.Com (Accounts and Finance) to students of  
B.A / B.Sc. / B.Com. / B.Com CS / B.B.A / B.C.A. / B.V.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PERSONAL FINANCIAL PLANNING**

**CODE:19AF/GE/PF22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to realise the relevance of financial planning
- To help students set up financial goals
- To assist students in identifying suitable investment instruments

**COURSE LEARNING OUTCOME**

On successful completion of the course, the students will be able to

- Set up their financial goals
- Identify their risk appetite
- Choose the areas of investment
- Formulate their financial plan.

**Unit 1 (9 Hours)**

**Financial Planning**

- 1.1 Meaning and Importance
- 1.2 Personal Financial Goals and Life Cycle Approach
- 1.3 Elements and Structure of Personal Financial Plan
- 1.4 Process of Personal Financial Planning

**Unit 2 (8 Hours)**

**Monetary Management**

- 2.1 General Principles of Monetary Management
- 2.2 Process of Cash Flow Planning and Budgeting
- 2.3 Tax Implications on Financial Planning

**Unit 3 (9 Hours)**

**Risk Assessment and Investment Options**

- 3.1 Individual Risk Assessment
- 3.2 Needs and Benefits of Investing
- 3.3 Investment Options for Individual Investors – Shares, Bonds, Mutual Funds, Real Estate, Fixed Deposits, PPF, NPS, Gold and Bullion Investments

**BOOKS FOR STUDY**

Kapoor, J R, Dlabay and Hughes R, *Personal Finance*, McGraw Hill, 12<sup>th</sup> Edition.  
Madura, Jeff. *Personal Finance*. Pearson



## **BOOKS FOR REFERENCE**

Praharaj Prakash, *Your Everyday Guide to Personal Finance & Insurance*, TV 18 Broadcast Limited, 2015

Rachel, Siegela and Carol Yacht. *Personal Finance*. Saylor Foundation, Flat World Knowledge

Tillery Susan Et.al, *Essentials of Personal Financial Planning*, AICPA, 2017

Mahajan Vinay, *Power of Planning: Personal Financial Planning Book*, Wordit Content Design and Editing Service Private Limited, 2017

## **JOURNALS**

Journal of Wealth Management

The Insurance and Investment Journal

Journal of Individual Financial Management

## **WEB RESOURCES**

[www.saylor.org](http://www.saylor.org)

[www.bogleheads.org](http://www.bogleheads.org)

[www.planningalt.com](http://www.planningalt.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

### **Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

## **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM. DEGREE: ACCOUNTING AND FINANCE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MARKETING OF FINANCIAL PRODUCTS**

**CODE: 19AF/UI/MF23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To introduce to the students the methods of marketing financial services.
- To acquaint students with benefits of using analytical approach to marketing in financial services industry
- To impart knowledge about the marketing concepts like segmentation, targeting and positioning.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Obtain conceptual understanding of the different types of financial products
- Understand the nuances involved in marketing financial products
- Appreciate the differences in marketing a physical product and a financial product

**Unit 1**

**Introduction to Marketing**

- 1.1 Marketing: Meaning and types
- 1.2 Functions of Marketing
- 1.3 Marketing Mix
- 1.4 Market Analysis

**Unit 2**

**Services Marketing**

- 2.1 Services Marketing: Meaning and Nature
- 2.2 Difference between Product and Services Marketing
- 2.3 Services Marketing Mix
- 2.4 7Ps of Services Marketing

**Unit 3**

**Financial Products**

- 3.1 Financial Products: Meaning and Features
- 3.2 Need and Importance of financial products
- 3.3 Types of Financial Products – Shares, Bonds, Mutual Funds, Fixed Deposits and NPS

**Unit 4****Marketing of Financial Products**

4.1 Introduction

4.2 Formulating Marketing Strategies for Financial Products

4.3 Importance of CRM in Marketing of Financial Services

**Unit 5****(10 Hours)****Global Scenario**

5.1 Marketing of Financial Products in US

5.2 Marketing of Financial Products in UK

5.3 Marketing of Financial Products in China

**BOOKS FOR STUDY**

Rajeshwari, R. B. & Solanki, Marketing of Financial Products and Services, Galgotia Publishing Company, 2016.

Avadhani, Marketing of Financial Services, Himalaya Publishing House, 2013.

**BOOKS FOR REFERENCE**

Baron S and Harris K, Services Marketing: Text and Cases, Palgrave

Lovelock, Services Marketing: People, Technology and Strategy, Pearson Education, 5th edition.

Zeithaml, V. A and Bitner, M. J. Services Marketing, Tata McGraw-Hill.

Sahu P K and Raut K C, Salesmanship and Sales Management, Vikas Publications, 3rd edition.

**JOURNALS**

Journal of Financial Services Research

International Journal of Financial Services Management

**WEB RESOURCES**

[www.rbi.org.in](http://www.rbi.org.in)

[www.sebi.gov.in](http://www.sebi.gov.in)

**PATTERN OF ASSESSMENT****End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (No choice)

Section B – 5 x 8 = 40 Marks (from a choice of Seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of Four -Max 1200 words)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI**

**DEPARTMENT OF COMMERCE – SHIFT II**

**BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

**PROGRAMME DESCRIPTION**

The Bachelor of Business Administration **or** BBA is a three year professional undergraduate programme in Business Management. The BBA Programme provides students with the knowledge and skills in business and management. The programme is designed to train students effectively in management education and communication skills which will further hone entrepreneurship skills. The methodology involves training through practical experience in the form of case studies, projects, presentations, industrial visits and interaction with experts from the industry. This programme is a blend of theoretical inputs, practical exercises and internship training.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

At the end of a Bachelor of Business Administration (BBA) programme students will be able to

- Acquire an in-depth understanding of the key business concepts
- Gain wider knowledge of both the micro-environmental and macro-environmental forces that affect the firm's ability to serve its customers
- Have an understanding of the functional managerial skills in organizations
- A clear and broader view of management of all forms of resources utilized in business
- Use business knowledge in the larger interest of the community across the entire globe
- Demonstrate and perform tasks involving strategic and cross-functional issues in organizations
- Acquire a set of competencies required for career in varied organisations
- Pursue higher education in management
- Acquire necessary skills to set up their own business or social ventures
- Develop good team work skills, work ethic, understanding of corporate working

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.B.A. DEGREE PROGRAMME**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
<b>SEMESTER-I</b>										
19BA/MC/AM14	Accounting for Managers	4	4	1	0	3	50	50	100	
19BA/MC/MC13	Management Concepts	3	3	1	0	3	50	50	100	
19BA/AC/EA15	Economic Applications for Managers	5	5	0	0	3	50	50	100	
19BA/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
19BA/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
<b>SEMESTER-II</b>										
19BA/MC/CA23	Cost Accounting	3	3	1	0	3	50	50	100	
19BA/MC/MM23	Marketing Management	3	3	1	0	3	50	50	100	
19BA/AC/BL25	Business and its Legal Environment	5	5	0	0	3	50	50	100	
19BA/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100	
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100	
<b>SEMESTER-III</b>										
19BA/MC/HR34	Human Resource Management	4	4	1	0	3	50	50	100	
19BA/MC/EG34	Ethics, Governance and Sustainability	4	4	1	0	3	50	50	100	
19BA/MC/FS34	Financial Markets and Services	4	4	1	0	3	50	50	100	
19BA/MC/RM34	Retail Marketing	4	4	1	0	3	50	50	100	
19BA/AC/BA35	Business Automation	5	2	0	4	3	50	50	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100	
<b>SEMESTER-IV</b>										
19BA/MC/WB44	Workforce Behaviour	4	4	1	0	3	50	50	100	
19BA/MC/IF44	Introduction to Financial Management	4	4	1	0	3	50	50	100	
19BA/MC/SM44	Service Marketing	4	4	1	0	3	50	50	100	
19BA/MC/EP43	Business Etiquette and Presentation Skills	3	3	1	0	-	50	50	100	
19BA/AC/QT45	Quantitative Techniques for Decision Making	5	5	0	0	3	50	50	100	
	Major Elective I									
<b>SEMESTER-V</b>										
19BA/MC/PM54	Performance Management	4	4	1	0	3	50	50	100	
19BA/MC/BT54	Business Taxation	4	4	1	0	3	50	50	100	
19BA/MC/NV53	New Venture Management	3	3	1	0	3	50	50	100	
19BA/MC/LT53	Leadership and Team Management	3	3	1	0	3	50	50	100	
<b>Inter Disciplinary Core Course (B.Com.(CO) and BBA) to students of CO and BBA</b>										
19ID/IC/CM55	Compensation Management	5	5	1	0	3	50	50	100	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.B.A. DEGREE PROGRAMME**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Inter Disciplinary Core Course (BBA and BSW) to students of BSW									
19ID/IC/SE55	Creation, Management and Development of Social Enterprise	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100
SEMESTER-VI									
19BA/MC/IR64	Industrial Relations Management	4	4	1	0	3	50	50	100
19BA/MC/TQ63	Total Quality Management	3	3	1	0	3	50	50	100
19BA/MC/GB63	Global Business Management	3	3	1	0	3	50	50	100
19BA/MC/PJ64	Project Management	4	4	1	0	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV	2	2	0	0	-	50	-	100
	Major Elective II								
Major Elective Courses									
19BA/ME/TD45	Training and Development	5	5	0	0	3	50	50	100
19BA/ME/CM45	Change Management	5	5	0	0	3	50	50	100
19BA/ME/PB45	Product and Brand Management	5	5	0	0	3	50	50	100
19BA/ME/CR45	Customer Relationship Management	5	5	0	0	3	50	50	100
19BA/ME/FB45	Family Business Management	5	5	0	0	3	50	50	100
General Elective Courses									
19BA/GE/TY22	Team Dynamics	2	2	0	0	-	50	-	100
19BA/GE/CE22	Corporate Etiquettes	2	2	0	0	-	50	-	100
19BA/GE/CC22	Cross Culture Management	2	2	0	0	-	50	-	100
19BA/GE/MM22	Media Management	2	2	0	0	-	50	-	100
Independent Elective Course									
19BA/UI/PO23	Production and Operations Management	3	0	0	0	3	-	100	100



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ACCOUNTING FOR MANAGERS**

**CODE:19BA/MC/AM14**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to acquire conceptual knowledge about Accounting Standards
- To analyse and interpret financial statements from the point of view of managers and outsiders.
- To recognize the role of budgets and variance as a tool of planning and control.
- To enable the students to gain insights into the fundamental principles of accounting and use them in day-to-day business scenarios

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Evaluate Accounting Standards and procedures which helps them to interpret and analyze financial reports
- Identify the various tools of management accounting.
- Calculate various ratios and cash flow related to finance
- Prepare budgeting in an organizational context

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Accounting as Information System and Users of Accounting Information
- 1.2 Using Accounting Information for Decision Making, Planning and Control
- 1.3 Accounting Standards
  - 1.3.1 Object of Accounting Standards - Accounting Standard Board of India - Functions – Overview of Indian Accounting Standard
  - 1.3.2 Overview of Indian Accounting Standards (Ind AS)–1,2,4,6,7 and 10

**Unit 2 (15 Hours)**

**2.1 Final Accounts of Companies**

- 2.1.1 Computation of Managerial Remuneration
- 2.1.2 Preparation of Final Accounts of Companies
- 2.1.3 Preparation of Final Accounts under Company Law

**2.2 Cash Flow Statement (As Per Accounting Standard – 3)**

- 2.2.1 Meaning, Uses, Differences between Funds Flow Statement and Cash Flow Statement
- 2.2.2 Preparation of Cash Flow Statement

**Unit 3** **(10 Hours)**

**Financial Statement Analysis**

- 2.1 Analysis and Interpretation-Need and Importance
- 2.2 Methods of Financial Analysis and Interpretation
  - 2.2.1 Comparative Statements
  - 2.2.2 Common-Size Statements
  - 2.2.3 Trend Analysis
- 2.3 Ratio Analysis
  - 2.3.1 Significance and Limitations of Ratio Analysis
  - 2.3.2 Computation and Interpretation of Ratios - Turn Over, Liquidity, Profitability, Solvency and Leverage Ratio

**Unit 4** **(15 Hours)**

**Analysis for Planning and Control - Marginal Costing**

- 4.1 Marginal Costing - Meaning and Features
- 4.2 Cost Volume Profit analysis – Break-Even Point
- 4.3 Applications of Marginal Costing-Profit Planning, Product-Mix, Key Factor, Sales Mix

**Unit 5** **(15 Hours)**

**Budgets and Budgetary Control**

- 5.1 Concepts of Budgets and Budgetary Control
- 5.2 Objectives and Advantages of Budgetary Control
- 5.3 Classification of Budgets and its Preparation – Functional Budgets - Sales Budget, Purchases Budget, Cost of Production Budget, Cash Budget, Flexible Budget and Master Budget

**BOOKS FOR STUDY**

Gupta, R.L and M. Radhaswamy. Advanced Accountancy, Sultan Chand & Sons, 2016.  
Reddy, T. S. and A. Murthy. Management Accounting. Chennai: Margham, 2007.

**BOOKS FOR REFERENCE**

Maheshwari, S.N. *Principles of Management Accounting*. New Delhi: Sultan Chand, 2016.  
Jain S.P and K.L Narang. *Advanced Accountancy (Part II)*. Kalyani, 2007.  
Maheshwari S.N, *Advanced Accountancy (Part II)*. Vikas, 2007.  
Man Mohan and S.N. Goyal. *Principles of Management Accounting*. Agra: SahityaShawan, 2017.

**JOURNALS**

The Chartered Accountant: Journal of the Institute of Chartered Accountants of India.  
Indian Journal of Finance  
Journal of Accounting & Finance: Research Development Association, Jaipur.

**WEB RESOURCES**

[www. icaai.org](http://www.icaai.org)  
[www.journals.elsevier.com](http://www.journals.elsevier.com)  
[www. emeraldgroupublishing.com](http://www.emeraldgroupublishing.com)

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**Section A -  $3 \times 2 = 6$  (no choice)Section B -  $3 \times 8 = 24$  (from a choice of four questions)Section C -  $1 \times 20 = 20$  (from a choice of two questions)**Other Components:****Total Marks: 50**

Assignments/Problem solving/Objective Test/Case study

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A –  $10 \times 2 = 20$  Marks (no choice) -5 Questions theory and 5 ProblemsSection B –  $5 \times 8 = 40$  Marks (From a choice of seven questions – 2 Theory, 5 Problems)Section C –  $2 \times 20 = 40$  Marks (From a choice of four questions - Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**MANAGEMENT CONCEPTS**

**CODE:19BA/MC/MC13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE:**

- To familiarise the students with current management practices.
- To provide the students an understanding of the management tools to identify, analyse and create business opportunities as well as solve business problems.
- To provide the students a comprehensive understanding of management concepts, principles and theories

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Gain knowledge on various concepts related to the development of leadership skills, motivation techniques, team work and effective communication
- Integrate management principles into management practices
- Acquire the skills to manage various functions of business organizations
- Understand the different leadership styles

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Meaning, Nature and Scope of Management
- 1.2 Importance of Management
- 1.3 Contemporary Approach to Management -Fayol, Taylor, Elton Mayo, Drucker, Porter, Prahalad, Hammer and Tom Peter
- 1.4 New Age Management – Review of Two Management Books and Articles

**Unit 2 (10 Hours)**

**Planning**

- 2.1 Nature and objectives, Importance and Advantages of Planning
- 2.2 Planning process and Obstacles to effective planning
- 2.3 Methods and Types of plans
- 2.4 Managing by Objective (MBO)

**Unit 3 (10 Hours)**

**Organising**

- 3.1 Nature and purpose of organizing
- 3.2 Organization structure- Line and staff authority
- 3.3 Departmentation
- 3.4 Decentralization
- 3.5 Delegation of authority

**Unit 4** **(11 Hours)**  
**Staffing**

- 4.1 Recruitment and Selection
- 4.2 Training – Need, Types of Employee Training
- 4.3 Motivation – Meaning and Maslow’s Theory of Motivation
- 4.4 Leadership – Qualities, Types of Leaders, Span of Control
- 4.5 Communication – Types and Barriers of Communication

**Unit 5** **(11 Hours)**  
**Controlling**

- 5.1 Meaning and Definition
- 5.2 Process of controlling
- 5.3 Types of control- Budgetary and non-budgetary control techniques - Managing productivity- Cost control- Purchase control- Maintenance control- Quality control- Planning operations.

**BOOKS FOR STUDY**

Gupta.C.B ., *Business Management* ,Sultan Chand and Sons, New Delhi (2015)  
Prasad .L.M., *Principles and Practice of Management* ,Sultan Chand & Sons ,New Delhi (2014)

**BOOKS FOR REFERENCE**

DinakarPagare, *Business Management*, New Delhi, Sultan Chand, 2018  
Gupta, N.S. and Alka Gupta, *Essentials of Management*, New Delhi, Anmol, 2010  
Manmohan Prasad, *Management Concepts and Practices*, Mumbai, Himalaya, 2008  
Shukla, *Business Organization and Management* S.Chand& company ltd.

**JOURNALS**

European Journal of Business Management  
International Journal of Management Reviews

**WEB RESOURCES**

[www.exed.hbs.edu](http://www.exed.hbs.edu)  
[www.hbr.org](http://www.hbr.org)  
<https://online.pointpark.edu>

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 Minutes</b>
Section A 7 x 2 = 14 (no choice)		
Section B 2 x 8 = 16 (from a choice of three)		
Section C 1 x 20 = 20 (from choice of two)		
<b>Other Components:</b>	<b>Total Marks: 50</b>	
Case study/Written quiz/Assignment/Seminar		
<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A –10 x 2 = 20 Marks (no choice - Max 30 words )		
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)		
Section C –2 x 20 = 40 Marks (from a choice of four -Max 1200 words)		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ECONOMIC APPLICATIONS FOR MANAGERS**

**CODE:19BA/AC/EA15**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide the students a detailed understanding of economic theory and practice
- To offer to the students a strong foundation in understanding the economic applications that are integrated with business functions
- To enable the students to understand various market types in relation to demand and supply of products and services.

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Differentiate products /customers and factors that affect demand and supply
- Integrate the various functions with a economic and market understanding
- Comprehend the cost, production, revenue correlation in a business
- Understand pricing and profit management in different types of competition

**Unit 1 (8 Hours)**

**Economics and its Link with Business**

- 1.1 Meaning and Definition of Economics
- 1.2 Issues and Problems in Economics
- 1.3 Scope and Role of Economics in Business

**Unit 2 (17 Hours)**

**Consumer Perspective of Economic Application**

- 2.1 Demand – Law of Demand, Exceptions to the law of demand
- 2.2 Elasticity of Demand- Types, Measurement and Interpretation for Decision Making
- 2.3 Utility – Law of Diminishing Marginal Utility, Total Utility
- 2.4 Indifference Curves and Maximization of Satisfaction

**Unit 3 (13 Hours)**

**Production Decisions in Business**

- 3.1 Supply – Law of Supply, Factors Affecting Supply
- 3.2 Elasticity of Supply
- 3.3 Production Function
  - 3.3.1 Single Variable Input – Law of Variable Proportions
  - 3.3.2 Two Variable Inputs – Isoquants and Least Cost Combination

**Unit 4** (15 Hours)  
**Cost & Revenue Considerations in Business**

- 4.1 Cost and Types of Cost
- 4.2 Short Run and Long Run Cost Curves – TC, TVC, TFC, AC, AFC, AVC and MC and their Relationships
- 4.3 Revenue Curves – TR, AR, MR
- 4.4 Break Even Analysis and Profit Maximization (Conditions)

**Unit 5** (12 Hours)  
**Market Structures and Determining Their Price and Output**

- 5.1 Perfect Competition – Characteristics and Price – Output Equilibrium, Shut down Point
- 5.2 Imperfect Competition – Characteristics and Price – Output Equilibrium of following types
  - 5.2.1 Monopoly – Price Discrimination
  - 5.2.2 Monopolistic – Excess Capacity
  - 5.2.3 Oligopoly – Price Rigidity, Product Differentiation and Kinky Demand Curve

**BOOKS FOR STUDY**

Mehta PL – *Managerial Economics* – Sultan Chand & Sons, 2016  
K.K. Dewett, *Modern Economic Theory: Micro & Macro Analysis* – Orient Book Distributors, New Delhi  
Varshney & Maheshwari – *Managerial Economics*, Sultan Chand & Sons, New Delhi, 2014

**BOOKS FOR REFERENCE**

Adhikary, M., '*Business Economics*'. Excel Books, New Delhi,  
Chopra, O.P '*Managerial Economics*', Prentice Hall Inc., New Delhi,  
Dwivedi D.N, *Managerial Economics*, Vikas Publications, 8th edition.  
V.L. Mote, *Managerial Economics* – Tata McGraw Hill, New Delhi, 2017

**NOTE:** Latest edition of Books to be used

**JOURNALS**

Journals for Business Economics  
Business and Economics Journal-OMICS International

**WEB RESOURCES**

[www.ddegjust.ac.in](http://www.ddegjust.ac.in)  
[www.businessdictionary.com](http://www.businessdictionary.com)  
[www.invetopedia.com](http://www.invetopedia.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A -  $7 \times 2 = 14$  (no choice)  
Section B -  $2 \times 8 = 16$  (from a choice of three questions)  
Section C -  $1 \times 20 = 20$  (from choice of two questions)

**Other Components:** **Total Marks: 50**

Assignments /Objective Test/Class Presentation

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )  
Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)  
Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19BA/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda



- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19BA/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**COST ACCOUNTING**

**CODE: 19BA/MC/CA23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To provide the students an understanding of the basic concepts of cost accounting
- To enable students to understand the methods of ascertaining the product cost
- To enable students to focus on the applications of cost control concepts and techniques for effective planning and forecasting

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Differentiate Cost Accounting from other branches of accounting
- Apply Cost Accounting techniques in decision making and performance evaluation
- Prepare a statement of cost and profit
- Understand the Cost Control techniques

**Unit 1 (5 Hours)**

**Nature of Cost Accounting**

- 1.1 Meaning, Objectives, Scope and Limitations,
- 1.2 Difference between Financial, Cost and Management Accounting,
- 1.3 Basic Concepts and Elements of Cost – Cost, Cost Center and Cost Unit

**Unit 2 (12 Hours)**

**Material Cost and Material Control**

- 2.1 Need and Importance of Material Control
- 2.2 Computation of Material Cost and Accounting Treatment for Normal, Abnormal Loss and Scrap
- 2.3 Purchase Control – Purchase Procedure
- 2.4 Stores Control
  - 2.4.1 Level Setting
  - 2.4.2 Inventory Control – Methods and Techniques
- 2.5 Issue Control
  - 2.5.1 Methods of Material Issue - First in First Out, Last in First Out, Average Cost - Simple and Weighted Average

**Unit 3 (10 Hours)**

**Labour Cost, Remuneration and Incentives**

- 3.1 Computation of Labour Cost with Overtime and Idle Time
- 3.2 Methods of Remuneration- Time Rate System, Piece Rate System, Taylor's Differential Piece Rate System

- 3.3 Incentive Plans -Halsey Premium Plan, Rowan Premium Plan
- 3.4 Labour Turnover – Methods of Computation

**Unit 4 (15 Hours)**

**Overheads**

- 4.1 Importance and Classification of Overhead Costs
- 4.2 Apportionment and Allocation of Overheads
  - 4.2.1 Primary Distribution of Overheads
  - 4.2.2 Secondary Distribution of Overheads- Direct Distribution, Reciprocal and Non Reciprocal Methods
- 4.3 Methods of Absorption of Overheads
  - 4.3.1 Direct Labour Hour Rate
  - 4.3.2 Machine Hour Rate
  - 4.3.3 Activity Based Absorption

**Unit 5 (10 Hours)**

**Methods of Costing**

- 5.1 Unit Costing- Computation of Product Cost and Profit, Preparation of Cost Sheet
- 5.2 Process Costing
  - 5.2.1 Meaning and Features of Process Costing
  - 5.2.2 Process Losses and Gains – Accounting Treatment of Normal and Abnormal Wastage and Abnormal Gain
  - 5.2.3 Inter-Process Profit
- 5.3 Operating Costing- Transport Costing only

**BOOKS FOR STUDY**

Jain S.P. and Narang K.L., *Cost Accounting*, New Delhi, Kalyani Publishers 2014  
Reddy T.S and Murthy A, *Cost Accounting*, Chennai, Margham, 2012

**BOOKS FOR REFERENCE**

Khanna B.S., Pandey I.M., Ahuja G.K., Arora M.N., *Practical Costing*, New Delhi, Sultan Chand, 2010  
Maheswari S.N., *Problems and solutions in Cost Accounting*, 12<sup>th</sup> edition, IK International Publishing House Pvt, 2014  
Ravi M. Kishore, *Cost Accounting*, 4<sup>th</sup> edition, Taxmann's, 2018  
R.Palaniappan and N.Hariharan, *Cost Accounting*, IK International Publishing House Pvt,Ltd,2012

**JOURNALS**

Cost Accounting Standards- The ICWA of India  
Indian Journal of Finance  
Management Accountant- The ICWA of India

**WEB RESOURCES**

icwajournal@hotmail.com  
www.accaglobal.com

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A -  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of four questions)

Section C -  $1 \times 20 = 20$  (from choice of two questions)

### **Other Components:**

**Total Marks: 50**

Assignments/Case study/Quiz

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice 5 Theory questions and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – 2 Theory and 5 Problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions -Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**MARKETING MANAGEMENT**

**CODE:19BA/MC/MM23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To provide students an understanding of marketing concepts and its integration in business
- To acquaint students with a comprehensive knowledge in administering a product / service in a market place.
- To enable students to understand the various elements of a marketing mix.

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Assimilate the key aspects of marketing
- Understand different market scenarios and customer buying process
- Identify customer needs and develop products in relation to the customer target group.
- Evaluate best promotional techniques for various kinds of products.

**Unit 1 (10 Hours)**

**Market and its Environment**

- 1.1 Definition and Concepts in Marketing
- 1.2 Market Scanning – Micro and Macro Environment of Business , Competition Analysis
- 1.3 Marketing Mix

**Unit 2 (11 Hours)**

**Consumer Behaviour**

- 2.1 Consumer Buying Decision Making Process
- 2.2 Factors affecting the Consumer Decision Making Process
- 2.3 Industrial Consumer / Buyer – Participants and their Role, Concept of Tender Purchases
- 2.4 Difference between Consumer Buyer and Industrial Buyer

**Unit 3 (11 Hours)**

**Product**

- 3.1 Market Segmentation – Classification
- 3.2 Product Mix – Length, Width, Consistency, Depth and Stretching
- 3.3 New Product Development
- 3.4 Product Life Cycle

**Unit 4** (10 Hours)

**Distribution and Pricing**

- 4.1 Levels of Channels of Distribution, Factors in Selecting Right Channel
- 4.2 Types and Role of Intermediaries
- 4.3 Pricing – Types of Prices – Cost Based, Competition Based, Other Types
- 4.4 Basics of E-Logistics

**Unit 5** (10 Hours)

**Promotion and Advertising**

- 5.1 Advertising – Importance and Types
- 5.2 Direct Sales –Meaning, Pros and Cons
- 5.3 Brand Equity and Brand Loyalty
- 5.4 Overview of Digital Marketing and Online Advertising

**BOOK FOR STUDY**

Kotler Philip. *Marketing Management- South Asian Perspective*, Pearson Publication New Delhi 2012.

Raju M.S. *Fundamentals of Marketing*. New Delhi: Excel Books, 2008.

**BOOKS FOR REFERENCE**

John, Wilmshurst. *Fundamentals and Practice of Marketing*. New Delhi: Viva Books, 2011.

Staton, William J. Etzel, Michael J. and Walker Bruce J. *Fundamentals of Marketing*. McGraw Hill (International edition) Inc, 2004.

Saxena Rajan. *Marketing Management*. New Delhi: Tata McGraw Hill, 2005

Keegan.W.J ,*Global Marketing Management*, NewDelhi, Prentice Hall of India,2013

**NOTE:** Latest edition of the Book to be used

**JOURNALS**

International Journal of Research in Marketing

Indian Journal of Marketing

Journal of Marketing Education

**WEB RESOURCES**

<http://smallbusiness.chron.com>

<http://productlifecyclestages.com>

<http://www.innovationcoach.com>

<http://www.marketing-schools.org>

**PATTERN OF ASSESMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 =16 Marks (from a choice of three)

Section C –1 x 20 = 20 Marks (from a choice of two )

**Other Components:**

**Total Marks: 50**

Quiz/ Objective Test / Group discussion/Assignments/Class Presentation

**End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C –2 x 20 = 40 Marks (from a choice of four -Max 1200 words )



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**BUSINESS AND ITS LEGAL ENVIRONMENT**

**CODE:19BA/AC/BL25**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide students' knowledge of the legal environment in which businesses operate
- To acquaint students with the provisions of Indian Contracts Act.
- To educate students on provisions relating to the Contract of Sale.
- To provide a comprehensive knowledge to students on consumer protection in India

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Comprehend the key concepts of Indian Contracts Act.
- Understand the regulations of Sale of Goods Act.
- Appreciate and understand the basic concepts of Intellectual Property Laws and Information Technology Act.
- Apply the regulations of Consumer Protection

**Unit 1 (15 Hours)**

**Indian Contract Act 1872**

- 1.1 Meaning and Types of Contract
- 1.2 Requisites of a Valid Contract
- 1.3 Performance of Contract
- 1.4 Discharge of Contract, Remedies for Breach of Contract

**Unit 2 (15 Hours)**

**Sale of Goods Act 1930**

- 2.1 Essentials for a Contract of Sale
- 2.2 Implied Conditions and Warranties
- 2.3 Transfer of Ownership and Delivery of Goods
- 2.4 Rights of Unpaid Seller

**Unit 3 (10 Hours)**

**Limited Liability Partnership and Intellectual Property Laws in India**

- 3.1 Limited Liability Partnership Act, 2008
  - 3.1.1 Definition and Characteristics
  - 3.1.2 Registration Process and Regulations
  - 3.1.3 Financial Disclosure and Annual Returns

3.2 Intellectual Property Laws in India - An Overview, Provisions relating to Registration and Enforcement

**Unit 4 (15 Hours)**

**Information Technology Act 2000**

4.1 Introduction

4.1.1 Objectives and Features of Act

4.1.2 Matters not covered in the Act and Provisions in the Act.

4.2 Encryption

4.2.1 Systems of Encryption

4.2.2 Types of Encryption-Single Key and Double Key

4.3 Digital Signature and Functions and Digital Signature Certificates

4.4 Electronic Documents and Contracts

**Unit 5 (10 Hours)**

**Consumer Protection Act 1986**

5.1 Overview of Consumer Protection Act

5.2 Significance, Consumer Duties and Responsibilities

5.3 Consumer Protection Councils

5.4 Consumer Disputes Redressal Agencies

**BOOKS FOR STUDY**

Kapoor N D, *Business Law*, New Delhi: Sultan Chand & Sons, 2019

Sharma Vakul, *Information Technology Law and Practice*, New Delhi, Universal L Publishing Co. Pvt Ltd, 2011

**BOOKS FOR REFERENCE**

Aggarwal S K, *Indian Business Laws*, New Delhi: Galgotia Publishing Company, 2017

Singh, Avtar, *Law of Contract*, Lucknow: Eastern Book Company, 2018

Saharay Madhusudan, *Textbook on Indian Partnership Act with Limited Liability Partnership Act*, New Delhi, Universal Law Publishing Co. Pvt Ltd, 2010

The Consumer Protection Act, 1986, Bare Act with Short notes, New Delhi, Universal Law Publishing Co. Pvt Ltd, 2011

**JOURNALS**

India Law Journal

Corporate Law Reporter

Indian Journal of Law and Technology

Symbiosis Contemporary Law Journal

**WEB RESOURCES**

<https://indiankanoon.org/>

<https://www.lawctopus.com/>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

### **Other Components:**

**Total Marks: 50**

Seminars/ Quiz/ Group discussion/ Assignments/ Class Presentation.

### **End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**Soft Skills Course Offered to students of**  
**B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19BA/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food

2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food

2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3****(13 Hours)****3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

**PATTERN OF ASSESSMENT****Continuous Assessment:****Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

**No End Semester Examination****No CA test**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**HUMAN RESOURCE MANAGEMENT**

**CODE:19BA/MC/HR34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide the students an understanding of the relevance of HRM in the changing global economy.
- To educate the students on the functions of human resources in an organization
- To familiarise the students with different types of training and executive development in an organization.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Formulate Human Resource Policies
- Understand the challenges in managing Human Resources
- Comprehend the process of recruitment and selection
- Relate the process of performance appraisal and its role in compensation management

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Significance, Objectives, Role and Status of Human Resource Management
- 1.2 Functions and Scope of Human Resource Management
- 1.3 Personnel Management and Human Resource Management

**Unit 2 (12 Hours)**

**Procuring Human Resource**

- 2.1 HR Planning – Objectives, Process, Importance and Problems
- 2.2 Job Analysis – Concept and Importance, Job Description and Job Specification
- 2.3 Recruitment – Sources
- 2.4 Selection – Procedure

**Unit 3 (13 Hours)**

**Induction, Training and Development**

- 3.1 Induction- Meaning, Importance and Methods
- 3.2 Training – Need, Importance, Types, Assessment of Training needs, benefits of Training, Methods and Evaluation
- 3.3 Development Programmes- Objective, Importance, Process, Methods and Techniques of Executive Development.

**Unit 4** (15 Hours)

**Performance Appraisal and Compensation**

- 4.1 Performance Appraisal – Objectives, Uses, Process, Problems, Methods of Performance Appraisal
- 4.2 Compensation – Factors, Types – Monetary and Non-Monetary
  - 4.2.1 Wage and Salary Compensation
  - 4.2.2 Incentive Plan

**Unit 5** (15 Hours)

**Promotion and Transfers**

- 5.1 Promotions-Meaning, Purpose and Types
- 5.2 Basics of Promotion – Seniority versus Merit
- 5.3 Transfer – Need, Purpose, Types of Transfer, Demotion-Causes of Demotion

**BOOKS FOR STUDY**

Aswathappa K, *Human Resource Management: Text and Cases*, Tata McGraw Hill, 2017.  
Gupta, C. B. *Human Resource Management*. New Delhi: Sultan Chand, 2014.

**BOOKS FOR REFERENCE**

Armstrong, Michael. *A handbook of Human Resource Management*. U.K: Kogan Page, 2013.  
Dessler Gary. *Human Resource Management*. New Delhi: Pearson Education, 2014.  
Flippo, Edwin B. *Personnel Management*. Singapore: Pearson Education Co, 2014.  
Khanka, S.S. *Human Resource Management*. (Text and Cases), New Delhi: S. Chand, 2014.  
Prasad, L.M. *Human Resource Management*. New Delhi: Sultan Chand, 2014.

**JOURNALS**

International Journal of Management Reviews  
The Human Resource Management Review  
Human Resource Management International Digest  
Human Resource Management Journal

**WEB RESOURCES**

<http://www.whatishumanresource.com/human-resource-planning>  
<https://www.sumhr.com/top-performance-appraisal-methods-startups-small-businesses/>  
<https://businessjargons.com/traditional-methods-of-performance-appraisal.html>  
<https://managementation.com/methods-of-executive-development/>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:** **Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ETHICS, GOVERNANCE & SUSTAINABILITY**

**CODE:19BA/MC/EG34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable the students to be aware of various forms unethical practices in business
- To sensitize the students about ethical and none ethical choices in business decisions.
- To provide the students with the knowledge about Sustainability and Corporate Governance.

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Make personal choices of best industry practices in terms of ethics and governance
- Understand the responsibility of corporations beyond just business, in terms of ethical and CSR practices.
- Differentiate ethical and unethical practices and take appropriate decisions
- Incorporate ethical and CSR initiatives early in their careers.

**Unit 1 (12 Hours)**

**Understanding Business Ethics**

- 1.1 Defining Business Ethics , Difference between ethics and morals,  
Legal aspects in Ethics
- 1.2 Schools of Thought of Business Ethics
- 1.3 Need and Importance of Business Ethics

**Unit 2 (15 Hours)**

**Ethics in Various Business Functions**

- 2.1 Ethics in Marketing – Product, Pricing and Advertising
- 2.2 Ethics in Finance – Information , Insider Trading , Hostile Take over
- 2.3 Ethics in Human Resources – Compliances, Salary Planning, Employee equality
- 2.4 Whistle blowing – Meaning and Importance

**Unit 3 (13 Hours)**

**Corporate Social Responsibility**

- 3.1 Philanthropy and its Relevance in Business
- 3.2 Need and Importance of CSR
- 3.3 CSR in India
- 3.4 Salient Features of the CSR ACT 2013

**Unit 4** (15 Hours)  
**Corporate Governance**

- 4.1 Meaning and Principles of Corporate Governance
- 4.2 Need and Importance of Corporate Governance
- 4.3 Corporate Governance in India: Birla Committee, Clause No. 49

**Unit 5** (10 Hours)  
**Recent Practices Enhancing Ethics, Corporate Social Responsibility and Governance**

- 5.1 Vigilance practices, Right to Information Act – Salient Features
- 5.2 Case Studies on Consumer Protection Act
- 5.3 Case Studies on Ethics, CSR and Corporate Governance

**BOOKS FOR STUDY**

Andrew Crane Dirk Matten. *Business Ethics*. New Delhi: Oxford University Press,  
Sharma, J. P. *Corporate Governance Business Ethics & CSR*. New Delhi: Ane Books 2018  
Joan R. Boatright. *Ethics and the Conduct of Business*. 7<sup>th</sup> edition. Pearson.

**BOOKS FOR REFERENCE**

Christine, A Mallin. *Corporate Governance* (Indian Edition). New Delhi: Oxford University Press.  
Geeta Rani, D & R K Mishra. *Corporate Governance-Theory and Practice*. New Delhi: Excel, 2008  
Mathur, U.C. *Corporate Governance & Business Ethics*. Macmillan.,  
Subhash Chandra Das, *Corporate Governance in India*. PHI.,  
Fernando, A.C. *Corporate Governance – Principles, Policies & Practice*. Pearson  
**NOTE:** Latest edition of Book to be used

**JOURNALS**

Business and Professional Ethics Journal  
The International Journal of Corporate Social Responsibility (JCSR)  
International Journal of Corporate Governance (IJCG)

**WEB RESOURCES**

www.tutorialspoint.com  
[www.bigcommerce.com](http://www.bigcommerce.com)

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 7 x 2 = 14 Marks (no choice)		
Section B – 2 x 8 = 16 Marks (from a choice of three)		
Section C – 1 x 20 = 20 Marks (from a choice of two)		
<b>Other Components:</b>	<b>Total Marks: 50</b>	
Seminar/ Assignments/ Class Presentations/ Collage		
<b>End Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)		
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)		
Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**FINANCIAL MARKETS AND SERVICES**

**CODE: 19BA/MC/FS34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To educate students on the various dimensions of Financial System
- To familiarise the students with the structure and functioning of the financial markets in India
- To expose students to Money Market and Capital Market Instruments

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate the role and functions of the financial system in India
- Evaluate the structure of financial markets and different types of securities
- Gain familiarity with the components of the Indian Financial system
- Elucidate the various functions of financial services sector

**Unit 1 (10 Hours)**

**Introduction to Indian Financial System and its Components**

- 1.1 Indian Financial System – Meaning, Features and Significance of Indian Financial System
- 1.2 Components of Indian Financial System – Financial Institution, Financial Markets, Financial Instruments and Financial Services
- 1.3 Functions of Indian Financial System

**Unit 2 (10 Hours)**

**Financial Markets - Overview and Classification**

- 2.1 Financial Markets – Meaning, Functions and Characteristics of Financial Markets
- 2.2 Classification of Financial Markets – Debt Markets, Equity Markets, Primary Markets, Secondary Markets, Organized Exchanges, Over-the-counter Markets, Cash Markets, Derivatives Markets, Money Markets, Capital Markets

**Unit 3 (15 Hours)**

**Financial Market Instruments**

- 3.1 Capital Markets
  - 3.1.1 Functions, Importance and Constituents of Capital Markets

- 3.1.2 Structure of Capital Markets in India
- 3.1.3 Various Instruments of Capital Markets
- 3.2 Money Market
  - 3.2.1 Functions, Importance of Money Markets
  - 3.2.2 Various Instruments of Money Markets
- 3.3 Derivatives Market – Types of Derivatives and Types of Options

**Unit 4 (15 Hours)**

**4.1 Introduction to Financial Services**

- 4.1.1 Meaning, Functions, Features and Importance of Financial Services in India
- 4.1.2 Emerging Issues and Challenges in Financial Services Sector

**4.2 Fee based Financial Services**

- 4.2.1 Merchant Banking - Meaning, Definition, Functions of a Merchant Banker and Scope of Merchant Banking in India
- 4.2.2 Credit rating services – Meaning and Need for Rating with Special Reference to ICRA and CRISIL

**Unit 5 (15 Hours)**

**Allied Financial Services**

- 5.1 Mutual fund – Meaning, Types and Criteria for Selection of Mutual fund
- 5.2 Factoring - Definition, Importance and Types
- 5.3 Leasing – Meaning, Importance and Types
- 5.4 Venture Capital Financing – Meaning, Importance and Stages

**BOOKS FOR STUDY**

M.Y. Khan. *Indian Financial System*. McGraw Hill Education India; 10<sup>th</sup> edition

Gurusamy, S. *Financial Services*. Tata McGraw Hill, 2011

**BOOKS FOR REFERENCE**

Vinod Kumar, Atul Gupta, Manmeet Kaur. *Financial Markets & Institutions*. Taxmann, 2018 edition

Jeff Madura. *Financial Institutions and Markets*. Cengage; 10<sup>th</sup> edition, 2014

Bharathi. V. Pathak. *Indian Financial System*, Pearson Education India; 4<sup>th</sup> edition, 2014

Vasanth Desai. *Indian Financial System*, Himalaya Publishing House; 1<sup>st</sup> Edition, 2010

**JOURNALS**

Journal of Service industry

Journal of International Money and Finance

Indian Journal of Finance

International Journal of Banking and Finance

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A -  $7 \times 2 = 14$  (no choice)

Section B -  $2 \times 8 = 16$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components:                                      Total Marks: 50**

Assignments/Seminars/Class Presentation

**End-Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 Words)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions – Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**RETAIL MARKETING**

**CODE: 19BA/MC/RM34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enhance the knowledge of students on evolution of retailing
- To sensitise the students on choosing and analyzing suitable store locations and layout for the merchandise
- To expose students to the concept of E-Retailing

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the dynamic nature and evolution of retailing
- Evaluate the suitable location of store and store layout
- Comprehend the skills required for a successful merchandiser
- Capture the importance of going global
- Recognise the scope and challenges of rural retailing

**Unit 1 (10 Hours)**

**Introduction to Retailing**

- 1.1 Concept, Formats and Functions of retailing
- 1.2 Dynamic nature of Retailing - Theories
- 1.3 Growing importance of Retailing
- 1.4 Retail Industry in India

**Unit 2 (15 Hours)**

**Retail Store Location and Layout**

- 2.1 Types of Retail Stores Location
- 2.2 Factors Affecting Retail Location Decisions
- 2.3 Location site and types of retail development
- 2.4 Locational techniques- Catchment Area and Regression Analysis
- 2.5 Store Layout and types

**Unit 3 (15 Hours)**

**Merchandise Management and Retail Pricing**

- 3.1 Meaning of Merchandising, Merchandiser – skills and profile
- 3.2 Methods of planning and calculating inventory levels
- 3.3 Category Management- Range planning and Space allocation
- 3.4 Establishing Pricing Policies, Factors Influencing Pricing, Pricing Strategies

**Unit 4 (15 Hours)**

**E-tailing and International Retailing**

- 4.1 E-tailing, Technology in Retail Marketing Decisions
- 4.2 Factors Influences the Growth of E-Tailing
- 4.3 Advantages & Disadvantages of E-Tailing
- 4.4 Move to International Retailing and Development
- 4.5 Reasons and Benefits of Going Global and Market Entry Methods

**Unit 5 (10 Hours)**

**Rural Retailing**

- 5.1 Overview of the Indian Rural Market
- 5.2 Role of Rural retailing in India
- 5.3 Challenges in Indian Rural Market
- 5.4 Rural Retail Strategies
- 5.5 Future of Rural Retailing

**BOOK FOR STUDY**

Gilbert David, *Retail Marketing Management*, New Delhi: Pearson Education, 2003

Mathur U C, *Rural Marketing Text and Cases*, New Delhi: Excel Books, 2008

**BOOKS FOR REFERENCE**

Cook D & Walters D., *Retail Marketing- Theory and Practice*, New Delhi: PHI, 2006

Ron Hasty & James Reardon, *Retail Management*, New Delhi TMH, 2003

**JOURNALS**

International Journal of Retail & Distribution Management

Journal of Retailing

International Journal of Retail Management and Research - TJPRC

**WEB RESOURCES**

[www.managementstudyguide.com](http://www.managementstudyguide.com)

[www.fitsmallbusiness.com](http://www.fitsmallbusiness.com)

[www.businessmanagementideas.com](http://www.businessmanagementideas.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components: Total Marks: 50**

Seminars/ Quiz/ Group discussion/ Assignments/ Class Presentation.

**End-Semester Examination: Total Marks: 50 Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS AUTOMATION**

**CODE:19BA/AC/BA35**

**CREDITS:5**

**L T P:2 0 4**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To educate students on the various internal controls of the Information Systems
- To expose students to accounting and statistical techniques using Excel
- To provide students a comprehensive knowledge on the Tally Software
- To acquaint with E-Commerce strategies and operations

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Gain familiarity with the concepts and terminology used in the development, implementation and operation of computer applications in business
- Use standard spreadsheet features to produce a representation and analysis of numerical and financial data
- Generate financial reports using Tally ERP.9 software
- Elucidate the importance of internet in the growth of business

**Unit 1 (10 Hours)**

**Accounting and Information Systems**

- 1.1 Introduction - Methods of Data Collection
- 1.2 Types of Information Systems
- 1.3 Internal Controls for Information Systems

**Unit 2 (18 Hours)**

**Management Reporting Using Spread sheets**

- 2.1 Business Forecasting
  - 2.1.1 Time Series Analysis – Moving Average and Least Squares-Charts
  - 2.1.2 Regression Analysis
- 2.2 Financial Statement Analysis
  - 2.2.1 Comparative Statements
  - 2.2.2 Common Size Statements
  - 2.2.3 Trend Percentages
- 2.3 Budgeting – Preparation of Cash Budget, Sales Budget, Production and Flexible Budgets

**Unit 3 (18 Hours)**

**Accounting Package - TALLY**

- 3.1 Tally – Creation of a Company, Alteration and Deletion of a Company
- 3.2 Creation of Account Groups – Liabilities and Assets
- 3.3 Creation of Ledgers – Alteration and Deletion of Account Master Records



- 3.4 Accounting Voucher – Voucher Types and Voucher Entry
- 3.5 Preparation of Final Accounts – Day Book, Trail Balance, Profit and Loss Account and Balance Sheet Statement

**Unit 4 (18 Hours)**

**Advertising and Marketing on the Internet**

- 4.1 Meaning, Concept, Advantages and Limitations of E-Commerce
- 4.2 Social Media Marketing
- 4.3 Concept of Blogs – Meaning, Blog Content and Strategies

**Unit 5 (14 Hours)**

**Electronic Payment Systems**

- 5.1 Classification of Electronic Payment System – E- Cash and Currency Servers, E-Cheques, Credit Cards, Smart Cards; Electronic Purses and Debit Cards;
- 5.2 Risk Involved in Electronic Payment System – Managing Credit Risk and Information Privacy
- 5.3 Security of E-Payments – Cryptography and Digital Signature

**BOOKS FOR STUDY**

Deepak Jain. *Computer Applications in Business*. First Reprint.2010.  
Zheng Qin. *Introduction to E-commerce*. Springer; 2010.

**BOOKS FOR REFERENCE**

Joseph, P.T. *E-Commerce*. New Delhi : PHI,2012.  
John, E. Harker, Dean W. Wichern, Arthur G. Reitsch. *Business Forecasting*. Prentice Hall,2012.  
Bodhanwala, J. Ruzbeh. *Understanding and Analysing Balance Sheets using Excel Worksheet*.Prentice Hall.  
Nadhani, A.K. and Nadhani K.K, *Implementing Tally 9*, BPB Publications  
Ravi Kalakota, Andrew B.Whinston, *Frontiers of Electronic Commerce*. Pearson Education,

**NOTE:** Latest edition of Books to be used

**JOURNALS**

International Journal of E-Commerce  
Journal of Theoretical and Applied E-Commerce  
Journal of Electronic Commerce in Organizations  
Journal of Management Information Systems and E-Commerce

**WEB RESOURCES**

<http://www.ecommerce-digest.com/online-academic-journals.html>  
<http://www.htmlgoodies.com/beyond/webmaster/projects/electronic-commerce-tutorial.html>

## **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>			<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>		
<b>Theory</b>	20 Marks	30 mins.	(Objective Questions)			
<b>Practical</b>	30 Marks	60 mins.				
<b>Other Components:</b>			<b>Total Marks: 50</b>			
Assignments/Practical test/Group projects						
<b>End-Semester Examination:</b>			<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>		
<b>Theory -</b>	1 hour	40 marks				
Section A	(20 x1 =20) Objective questions					
Section B	(4 x 5 = 20) Answer any four (from a choice of six questions)					
<b>Practical -</b>	2 hours	60 Marks				
Section A	(3 x10 =30)					
Section B	(2 x 15 =30)					

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**WORKFORCE BEHAVIOUR**

**CODE: 19BA/ MC/WB44**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To create an awareness on the various challenges in managing the workforce
- To expose students to the stress and conflict management strategies
- To educate students on the importance of the organizational culture
- To create an awareness on team building skills

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Analyse the various factors that has an impact on individual behaviour
- Demonstrate skills required for working in groups
- Implement the Stress and conflicts resolution strategies
- Elucidate the various motivational theories

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Nature, Importance and Scope of Behaviour of Work Force in an Organization
- 1.2 Basic Concepts, Approaches and Contributing Disciplines of Organizational Behaviour
- 1.3 New Challenges in Managing Work Force

**Unit 2 (15 Hours)**

**Individual Behaviour**

- 2.1 Individual Behaviour – Environmental Factors Influence to Individual Behaviour
- 2.2 Personality – Definition, Personality Traits
- 2.3 Attitudes – Nature of Attitudes, Formation of Attitudes, Sources of Attitude
- 2.4 Perception – Meaning and Definition, Perceptual Process

**Unit 3 (12 Hours)**

**Stress and Conflict Management**

- 3.1 Stress- Nature of Stress, Causes and Consequences of Stress, Managing Stress in Workplace
- 3.2 Conflict in Organizations – Nature of Conflict, Functional and Dysfunctional Conflict and Strategies for Resolving Conflict

**Unit 4 (13 Hours)**

**Organisational Structure and Culture**

- 4.1 Organization Structure – Meaning, Features of Good Organisational Structure, Importance and Types of Organisational Structure
- 4.2 Organisational Culture- Meaning and Definition, Changing Organisational Culture

**Unit 5 (15 Hours)**

**Group Dynamics and Motivation**

- 5.1 Benefits of Groups – Types of Groups – Group Formation and Development
- 5.2 Group Dynamics – Meaning, Features and Importance
- 5.3 Motivation – Concept of Motivation - Motivational Theories of Maslow, Herzberg, David Mc Clelland, and Porter and Lawler

**BOOKS FOR STUDY**

- Aswathappa, K, G. Sudarsana Reddy, *Organisational Behaviour*. New Delhi: Himalaya, 2015.
- Robbins P. Stephen. *Organisational Behaviour – Concepts, Controversies and Applications*, New Delhi: Prentice Hall, 2005.

**BOOKS FOR REFERENCE**

- Luthans, Fred. *Organisational Behaviour*. Singapore: McGraw Hill, 2010.
- Mishra M. N. *Organisational Behaviour*. New Delhi: Vikas, 2010.
- Prasad L.M. *Organisational Behaviour*. New Delhi: Sultan Chand, 2007.
- Sekaran Uma. *Organisational Behaviour – Text and Cases*. New Delhi: Tata McGraw Hill, 2006.

**JOURNALS**

- International Journal of Management Reviews
- Journal of Leadership and Organisational Studies
- Journal of Organisational Culture, Communication and Conflict
- SSRN – E Journal

**WEB RESOURCES**

- [www.exed.hbs.edu](http://www.exed.hbs.edu)
- [www.hbr.org](http://www.hbr.org)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

- Section A - 7 x 2 = 14 (no choice)
- Section B - 2 x 8 = 16 (from a choice of three questions)
- Section C - 1 x 20 = 20 (from a choice of two questions)

**Other Components: Total Marks: 50**

Assignments/Seminars/Group Discussion/Class Presentation

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

- Section A – 10 x 2 = 20 Marks (no choice – Max 30 Words)
- Section B – 5 x 8 = 40 Marks (from a choice of seven questions – Max 500 words)
- Section C – 2 x 20 = 40 Marks (from a choice of four questions – Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019 –2020)

**INTRODUCTION TO FINANCIAL MANAGEMENT**

**CODE:19BA/MC/IF44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint the students with the basic tools and principles of financial management
- To provide the student with a sound conceptual frame work for financial decision-making
- To enable students to evaluate the Capital Budgeting proposals
- To demonstrate to the students the importance of working capital management

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Evaluate the financial viability of investments
- Apply the techniques of Time Value of money
- Identify the factors affecting investment decisions
- Estimate the working capital requirements of the business concern

**Unit 1**

**(10 Hours)**

**Nature of Financial Management**

- 1.1 Modern Approach to Financial Management
  - 1.1.1 Investment Decisions
  - 1.1.2 Finance Decisions
  - 1.1.3 Dividend Decisions
- 1.2 Objectives of the Firm
  - 1.2.1 Profit Maximisation
  - 1.2.2 Wealth Maximisation
- 1.3 Significance of Financial Management
- 1.4 Meaning and Significance of Time Value of Money in Financial Decisions
  - 1.4.1 Computation of Time Value of Money
  - 1.4.2 Compounding Techniques
  - 1.4.3 Present Value Techniques

**Unit 2**

**(12 Hours)**

**Measurement of Cost of Capital**

- 2.1 Meaning and Significance
- 2.2 Cost of Equity and Retained Earnings
- 2.3 Cost of Debt and Preference - Redeemable and Irredeemable
- 2.4 Computation of Overall Cost of Capital - Book Value and Market Value

**Unit 3 (13 Hours)**

**Capital Structure**

- 3.1 Meaning and Significance
- 3.2 Theories of Capital Structure – Net Income Approach, Net Operating Income Approach, Traditional Approach, Modigliani & Miller Approach

**Unit 4 (15 Hours)**

**Capital Budgeting**

- 4.1 Nature of Capital Budgeting
- 4.2 Evaluating Techniques - Pay Back Period, Average Rate of Return, Net Present Value, Internal Rate of Return and Profitability Index

**Unit 5 (15 Hours)**

**Working Capital Management**

- 5.1 Need for Working Capital Management
- 5.2 Determinants of Working Capital Management
- 5.3 Computation of Working Capital Requirements

**BOOKS FOR STUDY**

Khan, M.Y. and P.K. Jain. *Basic Financial Management*. New Delhi: Tata McGrawHil, 2017.

Pandey, I. M. *Financial Management*. New Delhi: Vikas Publication House, 2016

**BOOKS FOR REFERENCE**

Chandra, Prasanna. *Fundamentals of Financial Management*. New Delhi: Tata McGraw Hill, 2017

Van Horne, James C. *Financial Management and Policy*. New Delhi: Prentice Hall of India, 2012

Kalra, Ashish. *Financial Management*. New Delhi: IGP, 2017

Maheshwari, S. N. *Financial Management*. New Delhi: Vikas Publication House, 2018.

Ravi M. Kishore. Taxmann's *Financial Management*. New Delhi: K. L. Taxmann, 8<sup>th</sup> edition, 2016

**JOURNALS**

Journal on Risk and Financial Management

Indian Journal of Finance

Finance India

**WEB RESOURCES**

[www.indianjournaloffinance.co.in/](http://www.indianjournaloffinance.co.in/)

[www.financeindia.com](http://www.financeindia.com)

<https://www.emeraldinsight.com/doi/abs/10.1108/0025174931003185>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks: 50**      **Duration: 90 mins.**

Section A -  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from choice of two questions)

**Other Components:**      **Total Marks: 50**

Assignments/Objective Test

**End-Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice 5 Questions theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – 2 theory and 5 problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions- Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**SERVICE MARKETING**

**CODE:19BA/MC/SM44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint the students with the various aspects of Service Industry
- To provide the students a comprehensive understanding of the nuances in Service management and Quality model
- To sensitise students to the working of the service industries

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to:

- Discuss the core concepts of the service industry
- Comprehend the differences in operations across the different business verticals.
- Identify the critical aspects of service management across main industries
- Explain the service pricing strategies and tactics

**Unit 1**

**(10 Hours)**

**Introduction to Service Marketing**

- 1.1 Introduction - Growth of the service sector - The Concept of Service
- 1.2 Characteristics of Service: Intangibility, Inseparability, Inconsistency, Inventory
- 1.3 Classification of Service: Consumer vs Industrial
- 1.4 Designing of the Service, Blueprinting, Using Technology, Developing Human

Resources, Building Service Aspirations

**Unit 2**

**(15 Hours)**

**Marketing Mix in Service Marketing**

- 2.1 Product Decision,
- 2.2 Service Pricing- Strategies And Tactics,
- 2.3 Promotion of Service
- 2.4 Placing Of Distribution Methods For Services.
- 2.5 Additional Dimension In Services Marketing – People, Physical Evidence And Process

**Unit 3**

**(15 Hours)**

**Effective Management of Service Marketing**

- 3.1 Marketing Demand and Supply through Capacity Planning and Segmentation
- 3.2 Internal Marketing of Services
- 3.3 External versus Internal Orientation of Service Strategy.



**Unit 4** (15 Hours)

**Service Quality and Customer Satisfaction**

- 4.1 Monitoring and Measuring Customer Satisfaction
- 4.2 Concepts and Importance of Quality in Services
- 4.3 Service Quality Models: Parasram – Zethamal Biter Gaps Model, SERVQUAL, SERVPERF - Gronos Mode

**Unit 5** (10 Hours)

**Characteristics and Cases in Service Marketing to Specific Industries**

- 5.1 Financial Services – Insurance and Banking
- 5.2 Health Service – Hospitals
- 5.3 Hospitality Services - travel, hotels and tourism
- 5.4 Professional Service - Public Utility Services
- 5.5 Educational Services – Government and Private Institutions

**BOOKS FOR STUDY**

Balaji B *Service Marketing and Management* S.Chand Publication ,2015

Shajahan S *Service Marketing Concept, Practices and Cases* .Mumbai: Himalaya, 2016

**BOOKS FOR REFERENCE**

Jan Van Bon *IT Service Management* Van Haren Publication

Norman Richard *Service Management* Wiley

Valarie A.et al, *Service Marketing* Fourth edition ,McGrand Hill 2017

Sinha, P.K Sahoo S.C *Service Marketing Text and Reading* Mumbai :Himalaya 2012

**JOURNALS**

International Journal of Research in Marketing

Journal of Service Marketing

Journal of Professional Service Marketing

**WEB RESOURCES**

<http://www.managementstudyguide.com/>

<http://blog.clientheartbeat.com/>

[www.scribd.com](http://www.scribd.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A - 7 x 2 = 14 (no choice)

Section B - 2 x 8 = 16 (from a choice of three questions)

Section C - 1 x 20 = 20 (from a choice of two questions)

**Other Components: Total Marks: 50**

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**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

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Section B – 5 x 8 = 40 Marks (from a choice of seven questions – Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four questions – Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**BUSINESS ETIQUETTE AND PRESENTATION SKILLS**

**CODE:19BA/MC/EP43**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the code of conduct at workplace
- To expose students to the rules of good workplace manners
- To acquaint students with the essentials of good presentation skills
- To assist students in recognising the positive and negative emotions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Develop and implement the essentials of business etiquettes in the appropriate business situations
- Use interpersonal skills to enhance their job effectiveness
- Conduct themselves professionally at meetings and business settings
- Use the required skills to create their own Presentations

**Unit 1 (10 Hours)**

**Business Etiquette - Introduction**

- 1.1 Etiquette – Meaning, Impact of Etiquette in Today’s Life and Difference between Etiquette and Mannerism
- 1.2 Business Etiquette – Meaning, Need and Importance of Business Etiquette
- 1.3 Classifications of Business Etiquette –Telephone Etiquette, Interview Etiquette, Meeting Etiquette and Netiquettes - Overview

**Unit 2 (11 Hours)**

**Workplace Behaviour and Emotional Intelligence**

- 2.1 Workplace Etiquette – Meaning, Do’s and Dont’s of behaviour at workplace
- 2.2 Emotional Intelligence – Meaning, Categories and Nature of Emotional Intelligence
- 2.3 Use of Emotional Intelligence at Workplace
- 2.4 Tips to Enhance Interpersonal Relationship at Workplace
- 2.5 Significance of Interpersonal Relationships in Professional Life

**Unit 3 (11 Hours)**

**Rules of Etiquettes**

- 3.1 Telephone Etiquette
- 3.2 Interview Etiquette

- 3.3 Meeting Etiquette
- 3.4 Netiquettes

#### **Unit 4 (10 Hours)**

##### **Presentation - Introduction**

- 4.1 Presentation – Meaning, Elements and Principles of Effective presentation
- 4.2 Types of Presentation
- 4.3 Salient steps to Develop Presentations
- 4.4 Causes of Ineffective Presentation

#### **Unit 5 (10 Hours)**

##### **Skills for Presentation**

- 5.1 Meaning of Presentation skills and Ways to improve the Presentation Skills
- 5.2 Thumb rule in making Presentation
  - 5.2.1 10-20-30 Rule
  - 5.2.2 6X6 Rule
- 5.3 Features and Techniques of Good Presentation

#### **BOOKS FOR STUDY**

Barbara Pachter with Denise Cowie. *The Essentials of Business Etiquette*. Mc Graw Hill Education, 2013

Ishita Bhowan. *Improve Your Presentation Skills*. V & S Publisher, 2014

#### **BOOKS FOR REFERENCE**

Paul. A. Argenti. *Corporate Communication*, 6<sup>th</sup> Edition, 2013

Ann Marie Sabath. *Business Etiquette – 101 ways to conduct Business with Charm and Savvy*. Fw Media; 3<sup>rd</sup> Edition, 2010

Kelly M. Quintanilla & Shawn T. Wahl. *Business and Professional Communication*. SAGE Publications, Inc; 2<sup>nd</sup> Edition, 2013

#### **JOURNALS**

Journal of Business Communication  
 International Journal of Management  
 Journal of Education for Business

#### **PATTERN OF ASSESSMENT**

##### **Continuous Assessment Total Marks:50**

- |                                      |         |
|--------------------------------------|---------|
| 1. Case Study – Situational Analysis | 30marks |
| 2. Group Discussion                  | 10marks |
| 3. Role Play                         | 10marks |

##### **End-Semester Examination Total Marks:50**

Individual Presentation with Audio Visual aids and Project with Viva	50marks
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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**QUANTITATIVE TECHNIQUES FOR DECISION MAKING**

**CODE: 19BA/AC/QT45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide the students an understanding of statistical data analysis and models used in decision making
- To assist students to appreciate the relevance of project scheduling on business decision
- To expose students to the quantitative techniques in decision making

**COURSE LEARNING OUTCOME:**

On successful completion of the course, students will be able to

- Apply the mathematical tools to solve the optimisation problems
- Make appropriate decision using various analytical methods for business activities and Networking.
- Identify appropriate techniques for decision making
- Develop models using relevant techniques

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Introduction to Quantitative Techniques
- 1.2 Application of Statistics in Managerial Decision.
- 1.3 Operations Research Techniques for Decision Making

**Unit 2 (15 Hours)**

**Correlation Analysis and Regression Analysis**

- 2.1 Correlation Analysis
  - 2.1.1 Karl Pearson's Co-efficient of Correlation
  - 2.1.2 Partial and Multiple Correlation
  - 2.1.3 Rank Correlation
- 2.2 Simple, Linear Regression

**Unit 3 (15 Hours)**

**Quantitative Analysis for Decision Making**

- 3.1 Linear Programming – Introduction, Terminology and Applications, Mathematical Formulation of a Linear Programming Problem, Graphical Solution, Algebraic Method (Simplex Method), Maximisation and Minimisation Cases (Single and Mixed Constraints), Duality: Concept and Interpretation
- 3.2 Game Theory – Introduction and Basic Terminology, Competitive Games and Rectangular Game, Saddle Point, Value of the Game, Mixed Strategies, Rule of Dominance

**Unit 4 (15 Hours)**

**Distribution and Assignment Problems**

- 4.1 Transportation problems
  - 4.1.1 Northwest Corner Rule
  - 4.1.2 Row Minima and Column Minima
  - 4.1.3 Least Cost Method
  - 4.1.4 Vogel's Approximation Method (VAM)
  - 4.1.5 MODI Method – Simple Problem
- 4.2 Assignment problems
  - 4.2.1 Balanced and Unbalanced Assignment Problems
  - 4.2.2 Formulation of Hungarian Method for optimal solution

**Unit 5 (10 Hours)**

**Project Scheduling and Network Analysis**

- 5.1 Meaning, Objectives and Applications
- 5.2 Techniques of Network Analysis- PERT and CPM
- 5.3 Calculation of Floats
- 5.4 Calculation of Expected Duration and Variance

**BOOKS FOR STUDY**

Gupta, S.P., *Statistical Methods*, Sultan Chand & Sons, 12<sup>th</sup> edition New Delhi 2017  
Gupta P K & Gupta S P, *Quantitative Techniques & Operations Research*, Sultan Chand and Sons, New Delhi. 2014

**BOOKS FOR REFERENCE**

Aggarwal, D.R. *Quantitative Methods (Mathematics and Statistics)*, New Delhi, Sultan Chand and Sons. 2010  
Dr. P.R. Vittal, *Introduction to Operations Research*, Margham Publications. 2012  
A.M. Natarajan, P. Balasubramani, A. Tamilarasi, *Operations Research*, Pearson Education.  
Prem Kumar Gupta and D.S. Hira, *Operations Research*, Sultan Chand & Sons. 2014  
Hamdey A. Taha, *Introduction to Operations Research*, Prentice Hall India, Tenth edition,

**WEB RESOURCES**

<http://www.learnaboutor.co.uk>  
[www.orcomplete.com](http://www.orcomplete.com)  
<http://www.orsi.in>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks: 50**      **Duration: 90 minutes**

Section A -  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of four questions)

Section C -  $1 \times 20 = 20$  (from choice of two questions)

**Other Components:**      **Total Marks: 50**

Assignments/ Test

**End-Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice) 5 Questions theory and 5 Problems

Section B –  $5 \times 8 = 40$  Marks (From a choice of seven questions - Problems)

Section C –  $2 \times 20 = 40$  Marks (From a choice of four questions - Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PERFORMANCE MANAGEMENT**

**CODE:19BA/MC/PM54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To develop an understanding of the importance and need for Performance Management systems in a business
- To provide the students a comprehensive knowledge on the process of performance planning and execution
- To acquaint the students with the nuances of Performance Management that is common in most business

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Understand the performance appraisal system and its importance in organisations especially in the early years of their career
- Comprehend the Potential areas and relate it to their performance at work place.
- Understand the duty of as an employee and as a manager in the performance management system of the company
- Assimilate knowledge on training and competency mapping

**Unit 1 (12 Hours)**

**Performance Planning**

- 1.1 Performance Planning- Definition, Meaning
- 1.2 Determining Key Job Responsibilities – Key Result Areas and Key Performance Indicators
- 1.3 Goal Setting and Goal Statement-SMART Objectives
- 1.4 The Performance –Planning Meeting, Responsibilities of the Employees and Managers

**Unit 2 (13 Hours)**

**Performance Execution**

- 2.1 Performance Tracking and Performance Motivators
- 2.2 Performance Execution – Managerial and Employee Responsibilities
- 2.3 Role of Top Management in Performance Evaluation Process
- 2.4 Self-Appraisal – Importance and Methods

**Unit 3 (15 Hours)**

**Performance Assessment**

- 3.1 Performance Appraisal Methods: Straight Ranking, Paired Comparison, Critical Incident, Free Essay, Check List, Behaviorally Anchored Rating Scale, MBO ( in Brief)
- 3.2 Performance Evaluation Form – Characteristics of an Ideal form, Kinds of Questions
- 3.3 Rating Scales and Rating Errors
- 3.4 Bias and Issues in Performance Assessment

**Unit 4 (13 Hours)**

**Performance Review**

- 4.1 Performance Review Discussion (PRD) – Constructive Feedback
- 4.2 Roles of employee and manager in review process
- 4.3 Closure of review process
- 4.4 Documentation of Appraisal review

**Unit 5 (12 Hours)**

**Performance Appraisal Report**

- 5.1 Linking Scores to Compensation Planning , Training and Competency Mapping
- 5.2 Reasons for Failure of Performance Appraisal
- 5.3 Management training requirements for performance appraisals

**BOOKS FOR STUDY**

Rao T V, *Performance Management – Towards Organizational Excellence* – Sage Publications 2016  
Bhattacharya D K , *Performance Management Systems and Strategies* , Pearson Publicatons , 2011

**BOOKS FOR REFERENCE**

John Ivancevich: *Human Resource Management* , McGraw- Hill Publications  
Demartini Chaiara , *Performance Management – Design, Diagnosis and Use*, Springer, 2014  
Cleveland Jeanette, Murphy R Kevin and Hanscom Madison, *Performance Appraisal and Management* . Sage Publications , 2017  
Heman Agunis *Performance Management* , Pearson Education 2007

**JOURNALS**

International Journal of Productivity and Performance Management  
South Asian Journal for HRM  
Human Resource Management Review

**WEB RESOURCES**

<https://www.emeraldinsight.com>  
[www.businessdictionary.com](http://www.businessdictionary.com)  
[www.sciencepublishinggroup.com](http://www.sciencepublishinggroup.com)



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

### **Other Components:**

**Total Marks: 50**

Quiz/Group discussion/Assignments/Class Presentation/Case Study

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS TAXATION**

**CODE:19BA/MC/BT54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide an overview of Direct Taxation law
- To acquaint the students with the provisions relating to GST.
- To equip the students with practical knowledge of computing the taxable income and tax liability of an individual assessee.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Compute taxable income and tax liability of an individual
- Identify tax planning avenues
- Appreciate the nuances of GST Law.
- Compute business and professional income

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Taxation – Meaning, Importance, Features and Types of Tax
- 1.2 Basic Concepts in Income Tax
- 1.3 Residential Status and Incidence of Tax

**Unit 2 (15 Hours)**

**Income under the Head Salaries**

- 2.1 Salary – Meaning, Basis of Charge
- 2.2 Allowances, Perquisites, Other Receipts.
- 2.3 Treatment of Provident Fund
- 2.4 Computation of Taxable Salary

**Unit 3 (15 Hours)**

**Income under the Head House property and Profits and Gains from Business and Profession**

- 3.1 House Property - Basis of Charge and Computation of Self-Occupied and Let out House property income
- 3.2 Computation of Profits and Gains of Business and Professional Income
- 3.3 Capital Gains – Computation of Short Term and Long Term Capital Gains

**Unit 4 (15 Hours)**

**Computation of Taxable Income and Tax Liability**

- 4.1 Income from Other Sources – Casual and General Incomes
- 4.2 Set-off and Carry forward of Losses
- 4.3 Deductions
- 4.4 Computation of Tax Liability

**Unit 5****(10 Hours)****Overview of GST**

5.1 Basic concepts, Levy and Liability under GST

5.2 Central GST Act 2017, Integrated GST Act 2017, State GST Act 2017, Union Territory GST Act 2017

**BOOKS FOR STUDY**

Balachandran, V. Indirect Taxes. New Delhi: Sultan Chand

Gaur, V.P. and D.B Narang. Income Tax Law and Practice. Kalyani Publishers

**BOOKS FOR REFERENCE**

Ahuja, Girish and Gupta Ravi. Practical Approach to Income Tax, 37th Edition, Wolter's Kluwer

Mehrotra, H.C. Income Tax Law and Practice. Sahitya Bhawan 59th Edition,

Singhania, Vinod K. Student's Guide To Income Tax. Taxmann, 59th Edition,

T.S. Reddy &amp; Y.Hariprasad, Business Taxation. Margham,

**NOTE:** Latest edition of Books to be used**JOURNALS**

Excise Law Times (Fortnightly Reporting Journal)

Excise and Customs Cases (Fortnightly Reporting Journal)

Excise and Customs Reporters (Fortnightly Reporting Journal)

Direct Taxes Report Journal

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**Section A -  $3 \times 2 = 6$  (no choice)Section B -  $3 \times 8 = 24$  (from a choice of four questions)Section C -  $1 \times 20 = 20$  (from choice of two questions)**Other Components:****Total Marks: 50**

Assignments/Test/Quiz

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**NEW VENTURE MANAGEMENT**

**CODE: 19BA/MC/NV53**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To provide a comprehensive knowledge on the various aspects related to new venture management.
- To familiarise student with the practical knowledge of establishing a business
- To enable students to understand the entrepreneurial opportunities and challenges in a changing environment

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify different sources of opportunities and facilities available for an entrepreneurial venture
- Assess the commercial viability of new technologies and business opportunities
- Identify a suitable form of organization
- Employ effectively environmental factors in setting up a new venture.

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Concept of Entrepreneurship - Meaning, Definition, Characteristics, Barriers and Need for Entrepreneurship
- 1.2 Entrepreneur - Meaning, Definition, Scope, Need, Function and Types of Entrepreneur
- 1.3 Factors Influencing Entrepreneurship Development

**Unit 2 (10 Hours)**

**Enterprise Launching**

- 2.1 Idea Generation and Screening of Business Idea- Sources, Evaluation and Selection
- 2.2 Business Plan – Meaning, Contents and Significance of Business Plan
- 2.3 Bouncing Boards

**Unit 3 (10 Hours)**

**Project Identification**

- 3.1 Project Identification and Classification
  - 3.1.1 Meaning and Types of Project
  - 3.1.2 Internal and External Constraint in Project Identification
  - 3.1.3 Project Life Cycle
- 3.2 Preparing Model Project Report for Starting a New Venture

**Unit 4 (10 Hours)**

**Project Formulation**

- 4.1 Project Formulation - Meaning, Concept, and Stages in Project Formulation
- 4.2 Need and Significance of Project Formulation, Feasibility Analysis
- 4.3 Elements of Project Formulation
- 4.4 Feasibility Report

**Unit 5 (12 Hours)**

**Selection of Form of Business Ownership**

- 5.1 Choice of Organization – Meaning, Factors Determining the Choice of Ownership
- 5.2 Business Formats
- 5.3 Business Evaluation
- 5.4 Sources of Finance

**BOOKS FOR STUDY**

S.S.Khanka. *Entrepreneurial Development*. New Delhi: S. Chand,.  
Gupta C.B. & Srinivasan N. P. *Entrepreneurial Development*. New Delhi: Sultan Chand

**BOOKS FOR REFERENCE**

Sangeetha Sharma. *Entrepreneurship Development*: PHI Learning Pvt Ltd.  
Charantimath. *Entrepreneurship development & Small business enterprise*. New Delhi: Pearson,  
Jayashree Suresh. *Entrepreneurial Development*. New Delhi: Margham,.  
Raj Shankar. *Essentials of Entrepreneurship*. Vijay Nicol,

**JOURNALS**

Journal of Business venturing  
Journal of development entrepreneurship  
Journal of entrepreneurship education

**WEB RESOURCES**

[www.yourarticlelibraray.com](http://www.yourarticlelibraray.com)  
[www.entrepreneurindia.com](http://www.entrepreneurindia.com)  
[www.entrepreneur.com](http://www.entrepreneur.com)  
[www.businessesforsale.com](http://www.businessesforsale.com)

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 7 x 2 = 14 Marks (no choice)		
Section B – 2 x 8 = 16 Marks (from a choice of three)		
Section C – 1 x 20 = 20 Marks (from a choice of two )		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Seminar/Group Discussion/Assignments/Class Presentations	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)		
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)		
Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LEADERSHIP AND TEAM MANAGEMENT**

**CODE:19BA/MC/LT53**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To expose students to the leadership behavior and their styles.
- To familiarise students about various leadership theories
- To acquaint students with Team Management process
- To inculcate the qualities for building and leading a Team

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply leadership theories and practices to their decision-making
- Develop and implement critical thinking skills in team building
- Recognise the implications of leadership style and its impact on team and organizational performance
- Demonstrate the skills required to work effectively with teams to achieve high performance

**Unit 1 (10 Hours)**

**Leadership – Introduction**

- 1.1 Leadership – Meaning, Definition, Attributes and Characteristics of Leader
- 1.2 Styles and Approaches of Leadership,
- 1.3 Types of Leadership and Steps for effective Leadership

**Unit 2 (10 Hours)**

**Leadership – Theories and Factors**

- 2.1 Theories of Leadership – Types - Trait Theory, Behavioral and Style Theory, Managerial Grid Model Theory, Functional Theory, Transactional and Transformational Theory
- 2.2 Factors Influencing Leadership

**Unit 3 (10 Hours)**

**Team - Introduction**

- 3.1 Team – Meaning, Nature and Importance of Team
- 3.2 Purpose of Team, Types of Team
- 3.3 Models of Team
- 3.4 Characteristics of a Good Team

**Unit 4 (12 Hours)**

**Team Development and Team Building**

- 4.1 Team Development – Meaning, Tuckman's Team Development Model
- 4.2 Team Building – Meaning, Importance and Principles of Team Building
- 4.3 Success Factors in Team Building
- 4.4 Difference between Team Building and Team Development

**Unit 5 (10 Hours)**

**Team Management**

- 5.1 Team Management – Meaning and Features of Team Management
- 5.2 Team Management Skills and Team Management process
- 5.3 Leadership Roles in Team Management
- 5.4 Responsibilities of Team Leader

**BOOKS FOR STUDY**

Jan Carmichael, et.al. *Leadership and Management Development*, Oxford Publications, 2011  
Uday Kumar Haldar, *Leadership and Team Building*, Oxford Publications, 2010

**BOOKS FOR REFERENCE**

Chandra Mohan, *Leadership and Management*, Himalaya Publishing House, 2007  
Richard Hughes, Robert C. Ginnett, Gordon J Curphy, *Leadership: enhancing the lessons of Experience*, McGraw –Hill Publication, 6th Edition, 2011  
T.V. Rao, Charu Sharma, *100 Managers in Action*, McGraw- Hill Publication, 2012  
Bonnie T Yarbrough, *Leading groups & Team*, Cengage Learning, New Delhi, 2011

**JOURNALS**

Journal of Leadership Education  
Journal of the Human Factors and Ergonomics Society  
Academy of Management Journal  
Journal of Education for Business

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A -  $7 \times 2 = 14$  (no choice)  
Section B -  $2 \times 8 = 16$  (from a choice of three questions)  
Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components: Total Marks: 50**

Assignments/Seminars/Class Presentation

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 Words)  
Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – Max 500 words)  
Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions – Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMUS), CHENNAI-600 086**

**Interdisciplinary Core Course Offered by the Department of Commerce (Corporate Secretaryship and Business Administration) to B.Com Corporate Secretaryship and B.B.A. Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**COMPENSATION MANAGEMENT**

**CODE:19ID/IC/CM55**

**CREDITS: 5**

**L T P 5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the compensation concepts
- To provide to the students various dimensions of Compensation Management
- To enable students to understand the legal provisions relating to employee benefits

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Relate compensation management to behavioural theories and concepts
- Identify the internal and external environment factor which impact the salary structure
- Comprehend the provisions relating to compensation management
- Understand the concepts on wage payments

**Unit 1 (16 Hours)**

**Wage and Salary Administration**

- 1.1 Concept of Wages and Salary, Theories of Wage
- 1.2 Types of wages, Components of wages
- 1.3 Factors determining wages, Principles of wage administration

**Unit 2 (16 Hours)**

**Wage Legislations**

- 2.1 Principles of Equal Pay for Equal work
- 2.2 Job Evaluation – Definition , Objectives,
- 2.3 Methods, Classification, Factor Comparison Method and Point Method of Job Evaluation

**Unit 3 (17 Hours)**

**Compensation Classification**

- 3.1 Types - Incentives, Fringe Benefits
- 3.2 Strategic Compensation Planning
- 3.3 Determining Compensation

**Unit 4 (16 Hours)**

**Wage Structure**

- 4.1 Wage Fixation – Flat Rate, Merit Rate, Wage Surveys.
- 4.2 Wage Payment – Wage Payment Policies - Wage Payment Systems – Wage Incentive Plans, Blue Collar Employees, White Collar Employees.



**Unit 5****(13 Hours)****Workmen's Compensation Act, 1923**

- 5.1 Object, Scope and Coverage of the Act
- 5.2 Definitions – Dependent, Employer, Partial and Total Disablement, Workmen Injury Accident
- 5.3 Rules Regarding Employees Compensation
- 5.4 Amount and Distributions of Compensation, Notice and Claim

**BOOKS FOR STUDY**

Kapoor .N.D. *Elements of Industrial law* , Sultan Chand and Sons ,New Delhi, 2017  
Singh, B.D *Compensation & Reward Management*. Excel Book, New Delhi, 2016  
Gupta. C.B. *Human Resource Management*, Sultan Chand Publishers, New Delhi, 2017  
Flippo, Edwin B. , *Personnel Management*, McGraw Hill  
George.T. Milkovich, *Compensation:special Indian edition*, McGraw Hill,2017

**JOURNALS**

Journal of Commerce  
Journal of Management  
Journal of Compensation Management

**WEB RESOURCES**

<https://www.hr-guide.com/data/G400.html>  
[www. mca.gov.in](http://www.mca.gov.in)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A –7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 =16 Marks (from a choice of three)  
Section C –1 x 20 = 20 Marks (from a choice of two )

**Other Components:** **Total Marks: 50**

Seminars / Assignments/Class Presentation/Multiple Choice Questions/Case study

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A –10 x 2 = 20 Marks (no choice - Max 30 words )  
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)  
Section C –2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by Bachelor of Business Administration and  
Bachelor of Social Work for B.S. W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CREATION, MANAGEMENT AND DEVELOPMENT OF SOCIAL ENTERPRISES**

**CODE : 19ID/IC/SE55**

**CREDITS : 5**

**L T P : 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To provide students with an overview on Social Enterprise as a major sector
- To orient students with case studies on Successful Social Enterprises.
- To sensitise students on the need assessments frameworks.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify and differentiate types of organisations involved in the Social Enterprise Sector from Private and Public sectors.
- Have skills that are important for the creation, management and development of social enterprises
- Assess the needs of the communities/clients to be served/ being targeted.
- Build competencies in Social Audit of the organisations.

**Unit 1 (15 Hours)**

**The Third Sector, Emergence of Social Enterprises and the Concept of  
'Business at the Base of the Pyramid'.**

- 1.1 Third Sector as a distinct Sector from Public and Private Sectors, Range of organisations that are termed as Third Sector Organisations.
- 1.2 Social Enterprises: Definition, Meaning, Factors leading to the emergence of Social Enterprises.
- 1.3 'Business at the base of the Pyramid' – understanding the Latent Market Potential of the Poor.
- 1.4 Principles underlying the BOP concept

**Unit 2 (15 Hours)**

**Social Entrepreneurship**

- 2.1 Characteristics and Role of a Social Entrepreneur
- 2.2 Supporting Agencies – Ashoka, Skoll Foundation, Miller Center for Social Entrepreneurship
- 2.3 Case studies: Bunker Roy – BARE FOOT COLLEGE, Joseph Nkandu – NUCAFE, Harish Hande – SELCO, Anushka Ratnayake – MYAGRO, Arunachalam Muruganantham – JAYAASHREE INDUSTRIES.

**Unit 3** (18 Hours)  
**Creation of Social Enterprise**

- 3.1 Vision, Mission, Objectives, Board
- 3.2 Need Assessment-Baseline Survey, Participatory Project Planning Techniques, PRA, RRA, Logical Frame Work Analysis
- 3.3 Development of a Product or Service

**Unit 4** (15 Hours)  
**Management of NGOs**

- 4.1 Concept of Volunteerism, Charity, Welfare and Development
- 4.2 National Policy Related to NGO
- 4.3 Legal Aspects in NGOs
- 4.4 NGO Environment

**Unit 5** (15 Hours)  
**Functional Framework in NGOs**

- 5.1 Office Procedure and Documentation
- 5.2 Fund Raising and Accounting Practises
- 5.3 Pareto Optimality Concept in Planning
- 5.4 Social Marketing

**BOOKS FOR STUDY**

Paramasivan C, Social Entrepreneurship, New Delhi, UBS Publishers Distributors Pvt Ltd. 2016.

Nicholls, Alex. *Social Entrepreneurship, New Models of Sustainable Social Change*, Oxford: Oxford University Press, 2011.

**BOOKS OF REFERENCE**

Ridley-Duff, R. J. and Bull, M. *Understanding Social Enterprise: Theory and Practice*, London: Sage, 2011.

Bornstein, David. *How to Change the World*, New York: Penguin Books. 2005.

Bansal, Rashmi, *I have a dream*, Noida: Westland and Tranquebar Press, 2011.

Yunus, M, *Banker to the Poor*, USA: Penguin Books, 1999

Padaki & Manjulika, Management Development in Non-Profit Organisation, New Delhi: Sage. 2005

Chambers, R. The Origins and Practice of Participatory Rural Appraisal, World Bank. UK: Elsevier Science Ltd, 1994

Crutchfield, R. Leslie and McLeod Heather, Grant, *Forces for Good: The Six Practices of High-Impact Nonprofits*, USA: HB Printing, 2007.

Kramer, R, Mark. Measuring Innovation: Evaluation in the Field of Social Entrepreneurship, USA: Foundation Strategy Group, 2005.

**JOURNAL**

Journal of Social Entrepreneurship (<http://www.tandfonline.com>)

**WEB RESOURCES**

<https://www.ashoka.org>

<http://www.skollfoundation.org>

Video on Arvind Hospitals - <https://www.youtube.com/watch?v=4Mg3-eOQYYQ>

Video on “Building Social Business Ventures” by Muhammad Yunus

<https://www.youtube.com/watch?v=kW-4gJmXy5M>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 mins.**

Section A –  $7 \times 2 = 14$  marks (No choice)

Section B –  $2 \times 8 = 16$  marks (from a choice of 3 questions)

Section C –  $1 \times 20 = 20$  marks (from a choice of 2 questions)

### **Other Components:**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests

### **End-Semester Examination**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  marks (no choice – max. 30 words)

Section B –  $5 \times 8 = 40$  marks (from a choice of 7 questions – max. 500 words)

Section C –  $2 \times 20 = 40$  marks (from a choice of 4 questions – max. 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INDUSTRIAL RELATIONS MANAGEMENT**

**CODE:19BA/MC/IR64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the employee relations scenario in India
- To provide students an understanding of the various issues in management of Industrial Relation in the modern business environment
- To familiarise student with factors affecting Industrial relation
- To enable students to understand the concept of Conflict and Grievance handling.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the various factors affecting Industrial Relation in the changing environment
- Understand the techniques of handling grievance
- Analyse industrial relations issues.
- Apply the industrial relations concepts in Negotiations.

**Unit 1 (5 Hours)**

**Introduction**

- 1.1 Industrial Relations –Characteristics, Scope, Importance and Objective of IR.
- 1.2 Factors affecting Industrial Relations in the Changing Environment

**Unit 2 (15 Hours)**

**Industrial Conflict and Grievance Handling**

- 2.1 Conflict – Meaning, Causes, Types, Prevention and Settlement of Conflict.
- 2.2 Industrial Dispute - Nature, Causes, Types and Measures for Prevention and Settlement for Industrial Disputes
- 2.3 Grievance Handling - Meaning, Nature and Causes, Grievance Redressal Machinery in India
- 2.4 Disciplinary Procedure-Indiscipline, Causes of Indiscipline

**Unit 3 (15 Hours)**

**Collective Bargaining**

- 3.1 Meaning, Nature, Types, Process and Importance of Collective Bargaining
- 3.2 Factors Influencing Bargaining, Suggestions to Improve Collective Bargaining
- 3.3 Negotiations - Types of Negotiations, Problem Solving Attitude
- 3.4 Arbitration and Settlement

**Unit 4 (15 Hours)**

**Workers Participation in Management**

4.1 Objective and Importance of Worker's Participation in Management

4.2 Forms and Levels of Participation, Issues in Participation

4.3 Benefits of Worker's Participation in Management

**Unit 5 (15 Hours)**

**Labour Legislation**

5.1 Objectives and Principles

5.2 Forces Influencing Modern Labour Legislation

5.3 Case Studies on Labour Legislation

**BOOKS FOR STUDY**

Sinha, P.R.N. Indu Bala Sinha & Seema Priyadarshini Shekhar. Industrial relations, Trade Unions and Labour Legislation; Pearson Education, 2017

Mamoria, C.B. & S. Mamoria. Dynamics of Industrial Relations in India, Mumbai; Himalaya, 2011

**BOOKS FOR REFERENCE**

Bray M, Waring P, Cooper R, Macneil JL. Employment Relations: Theory and Practice, Sydney: McGraw Hill, 2014

Singh, P. & Kumar, N. Employee Relations Management, New Delhi: Pearson Education India, 2012

Tripathi, P.C. Personne, Management & Industrial Relationship. New Delhi: Sultan Chand, 2011

Dwivedi, R.S. Managing, Human Resources: Industrial Relations in Indian Enterprises. Delhi: Galgotia, 2009

**JOURNALS**

Indian Journal of Industrial Relations

Journal of Advances in Management

**WEB RESOURCES**

<https://www.wisdomjobs.com>

<https://www.managementstudyguide.com>

[www.yourarticlelibrary.com](http://www.yourarticlelibrary.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:**

**Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four - Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION  
SYLLABUS**

(Effective from the academic year 2019–2020)

**TOTAL QUALITY MANAGEMENT**

**CODE:19BA/MC/TQ63**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To introduce to students the basic concepts of Total Quality Management
- To acquaint students with the Framework of Total Quality Management
- To impart knowledge to students on various quality systems like ISO and its standards.
- To educate students on the relevance of Total Quality Management in manufacturing and service industry

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Comprehend the key aspects of Total Quality Management
- Apply TQM techniques in manufacturing and service processes
- Understand the standards in Quality Management Systems
- Recognize the importance of Six Sigma and its Framework

**Unit 1 (10 Hours)**

**Introduction to Total Quality Management**

- 1.1 Meaning of Quality, Quality Control, Quality Assurance
- 1.2 Importance and Dimensions of Quality
- 1.3 Basic Principles of Total Quality Management
- 1.4 Evolution of Total Quality Management
- 1.5 TQM and Traditional Management

**Unit 2 (11 Hours)**

**Philosophical Framework to Total Quality Management**

- 2.1 Deming's Contributions-Principles, Chain reaction, Deming Wheel, Seven Deadly sins
- 2.2 Juran's Quality Trilogy and Breakthrough sequence
- 2.3 Philip Crosby's Zero Defects
- 2.4 Taguchi's Quality Loss Function

**Unit 3 (10 Hours)**

**Benchmarking**

- 3.1 Meaning, Definition and Types of Benchmarking

- 3.2 Benchmarking Process- Advantages and Pitfalls
- 3.3 Concept of Kaizen and its Applications

**Unit 4 (10 Hours)**

**Quality Management Systems**

- 4.1 Introduction to Quality Management Systems
- 4.2 International Standards Organization (ISO) Registration and Benefits
- 4.3 Environmental Management System (EMS)

**Unit 5 (11 Hours)**

**Quality Control and Six Sigma**

- 5.1 Quality Control- Tools and Quality Function Development
- 5.2 Introduction to Six Sigma
- 5.3 Six Sigma Process – An Overview

**BOOKS FOR STUDY**

Besterfield H Dale, *Total Quality Management*, New Delhi: Pearson Education, 2011  
James R. Evans, *Management and Control of Quality*, New Delhi: Cengage Learning, 2012

**BOOKS FOR REFERENCE**

Kiran D R, *Total Quality Management: Key Concepts and Case Studies*, New Delhi: B S Publications, 2017  
Bhat. Shridhar, *Total Quality Management*, New Delhi, Himalaya Publication, 2010  
Dodrajaka Sangeeta, *Total Quality Management Text and Cases*, New Delhi: Deep & Deep Publications Pvt Ltd, 2007  
Mukherjee P N, *Total Quality Management*, New Delhi: Prentice Hall of India, 2010

**JOURNALS**

The TQM Journal  
TQM Journal  
International Journal of Quality and Reliability Management  
Journal of Quality and Reliability Engineering

**WEB RESOURCES**

<https://www.sixsigmadaily.com/>  
<https://the9000store.com/>  
<http://leansixsigmadefinition.com/>  
<https://quality-one.com/six-sigma/>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 = 16 Marks (from a choice of three)  
Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components: Total Marks: 50**  
Seminars/ Quiz/ Group discussion/ Assignments/ Class Presentation.

**End-Semester Examination: Total Marks: 50 Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )  
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**GLOBAL BUSINESS MANAGEMENT**

**CODE:19BA/MC/GB63**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To provide the students a comprehensive understanding from a global perspective
- To enable the students to administer the various business functions and managing their work in a global business environment
- To acquaint the students with the cultural differences between countries

**COURSE LEARNING OUTCOME**

On successful completion of the course, the students will be able to

- Understand the cultural differences that are important in business practices.
- Choose the best form of international business modes, based on product or industry
- Comprehend the functional process in working across countries with specific reference to HR, Finance, Marketing.
- Assimilate the differences in business practices in business across countries.

**Unit 1 (10 Hours)**

**Understanding Global Business**

- 1.1 Globalization – Meaning and Growth
- 1.2 Understanding Cultural Dimensions
  - 1.2.1 Hofstede's Cultural Dimensions
  - 1.2.2 Trompennar's Understanding of Cultural Differences

**Unit 2 (12 Hours)**

**International Business – Country's Perspective and Forms**

- 2.1 Porters Model for Understanding Country Competitive Advantage
- 2.2 Country Risk and Political Risk in International Business
- 2.3 Various modes of International Business – Meaning , Features , Pros and Cons:  
Mergers and Acquisitions, Franchising, Licensing ,Wholly Owned Subsidiary

**Unit 3 (10 Hours)**

**Human Resource Management in a Global Perspective**

- 3.1 Work Diversity
- 3.2 Compensation Planning
- 3.3 Decision Making and Organizational Structures

**Unit 4** **(10 Hours)**  
**Marketing in A Global Perspective**

- 4.1 Product Planning and Customizing
- 4.2 Advertising – Localized Advertising and Customer Loyalty to Domestic Products
- 4.3 E-Advertising and Online Marketing for Global Reach
- 4.4 Establishing International Brand Equity

**Unit 5** **(10 Hours)**  
**International Financial Institutions – An Overview**

- 5.1 International Monetary Fund
- 5.2 World Bank
- 5.3 World Trade Organisation

**BOOKS FOR STUDY**

Hodgetts, - Luthas - Doh, , *International Management* , McGrawHill , 6<sup>th</sup> Edition  
Keegan W. J. *Global Marketing Management*. New Delhi: Prentice Hall of India, 2013  
Holton R K , *Global Finance* , Routledge, USA and Canada, 2012

**BOOKS FOR REFERENCE**

Johansson J.K. *Global Marketing*. 4th edition. New Delhi: Tata, McGraw Hill, 2010.  
Epstein A Gerald *Financialization and the World Economy*, Edward Elgar Publishing, USA,  
Adekola Abel and Sergi S Burno, *Global Business Management* – Ashgate Publishing , UK,  
Peter.J.Drooling and MaronFesting, *International HRM* ,Cengage Learning Ind(P) Ltd.

**JOURNAL**

Journal of International Business Studies  
International Business Review  
Global Business Review

**WEB RESOURCES**

[www.edx.org/learn/international-business](http://www.edx.org/learn/international-business)  
[www.businessdictionary.com](http://www.businessdictionary.com)

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
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Section A - 7 x 2 = 14 (no choice)  
Section B - 2 x 8 = 16 (from a choice of three questions)  
Section C - 1 x 20 = 20 (from a choice of two questions)

<b>Other Components:</b>	<b>Total Marks: 50</b>
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Assignments/Seminars/Class Presentation

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
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Section A – 10 x 2 = 20 Marks (no choice – Max 30 Words)  
Section B – 5 x 8 = 40 Marks (from a choice of seven questions – Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four questions – Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**PROJECT MANAGEMENT**

**CODE: 19BA/MC/PJ64**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide the students a complete understanding of projects and its various stages
- To enable the students to understand the stages in project management.
- To equip the students to integrate all the stages of a project from introduction to completion.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Plan and execute projects/tasks in a planned and phased manner
- Quantify the progress and use appropriate tools at various project stages for evaluation
- Comprehend the team dynamics in project execution
- Evaluate a project

**Unit 1 (13 Hours)**

**Introduction of Project Management**

- 1.1 Understanding Project – Characteristics and Types
- 1.2 Constrains of a Project
- 1.3 Project Life Cycle- Importance and Phases

**Unit 2 (13 Hours)**

**Project Identification and Selection**

- 2.1 Project Management Process
- 2.2 Feasibility Study - Technical , Social , Ecological , Economic
- 2.3 Project Initiation Document (PID) – Contents and Importance

**Unit 3 (13 Hours)**

**Project Planning**

- 3.1 Tools, Structure, Sub Plans
- 3.2 Budgeting
- 3.3 Risk Management Process

**Unit 4 (13 Hours)**

**Project Evaluation, Measurement and Control**

- 4.1 Managing Changes
- 4.2 Measurement – using Tools and Charts
- 4.3 Project Control Management System – Performance and Conformance Report
- 4.4 Reviews, Reports, Meetings and Post Completion Audit

## Unit 5

### Human Aspects of Project

(13 Hours)

- 5.1 Pre requisites of a Good Project Manager
- 5.2 Roles within the Project Team
- 5.3 Project Termination and Reasons for Failure of a Project
- 5.4 Case Study

### BOOKS FOR STUDY

Passenheim Olaf *Project Management . Bookboon, A E- Book Company* , 2012

Harold Kerzner, *Project Management: A system Approach to Planning, scheduling and controlling*, New Delhi: Wiley Publication,2013.

### BOOKS FOR REFERENCE

PMBOK Guide, *Project Manager Institute*, 5<sup>th</sup> Edition.

Jack RMeridith, Samuel J Mantel JR, Scott M.Snafer, *Project Management: A Managerial Approach*, USA:John Wiley &

Sons,2014.

Gautam V.Desai,Eril.W.Larson,Clifford F.Gray, *Project Management:The Managerial Process*,6<sup>th</sup>

Edition

Lionel SM Alley , *Corporate Project Management*, USA., (E-Book)

### JOURNAL

International Journal of Project Management

Project Management Journal - PMI

### WEB RESOURCES

<https://www.projectmanagement.com>

<https://www.pmi.org.in/>

<https://www.apm.org>.

### PATTERN OF ASSESSMENT

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 mins.**

Section A - 7 x 2 = 14 (no choice)

Section B - 2 x 8 = 16 (from a choice of three questions)

Section C - 1 x 20 = 20 (from a choice of two questions)

**Other Components: Total Marks: 50**

Assignments/Seminars/Class Presentation

**End Semester Examination Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice – Max 30 Words)

Section B – 5 x 8 = 40 Marks (From a choice of seven questions –Max 500 words)

Section C – 2 x 20 = 40 Marks (From a choice of four questions –Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**TRAINING AND DEVELOPMENT**

**CODE: 19BA/ME/TD45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the need for training and development in an organisation
- To facilitate the students to design and develop training programmes
- To expose students to the different techniques of training

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Identify skills required to design effective training programmes
- Explain the role of training and development
- Analyse problems and provide solutions to enable effective presentation of input and activities
- Provide constructive feedback to trainees

**Unit 1 (15 Hours)**

**Introduction to Training and Development**

- 1.1 Overview of Training and Development system.
- 1.2 Role of External Agencies in Training and Development.
- 1.3 Objectives or Purpose of Training and Development.

**Unit 2 (10 Hours)**

**Training Need Assessment (TNA)**

- 2.1 Meaning and Purpose of TNA.
- 2.2 TNA at Different Levels, Approaches for TNA
- 2.3 Output of TNA, Methods used in TNA

**Unit 3 (15 Hours)**

**Training Methods and Techniques**

- 3.1 Introduction to Training Methods and Techniques
- 3.2 Training Methods- On the Job Training- Off the Job Training
- 3.3 Relationship between Principles of Teaching and Learning Methods

**Unit 4 (15 Hours)**

**Designing Training and Development Programs**

- 4.1 Organization of Training and Development Programs- Training Design, Need for Training and Development
- 4.2 Kinds of Training Development Programs- Competence Based and Role Based Training
- 4.3 Objectives of Designing Training Plan, New Employee Training

## Unit 5

(10 Hours)

### Evaluation of Training

- 5.1 Reasons for Evaluating Training and Development Program, Problems in Evaluation
- 5.2 Methods of Evaluating Effectiveness of Training
- 5.3 Different Evaluation Frame Work, Feedback and Assessment

### BOOK FOR STUDY

K. Ashwathapa "*Human Resource Management*", Mc Graw Hill Education 2017  
L.M. Prasad "*Human Resource Management*", Sultan Chand 2018

### BOOKS FOR REFERENCE

Prior, John, "*Handbook of Training and Development*", Jaico Publishing House, Bombay.2015  
*Art of Training and Development in Management* by Leslie Rae, Publisher: Crest Publication.2007  
Jack J. Phillips, "*Handbook of Training Evaluation and Measurement Methods* Routledge2016

### JOURNALS

International Journals of Training and Development  
Global Journal of Management and Business Research  
Journal of Management Development

### WEB RESOURCES

[www.rroji.com](http://www.rroji.com)  
[www.yourarticlelibrary.com](http://www.yourarticlelibrary.com)  
<https://blog.commlabindia.com>

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 mins.**

Section A -  $7 \times 2 = 14$  (no choice)  
Section B -  $2 \times 8 = 16$  (from a choice of three questions)  
Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components:                      Total Marks: 50**

Assignments/Seminars/Class Presentation

**End Semester Examination                      Total Marks: 100                      Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 Words)  
Section B –  $5 \times 8 = 40$  Marks (From a choice of seven questions –Max 500 words)  
Section C –  $2 \times 20 = 40$  Marks (From a choice of four questions –Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CHANGE MANAGEMENT**

**CODE: 19BA/ME/CM45**

**CREDITS: 5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with best practices for tactical change management
- To expose students to the personal and organisational approaches when dealing with change.
- To provide the students, skills for effectively communicating change.
- To provide knowledge to the students on planning and managing change

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Create a road map in bringing the change in the organization
- Develop and implement a range of skills relevant to the change management process
- Build a shield against resistance while implementing the change
- Elucidate the role of ‘change agents’ and its applicability in organisational settings

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Change - Definition, Meaning and Nature of Organization Change
- 1.2 Forces of Organizational Change – External and Internal Forces
- 1.3 Theoretical Frameworks of Organization Change

**Unit 2 (10 Hours)**

**Process and Communicating Change**

- 2.1 Process of Change Management
- 2.2 Need for Communicating Change, Factors Involved in Communicating Change
- 2.3 Methods and Techniques for Communicating Change
- 2.4 Role of Top Management in Communicating Change

**Unit 3 (15 Hours)**

**Resistance to Change**

- 3.1 Nature of Resistance, Factors Contributing to Resistance
- 3.2 The Behavioral Elements, Types of Resistance, Recognizing and Reducing Resistance to Change

- 3.3 Suggestions for Managing Resistance to Change
- 3.4 Methods of Handling Resistance and Techniques of Managing Resistance

**Unit 4 (15 Hours)**

**Change Agent**

- 4.1 Change Agent – Meaning, Types of Change Agent
- 4.2 Role and responsibility of Change Agent
- 4.3 Competencies of Change Agent
  - 4.3.1 Personality Traits of a Change Agent
  - 4.3.2 Knowledge of a Change Agent
  - 4.3.3 Skills required for an role of a change Agent
- 4.4 Characteristics of successful Change Agent

**Unit 5 (15 Hours)**

**Implementing and Evaluating the Change**

- 5.1 Strategies and Procedure to Implement Change
- 5.2 Key Factors in Effective Change Management
- 5.3 Concept of Monitoring and Evaluation, Methods of Evaluation and Feedback Process

**BOOKS FOR STUDY**

Radha R Sharma. *Change Management and Organisational Transformation*. Tata McGraw Hill Education Private Limited; 2<sup>nd</sup> edition, 2012

Michael Reiss. *Change Management-A Balanced and Blended Approach*. Books on Demand, 2012

**BOOKS FOR REFERENCE**

James McCalman, Professor Robert A Paton, Sabina Siebert. *Change Management: A Guide to Effective Implementation*. SAGE, 2015

Frank Voehl, H. James Harrington. *Change Management: Manage the Change or It Will Manage You*. Routledge; 1st edition, 2016

C.S.Venkataratnam: *Negotiated Change – collective Bargaining, Liberalisation and structuring in India*, Response Books, New Delhi.2003

John P. Kotter, *Leading Change*. Harvard Business Publishing. 2012

C.Jung. *The Importance of Change Management in Organisations*. GRIN Verlag, 2011

**JOURNALS**

Journal of Management Development  
Academy of Management Journal  
International Journal of Management  
Journal of Change Management



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A -  $7 \times 2 = 14$  (no choice)

Section B -  $2 \times 8 = 16$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

### **Other Components:**

**Total Marks: 50**

Assignments/Seminars/Class Presentation

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 Words)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions – Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**PRODUCT AND BRAND MANAGEMENT**

**CODE: 19BA/ME/PB45**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To educate students in developing strategies for each stage of Product Life Cycle
- To sensitise students on the role of brands and brand equity and the advantages of creating strong brands.
- To provide knowledge to students on the importance of choosing brand elements
- To acquaint students with alternative branding strategies
- To impart knowledge on building and managing online brands

**COURSE LEARNING OUTCOME**

On successful completion of the course students will be able to

- Identify the key elements that create strong brands
- Apprehend the importance of creating strong brands
- Evaluate the best branding strategies for various kinds of products
- Manage the issues related to online brands

**Unit 1 (10 Hours)**

**Product Management**

- 1.1 Product Planning and Prelaunch
- 1.2 Product Dimensions
- 1.3 New Product Management
- 1.4 Product Portfolio Analysis and Market Strategies
- 1.5 Product Life Cycle Stages and Corresponding Strategies

**Unit 2 (15 Hours)**

**Brand Positioning**

- 2.1 Brand Concepts and Strategies
- 2.2 Brand Value, Benefits, Functions and Types of Brands
- 2.3 Brand Image, Personality and Loyalty
- 2.4 Brand Identity – Kepferer Brand Identity Prism Model
- 2.5 Challenges & Opportunities, Co-branding, Store brands, In-Store Concepts

**Unit 3 (15 Hours)**

**Brand Equity and Extension**

- 3.1 Strategic Brand Management Process

- 3.2 Brand Attribute Management and Architecture
- 3.3 Brand Portfolio Strategy - Making a Brand Strong
  - 3.3.1 Brand Equity and Sources
  - 3.3.2 Aakers Brand Equity Model
- 3.4 Brand Leveraging, Brand Extension and Stretching
  - 3.4.1 Types of Brand Extension
  - 3.4.2 Factors Influencing Decision for Extension
- 3.5 Re-branding and Re-launching

**Unit 4 (15 Hours)**

**Brand Positioning and Audit**

- 4.1 Types of Brand Positioning
- 4.2 Brand Differentiation and Identifying Gaps using Perceptual Maps
- 4.3 Brand Audit
- 4.4 Brand Valuation Components and Types of Valuation

**Unit 5 (10 Hours)**

**Designing Marketing Programs to Build Online Brands**

- 5.1 Building and Managing Online Brands – Case Study on Reputed Brands like Amazon, Flipkart, etc.
- 5.2 Marketing Communication Options
- 5.3 Using Social Media to build Brands
- 5.4 Building Brands on E-Commerce Platform – Case Study on Brands like Pepperfry

**BOOKS FOR STUDY**

- Keller. L. Kevin & Parameswaran M.G. *Strategic Brand Management*, New Delhi: Pearson Education India, 2015
- Donald R. Lehmann, Russell S. Winer, *Product Management*, New Delhi: TMH, 2006

**BOOKS FOR REFERENCE**

- Kotler Philip & Pfoertsch Waldermar, *B2B Brand Management*, Springer online.
- Rosenbaum Richard & Percy Larry, *Strategic Brand Management*, Oxford University Press, 2018
- Majumdar Ramanuj, *Product Management in India*, New Delhi: PHI Learning Pvt Ltd, 2007
- Dutta Kirti, *Brand Management: Principles and Practices*, New Delhi, OUP India, 2012
- Verma V Harsha, *Brand Management: Text and Cases*: New Delhi, Excel Books, 2008

**JOURNALS**

- Journal of Brand Management
- Journal of Product and Brand Management
- Journal of Brand strategy

**WEB RESOURCES**

- <https://www.managementstudyguide.com/brand-management.htm>
- <https://www.mbaskool.com/>
- <http://www.innovationcoach.com>
- <http://www.marketing-schools.org>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:      Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Components:      Total Marks: 50**

Seminars/ Quiz/ Group discussion/ Assignments/ Class Presentation.

**End-Semester Examination:      Total Marks: 50**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CUSTOMER RELATIONSHIP MANAGEMENT**

**CODE:19BA/ME/CR45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the concepts and principles of CRM
- To familiarise the students about the role and changing face of CRM
- To enable students to understand the use of technology in managing customer relationships

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Assess the concept of value creation in Customer Relationship Management
- Identify methods of implementing Customer Relationship Management in the business
- Understand Customer Loyalty with reference to Customer Retention and Customer Lifetime Value
- Develop and implement Customer Retention strategies

**Unit 1 (15 Hours)**

**Introduction**

- 1.1 Definitions - Concepts of Relationship Management
- 1.2 Evolution - Transactional vs Relationship Approach – CRM as a Strategic Marketing tool
- 1.3 Types of Relationship Marketing
- 1.4 Steps Involved in Building Customer Brand Equity

**Unit 2 (15 Hours)**

**Customers Acquisition**

- 2.1 Customer Life Cycle Acquisition Tactical Management (ACTMAN)
- 2.2 Customer Profiling- Difference Between Profile and a Model, Regression Scoring
- 2.3 Estimation of future Value of Customer

**Unit 3 (10 Hours)**

**Customer Satisfaction and Retention**

- 3.1 Customer Retention- Definition, Significance of Customer Retention
- 3.2 Major Customer Retention Strategy
- 3.3 Customer Satisfaction, Factors and Level

**Unit 4** (10 Hours)

**CRM Planning and Implementation**

- 4.1 CRM Planning Process – Meaning, CRM Tools, Role of CRM Managers
- 4.2 CRM Implementation - Defining success factors - Implementation issues  
Preparing a Business plan
- 4.3 Preparing for a Relationship Marketing Strategy, Guidelines for Implementation

**Unit 5** (15 Hours)

**Customer Loyalty**

- 5.1 An Overview of Customer Loyalty- Loyalty Effect
- 5.2 Building Loyalty through Customer Retention- Degree of Loyalty
- 5.3 Devising a Loyalty based Relationship Building Strategy

**BOOKS FOR STUDY**

Philip Kotler, Kevin Lane Keller, *Marketing Management*, Pearson Education, 2017  
Alok Kumar Rai 'Customer Relationship Management, Concepts and Cases', Prentice Hall of India Private Ltd New Delhi 2017

**BOOKS FOR REFERENCE**

S. Shanmugasundaram, *Customer Relationship Management*, Prentice Hall of India Private Limited, New Delhi, 2010  
Dr. Pallavi (Joshi) Kapoor, *Customer Relation Management*, Idea Publishing 2017.  
Francis Buttle, Stan MacLan, *Customer Relationship Management Concepts & Tools*, Routledge publishing, 2015  
V. Kumar, *Customer Relationship Management - A Database Approach*, Springer, 2018.

**JOURNALS**

International Journal of Electronic Customer Relationship Management  
International Journal of Business and Social Science  
International Journal of Customer Relationship Marketing and Management

**WEB RESOURCES**

[www.crmbyweb.com](http://www.crmbyweb.com)  
[www.crm.dynamics.com](http://www.crm.dynamics.com)  
[www.crm-eur.com](http://www.crm-eur.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 mins**

Section A -  $7 \times 2 = 14$  (no choice)  
Section B -  $2 \times 8 = 16$  (from a choice of three questions)  
Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components Total Marks: 50**

Assignments/Seminars/Class/Presentation

**End Semester Examination Total Marks: 100 Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 Words)  
Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions –Max 500 words)  
Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions –Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**FAMILY BUSINESS MANAGEMENT**

**CODE: 19BA/ME/FB45**

**CREDITS :5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the unique features of family business
- To familiarise students with the governance issues and conflict in family business
- To enable students to understand the growth and sustainability of family business
- To create an awareness on succession planning in family business

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to:

- Understand the relevance of family business
- Analyse the process of transition
- Outline the growth in business and relationship in family
- Comprehend the modes of succession planning in family business

**Unit 1 (10 Hours)**

**Family Business Development Models**

- 1.1 Introduction of Family Business
- 1.2 Conceptual Models of Family firms
  - 1.2.1 Three Dimension Development Model
  - 1.2.2 Ownership Development Dimension
  - 1.2.3 Family Developmental Dimensions
  - 1.2.4 Business Developmental Dimensions

**Unit 2 (15 Hours)**

**Family Business Types**

- 2.1 Four Classic Family Business types
- 2.2 Founders and the Entrepreneurial experiences
- 2.3 Growing and evolving family business
- 2.4 Complexity of family enterprise
- 2.5 Diversity of successions: Different Dreams and challenges.

**Unit 3 (15 Hours)**

**Narcissism, Envy and Myths in Family Firms**

- 3.1 Personality types
- 3.2 Managerial implications of dysfunctional narcissism
- 3.3 Importance of individuation – power of envy
- 3.4 Role of family myths and impact of family myths on family business
- 3.5 Common personality characteristics of founder
- 3.6 Common defensive structures in founder – maintaining the balance.

**Unit 4 (15 Hours)**

**Leadership Transition**

- 4.1 Options for Tackling Succession Problem
- 4.2 Inheritance
- 4.3 Psychological Pressure on New Leaders
- 4.4 Systematic View of Business Family
- 4.5 Family System Proposition
- 4.6 Family Scripts and Rules
- 4.7 Practical Example of Family System Thinking – Diagnosing Family Entanglements

**Unit 5 (10 Hours)**

**Transition and Change**

- 5.1 Lewin's idea of change
- 5.2 Model of individual change
- 5.3 Major themes in the individual journey towards change
- 5.4 Process of change within organization
- 5.5 Change process in families – family focus or organizational focus.

**BOOKS FOR STUDY**

Lansberg, Iven- Generation to generation Life cycles of Family business ; *Harvard Business School publishing India Pvt Ltd.*

Manfred F.R. Kets de Vries, Randel S. Carlock, Elizabeth Florent – Treacy ; Family Business on the Couch – A psychological perspective – *Wiley Publisher 2007.*

**BOOK FOR REFERENCE**

Lansberg, Ivan - Succeeding Generations Realizing The Dream Of Families In Business — *Harvard Business School Publishing India Pvt Ltd.*

**JOURNALS**

Journal of Family Management

Journal of Family Business Strategy

Journal of Family Business and Management

**WEB RESOURCES**

<https://hbswk.hbs.edu/>

<https://www.um.edu.mt/>

<https://onlinelibrary.wiley.com/>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 mins.**

Section A -  $7 \times 2 = 14$  (no choice)

Section B -  $2 \times 8 = 16$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components: Total Marks: 50**

Assignments/Seminars/Class Presentation

**End Semester Examination Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 Words)

Section B –  $5 \times 8 = 40$  Marks (From a choice of seven questions –Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (From a choice of four questions –Max 1200 words)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course Offered by B.B.A to students of  
B.A / B.Sc. / B.Com. / B.Com (CO) / B.Com (A&F) / B.C.A. / B.V.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**TEAM DYNAMICS**

**CODE: 19BA/GE/TY22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To acquaint students with team building skills
- To familiarise students with the importance of team work
- To provide students an understanding of conflicts in a team

**COURSE LEARNING OUTCOME:**

On successful completion of the course, students will be able to:

- Demonstrate an understanding of the skills required for team work
- Develop problem solving skills
- Appreciate the significance of team spirit
- Understand the pre-requisites of having an effective Group and team building

**Unit 1**

**Team Dynamics - Introduction**

**(6 Hours)**

- 1.1 Team Dynamics– Meaning, Nature and Importance of Team Dynamics
- 1.2 Purpose of Team Dynamic, Types of Team Dynamic,
- 1.3 Characteristics of a Good Team Dynamic

**Unit 2**

**Team Development and Team Building**

**(10 Hours)**

- 2.1 Team Development – Meaning, Tuckman's Team Development Model
- 2.2 Team Building – Meaning, Importance and Principles of Team Building
- 2.3 Success Factors in Team Building
- 2.4 Difference between Team Building and Team Development

**Unit 3**

**Handling Conflicts in a Team**

**(10 Hours)**

- 3.1 Team Conflict - Meaning, Definition, Causes of Conflicts
- 3.2 Levels of Conflict, Stages of Conflict
- 3.3 Measures to Stimulate Team Conflict
- 3.4 Consequences of Conflicts – Positive Aspects of Conflicts

## **BOOKS FOR STUDY**

Jan Carmichael, et.al. *Leadership and Management Development*, Oxford Publications, 2011.  
Uday Kumar Haldar, *Leadership and Team Building*, Oxford Publications, 2012

## **BOOKS FOR REFERENCE**

Richard Hughes, Robert C. Ginnett, Gordon J Curphy, *Leadership: enhancing the lessons of Experience*, McGraw –Hill Publication, 6th Edition, 2011  
T.V. Rao, Charu Sharma, *100 Managers in Action*, McGraw- Hill Publication, 2012  
Bonnie T Yarbrough , *Leading groups & Team*, Cengage Learning, New Delhi, 2011  
Rao, V.S.P. *Human Resource Management*, New Delhi. Excel Books.

## **JOURNALS**

SAGE Journals

Research in Higher Education Journal

Journal of the Human Factors and Ergonomics Society

Academy of Management Journal.

Journal of Education for Business.

International Journal of Project Management

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

### **Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

## **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course Offered by B.B.A to students of  
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**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**CORPORATE ETIQUETTES**

**CODE: 19BA/GE/CE22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the code of conduct at workplace
- To expose students to the rules of good workplace manners
- To enable students to recognise positive and negative emotions
- To create an awareness and empower them with employability skills

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Create a professional image and maintain positive office relationships.
- Develop the confidence and skills to interact in the business environment
- Conduct professionally at meetings and business settings
- Develop the capacity to deal effectively with situations that cause strong emotions

**Unit 1 (8 Hours)**

**Etiquette at Workplace**

- 1.1 Corporate Etiquette – Meaning, Need, Essentials of Corporate Etiquette
- 1.2 Classifications of Corporate Etiquette –Clothing Etiquette, Email Etiquette, Telephone and Meeting Etiquette and their do's and dont's
- 1.3 Desktop Etiquette - Codes of Conduct required at the Workstation

**Unit 2 (9 Hours)**

**Communication skills**

- 2.1 Principles, Forms and Process of Communication
- 2.2 Types of Communication Barriers
- 2.3 Communication gaps
- 2.4 Tips to improve the communication skills

**Unit 3 (9 Hours)**

**Interview Etiquette and Emotional Intelligence**

- 3.1 Types of Interview, Codes of Conduct for Interview
- 3.2 Preparation of Resume, Preparation for Group Discussion
- 3.3 Emotional Intelligence – Meaning, Tips to enhance interpersonal relationship at Workplace
- 3.4 Significance of interpersonal relationships in professional life

### **BOOKS FOR STUDY**

Vivek Bindra. *Everything About Corporate Etiquette*. Bloomsbury India, 2015

Saurabh Bhatia. *Indian Corporate Etiquette*. Saurabh Bhatia; 2<sup>nd</sup> Edition, 2011

### **BOOKS FOR REFERENCE**

Paul. A. Argenti. *Corporate Communication*; 6<sup>th</sup> Edition, 2013

Lesikar and Flatley. *Basic Business Communication*. Mcgraw-Hill (Tx); 9<sup>th</sup> Edition,

Kelly M. Quintanilla & Shawn T. Wahl. *Business and Professional Communication: KEYS for Workplace Excellence*. SAGE Publications Inc; 2<sup>nd</sup> Edition, 2013

**NOTE:** Latest edition of the Book to be used

### **JOURNALS**

Journal of Business & Management

International Journal of Management

### **PATTERN OF ASSESSMENT**

#### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

#### **Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

### **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**General Elective Course Offered by B.B.A to students of**  
**B.A / B.Sc. / B.Com. / B.Com (CO) / B.Com (A&F) / B.C.A. / B.V.A Degree Programme**

**SYLLABUS**  
(Effective from the academic year 2019 -2020)

**CROSS CULTURE MANAGEMENT**

**CODE: 19BA/GE/CC22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To sensitise the students to cultural differences
- To enable the students to act and react appropriately to various behavioural aspects
- To provide the students with a knowledge to comprehend and manage cultural differences in business functions

**COURSE LEARNING OUTCOME**

On successful completion of the course students will be able to

- Understand that differences across countries is not restricted to religion, caste or language, but have various other dimensions of differentiation
- Comprehend the cross border working
- Manage customers/employees across various countries
- Act appropriately and accustom themselves to simple behavioral differences that would help even when we visit various countries as tourists or host foreign national as visitors/business partners.

**Unit 1 (8 Hours)**

**Understanding Cross Culture**

- 1.1 Culture – Meaning, Features
- 1.2 Cultural Dimensions of Explaining Cultural Differences

**Unit 2 (10 Hours)**

**Culture and Business Communication**

- 2.1 Communication – Kinetics, Non Verbal communication, High Context vs Low Context
- 2.2 Working in Teams with Members from Various Cultures
- 2.3 Negotiation - Meaning and process; Managing of Negotiation and Conflict due to Cultural Differences

**Unit 3 (8 Hours)**

**Leadership, Motivation and Decision Making Across Cultures**

- 3.1 Leadership Types across Various Cultures
- 3.2 Motivation – Work and Non-Work Motivation in various Cultures
- 3.3 Decision Making- Meaning and Process, Managerial Implications that vary across Different Countries

**BOOKS FOR STUDY**

Hodgetts, Fred Luthans, Jonathan Doh, *International Management*, McGraw Hill Education, 6<sup>th</sup> Edition  
Shobana Madhavan, *Cross Culture Management*, Oxford University Press, 2016

**BOOKS FOR REFERENCE**

Geert Hofstede, *Cultures and Organizations: Software of the Mind*, McGraw-Hill Education, Third Edition  
Browaeys Marie – Joelle and Price Roger, *Understanding Cross Cultural Management*, Pearson Publication, 2015  
Bhattacharya Kumar Dilip, *Cross Cultural Management*, Prentice Hall India Learning P Ltd, 2010  
Holden Nigel, *Cross Cultural Management*, Financial Times Prentice Hall, 2002

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 60 minutes</b>
Section A – 5 x 1 = 5 marks (Objective questions)		
Section B – 5 x 2 = 10 marks (from a choice of seven)		
Section C – 2 x 5 = 10 marks (from a choice of four)		

<b>Other Components</b>	<b>Total Marks: 25</b>
Assignments/Objective Test/Quiz/Presentation	

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**General Elective Course Offered by B.B.A to students of**  
**B.A / B.Sc. / B.Com. / B.Com (CO) / B.Com (A&F) / B.C.A. / B.V.A Degree Programme**

**SYLLABUS**  
(Effective from the academic year 2019 – 2020)

**MEDIA MANAGEMENT**

**CODE: 19BA/GE/MM22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To provide a perspective to students on the evolution of media.
- To expose students to an Integrated Marketing Plan by using a wide variety of media.
- To acquaint students on regulations of Media Management.

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Understand the evolution of media and identify the key challenges in current scenario
- Evaluate best practices and tools to design and develop dynamic media content.
- Appreciate the use of technology in Media Management

**Unit 1 (6 Hours)**

**An Overview of Media Industry**

- 1.1 A Historical Perspective on Media
- 1.2 Media Consolidation
- 1.3 Public Ownership of Media
- 1.4 Institutional Investors and Financial Firms
- 1.5 Fragmentation of Media Markets, Preparing for a New Media World

**Unit 2 (10 Hours)**

**Media Management**

- 2.1 Focus on Media Management
- 2.2 Indian Media- Broadcast, Print, Audio-visual, Cinema
- 2.3 Influence of Media
- 2.4 News Media- Broadcasting, News Magazines, Newspapers, Newsreels
- 2.5 Online Journalism and News Coverage

**Unit 3 (10 Hours)**

**Media Management Regulations and Electronic Media Management**

- 3.1 Preventing Legal Problems
- 3.2 General areas of legal concern- employee health and safety
- 3.3 Privacy, Free press/ Fair Trial issues
- 3.4 Media Convergence and Interplay of Technology Development

### **BOOKS FOR STUDY**

B K Chaturvedi, *Media Management*, New Delhi: Global Vision Publishing House,  
Sandra Diehl and Matthias Karmasin, *Media and Convergence Management*- Springer,

### **BOOKS FOR REFERENCE**

Looy V. Amy. *Social Media Management, Technologies and Strategies for Creating Business Value*, Springer, Online.  
Kundra S, *Media Management*, New Delhi, Anmol Publications

### **JOURNALS**

International Journal on Media Management  
Journal of Digital Media Management  
Journal of Media Studies  
Media, Culture and Society: Sage Journals  
Journal of Media and Communication Studies

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

**Other Components** **Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

**No End Semester Examination**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.B.A DEGREE: BUSINESS ADMINISTRATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PRODUCTION AND OPERATIONS MANAGEMENT**

**CODE: 19BA/UI/PO23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To provide the students a comprehensive knowledge on the principles of production and operations management
- To familiarise the various operations management techniques
- To educate students on the responsibilities in the areas of operations management

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate the relationship of operations with other managerial functions and differentiate between Product and Service.
- Understand the principles of good plant layout
- Assimilate the concept of different stages of product development
- Identify the factors affecting production, planning and control

**Unit 1**

**Introduction**

- 1.1 Overview of Process and Operation Management
- 1.2 Relationship of Operations with Other Functions-Marketing, Finance, Human Resource
- 1.3 Difference between Product and Service.

**Unit 2**

**Plant Location and Layout Planning**

- 2.1 Plant Location- Meaning, Objectives of Location
- 2.2 Plant Layout-Meaning, Advantage and Principles of a Good Layout

**Unit 3**

**Product Design and Development**

- 3.1 Definition, Objectives, Factors Affecting Product Design
- 3.2 Product Development – Meaning, Methods, Scope of Development
- 3.3 Stages of Product Development

## **Unit 4**

### **Production Planning and Control**

- 4.1 Meaning, Objectives, Scope, Importance of Production Planning
- 4.2 Production Schedule, Dispatch Follow up
- 4.3 Production Control- Meaning, Factor Affecting Production and Control

## **Unit 5**

### **Total Quality Management**

- 5.1 Introduction- Quality Circle, Stages of Quality Circle
- 5.2 Total Quality Management (TQM) –Meaning, Responsibility for Quality and Factors for the Success of TQM

## **BOOKS FOR REFERENCE**

Ashwathappa.K & Sridhara Bhatt '*Production and Operations Management*', Himalaya Publishing House, Mumbai, 2015

Chunawalla, S.A and Patel D.R, '*Production and Operations Management*', Himalaya Publishing House, Mumbai, 2017

Khanna. K.K '*Production and Operations Management: Logistical Approach*', Himalaya Publishing House, Mumbai, 2015 Panner Selvam R.- '*Production and Operations Management*', Prentice Hall of India, NewDelhi, 2012

Dan R. Reid, Sanders R. Nada, *Operations Management - An Integrated Approach*' 3<sup>rd</sup> Edition, Wiley India (P) Ltd., New Delhi, 2012

Render Barry and Heizer Jay , *Operations Management*, 6<sup>th</sup> Edition, Pearson Publications, 2016

## **JOURNALS**

Journals of Operation Management

International Journal of Service and Operation Management

International Journal of Production Economics

Journal of Production Research

## **WEB RESOURCES**

<https://smude.edu.in>  
[www.athabascau.ca](http://www.athabascau.ca)  
[www.ateneo.edu](http://www.ateneo.edu)

## **PATTERN OF ASSESSMENT**

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice – Max 30 Words)

Section B – 5 x 8 = 40 Marks (from a choice of seven questions –Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four questions –Max 1200 words)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

### Upon graduation, students of Stella Maris College will

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI**

**DEPARTMENT OF COMMERCE – SHIFT II**

**BACHELOR OF COMMERCE IN CORPORATE SECRETARYSHIP**

**PROGRAMME DESCRIPTION**

B.Com. Corporate Secretaryship, a three year degree programme, primarily focuses on the areas of secretarial practices and corporate laws. The programme is designed to bridge the gap between conceptual learning and practical application to inculcate professional corporate expertise. The combination of core skills and specialised knowledge provided in this programme would enable students to adapt effectively to the dynamic business environment. Internship and Practical Application are an integral part of the programme. An exposure to corporate proceedings enables the students to maintain documents in accordance with accounting standards and procedures. Drafting and Conveyancing, the flagship course in Corporate Secretaryship, helps in enriching the professional skills of the students.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

At the end of a Bachelor of Commerce in Corporate Secretaryship programme, students will be able to

- Acquire knowledge in the various areas of Corporate Secretaryship and laws relating to Trade and Commerce
- Keep pace with dynamic industry changes
- Comprehend the legal provisions relating to incorporation of different forms of organisations
- Understand the laws and its compliances pertaining to corporate practices
- Demonstrate a comprehensive knowledge of the concepts and principles of corporate law
- Explain and describe concepts in secretarial practices
- Appreciate the significance of ethics in business and identify unethical practices
- Exhibit an understanding of the relevance of corporate governance and corporate social responsibility
- Develop necessary acumen in drafting legal documents
- Assess, rectify and report the incidents of compliance breaches
- Summarise the audit work performed and give conclusions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Com. DEGREE: CORPORATE SECRETARYSHIP**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19CO/MC/CM14	Cost and Management Accounting	4	4	1	0	3	50	50	100
19CO/MC/OS13	Organisation Structure and Management	3	3	1	0	3	50	50	100
19CO/AC/QT15	Quantitative Techniques for Business	5	5	0	0	3	50	50	100
19CO/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
19CO/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
<b>SEMESTER-II</b>									
19CO/MC/FA23	Financial Accounting	3	3	1	0	3	50	50	100
19CO/MC/CG23	Corporate Ethics and Governance	3	3	1	0	3	50	50	100
19CO/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
<b>SEMESTER-III</b>									
19CO/MC/EC34	Economic and Commercial Law	4	4	1	0	3	50	50	100
19CO/MC/BF34	Banking and Financial Services	4	4	1	0	3	50	50	100
19CO/MC/IF34	Introduction to Financial Management	4	4	1	0	3	50	50	100
19CO/MC/EM33	Essentials of Marketing	3	3	1	0	3	50	50	100
19CO/AC/BA35	Business Analysis and Reporting using Computers	5	2	0	4	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
<b>SEMESTER-IV</b>									
19CO/MC/CL44	Corporate Law	4	4	1	0	3	50	50	100
19CO/MC/CM44	Capital Markets	4	4	1	0	3	50	50	100
19CO/MC/IL44	Industrial Law	4	4	1	0	3	50	50	100
19CO/MC/CA43	Compliance Audit	3	3	1	0	3	50	50	100
19CO/AC/IS45	Information Technology and Systems Audit	5	5	0	0	3	50	50	100
	Major Elective I								
<b>SEMESTER-V</b>									
19CO/MC/IP54	Income Tax Practices	4	4	1	0	3	50	50	100
19CO/MC/CR54	Corporate Accounting and Restructuring	4	4	1	0	3	50	50	100
19CO/MC/DC53	Drafting and Conveyancing	3	3	1	0	3	50	50	100
19CO/MC/SP53	Secretarial Practice	3	3	1	0	3	50	50	100
<b>Inter Disciplinary Core Course Offered to B.Com(CO) and B.B.A. to students of B.Com(CO)&amp;BBA</b>									
19ID/IC/CM55	Compensation Management	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Com. DEGREE: CORPORATE SECRETARYSHIP**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-VI</b>									
19CO/MC/GT64	Goods and Services Tax	4	4	1	0	3	50	50	100
19CO/MC/SL63	Social Security Laws	3	3	1	0	3	50	50	100
19CO/MC/DC64	Due Diligence and Compliance Management	4	4	1	0	3	50	50	100
19CO/MC/IN64	Internship	4	0	0	5	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19CO/ME/IR45	Industrial Regulations	5	5	0	0	3	50	50	100
19CO/ME/BE45	Business Environment	5	5	0	0	3	50	50	100
19CO/ME/BD45	Business Development	5	5	0	0	3	50	50	100
19CO/ME/CS45	Cyber Law and Security	5	5	0	0	3	50	50	100
19CO/ME/CM45	Commodities Market	5	5	0	0	3	50	50	100
<b>General Elective Courses</b>									
19CO/GE/DC22	Documentation and Compliance	2	2	0	0	-	50	-	100
19CO/GE/LS22	Listing of Securities	2	2	0	0	-	50	-	100
19CO/GE/RI22	Right to Information Act	2	2	0	0	-	50	-	100
19CO/GE/CC22	Company Secretarial Correspondence	2	2	0	0	-	50	-	100
<b>Independent Elective Course</b>									
19CO/UI/IB23	International Business	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COST AND MANAGEMENT ACCOUNTING**

**CODE:19CO/MC/CM14**

**CREDITS:4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the concepts, techniques and practices of cost and management accounting
- To equip students with skills to ascertain Material and Labour Cost.
- To provide students an understanding to compare the financial statement of companies

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Calculate the unit cost of a product.
- Compute Labour and Overhead Cost
- Analyse the Financial position using Management Accounting techniques.
- Prepare different types of budget

**Unit 1**

**(15 Hours)**

**Introduction to Cost and Management Accounting**

**1.1 Introduction**

- 1.1.1 Cost and Management Accounting- Meaning, Objectives and Scope- Differences between Cost Accounting and Management Accounting
- 1.1.2 Cost Concepts- Cost Centre and Cost Unit, Methods of Costing Classifications and Elements of Cost-Material, Labour and Overheads
- 1.1.3 Computation of Total Cost and Profit of a product

**1.2 Material Cost**

- 1.2.1 Computation of Material Cost-Treatment of Normal and Abnormal Loss and Scrap
- 1.2.2 Material Control- Meaning and Objectives-Purchases Control-Procurement
- 1.2.3 Stores Control- Techniques of Inventory Control, Economic Order Quantity
- 1.2.4 Issue Control- Methods of Material Issue-FIFO, LIFO, Average Cost-Simple Average and Weighted Average

**Unit 2**

**(10 Hours)**

**Labour and Overheads**

- 2.1 Labour Cost- Meaning and Classification of Labour Costs- Overtime and Idle Time
  - 2.1.1 Labour turnover-Causes and Effects, Methods of Computation
  - 2.1.2 Methods of Remuneration-Time rate, Piece rate, Incentive Scheme- Halsey and Rowan plan



## **2.2 Overheads**

2.2.1 Classification of Overheads.

2.2.2 Apportionment and Allocation of Overheads-Primary and Secondary Distribution(Repeated, Step Ladder, Simultaneous Equation and Direct apportionment method)

2.2.3 Methods of Absorption of Overheads-Direct Labour rate, Machine hour rate and Activity based Absorption

## **Unit 3 (15 Hours)**

### **Financial Statement Analysis**

3.1 Significance of Financial Statement Analysis

3.2 Comparative, Common size and Trend Analysis.

3.2 Ratio Analysis –Liquidity, Profitability, Solvency ratios

3.3 Reconstruction of Position Statement with Ratios (Simple Problems)

## **Unit 4 (15 Hours)**

### **Marginal Costing**

4.1 Marginal Costing- Meaning, Advantages, Limitations, Breakeven Analysis

4.2 Cost-Volume Profit Analysis- P/V Ratio - Margin of Safety

4.3 Application – Key factor, Product Mix and Sales Mix.

## **Unit 5 (10 Hours)**

### **Budgets and Types**

5.1 Need and Importance

5.2 Types of Budget - Production Budget, Purchase Budget, Sales Budget, Cash Budget, Flexible Budgets

## **BOOKS FOR STUDY**

T.S. Reddy and Y.Hari Prasad Reddy, *Cost and Management Accounting*, Margham Publication, Reprint 2015.

Ravi.M. Kishore, *Cost and Management Accounting*, TaxMann Publishers, 2016

## **BOOKS FOR REFERENCE**

Tulsian, *Introduction to Cost Accounting*, S.Chand, 2012

R. Palaniappan , N.Hariharan, *Cost Accounting Problems and Solutions*, I K International Publishing House Pvt Ltd., 2014

MN Arora, *Management Accounting*, Himalaya Publishers, 2010

Khan & Jain, *Management Accounting*, Tata McGraw Hill, 2013

SN Maheshwari, *Accounting for Management*, Sultan Chand, 2010

Jain and Narang, *Cost Accounting* Kalyani Publishers, 2012

## **JOURNALS**

Journal of Management Accounting Research.

Management Accountant Journal

Journal of Cost Accounting Research.

## **WEB RESOURCES**

[www.icsi.org](http://www.icsi.org)

[www.elsevier.com](http://www.elsevier.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 X 2 = 6(No choice)

Section B – 3 X 8 = 24(Answer any three out of 4)

Section C – 1 X 20 = 20(Answer any one question out of 2)

### **Other Components:**

**Total Marks: 50**

Report writing/Multiple choice questions/Case study/Problem Solving/Assignments

### **End-Semester Examination**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 X 2 = 20 (5 Theory and 5 problems)

Section B – 5 X 8 = 40 (Answer any five out of 8 problems)

Section C – 2 X 20 = 40 (Answer any two out of 4 problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ORGANISATION STRUCTURE & MANAGEMENT**

**CODE:19CO/MC/OS13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to appreciate the principles of management
- To expose students to the recent practices in management
- To acquaint students with the need for competence, trust and teamwork in the organization

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the concepts of management and its principles
- Identify the various types of organisation
- Appreciate the importance and relevance of the functions of management
- Have an overview on the recent trends in Management

**Unit 1 (11 Hours)**

**Organisation Structure**

- 1.1 Meaning, Importance and Role of Organisation Structure
- 1.2 Theory of Organisation Structure
- 1.3 Impact of Environment and Cultural Variables on Organisational Structure
- 1.4 Building Blocks of Organisation Structure
  - 1.4.1 Centralisation
  - 1.4.2 Formalisation
  - 1.4.3 Hierarchical Levels
  - 1.4.4 Departmentation

**Unit 2 (12 Hours)**

**Introduction to Management**

**2.1 Management Thought**

- 2.1.1 Classical and Neo Classical Systems – Contingency and Contemporary
- 2.1.2 Approach to Management - Henri Fayol, F.W Taylor, George Elton Mayo and Peter.F Drucker

**2.2 Functions of Management I**

- 2.2.1 Planning - Meaning, Importance, Types and Process
- 2.2.2 Organising – Nature and Importance, Organising Trends and Practices – Chain of Command, Unity of Command, Span of Control, Delegation and Empowerment

**Unit 3 (12 Hours)**

**Functions of Management II**

- 3.1 Staffing
  - 3.1.1 Recruitment and Selection
  - 3.1.2 Training – Need and Types
- 3.2 Directing
  - 3.2.1 Motivation – Meaning and Maslow's Theory of Motivation
  - 3.2.2 Leadership
  - 3.2.3 Communication – Types, Process and Barriers

**Unit 4 (8 Hours)**

**Functions of Management III**

- 4.1 Controlling- Meaning, Importance, Steps in the Process of Controlling, Types and Techniques of Controlling
- 4.2 Co-ordinating - Meaning, Need, Requisites

**Unit 5 (9 Hours)**

**Recent Developments in Management**

- 5.1 Change Management - Concept, Nature and Process of change
- 5.2 Knowledge management, Total Quality Management and Business Process Re-Engineering-An Overview

**BOOKS FOR STUDY**

Gupta, C. B., *Business Organization and Management*, New Delhi, Sultan Chand and Sons, 2015.

P.Venugopal, P. Roja, G. Venkata Rathnam, N. Ravi Sankar, Nagaraj. K.V., *Business Organization.*, Himalaya Publishing House., 2015

**BOOKS FOR REFERENCE**

Dinakar Pagare, *Business organisation and Management*, 5th edition, New Delhi, Sultan Chand,

Gupta, N.S. and Alka Gupta, *Essentials of Management*, New Delhi, Anmol, 2010

Harold Koontz, Hein Weihrich, *Essentials of Management*, 6th edition, New Delhi, TMH

Manmohan Prasad, *Management Concepts and Practices*, Mumbai, Himalaya

Prasad L.M., *Principles and Practice of Management*, New Delhi, Sultan Chand

**JOURNALS**

European Journal of Business Management

International Journal of Management Reviews

**WEB RESOURCES**

[www.exed.hbs.edu](http://www.exed.hbs.edu)

[www.hbr.org](http://www.hbr.org)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:**

**Total Marks: 50**

Seminars/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four - Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600080**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**QUANTITATIVE TECHNIQUES FOR BUSINESS**

**CODE: 19CO/AC/QT15**

**CREDITS: 5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To impart knowledge to students on the use of statistical tools
- To enable students to acquire knowledge on data collection, presentation, analysis and interpretation skills
- To expose students to the concepts related to sampling

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the basic techniques in statistics for analysis
- Apply statistical techniques for analysis
- Use statistical techniques for business research
- Analyse Secondary data

**Unit 1 (15 Hours)**

**Correlation and Regression**

- 1.1 Meaning, Definition and Use of Correlation
- 1.2 Types of correlation – Karl Pearson's Correlation Coefficient, Partial and Multiple Correlation
- 1.3 Regression – Meaning and Definition, Comparison Between Correlation and Regression
- 1.4 Regression lines on X on Y and Y on X, Regression Equation, Multiple Regression

**Unit 2 (15 Hours)**

**Times Series Analysis**

- 2.1 Meaning, Definition, utility, Components
- 2.2 Method of Free Hand and Semi-Average
- 2.3 Computation of Method of Least Square
- 2.4 Computation of Seasonal Variations

**Unit 3 (15 Hours)**

**Testing of Hypothesis**

- 3.1 Large Sample
  - 3.1.1 Meaning and Uses
  - 3.1.2 Testing of Hypothesis on Random Sample, Testing of Hypothesis between Two Sample, Testing of Hypothesis on Correlation

- 3.2 Small Sample
  - 3.2.1 Meaning, uses and properties
  - 3.2.2 Testing of Hypothesis on Random Sample, Independent Sample, Dependent Sample and Correlation

**Unit 4** **(10 Hours)**

### **Chi-Square**

- 4.1 Meaning and Definition
- 4.2 Properties and Uses of Chi-Square
- 4.3 Yate's Correction
- 4.4 Application of Chi-Square – Frequency Method and Contingency Method

**Unit 5** **(10 Hours)**

### **F-Test and Analysis of variance**

- 5.1 Meaning and Assumptions
- 5.2 Application of F-Test
- 5.3 Application of ANOVA: One – Way ANOVA, Two-Way ANOVA

### **BOOKS FOR STUDY**

Gupta, S.P., *Statistical Methods*, Sultan Chand and Sons Publishers. New Delhi (2016)  
 Pillai and Bhagavati, *Statistics Theory and Practice*, New Delhi, S. Chand Publication (2016)

### **BOOKS FOR REFERENCE**

Vittal, P.R, *Business Statistics*, Chennai, Margham Publications,  
 Aggarwal.S and Bhardwaj, *Business statistics*, Ludhiana, Kalyani Publications  
 Gupta.S.C and Kapoor.V.C, *Fundamentals of Mathematical Statistics*, New Delhi,  
 Sultan Chand,(2017)  
 Kothari.C.R., *Research Methodology Methods & Techniques*, New Age International  
 Publisher, New Delhi

### **JOURNALS**

Open Journal of Statistics - SCIRP  
 Statistics Journal  
 Journal of Applied Statistics

### **WEB RESOURCES**

<http://www.statsoft.com/textbook/basic-statistics>  
<http://statistics-help-for-students.com/>

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A –  $3 \times 2 = 6$  Marks (no choice)  
 Section B –  $3 \times 8 = 24$  Marks (Answer any three out of four)  
 Section C –  $1 \times 20 = 20$  Marks (Answer any one out of two)

**Other Components:** **Total Marks: 50**

Quiz/Group discussion/Assignments/Multiple choice questions/Case study

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice) (5 theory and 5 problems)  
 Section B –  $5 \times 8 = 40$  Marks (from a choice of seven problems)  
 Section C –  $2 \times 20 = 40$  Marks (from a choice of four problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19CO/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda



- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si'*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19CO/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FINANCIAL ACCOUNTING**

**CODE: 19CO/MC/FA23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to understand and apply advanced adjustment relating to Final Accounts of a sole proprietor
- To acquaint students with accounting procedure of Hire Purchase and Instalment system
- To familiarise students with the Branch and Departmental accounting

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Prepare final accounts of a sole proprietor
- Understand the process of accounting for Hire Purchase and Instalment system
- Ascertain the Profit or Loss of departments and branches.
- Differentiate between accounting standards

**Unit 1 (15 Hours)**

**1.1 Conceptual Framework for Preparation of Financial Statements**

- 1.1.1 Introduction to Accounting Standards and Indian Accounting Standards, Difference Between Accounting Standards and Indian Accounting Standards
- 1.1.2 Accounting Standards - International Accounting Standards, Accounting Standards in India – Objectives, Process, Accounting Standards Board, Scope & Application of AS – 1,2,3,4,5,9,10,26 & 29 in Preparation of Financial Statements

**1.2 Preparation of Financial Statements of Sole Proprietor**

- 1.2.1 Closing Entries and Adjustment Entries
- 1.2.2 Adjustments - Loss of Stock by Accident or Fire, Manager's Commission on Net Profit Before and After Commission, Works Manager and General Manager Commission, Writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax

**Unit 2 (10 Hours)**

**Hire Purchase**

- 2.1 Principles of Hire Purchase and Leasing
- 2.2 Application of Accounting Standard for Leasing – AS 19
- 2.3 Accounting Treatment in the Books of Hire vendor and Hirer
- 2.4 Default and Repossession (Complete and Partial)

**Unit 3 (10 Hours)**

**Branch Accounts and Departmental Accounts**

**3.1 Branch Accounts**

3.1.1 Debtors System (Cost Price Method and Invoice Price Method)

3.1.2 Stock and Debtors System (Cost Price Method and Invoice Price Method)

3.1.3 Overview of Accounting for Independent Branches and Foreign Branches

**3.2 Departmental Accounts**

3.2.1 Meaning and Basis of Allocation of Expenses

3.2.2 Stock Reserve and Inter-departmental transfers at Cost Price and Invoice Price

3.2.3 Preparation of Departmental Trading Account and Balance Sheet.

**Unit 4 (7 Hours)**

**Consignment Accounting**

4.1 Meaning, Importance and Advantages

4.2 Accounting in the Books of Consignor and Consignee

**Unit 5 (10 Hours)**

**Joint Venture and Sale or Return**

5.1 Joint Venture – Accounting Procedures, Joint Bank Account, Memorandum Joint Venture Account

5.2 Meaning of Goods Sent on Approval or Return Basis and Accounting Treatment

**BOOKS FOR STUDY**

T.S. Reddy and A.Murthy, *Financial Accounting*, Margham Publishers, Reprint 2015

R.L. Gupta and M.Radhasamy, *Advanced Accounting* Vol I, S. Chand Publishers, Revised Edition 2010

**BOOKS FOR REFERENCE**

Raj K Agrawal & Rupesh Agrawal, *Financial Accounting*, Taxmann's Publishers, 2015

S.N.Maheshwari, Suneel K Maheshwari, Sharad K Maheshwari, *Financial Accounting*, Vikas Publishing House, 2018.

M Hanif & A. Mukherjee, *Accounting I*, McGraw Hill Education, 2017.

Tulsian, P. C. *Accountancy*. S. Chand & Co., New Delhi Recent Edition

**JOURNALS**

Journal of Accounting

Indian Journal of Finance

**WEB RESOURCES**

[www.icsi.org](http://www.icsi.org)

[www.elsevier.com](http://www.elsevier.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 X 2 = 6(No choice)

Section B – 3 X 8 = 24(Answer any three out of 4)

Section C – 1 X 20 = 20(Answer any one out of 2)

### **Other Components:**

**Total Marks: 50**

Open book test/Multiple choice questions/Problem Solving/Assignments

### **End-Semester Examination**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 X 2 = 20(5 Theory and 5 problems)

Section B – 5 X 8 = 40(Answer any five out of 7 problems)

Section C – 2 X 20 = 40(Answer any two out of 4 problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CORPORATE ETHICS AND GOVERNANCE**

**CODE:19CO/MC/CG23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the practices of corporate ethics and corporate governance
- To create an awareness on the corporate social responsibility of a Business
- To familiarise students with emerging trends in good governance practices.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the importance of business ethics.
- Identify unethical practices in marketing and advertising
- Recognise the ethical issues in Finance
- Exhibit an understanding of the relevance of Corporate Governance and Corporate Social Responsibility.

**Unit 1 (10 Hours)**

**Introduction to Business Ethics**

- 1.1 Meaning, Scope, Objectives and Characteristics of Business Ethics
- 1.2 Importance of Business Ethics-Influencing Factors
- 1.3 Ethical Dilemma in Business-Conflict of Interest
- 1.4 Overview of Draft Report on Human Rights

**Unit 2 (15 Hours)**

**Ethics in Business-1**

- 2.1 Ethics in HRM-Recruitment, Selection, Training, Compensation, Cross Cultural Issue
- 2.2 Ethics in Marketing-Product, Pricing, Marketing Practices - Regulatory Framework
- 2.3 Role of Competition Act (Case Study)
- 2.4 Ethics in Advertising

**Unit 3 (10 Hours)**

**Ethics for Sustainability in Business**

- 3.1 Ethics in Finance
- 3.2 Ethics in Financial Service, Financial Markets and Securities
- 3.3 Professional Ethics

**Unit 4** (10 Hours)

**Corporate Governance**

- 4.1 Meaning, Principles and Four Pillars of Corporate Governance
- 4.2 Evolution of the Concept of Corporate Governance– Committees Report
- 4.3 Board Committees and their Functions– Role of Independent Directors and Women Directors
- 4.4 Mandatory Reporting Requirements under the Companies Act 2013, read with Capital Market Regulations

**Unit 5** (7 Hours)

**Corporate Social Responsibility**

- 5.1 Meaning and Nature
- 5.2 Importance and Legal Requirements – Reporting Requirement
- 5.3 Responsibilities towards Stakeholders - Shareholders, Employees, Consumers and Society
- 5.4 Case Studies in CSR

**BOOKS FOR STUDY**

Fernando, A.C. *Corporate Governance – Principles, Policies & Practice*, Noida: Pearson, 2011

Joan R. Boatright. *Ethics and the Conduct of Business*, Noida: Pearson, 2011

**BOOKS FOR REFERENCE**

Andrew Crane Dirk Matten. *Business Ethics*. New Delhi: Oxford University Press, 2015

Dr. K. Nirmala, Karunakara Reddy : *Business Ethics and Corporate Governance*, Himalaya Publishing House, 2015

Bhanu Murthy, K. V. and Usha Krishna, *Politics Ethics and Social Responsibilities of Business*. New Delhi: Pearson Education, 2015

Christine, A Mallin. *Corporate Governance* (Indian Edition). New Delhi: Oxford University Press, 2016

Kshama V. Kaushik, *CSR in India - Steering Business Towards Social Change*, New Delhi: Lexis Nexis, 2017

**JOURNALS**

International Journal of Management Reviews

International Journal on Corporate Strategy and Social Responsibility

SSRN – E Journal

**WEB RESOURCES**

[www.ibscdc.org](http://www.ibscdc.org)

[www.exed.hbs.edu](http://www.exed.hbs.edu)

[www.hbr.org](http://www.hbr.org)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:** **Total Marks: 50**

Seminars/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four - Max 1200 words)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19CO/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ECONOMIC AND COMMERCIAL LAW**

**CODE: 19CO/MC/EC34**

**CREDITS:4**

**LTP:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the basic provisions of commercial law
- To acquaint students with the principles of law that is essential to manage complex business transactions
- To sensitise students on the legal rights, duties and obligations arising out of business transactions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Differentiate between a contract and an agreement
- Understand the registration procedure for LLP
- Comprehend the provision on Intellectual Property Rights
- Apply the provisions of Consumer Protection Law

**Unit 1**

**(15 Hours)**

**Indian Contracts Act 1872**

- 1.1. Essential Elements of a Valid Contract- Offer, Acceptance, Consideration, Capacity of parties, Free Consent, Legality of Object
- 1.2. Performance of Contract, Discharge of Contract, Remedies for Breach of Contract

**Unit 2**

**(10 Hours)**

**Limited Liability Partnership Act 2008**

- 2.1 Features of LLP, Difference Between LLP & Partnership – LLP vs. Company – Partners and Designated Partners
- 2.2 Incorporation Document- Incorporation by Registration - Partners and Their Relationship

**Unit 3 (15 Hours)**

**Intellectual Property Rights**

- 3.1 Intellectual Property Law in India - Provisions Relating to Patents, Trademarks and Copyrights.
- 3.2 Overview of Provisions Relating to Industrial Design and Geographical Indication.
- 3.3 Enforcement of Intellectual Property Rights.

**Unit 4 (12 Hours)**

**Prevention of Money Laundering Act 2002**

- 4.1 Salient features of the Act - Definition and Scope of Money Laundering - Survey, Search and Seizure
- 4.2 Attachment - Powers to Arrest under the Act - Adjudication by the Adjudicating Authorities and Special Courts
- 4.3 Obligation of Banking Companies, Financial Institutions and Intermediaries
- 4.4 Other Obligations of Reporting Entities

**Unit 5 (13 Hours)**

**Competition Act 2002 and Consumer Protection Act 1986**

**5.1 Competition Policy**

- 5.1.1 Concept of Competition, Development of Competition Law, Competition Policy
- 5.1.2 Anti-Competitive Agreements - Abuse of Dominant Position - Regulation of Combination - Powers and Functions of the Commission

**5.2 Consumer Protection Laws**

- 5.2.1 Objects of the Act, Rights of Consumer, Definition – Consumer, Appropriate Laboratory, Complainant and Complainant, Consumer Dispute, Defect, Deficiency, Service and Restrictive Trade Practice/Unfair Trade Practice
- 5.2.2 Consumer Protection Councils – Consumer Grievance Redressal Machinery – National Commission

**BOOKS FOR STUDY**

Kapoor N.D, *Business Law*, New Delhi, Sultan Chand & Sons, 2018  
Kuchhal M. C, *Mercantile Law* 8<sup>th</sup> Edition, New Delhi: Vikas Publishing House Pvt. Ltd., 2008

**BOOKS FOR REFERENCE**

Tulsian P. C., *Business Law*, New Delhi, Tata McGrawHill Publishing Company Ltd., 2014.  
Gogna P.P.S, *Mercantile Law*, 3<sup>rd</sup> Edition, New Delhi, Sultan Chand & Sons.  
Chadha P.R., *Business Law*, 2<sup>nd</sup> Edition, New Delhi, Galgotia Publishing Company.  
C. Mehanathan, *Law on Prevention of Money Laundering in India* (2014)  
T. Ramappa: *Competition Law in India – Policies, Issues, and Developments*; 3<sup>rd</sup> Edition, New Delhi Oxford University Press, 2014

**JOURNALS**

Indian Business Law Journal  
Andhra Pradesh Law Journal  
Calcutta Law Journal  
Madras Law Journal

## **WEB RESOURCES**

<http://www.indilaw.com/index.php>

<http://www.amritt.com/services/india-business-consulting/business-laws-and-regulations-in-india/>

[http://www.lawnotes.in/Indian\\_Contract\\_Act,\\_1872](http://www.lawnotes.in/Indian_Contract_Act,_1872)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BANKING AND FINANCIAL SERVICES**

**CODE:19CO/MC/BF34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the concepts in banking and financial services
- To expose students to the latest developments in the Banking and Financial Services Sector
- To facilitate students to recognise the services and procedure followed in banks

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand Banking Practices and the facilities provided
- Comprehend recent developments in banking sector
- Differentiate between fee based and fund based financial services
- Appreciate the venture capital eco-system in India

**Unit 1 (15 Hours)**

**Introduction to Banking**

- 1.1 Meaning, Definition and Developments of Commercial Banking
- 1.2 Banking Functions and Services
- 1.3 Banking Practices – Opening and Closing of Bank Accounts, Documents relating to Banking Transactions
- 1.4 Negotiable Instruments - Cheque, Promissory Note and Bills of Exchange
- 1.5 Loans – Types, Procedure, Documents and Repayment

**Unit 2 (10 Hours)**

**Developments in Banking**

- 2.1 E-Banking – Meaning, Importance, Merits and Demerits
- 2.2 Internet Banking, Mobile Banking, Tele-Banking, Rural Banking and Retail Banking
- 2.3 Debit card, Credit card, ATM Card, Digital Wallet and Smart card
- 2.4 Electronic Payment System - Electronic Clearing Service and Electronic Fund Transfer

**Unit 3 (10 Hours)**

**Introduction to Financial Services**

- 3.1 Meaning, Functions and Importance of Financial Services in India
- 3.2 Types of Financial services – Fund Based and Fee- Based
- 3.3 Recent Developments in the Financial Services

**Unit 4 (15 Hours)**

**Fee based Financial Services**

- 4.1 Merchant Banking - Meaning, Definition, Functions of a Merchant Banker and Scope of Merchant Banking in India
- 4.2 Credit rating services – Meaning and Need for Rating with Special Reference to ICRA and CRISIL
- 4.3 Underwriting – Types – Role and Responsibilities of Underwriters

**Unit 5 (15 Hours)**

**Allied Financial Services**

- 5.1 Mutual fund – Meaning, Types and Criteria for Selection of Mutual fund
- 5.2 Factoring - Definition, Importance and Types
- 5.3 Leasing – Meaning, Importance and Types
- 5.4 Venture Capital Financing – Meaning, Importance and Stages

**BOOKS FOR STUDY**

Gurusamy. S, *Financial Services*, Tata McGraw Hill Education Pvt. Ltd, New Delhi, 2011  
Sundaram K.P.M. and Varshney P. N., *Banking Theory Law and Practice*, Sultan Chand & Sons, New Delhi, 2015.

**BOOKS FOR REFERENCE**

Khan M.Y., *Financial Services*, Tata Mc Graw Hill Publishing Pvt. Ltd, New Delhi, 2013  
Machiraju H. R, *Indian Financial System*, Vikas Publishing House Pvt. Ltd, Chennai, 2019.  
Dr. Gurusamy S, *Banking Theory Law and Practice*, Vijay Nicole Imprints Pvt. Ltd, Chennai, 2013.  
Varshney P.N., *Banking Law and Practice*, Sultan Chand & Sons, New Delhi, 2014.  
E. Gordon and K. Natarajan, *Banking Theory, Law And Practice*, Himalaya Publishing House, Mumbai, 2016

**JOURNALS**

Asian Journal of Research in Banking and Finance  
Journal of Banking, Information Technology and Management  
Journal of Bank Management  
Journal of Internet Banking and Commerce

**WEB RESOURCES**

[www.bankingfinance.in/list-websites-banks-india.html](http://www.bankingfinance.in/list-websites-banks-india.html)  
[www.india-financing.com/indo1.html](http://www.india-financing.com/indo1.html)  
[www.languages.ind.in/factoring.htm](http://www.languages.ind.in/factoring.htm)  
[www.rbi.org.in/scripts/PublicationReportDetails.asp](http://www.rbi.org.in/scripts/PublicationReportDetails.asp).



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation/Objective type test/Case study

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600080**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INTRODUCTION TO FINANCIAL MANAGEMENT**

**CODE:19CO/MC/IF34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students an in-depth knowledge in managing finance
- To facilitate students in understanding the techniques for raising funds
- To expose students to the methods used in making financial, investment and dividend decisions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Analyse the financial policies of an organisation
- Apply the methods of evaluating a long-term project using capital budgeting techniques
- Assess the risks involved in financing a project
- Forecast the financial requirements of an organisation in the changing environment

**Unit 1 (15 Hours)**

**Introduction**

- 1.1 Meaning and Importance of Financial Management
- 1.2 Objectives of Financial Management – Profit Maximization and Wealth Maximization
- 1.3 Time Value of Money- Meaning, Definition, Compound and Discount Techniques

**Unit 2 (10 Hours)**

**2.1 Cost of Capital**

- 2.1.1 Meaning and Significance
- 2.1.2 Components of Cost of Capital – Computation

**2.2 Capital Structure**

- 2.2.1 Meaning and Significance
- 2.2.2 Theories of Capital Structure – Net Income Approach, Net Operating Income Approach, Traditional Approach, Modigliani & Miller Approach

**Unit 3 (15 Hours)**

**Capital Budgeting**

- 3.1 Meaning, Importance and Need
- 3.2 Capital Budgeting Techniques
  - 3.2.1 Pay Back Period Method, Accounting Rate of Return,
  - 3.2.2 Discount Cash Flow Method - Net Present Value, Internal Rate of Return and Profitability Index

**Unit 4** (15 Hours)

**Working Capital**

- 4.1 Meaning and Significance
- 4.2 Types of Working Capital, Working Capital Cycle
- 4.3 Determinants and Estimation of Working Capital

**Unit 5** (10 Hours)

**Leverages**

- 5.1 Meaning of Leverages
- 5.2 Types of Leverages – Operating, Financial and Combined Leverage, Risk and Leverage

**BOOKS FOR STUDY**

Khan, M.Y & Jain, P.K.: *Financial Management*; New Delhi ,Tata McGraw Hill,( 2014)  
Pandey, I. M.: *Financial Management*; New Delhi, Vikas Publishing House,( 2014 )

**BOOKS FOR REFERENCE**

Kishore Ravi, M: *Financial Management*; New Delhi, Taxman, (2016)  
Chandra, Prasana: *Financial Management*; New Delhi, Tata McGraw Hill, (2015)  
Brealey and Meyers: *Principles of Corporate Finance*: Tata McGraw Hill, (2015)  
Murthy.A, *Financial Management*, Chennai , Margham Publications, (2017)

**JOURNALS**

Journals of Financial Management  
Journals of risk and Financial Management  
International journals of Financial Management  
Journal of Accounting and Financial Management Research

**WEB RESOURCES**

[www.icsi.edu.in](http://www.icsi.edu.in)  
[www.icai.edu.in](http://www.icai.edu.in)  
[www.investopedia.com](http://www.investopedia.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A –  $3 \times 2 = 6$  Marks (no choice)  
Section B –  $3 \times 8 = 24$  Marks (from a choice of four)  
Section C –  $1 \times 20 = 20$  Marks (from a choice of two)

**Other Components;** **Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Multiple choice questions/Case study

**End-Semester Examination:** **Total Marks:100** **Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice -5 Theory and 5 Problems)  
Section B –  $5 \times 8 = 40$  Marks (from a choice of seven-2 theory and 5 Problems)  
Section C –  $2 \times 20 = 40$  Marks (from a choice of four problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ESSENTIALS OF MARKETING**

**CODE:19CO/MC/EM33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the intricacies of marketing, focusing on its macro role in society and micro role in business
- To prepare students to face the challenges and threats prevailing in the internal and external business environment
- To acquaint students with the 4 P's of marketing and its impact on various stages of marketing

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Interpret various concepts, tools and principles of marketing
- Discover the recent management practices and its application in business scenario
- Adapt to modern marketing concepts and its usefulness
- Comprehend the various concepts of marketing in organizations

**Unit 1 (12 Hours)**

**Introduction**

- 1.1 Meaning, Nature, Evolution and Scope of Marketing
- 1.2 Marketing Mix - Elements and Core Marketing Concept
- 1.3 Overview of Marketing Management Process - Consumer Driven Marketing Strategies and Relationship Building

**Unit 2 (12 Hours)**

**Product Concept**

- 2.1 Product Concept
- 2.2 Elements of Product Policy
  - 2.2.1 Branding, Packaging and Labelling – Meaning, Types and Functions
- 2.3 Product Life Cycle - Stages
- 2.4 New Product Development
  - 2.4.1 Stages in New Product Development
  - 2.4.2 Reasons for Product Failure

**Unit 3 (8 Hours)**

**Product Pricing**

- 3.1 Factors affecting Pricing
- 3.2 Pricing Policy
- 3.3 Pricing Approaches or Strategies

**Unit 4** **(8 Hours)**

**Physical Distribution**

- 4.1 Physical distribution vs Channels of Distribution
- 4.2 Factors affecting Choice of Channel
- 4.3 Classification of Channel Members

**Unit 5** **(12 Hours)**

**Promotional Mix**

- 5.1 Advertising - Meaning, Objectives and Significance
- 5.2 Sales Promotion – Meaning, Types and Importance
- 5.3 Personal Selling – Meaning, Importance and Process
- 5.4 Publicity – Meaning and Role in Marketing
- 5.5 Direct Marketing – Meaning, Importance and Types
- 5.6 Overview of Consumer Rights, Legal Remedies Available to Consumers

**BOOKS FOR STUDY**

Nair, Rajan and Sanjith Nair. *Marketing*. 11<sup>th</sup> Edition, New Delhi: Sultan Chand, 2014.

C. B. Gupta., *Essentials of Marketing Management*: 8<sup>th</sup> Edition, New Delhi: Sultan Chand, 2018.

**BOOKS FOR REFERENCE**

Philip Kotler, *Marketing*, 12th edition, New Delhi, Prentice Hall of India

Steven J Skinner, *Marketing*, Houghton Mifflin; 2nd edition

Varshney R.L., Dr. S.L. Gupta. *Marketing Management*. Himalaya.

William J. Stanton, Micheal J. Etzel, Bruce J. Walker. *Fundamentals of Marketing*, New Delhi: Mc Graw Hill

Xavier, M. J., *Marketing in the New Millenium*, New Delhi: Vikas

**JOURNALS**

Journal of Marketing - American Marketing Association

Journal of Marketing Education

International Journal of Research in Marketing

International Journal of Marketing Studies

**WEB RESOURCES**

[www.yourarticlelibrary.com](http://www.yourarticlelibrary.com)

[www.boundless.com](http://www.boundless.com)

[www.learnmarketing.net](http://www.learnmarketing.net)

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:****Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four - Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS ANALYSIS AND REPORTING USING COMPUTERS**

**CODE:19CO/AC/BA35**

**CREDITS:5**

**L T P:2 0 4**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the use of computer software in performing financial and statistical analysis
- To acquaint students with the techniques for financial statements analysis
- To equip students with presentation skills

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Explore various methods where computer software can be used to support existing businesses and strategies
- Work with simple design and development tasks for business
- Perform financial data analysis and generate reports for making decisions
- Report on the financial position of a business concern

**Unit 1 (15 Hours)**

**Introduction**

- 1.1 Working with Word Document- Opening an Existing Document, Creating a New Document and Saving the Document
- 1.2 Selecting, Editing, Finding and Replacing Text
- 1.3 Formatting Text, Bullets and Numbering, Tabs, Paragraph Formatting, Page Setup

**Unit 2 (18 Hours)**

**Financial Statement Analysis and Business Planning using Excel**

- 2.1 Techniques of Financial Statement Analysis
  - 2.1.1 Comparative Statements
  - 2.1.2 Common Size Statements
  - 2.1.3 Trend Percentages
- 2.2 Preparation of Budgets – Production, Sales, Cash & Flexible
- 2.3 Cash Flow Analysis

**Unit 3 (18 Hours)**

**Business Evaluation Techniques using Excel**

- 3.1 Time Value of Money
- 3.2 Future and Present Value of Money
- 3.3 Future and Present Value of Annuity
- 3.4 Evaluation Techniques – Pay Back Period, NPV and IRR methods

**Unit 4 (18 Hours)**

**Statistical Analysis using Excel**

- 4.1 Measures of Central Tendency & Dispersion – Mean, Median, Mode & Standard Deviation
- 4.2 Correlation Analysis – Correlation Co-efficient
- 4.3 Regression Analysis – Regression Equations
- 4.4 Time series analysis – Moving Averages, Least Squares

**Unit 5 (9 Hours)**

**Presentation**

- 5.1 Introduction
- 5.2 Slide Design and Layout
- 5.3 Inserting Pictures, Charts and Tables
- 5.4 Setting up a Presentation – Custom Animation

**BOOKS FOR STUDY**

Deepak Jain, *Computer Applications in Business*, Kolkatta : Lawpoint Publications  
Bodhanwala, J. Ruzbeh, *Understanding and Analysing Balance Sheets using Excel Worksheet*, Prentice Hall

**BOOKS FOR REFERENCE**

John, E. Hanker, Dean W. Wichern, Arthur G. Reitsch, *Business Forecasting*, Prentice Hall of India Pvt. Ltd., 2012  
Sanjay, S. (n.d.). *MS Office 2000*. Delhi: Vikas Publishing.  
Vastava, S. S. (n.d.). *MS Office*. New Delhi: Firewall Media  
Frye, C. D. (n.d.). *Step by Step Microsoft Excel 2010*. New Delhi: PHI

**JOURNALS**

Indian Journal of Computer Application  
Journal of Statistical Software  
Journal of Modern Applied Statistical Methods

**WEB RESOURCES**

<http://www.ecommerce-digest.com/online-academic-journals.html>  
<http://www.openlearningworld.com/books/>

**PATTERN OF ASSESSMENT - PRACTICALS**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 Minutes</b>
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Sec A – 2 x 5 = 10

Sec B – 2 x 10 = 20

Sec C – 1 x 20 = 20

<b>Other Components:</b>	<b>Total Marks: 50</b>
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Projects/Quiz/Assignments/Problem Solving

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
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Sec A – 4 x 5 = 20

Sec B – 4 x 10 = 40

Sec C – 2 x 20 = 40



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CORPORATE LAW**

**CODE:19CO/MC/CL44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the documents required for registration and operation of a company
- To expose students to the statutory provisions relating to the formation and management of a company
- To acquaint students with the provisions relating to management and administration of a company

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Identify the processes by which a business can be incorporated and enumerate the legal consequences which flow from incorporation
- Demonstrate a comprehensive knowledge of the concepts and principles of Corporate law
- Delineate the powers, duties and responsibilities of the directors
- Comprehend the legal provisions relating to declaration and payment of dividend

**Unit 1 (12 Hours)**

**Introduction to Company**

**1.1 Introduction**

- 1.1.1 Definition and Characteristics of a Company
- 1.1.2 Types of Companies
- 1.1.3 Lifting of Corporate veil

**1.2 Formation of Company**

- 1.2.1 Promoters – Legal position, Re-Classification
- 1.2.2 Pre-incorporation
- 1.2.3 Incorporation of Company – Commencement of Business

**Unit 2 (15 Hours)**

**Documents**

**2.1 Memorandum of Association**

- 2.1.1 Contents and Alteration of Memorandum
- 2.1.2 Doctrine of Ultra Vires

**2.2 Articles of Association**

- 2.2.1 Contents and Alterations of Articles
- 2.2.2 Doctrine of Indoor Management

**2.3 Prospectus**

- 2.3.1 Definition, meaning and Contents of Prospectus
- 2.3.2 Shelf and red herring prospectus
- 2.3.3 Misstatement in Prospectus

**2.4 Letter of Offer**

**Unit 3 (13 Hours)**

**Share Capital**

- 3.1 Share - Meaning, Nature and types of shares
- 3.2 Share Capital - Issue, Allotment and Forfeiture
- 3.3 Alteration of Share Capital
- 3.4 Share Certificate, Demat, Membership, Transfer and Transmission of Shares, Nomination
- 3.5 Further Issue of Shares, Buyback

**Unit 4 (13 Hours)**

**Management and Administration**

- 4.1 Classification of Directors-Women directors, Independent director and Small shareholder's director
- 4.2 Board of Directors – Qualification, Disqualification, Appointment, Resignation, Vacation of Office, Removal, Powers, Duties and Liabilities
- 4.3 Key Managerial Personnel – Appointment and Remuneration
- 4.4 Meetings - Board and Committee Meetings – Impact of SS1
- 4.5 Requisites for a valid meeting
- 4.6 Resolutions - Types

**Unit 5 (12 Hours)**

**Shareholders' Meetings and Dividend Declaration**

- 5.1 Meeting-Annual General Meeting, Extraordinary General Meeting – Impact of SS2
- 5.2 Requisites for a valid meeting
- 5.3 Resolutions
- 5.4 Types Dividends – Provisions Relating to Declaration and Payment of Dividend Transfer of Un-claimed Dividend to Investor Education and Protection Fund

**BOOKS FOR STUDY**

Kapoor N.D., *Elements of Company Law*, Sultan Chand, New Delhi, 2015  
A Compendium of Companies Act 2013 along with Rules, Taxmann Publications, New Delhi, 2019

**BOOKS FOR REFERENCE**

Bharat, *Manual of Companies Act, Corporate Laws and SEBI Guidelines*, Law Publishers, 24<sup>th</sup> edition, 2017  
Gogna P.P.S., *A Text book of Company Law*, New Delhi, Sultan Chand, 2016.  
G K Kapoor Sanjay Dhamija, *A Comprehensive Text Book on Companies Act 2013*, Taxmann's Company law and Practice, New Delhi, 2018  
Gulshan S. S, G.K Kapoor., *Corporate and other Laws*, New Age international New Delhi  
Pandab S.K., *Company Law & Practice*, Bharat, 2013  
MC Kuchhal, *Modern Indian Company Law*, Shri Mahavir Book Depot (Publishers), 2013

**JOURNALS**

India Business Law Journal  
India Law Journal  
Corporate Law Journal

## **WEB RESOURCES**

<https://www.business.gov.in>

<https://www.cdsindia.com>

<https://www.geebeevee.org>

<https://www.mca.gov.in>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

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Section C – 1 x 20 = 20 Marks (from a choice of two)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation/Multiple choice questions/  
Case study

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

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Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600080**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CAPITAL MARKETS**

**CODE:19CO/MC/CM44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable students to acquire comprehensive knowledge on concepts of capital markets
- To provide an understanding to the students on the regulatory framework of securities markets
- To develop skill and competence of students in the area of stock trading

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the major securities market reforms of SEBI
- Analyse the functioning of depository system in India
- Comprehend the characteristics of different financial assets
- Demonstrate the trading mechanism

**Unit 1 (10 Hours)**

**Overview of Capital Market**

- 1.1 Meaning and Definition
- 1.2 Function, Importance and Features
- 1.3 Indian Capital Market
- 1.4 Overview of Depository System in India

**Unit 2 (12 Hours)**

**Capital Market instruments**

- 2.1 Capital Market Instruments: Equity, Debentures, Preference Shares, Sweat Equity, Non-Voting Shares, Share Warrants
- 2.2 Derivatives
- 2.3 Rating and Grading of Instruments - Concept, Scope and Significance

**Unit 3 (15 Hours)**

**Securities Market Intermediaries and Regulatory Framework**

- 3.1 Primary Market – Meaning, Definition, Methods and Intermediaries
- 3.2 Secondary Market Intermediaries – Functions and Types
- 3.3 Role played by Intermediaries - Merchant Bankers, Stock Brokers, Syndicate Members, Portfolio Managers, Foreign Institutional Investors, Custodians, Venture Capitalists

**Unit 4** (14 Hours)  
**Stock Exchange**

- 4.1 Functions and Significance
- 4.2 Operations and Trading Mechanism
- 4.3 Settlement of Securities, Surveillance Mechanism
- 4.4 SME Exchange

**Unit 5** (14 Hours)  
**Issue and Listing of Securities**

- 5.1 Listing of Securities and Delisting of Securities
- 5.2 Issue of Capital and Disclosure Requirements (ICDR), Listing Obligations and Disclosure Requirements (LODR)
- 5.3 Procedure for Issue of Various Types of Shares and Debentures
- 5.4 Employee Stock Option Scheme and Employee Stock Purchase Scheme
- 5.5 Investor Protection in India

**BOOKS FOR STUDY**

Guruswamy.S, *Financial Institutions and Markets*, New Delhi, Tata McGraw hills, 2017  
Gordon and E. Natrajan, *Capital Markets*, Mumbai, Himalaya Publications 2015

**BOOKS FOR REFERENCE**

Shashi K. Gupta, *Financial institutions and Markets*, Ludhiana, Kalyani Publisher, 2015  
M.Y. Khan, *Indian Financial Systems*, New Delhi, Tata McGraw Hills  
Sapna Nibasaiya, *Indian Financial System*, New Delhi, Vikas Publishing House, 2014  
Amit Vohra, *Capital Markets and Securities Law*, New Delhi, Lexis Nexis, 2016

**JOURNALS**

Journal of Finance  
Emerald Journal of Capital Markets Studies  
Indian Journal of Research in Capital Markets

**WEB RESOURCES**

<https://www.sebi.gov.in/>  
<https://www.bseindia.com/>  
<https://www.nism.ac.in/>  
[www.capitalmarket.com/](http://www.capitalmarket.com/)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes.**

Section A – 7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 = 16 Marks (from a choice of three)  
Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:**                      **Total Marks: 50**  
Group discussion/Assignments/Class Presentation/Multiple choice questions/Case study

**End-Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 hours.**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)  
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDUSTRIAL LAW**

**CODE:19CO/MC/IL44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To facilitate students with the understanding and provisions of industry related laws.
- To enable students to understand the concepts of labour laws
- To familiarise students with the occupational hazards and risk associated with the job

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the provisions of the industrial laws
- Recognise the legal provisions relating to industrial disputes
- Understand the laws relating to industrial conflict
- Acquire negotiating skills in addressing grievances

**Unit 1 (12 Hours)**

**Factories Act 1948**

- 1.1 Importance, Definitions, Authorities under the Factories Act
- 1.2 Provisions of the Factories Act Relating to Health, Safety and Welfare of the Workers
- 1.3 Working Hours of Adults, Employment of Young Persons, Annual Leave with Wages
- 1.4 Occupier – Roles and Responsibilities

**Unit 2 (15 Hours)**

**Industrial Disputes Act 1947**

- 2.1 Meaning, Definition, Authorities under the Industrial Disputes Act - Their Duties and Rights
- 2.2 Awards, Settlements
- 2.3 Strikes and Lockouts, Lay off and Retrenchment.

**Unit 3 (15 Hours)**

**Trade Unions Act 1926**

- 3.1 Definition and Registration of Trade Unions
- 3.2 Rights and Liabilities of Registered Trade Unions.

**Unit 4 (11 Hours)**

**Payment of Wages Act 1936**

- 4.1 Definitions, Wages, Responsibility for Payment of Wages
- 4.2 Fixation of Wage Period, Time of Payment of Wages, Mode of Payment
- 4.3 Deductions from Wages, Fines.

**Unit 5 (12 Hours)**

**Workmen Compensation Act 1923**

- 5.1 Definitions - Dependent, Employer, Partial and Total Disablement, Workmen, Injury, Occupational Disease, Accident
- 5.2 Employer's Liability for Compensation, Amount of Compensation
- 5.3 Contracting, Commissioner, Offences and Penalties

**BOOKS FOR STUDY**

Kapoor, ND, *Elements of Mercantile Law*, New Delhi: Sultan Chand & Sons, 2018  
Shreenivasan, M R (Dr.), *Industrial & Labour Law*, Chennai: Margham Publications, 2018

**BOOKS FOR REFERENCE**

Malik, K.L., *Industrial Laws and Labour Laws*, Lucknow: Eastern Book Company, 2018  
Niland J R, et al, *The future of Industrial Relations*, New Delhi: Sage Publications, 2017  
Srivastava, S.C., *Industrial Relations & Labour Laws*, New Delhi: Vikas Publishing House, 2016  
Sharma, J.P., *Simplified Approach to Labour Laws*, New Delhi: Bharat Law House (P) Ltd., 2018

**JOURNALS**

Industrial Law Journal  
Journal Of Labour And Industrial Law  
International Journal Of Comparative Labour Law And Industrial Relations

**WEB RESOURCES**

<https://labour.gov.in/industrial-relations>  
<http://www.mondaq.com/india/x/631074/employee+rights+labour+relations/A+Brief+Guid+ +Labour+And+Industrial+Laws+Of+India>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 = 16 Marks (from a choice of three)  
Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components: Total Marks: 50**

Seminars/Group Discussion/Assignments/Class Presentations

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)  
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four - Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COMPLIANCE AUDIT**

**CODE: 19CO/MC/CA43**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To enable students to gain an understanding of the compliance environment
- To provide students with an understanding of the procedures for assessing the compliance obligations
- To facilitate students to design a compliance governance structure
- To acquaint students with the internal compliance process

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the procedure for compliance obligations
- Frame a monitoring plan
- Assess, rectify and report the incidents of compliance breaches
- Summarise the audit work performed and give conclusions

**Unit 1 (8 Hours)**

**Auditing Concepts**

- 1.1 Nature, Scope and Significance, Basic Principles Governing an Audit
- 1.2 Overview of Auditing and Assurance Standards

**Unit 2 (10 Hours)**

**Auditing Types**

- 2.1 Company Audit - Statutory, Internal, Branch, Special, Cost, Secretarial
- 2.2 Applicability of Audit under other Laws – Tax, GST
- 2.3 Internal Audit Types - Proprietary Audit, Efficiency Audit
- 2.4 Nature, Scope, Techniques of Internal Audit, Functions, Responsibilities of Internal Auditors

**Unit 3 (12 Hours)**

**Internal Control and Review**

- 3.1 Internal Control
  - 3.1.1 Internal Control- Nature, Scope and Elements, Distinction between Internal Control, Internal Check and Internal Audit
  - 3.1.2 Techniques of Internal Control System, Flowcharts
  - 3.1.3 Steps for Internal Control and Audit Evaluation
- 3.2 Review of Internal Control



**Unit 4** (14 Hours)

**Vouching and Verification**

- 4.1 Meaning and significance, Vouching of Cash and Credit Transactions
- 4.2 Verification of Assets and Liabilities

**Unit 5** (8 Hours)

**Audit Engagement and Documentation**

- 5.1 Audit Engagement and Documentation-Audit Procedures, Plan and Program
- 5.2 Audit Testing – Need for Sampling and Various Approaches
- 5.3 Audit Evidence - Working Papers and Files
- 5.4 Sampling- Test Check and Techniques

**BOOKS FOR STUDY**

Tandon B.N., *Practical Auditing*, New Delhi, S.Chand Publishers, 2010  
Clifford Gomez, *Auditing and Assurance: Theory and Practice*, Prentice Hall India Learning Private Limited, 2012

**BOOKS FOR REFERENCE**

Craig Cochran, *Internal Auditing in Plain English: A Simple Guide to Super Effective ISO Audits*, Paton Professional, California, 2017  
Jagdish Prakash, *Auditing Principles, Practice and Problems*, Kalyani Publishers, 2015  
Dinkar Pagare, *Principles & Practice of Auditing*, New Delhi, Sultan Chand & Sons, 2011  
Spicer & Pegler, *Auditing*, New Delhi, MacMillan Publication, 2000

**JOURNALS**

Journal of International Accounting, Auditing and Taxation  
International Journal of Auditing – Wiley Online Library

**WEB RESOURCES**

<http://Onlinelibrary.wiley.com>  
[www.audit-International.com](http://www.audit-International.com)

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 7 X 2 = 14(No choice)		
Section B – 2 X 8 = 16(from a choice of three)		
Section C – 1 X 20 = 20(from a choice of 2)		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Presentation /Cryptic Crosswords/Multiple Choice Questions	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – 10 X 2 = 20 (no choice – Max 30 words)		
Section B – 5 X 8 = 40 (from a choice of seven – Max 500 words)		
Section C – 2 X 15 = 30 (from a choice of four - Max 1200 words)		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INFORMATION TECHNOLOGY AND SYSTEMS AUDIT**

**CODE:19CO/AC/IS45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the application of Information Technology in business
- To enable the students to understand the concepts of data and information systems
- To expose students to systems audit and the regulations pertaining to information technology

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the operation of Information Systems
- Know the information technology regulations
- Understand Systems Audit and its conduct
- Demonstrate a comprehensive knowledge on the application of CAAT

**Unit 1 (10 Hours)**

**Information Systems**

- 1.1 Information and Data - Definition and Distinctions
- 1.2 Information Systems - Definition and Elements
- 1.3 Types of Information Systems
- 1.4 Recent Trends in Information Systems

**Unit 2 (15 Hours)**

**Management Information Systems – An Overview**

- 2.1 Concept, Evolution, Elements and Structure
- 2.2 Computerised MIS
- 2.3 Pre-requisites of an Effective MIS
- 2.4 MIS and Decision Support Systems – MIS and Information Resource Management
- 2.5 Artificial Intelligence and Expert System

**Unit 3 (15 Hours)**

**Systems Audit**

- 3.1 Systems Audit - Nature, Significance and Scope of Systems Audit
- 3.2 Steps Involved in Conducting Systems Audit
- 3.3 Systems Audit of Computerized Secretarial Functions – Norms and Procedure for Computerization

- 3.4 Computers Control and Security – Testing of Computer Systems – Documentation Standards, Policies and Procedures, Audit Approach  
3.5 Relevance of Systems Audit for Various Industries

**Unit 4 (10 Hours)**

**Information Technology Law**

- 4.1 Information Technology Act – Definitions, Important terms under Information Technology  
4.2 Legislation – Digital Signatures – Electronic Records – Certifying Authority – Digital Signature Certificate  
4.3 Cyber Regulations Appellate Tribunal – Offences and Penalties

**Unit 5 (15 Hours)**

**Computer Assisted Audit Techniques (CAAT)**

- 5.1 Need, Importance and Factors to be considered in using CAAT  
5.2 Methodology and Steps in the Application of CAAT  
5.3 Audit Tests using CAAT - Audit Documentation and Evidences  
5.4 Application of CAAT

**BOOKS FOR STUDY**

Ahmed, R. (n.d.). *Introduction to Information Technology*. Chennai: Margham Publications  
Deepak Jain, *Computer Applications in Business*. Kolkatta: Law point

**BOOKS FOR REFERENCE**

Joseph, P.T. *E-Commerce*. New Delhi : PHI, 2012  
Kamlesh, K.Bajaj, Devjani Nag. *E-Commerce*. New Delhi: Tata McGraw Hill  
Ravi Kalakota, Andrew B. Whinston, *Frontiers of Electronic Commerce*. Pearson Education  
Nadhani, A.K. and Nadhani K.K, *Implementing Tally 9*, BPB Publications

**JOURNALS**

Journal of Management Information Systems and E-Commerce  
International Journal of E-Commerce  
Journal of Theoretical and Applied E-Commerce  
Journal of Electronic Commerce in Organizations

**WEB RESOURCES**

<http://www.ecommerce-digest.com/online-academic-journals.html>  
<http://www.htmlgoodies.com/beyond/webmaster/projects/electronic-commerce-tutorial.html>  
<http://www.openlearningworld.com/books/>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Theory 30 Marks – 60 mins  
Section A: (5 X 4 =20 from a choice of 6)  
Section B: (1 x 10 = 10 from a choice of 2)  
Practical 20 Marks - 60 mins.

**Other Components: Total Marks: 50**

Assignments/Practical test/Group projects

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Theory - 120 mins. 60 marks  
Section A (10 x 4 =40) (from a choice of 12 questions)  
Section B (2 x 10 = 20) (from a choice of 3 questions)  
Practical – 60 mins. 40 Marks  
Section A (2 x 10 = 20)  
Section B (1 x 20 =20)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM. DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INCOME TAX PRACTICES**

**CODE:19CO/MC/IP54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide students with a knowledge of the basic concepts and provisions of the IT Act
- To enable students to calculate the taxable income under the various heads of income
- To expose students to the computation of tax liability

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the provisions of the Income Tax Act
- Use the provisions in the tax laws for tax computation
- Compute income under different heads of income
- Assess personal income and tax liability

**Unit 1 (10 Hours)**

**Introduction**

1.1 Basic Concept - Income, Person, Assessee, Assessment Year, Previous Year, Gross Total Income, Total Income, Permanent Account Number (PAN)

1.2 Residential Status

1.3 Scope of Total Income

**Unit 2 (15 Hours)**

**Income Under the Head Salaries and House Property**

2.1 Computation of Income under the Head - Salaries

2.1.1 Provisions Relating to Gratuity, Commutation of Pension, Provident Fund

2.1.2 Allowances, Perquisites and their Valuations

2.1.3 Deductions from Salary, Computation of Salary Income

2.2 Income from House Property, Deductions and Computation of Income from House Property.

**Unit 3 (15 Hours)**

**Income from Business and Profession**

3.1 Income Chargeable under the head

3.2 Disallowances

3.3 Presumptive Provision

3.4 Computation of Profits and Gains of Business and Profession

**Unit 4 (15 Hours)**

**Income from Capital Gains and Other Sources**

4.1 Income from Capital Gains - Short Term and Long Term Capital Gains

4.1.1 Exempted Capital Gains, Computation of Capital Gains

4.2 Income from Other Sources

4.2.1 Deductions, Computation of Income from Other Sources

**Unit 5 (10 Hours)**

**Computation of Total Income and Tax Liability**

5.1 Deductions – For Individuals

5.2 Set Off and Carry Forward of Income

5.3 Computation of Total Income and Tax Liability

5.4 Procedures Relating to Filing of Returns

**BOOKS FOR STUDY**

V.B. Gaur & Narang, *Income Tax Law And Practice*, New Delhi: Kalyani Publishers.

Singhanian, Vinod K. and Monica Singhanian, *Students' Guide to Income Tax*, New Delhi:

University Edition. Taxmann Publications Pvt. Ltd.

**BOOKS FOR REFERENCE**

T.S. Reddy & Y. Hari Prasad Reddy, *Income Tax Law and Practice*, Chennai: Margham Publications.

Ahuja, Girish and Ravi Gupta., *Systematic Approach to Income Tax*, New Delhi: Bharat Law House.

Pagare, Dinkar. *Law and Practice of Income Tax*, New Delhi: Sultan Chand and Sons.

Lal, B.B. *Income Tax Law and Practice*, New Delhi: Konark Publications.

**NOTE:** Latest edition of books to be used

**JOURNALS**

Income Tax Reports. Company Law Institute of India Pvt. Ltd., Chennai.

Taxman. Taxman Allied Services Pvt. Ltd., New Delhi.

Current Tax Reporter, Jodhpur

**WEB RESOURCES**

<http://incometaxindia.gov.in>

<http://incometaxindiaefiling.gov.in>

<http://www.simpletaxindia.org/p/income-from-salary-income-calculation.html>

[http://en.wikipedia.org/wiki/income\\_tax\\_in\\_india](http://en.wikipedia.org/wiki/income_tax_in_india)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 Marks (no choice)

Section B – 3 x 8 = 24 Marks (from a choice of four problems)

Section C – 1 x 20 = 20 Marks (from a choice of two problems)

**Other Components:**

**Total Marks: 50**

Seminars/Group Discussion/Assignments/Class Presentations/Online Test

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - 5 Theory & 5 Problems)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Problems)

Section C – 2 x 20 = 40 Marks (from a choice of four - Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CORPORATE ACCOUNTING AND RESTRUCTURING**

**CODE:19CO/MC/CR54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To facilitate students to acquire knowledge and understanding of the concepts, principles and practices of Corporate Restructure
- To enable students to understand the techniques of restructuring
- To acquaint students with the methods of valuation of shares and Goodwill.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the importance of restructuring and its strategies
- Prepare the Financial Statements of a Company
- Calculate the Value of Goodwill and Shares
- Gain an understanding on the accounting requirements of Amalgamation and Internal Reconstruction

**Unit 1 (15 Hours)**

**1.1 Final Accounts of Companies**

- 1.1.1 Computation of Managerial Remuneration
- 1.1.2 Preparation of Final Accounts of Companies
- 1.1.3 Preparation of Final Accounts under Company Law

**1.2 Cash Flow Statement (As Per Accounting Standard – 3)**

- 1.2.1 Meaning, Uses, Differences between Funds Flow Statement and Cash Flow Statement
- 1.2.2 Preparation of Cash Flow Statement

**Unit 2 (10 Hours)**

**Valuation of Shares and Goodwill**

- 2.1 Goodwill – Methods of Valuation of Goodwill
- 2.2 Shares- Methods of Valuation of Shares

**Unit 3 (15 Hours)**

**Corporate Restructuring**

- 3.1 Meaning, Need and Scope of Corporate Restructuring
  - 3.1.1 Process of Implementation
  - 3.1.2 Types of Restructuring Strategies - Mergers, Acquisitions, Takeovers, Disinvestments and Strategic Alliances, Demerger and Hiving off

- 3.2 Corporate Demerger and Reverse Merger
- 3.3 Takeover - Meaning and Concept
  - 3.3.1 Types of Takeovers- Legal Aspects
  - 3.3.2 SEBI Regulations for Takeover

**Unit 4 (10 Hours)**

**Financial Restructuring – Internal Reconstruction**

- 4.1 Meaning of Alteration of Share Capital and Internal Reconstruction
- 4.2 Problems relating to Internal Reconstruction

**Unit 5 (15 Hours)**

**Mergers and Acquisitions - Amalgamation**

- 5.1 Amalgamation-Accounting Treatment as per AS-14
  - Calculation of Purchase Consideration
- 5.2 Methods of Amalgamation Accounting -Pooling of Interests Method, Net Purchase Method
- 5.3 Accounting Entries in the Books of Transferor and Transferee
- 5.4 Disclosure Relating to Amalgamation

**BOOKS FOR STUDY**

S.N.Maheshwari, Suneel K Maheshwari, Sharad K Maheshwari, *Corporate Accounting*, Vikas Publishing House, 2018.

P.C. Tulsian, *Corporate Accounting*, S.Chand, 2016.

**BOOKS FOR REFERENCE**

R.L.Gupta and M. Radhasamy *Advanced Accounting*, Vol II, Sultan Chand.

M Hanif & A. Mukherjee, *Corporate Accounting*, McGraw Hill Education, 2017.

V. K. Goyal and Ruchi Goyal, *Corporate Accounting*, Prentice Hall India Learning Private Limited, 2012.

T.S. Reddy and A.Murthy, *Corporate Accounting*, Margham Publications, 2013

**JOURNALS**

Journal of Accounting

Journal of Finance

**WEB RESOURCES**

[www.coursera.com](http://www.coursera.com)

[www.onlinelibrary-wiley.com](http://www.onlinelibrary-wiley.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 X 2 = 6 (No choice)

Section B – 3 X 8 = 24 (From a choice of 4 problems)

Section C – 1 X 20 = 20 (From a choice of 2 problems)

**Other Components: Total Marks: 50**

Problem Solving/Assignments/Open book test/Multiple choice questions

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 X 2 = 20 (5 Theory and 5 problems)

Section B – 5 X 8 = 40 (Answer any five out of 8 problems)

Section C – 2 X 20 = 40 (Answer any two question out of 4 problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DRAFTING AND CONVEYANCING**

**CODE:19CO/MC/DC53**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To introduce students to the concepts of drafting
- To enable students to take decisions on conveyancing and pleading.
- To familiarise students with the effectiveness of legal documentation.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Develop necessary acumen in drafting legal documents.
- Understand the core concepts in conveyancing
- Employ the techniques of Civil and Criminal Proceedings in entities.
- Appreciate the fundamentals of drafting

**Unit 1 (10 Hours)**

**Drafting and Conveyancing**

**1.1 Drafting**

- 1.1.1 Drafting- Meaning, General Principles –Rules for Drafting of Deeds and Conveyance, Rules Relating to Interpretation
- 1.1.2 Aids to Clarity and Accuracy – Legal Requirements and Implications.

**1.2 Conveyancing**

- 1.2.1 Conveyancing- Meaning, General Principles – Basic Requirements for Deeds of Transfers
- 1.2.2 Description of Deed

**Unit 2 (12 Hours)**

**Drafting of Orders, Agreements and Contracts**

**2.1 Drafting of Orders**

- 2.1.1 Appointment Orders
- 2.1.2 Suspension Orders – Order of Dismissal and Discharge, Charge sheets, Apprenticeship Agreements, Shareholders' Agreement

**2.2 Drafting of Agreements**

- 2.2.1 Agreements to Sell/Purchase- Foreign Collaboration Agreements – Service Agreements –
- 2.2.2 Hypothecation - On-line Shopping Agreement- Leave, License and Rental Agreement- Outsourcing Agreements.



## **2.3 Drafting of Contracts**

- 2.3.1 Drafting of Contracts-Importance and Procedure
- 2.3.2 Form of Contract – Dealership Contracts, Building Contracts, Agency Contracts-Ingredients of Agency Contract-Service Contract
- 2.3.3 Electronic Contracts (E-Contracts Essentials and Types of E-Contract, Important Points with regard to E-Contracts)

## **Unit 3 (10 Hours)**

### **Drafting of Deeds**

- 3.1 Basic Components of Deeds – Use of Appropriate Words and Expressions-Endorsement and Stamping of Deed
- 3.2 Types of Deed-
  - 3.2.1 Deed of Hire Purchase Agreement-
  - 3.2.2 Relinquishment Deed-Deed of Sale of Immovable Property
  - 3.3.3 Deed of Amalgamation of Companies-Deed of Sale of Business

## **Unit 4 (10 Hours)**

### **Deed of Assignment**

- 4.1 Assignment Deed-Importance and Types
  - 4.1.1 Business Debts – Shares in a Company – Policies in Insurance
  - 4.1.2 Patents, Trademarks, Copyrights – Business and Goodwill and other Rights and Interests – Deed of Exchange and Gift Deeds.
- 4.2 Deed of Power of Attorney- Revocable – Irrevocable – General and Specific Letters of Authority.

## **Unit 5 (10 Hours)**

### **Pleading**

- 5.1. Meaning and Importance-Essentials and Particulars of Pleading-Signing and Verification- Amendment in Pleadings.
- 5.2 Civil Pleadings- Injunction Application-Interlocutory Application-Revision Petition- Review Petition
- 5.3 Criminal Pleadings- Meaning – Complaint- Application for Bail-Anticipatory Bail

## **BOOKS FOR STUDY**

G.M.Kothari and Arvind G. Kothari, *Drafting and Conveyancing*, N.M. Tripathi p ltd., Mumbai, Recent edition  
DR R.Prakash, *Art of Conveyancing and Pleading*, Eastern Book Co., Revised 2<sup>nd</sup> Edition,

## **BOOKS FOR REFERENCE**

J.C.Verma, *Commercial Drafting and Conveyancing*, Bharat Law Publishers, ND.  
N.S. Bindra, *Conveyancing, Drafting and Interpretation of Deeds*, Law Publishers.  
M.C.Gurha, *A Guide to the deeds*, Modern Law House, Allahabad.  
Rajendrapal and Korlahalli, *Business Communication*, SulthanChand & Sons, NewDelhi

**NOTE:** Latest edition of Books to be used

## **JOURNAL**

Madras Law Journal

## **WEB RESOURCES**

[www.icsi.edu](http://www.icsi.edu)

<http://dhaka.academia.edu/RaisuLIslamSourav/>

[www.legalviewsofsourav.blogspot.com](http://www.legalviewsofsourav.blogspot.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 X 2 = 14 (No choice)

Section B – 2 X 8 = 16 (Answer any three out of 4)

Section C – 1 X 20 = 20 (Answer any one question out of 2)

### **Other Components:**

**Total Marks: 50**

Open book test/Multiple choice questions/Actual Case study/Drafting of model documents.

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 X 2 = 20 (no choice-Max 30 words)

Section B – 5 X 8 = 40 (from a choice of seven – Max 500 words)

Section C – 2 X 20 = 40 (from a choice of four - Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SECRETARIAL PRACTICE**

**CODE:19CO/MC/SP53**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To expose students to the secretarial duties relating to the formation of a company
- To provide inputs on the secretarial aspects relating to issue of shares
- To enable students to understand the secretarial responsibilities relating to company management

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the Secretarial Standards.
- Understand the role played by the secretary in complying with statutory requirements
- Exhibit a comprehensive knowledge in procedural requirements on matters relating to conduct of meeting
- Explore the possibility of acquiring necessary skills for a career in Company Secretaryship

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Secretary – Meaning and Types of Secretaries
- 1.2 Company Secretary – Definition and Legal Position
- 1.3 Rights, Duties and Liabilities of a Company Secretary
- 1.4 Qualification, Appointment and Dismissal of a Company Secretary

**Unit 2 (8 Hours)**

**Secretarial Standards**

- 2.1 Meaning, Scope and Need
- 2.2 Secretarial Standards relating to (SS1-SS5)
  - 2.2.1 Meetings of Board of Directors
  - 2.2.2 General Meetings
  - 2.2.3 Dividend
  - 2.2.4 Registers and Records
  - 2.2.5 Minutes

**Unit 3 (12 Hours)**

**Duties of a Secretary Relating to Formation of a Company**

- 3.1 Promotion and Incorporation
- 3.2 Prospectus
- 3.3 Issue of Shares
- 3.4 Listing

**Unit 4 (14 Hours)**

**Duties of a Secretary Relating to Members and Meetings**

- 4.1 Register of Members – Preparation and Duties relating to Maintenance of Register of Members
- 4.2 Secretarial Duties relating to Meeting
  - 4.2.1 Board Meetings – Frequency, Notice, Agenda, Quorum, Resolution, Minutes and Procedure for Holding the Meeting
  - 4.2.2 Extra-ordinary General Meeting – Notice, Explanatory Statement and Procedure for Conduct
  - 4.2.3 Annual General Meeting- Statutory Provisions and Duties of a Company Secretary, By Member's Requisition
- 4.3 Conduct of the Meeting

**Unit 5 (8 Hours)**

**Secretarial Duties Relating to Winding up and Dissolution**

- 5.1 Secretarial Duties for each Method of Winding up.
- 5.2 Liquidators, Rights and Powers- Appointment of Committee of Inspection, Position of Company Secretary in Liquidation

**BOOKS FOR STUDY**

Kapoor, N.D. *Company Law and Secretarial Practice*. New Delhi: Sultan Chand, 2016.  
K.Ramachandra, B. Chandrashekara, S. Allah Bakash. *Company Law and secretarial practice*. Himalaya Publishing House

**BOOKS FOR REFERENCE**

S. Srikanth, Shanthi Rekha Rajagopal, Revathy Blakrishnan, *Corporate Laws and Secretarial Practice*, Jain Book  
M C Kuchhal, *Secretarial Practice*, New Delhi. Vikas Publishing House.  
Bahl, J.C. *Secretarial Practice in India*. Mumbai: Tripathi M.N, 2006.  
Ghosh K Prashanth. *Company Secretarial Practice*. New Delhi: Sultan Chand, 2007.  
Sherlekhar, S.A. *Company Secretarial Practice*. New Delhi: Kitab Mahal, 2006.  
Tandon, B.N. *Manual of Secretarial Practice*. New Delhi: Sultan Chand.

**JOURNALS**

Company and Securities Law Journal  
Company law journal  
Company news and reports

**WEB RESOURCES**

[www.ddegjust.ac.in](http://www.ddegjust.ac.in)  
[www.legalserviceindia.com](http://www.legalserviceindia.com)  
[www.businesscommunicationarticles.com](http://www.businesscommunicationarticles.com)  
[www.icsi.edu](http://www.icsi.edu)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

### **Other Components:**

**Total Marks: 50**

Seminar/Assignments/Quiz

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086**

**Interdisciplinary Core Course Offered by the Department of Commerce(Corporate Secretaryship and Business Administration) to B.Com(Corporate Secretaryship) and B.B.A. Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**COMPENSATION MANAGEMENT**

**CODE:19ID/IC/CM55**

**CREDITS: 5**

**L T P 5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To acquaint students with basic compensation concepts
- To provide to the students various dimensions of Compensation Management
- To enable students to understand the legal provisions relating to employee benefits

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Relate compensation management to behavioural theories and concepts
- Identify the internal and external environment factor which impact the salary structure
- Comprehend the provisions relating to compensation management
- Understand the concepts on wage payments

**Unit 1 (16 Hours)**

**Wage and Salary Administration**

- 1.1 Concept of Wages and Salary, Theories of Wage
- 1.2 Types of wages, Components of wages
- 1.3 Factors determining wages, Principles of wage administration

**Unit 2 (16 Hours)**

**Wage Legislations**

- 2.1 Principles of Equal Pay for Equal work
- 2.2 Job Evaluation – Definition , Objectives,
- 2.3 Methods, Classification, Factor Comparison Method and Point Method of Job Evaluation

**Unit 3 (17 Hours)**

**Compensation Classification**

- 3.1 Types - Incentives, Fringe Benefits
- 3.2 Strategic Compensation Planning
- 3.3 Determining Compensation

**Unit 4 (16 Hours)**

**Wage Structure**

- 4.1 Wage Fixation – Flat Rate, Merit Rate, Wage Surveys.
- 4.2 Wage Payment – Wage Payment Policies - Wage Payment Systems – Wage Incentive Plans, Blue Collar Employees, White Collar Employees.

**Unit 5****(13 Hours)****Workmen's Compensation Act, 1923**

- 5.1 Object, Scope and Coverage of the Act
- 5.2 Definitions – Dependent, Employer, Partial and Total Disablement, Workmen Injury Accident
- 5.3 Rules Regarding Employees Compensation
- 5.4 Amount and Distributions of Compensation, Notice and Claim

**BOOKS FOR STUDY**

Kapoor .N.D. *Elements of Industrial law* , Sultan Chand and Sons ,New Delhi, 2017  
Singh, B.D *Compensation & Reward Management*. Excel Book, New Delhi, 2016  
Gupta. C.B. *Human Resource Management*, Sultan Chand Publishers, New Delhi, 2017  
Flippo, Edwin B. , *Personnel Management*, McGraw Hill  
George.T. Milkovich, *Compensation:special Indian edition*, McGraw Hill,2017

**JOURNALS**

Journal of Commerce  
Journal of Management  
Journal of Compensation Management

**WEB RESOURCES**

<https://www.hr-guide.com/data/G400.html>  
[www. mca.gov.in](http://www.mca.gov.in)

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A –7 x 2 = 14 Marks (no choice)		
Section B – 2 x 8 =16 Marks (from a choice of three)		
Section C –1 x 20 = 20 Marks (from a choice of two )		

**Other Components:****Total Marks: 50**

Seminars / Assignments/Class Presentation/Multiple Choice Questions/Case study

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A –10 x 2 = 20 Marks (no choice - Max 30 words )  
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)  
Section C –2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GOODS AND SERVICES TAX**

**CODE:19CO/MC/GT64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarise students with an understanding of the GST law in the country
- To provide students with the working knowledge of the principles and provisions of GST
- To enable students to analyse and understand the implications of GST

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the rationale for GST
- Understand various concepts of Goods and Service Tax
- Record and analyze the transactions for compliance under GST
- Understand the computation of GST and input tax credit

**Unit 1 (15 Hours)**

**Introduction**

- 1.1 Constitutional Framework of Indirect Taxes before GST (Taxation Powers of Union and State Government)
- 1.2 Concept of VAT-Meaning, Variants and Methods, Major Defects in the Structure of Indirect Taxes prior to GST
- 1.3 Rationale for GST- Structure of GST ( SGST, CGST, UTGST & IGST)
  - 1.3.1 GST Council, GST Network, State Compensation Mechanism, Registration.

**Unit 2 (15 Hours)**

**Levy and Collection of GST**

- 2.1 Taxable Event- “Supply” of Goods and Services, Place of Supply, Within State, Interstate, Import and Export, Time of Supply
- 2.2 Valuation for GST- Valuation Rules, Taxability of Reimbursement of Expenses
- 2.3 Exemption from GST- Small Supplies and Composition Scheme
- 2.4 Classification of Goods and Services- Composite and Mixed Supplies.

**Unit 3 (12 Hours)**

**Input Tax Credit**

- 3.1 Basic concept, Simple Illustrations on Calculation of GST and Input Tax Credit
- 3.2 Order of Adjustment of Input Tax Credit against Output CGST, SGST, IGST.



**Unit 4** (12 Hours)

**Payment of GST**

- 4.1 Time of GST Payment
  - 4.1.1 Mode of Payment
  - 4.1.2 Challan Generation
  - 4.1.3 CPIN TDS and TCS

**Unit 5** (11 Hours)

**Procedures and Special Provisions**

- 5.1 Tax Invoice, Credit and Debit Notes, Returns, Audit in GST
- 5.2 Assessment- Self-Assessment, Summary and Scrutiny.
- 5.3 Taxability of E-Commerce, Anti-Profitteering, Avoidance of Dual Control, E-way Bills, Zero-Rated Supply, Offences and Penalties, Appeals
- 5.4 Applicability of GST Audit

**BOOKS FOR STUDY**

V S Datey, All About GST, Taxmann Publications.

V.S.Datey, *GST Ready Reckoner*, Chennai: Taxmann Publications.

**BOOKS FOR REFERENCE**

Gupta, S.S. , *GST- How to meet your obligations*, Chennai: Taxmann Publications.

CA. Rajat Mohan, *Illustrated Guide to Goods & Service Tax, New Delhi*: Bharat Law House

Timir Baran Chatterjee and Vivek Jalan, *How To Handle - GST-TDS & GST-TCS, GST Audit, GST Annual Return*, New Delhi: Book Corporation

Adithya Singhania, *GST Audit and Annual Return*, Taxmann Publications

**NOTE:** Latest edition of Book to be used

**JOURNALS**

Indian Journal of Finance

Journal of Global Economics

Asian Journal of Management Research

**WEB RESOURCES**

[www.gst.gov.in/](http://www.gst.gov.in/)

[www.zoho.com/in/books/gst/](http://www.zoho.com/in/books/gst/)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:** **Total Marks: 50**  
Seminars/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

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Section C – 2 x 20 = 40 Marks (from a choice of four - Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI –600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**SOCIAL SECURITY LAWS**

**CODE: 19CO/MC/SL63**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To facilitate students to understand the features of social security laws
- To orient students with the fundamental principles of Provident Fund, Pension and Insurance
- To create an awareness about the social security legislations in different establishments

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the basic principles and rules of various social security laws
- Debate issues relating to vulnerable groups in society
- Research and formulate solutions to legal problems including alternative dispute resolution options.
- Analyse and apply relevant case law and legislation to welfare issues in India

**Unit 1 (8 Hours)**

**Introduction to Social Security**

- 1.1 Meaning, Significance and Objects
- 1.2 Evolution and Constituents of Social Security
- 1.3 Difference between Organised and Unorganised Sector

**Unit 2 (11 Hours)**

**Laws relating to Retirement Benefits**

- 2.1 Employees' Provident Funds and Miscellaneous Provisions Act- Definitions  
Application
  - 2.1.1 Employees Provident Fund Scheme, Pension Scheme,
  - 2.1.2 Deposit Linked Insurance Scheme- Administration, Claims and Benefits
  - 2.1.3 Penalties and Offences
- 2.2 Payment of Gratuity Act- Definitions, Payment, Forfeiture, Nomination, Determination, Recovery, Inspectors, Penalties and Offences

**Unit 3 (10 Hours)**

**Laws relating to welfare of Employees**

- 3.1 Equal Remuneration Act
- 3.2 Employees' State Insurance Act, - Definition, Contributions, Claims and Benefits and Offences
- 3.3 Apprentices Act, 1961 - Scope, Coverage, Definitions, Apprentices and their Training, Obligation of Employers and Apprentices, Authorities, Penalties and Offences

**Unit 4 (13 Hours)**

**Laws relating to Welfare of Women**

- 4.1 Maternity Benefit Act, 1961 - Objects, Salient Features, Application and Definitions
  - 4.1.1 Prohibition of Employment, Maternity Benefit, Leave and Nursing Breaks
  - 4.1.2 Right to Payment of Maternity Benefit
  - 4.1.3 Powers and Duties of Inspectors, Penalties and Offences
- 4.2 Maternity Benefit (Amendment) Act, 2017- Applicability, Key Aspect, Changes by Amendment, New Inclusions
- 4.3 Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013

**Unit 5 (10 Hours)**

**Laws relating to Unorganized Sector**

- 5.1 The Unorganised Workers' Social Security Act 2008-Objects, Features, Application and Definitions
- 5.2 National and State Social Security Board
- 5.3 Social Security Schemes

**BOOKS FOR STUDY**

Kapoor, ND, *Elements of Mercantile Law*, New Delhi: Sultan Chand & Sons, 2018  
Shreenivasan, M R (Dr.), *Industrial & Labour Law*, Chennai: Margham Publications, 2018

**BOOKS FOR REFERENCE**

Kumar, H.L. *Digest of Labour Cases*, New Delhi: Universal Law, 2018  
B.S. Moshal, *Business & Industrial Laws*, New Delhi: Ane Books, 2011  
Srivastava, S.C. *Industrial Relations & Labour Laws*, New Delhi: Vikas Publishing, 2016  
Malik, K.L. *Industrial Laws and Labour Laws*, Lucknow: EBC Web Store, 2017  
Hitesh Bhatia, *Introduction to Social Security - With Special Reference to India*, New Delhi: Mangalam Publisher, 2015

**JOURNALS**

Journal of Social Security Law  
The Journal of Social Welfare Law  
International Journal of Labour Research

**WEB RESOURCES**

[http://coachieveindia.com/regdocs/uploads/The%20Maternity%20Benefit%20Act%202017\\_A%20Reveiw%20Note.pdf](http://coachieveindia.com/regdocs/uploads/The%20Maternity%20Benefit%20Act%202017_A%20Reveiw%20Note.pdf)  
<http://www.ilo.org/dyn/travail/docs/686/Unorganised%20Workers%20Social%20Security%20Act%202008.pdf>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Components:                            Total Marks: 50**

Seminars/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DUE DILIGENCE AND COMPLIANCE MANAGEMENT**

**CODE:19CO/MC/DC64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the objectives and procedures of due diligence investigation
- To enable students to identify the critical information
- To impart know-how on risk management

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the need and importance of due diligence
- Explain the tradeoffs inherent in the time and costs of due diligence
- Apply a range of checklists, templates, and frameworks to ensure appropriate depth and breadth in their investigations
- Manage the process of due diligence investigation and compliance procedures

**Unit 1 (15 Hours)**

**Due Diligence - An Overview**

- 1.1 Introduction, Nature, Need and its Significance
- 1.2 Objectives, Scope and Types of Due Diligence
- 1.3 Process of Due Diligence

**Unit 2 (12 Hours)**

**Issue of Securities**

- 2.1 Introduction and Regulatory Framework for Pre and Post Securities Issue Due Diligence - IPO/FPO
- 2.2 Due Diligence - Preferential Issues of Listed and Unlisted Companies
- 2.3 Employee Stock Option, Bonus Issue, Rights Issue, Debt Issues

**Unit 3 (15 Hours)**

**Merger and Acquisition**

- 3.1 Introduction, Due Diligence Process, Activity Chart, Preparation of Scheme of Amalgamation
- 3.2 Impact of Due Diligence on Valuation, HR and Cultural Due Diligence
- 3.3 Corporate Governance Due Diligence, Environmental Due Diligence
- 3.4 Importance of Documentation

**Unit 4** (11 Hours)

**Due Diligence Report**

- 4.1 Format of Due Diligence Report, Important Contents of Due Diligence Report
- 4.2 Possible Hurdles in Due Diligence
- 4.3 Steps to Overcome the Hurdles in Due Diligence

**Unit 5** (12 Hours)

**Compliance Management**

- 5.1 Meaning, Need, Concept
- 5.2 Significance and Scope of Compliance Management
- 5.3 Role of Information Technology in Compliance Management Systems through Web Based Compliance Systems

**BOOKS FOR STUDY**

Abha Aggarwal & S K Aggarwal, *Secretarial Audit Compliance Management & Due Diligence*, New Delhi: Reliance Publications, 2018

Aapl Landmen, *Mergers and Acquisitions Due Diligence*, Create Space Independent Publishing Platform, 2017

**BOOKS FOR REFERENCE**

Sangeet Kedia & Anuj Sharma, *Sangeet Kedia's Secretarial Audit, Compliance Management & Due Diligence*, New Delhi: Pooja Law House, 2017

S K Pandab, *Lawpoint's Secretarial Audit Compliance Management and Due Diligence*, New Delhi: LawPoint Publications, 2014

Jeffrey W. Berkman, *Due Diligence and the Business Transaction: Getting a Deal Done*, Apress, 2015

Peter Howson, *The Essentials of M&A Due Diligence*, London: Routledge Focus, 2018

**JOURNALS**

Journal of Private Equity

Journal of Business & Economics Research

Lexis Nexis

**WEB RESOURCES**

<https://www.studocu.com/en-au/document/university-of-new-south-wales/business-and-the-law/lecture-notes/lecture-notes-lectures-2-business-structures-compliance-due-diligence-risk-management/10709/view>

<https://www.icsi.in/Study%20Material%20Professional/NewSyllabus/SACMDD.pdf>

<https://www.moonstone.co.za/notes-on-due-diligence/>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

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Seminars/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTERNSHIP**

**CODE:19CO/MC/IN64**

**CREDITS:4**

**L T P:0 0 5**

**OBJECTIVES OF THE COURSE**

- To provide students with hands-on training on secretarial responsibilities
- To familiarise students with the organisation structure
- To enhance students' employability

**COURSE LEARNING OUTCOMES:**

On successful completion of the internship, students will be able to

- Realign learning towards employability
- Identify additional skills on career enhancement
- Acquire technical competence on secretarial activities undertaken
- Gain exposure on handling responsibilities in the areas of Secretarial Practice and Administration

**ABOUT THE INTERNSHIP**

The role of the interns includes:

- Engage in teams for execution of work assigned by the respective departments
- Handle assignments and Coordinate
- Work on documentation and drafting
- Identify regulatory compliance relating to Companies Act
- Preparation of agenda minutes and notices to conduct meetings
- Send emails to prospective clients
- Other duties such as:
  - Front Office tasks
  - KYC documents sharing and bank related documentation
  - Tracking payments and presentation of bills for signature

**GUIDELINES:**

- The student will undergo practical training in a reputed organization for 100 hours.
- The student is expected to work in the secretarial department at least for 40 hours and the remaining 60 hours under other departments such as Finance, Marketing and HR
- Maintain a log book duly counter signed by the supervisor of the organization
- Log book should contain the following details:
  - Hours worked
  - Nature of work performed
  - Signature of the supervisor
  - Submit interim reports to the faculty advisor after completion of every 25 hours of work
  - A final consolidated report to be submitted to faculty advisor

## **Preparation of Final Report**

The report should have a minimum of 50 pages detailing the work assigned and performed in the organization.

- Introduction
- Profile of the Company
- Practical Aspects of Internship
- Advantages
- Limitations
- Findings
- Suggestions
- Conclusion

## **PATTERN OF ASSESSMENT**

Log book	10 marks
Interim Report	20 marks
Project report	40 marks
Viva	30 marks



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI –600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INDUSTRIAL REGULATIONS**

**CODE:19CO/ME/IR45**

**CREDITS:5**

**LTP:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide students with an understanding on the theories and practices of Industrial Relations.
- To familiarise students with the interaction pattern among labour, management and the state
- To create an awareness on issues in Industrial Relations

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the scope of employment related legislations
- Gain a comprehensive overview of the institutional framework
- Examine the role played by the employers, employees, trade unions and the government
- Elucidate the process and steps involved in negotiation

**Unit 1 (15 Hours)**

**Industrial Relations**

- 1.1 Definition, Scope, Objectives and Nature
- 1.2 Factors and Importance of Industrial Relations
- 1.3 Approaches to Industrial Relations

**Unit 2 (15 Hours)**

**Collective Bargaining and Negotiation**

- 2.1 Meaning, Objectives, Benefits and Importance of Collective Bargaining
- 2.2 Conditions and Essentials for Successful Collective Bargaining, Collective Bargaining Process
- 2.3 Negotiation - Types, Techniques of Negotiation, Negotiation Process, Essential Skills for Negotiation

**Unit 3 (10 Hours)**

**Workers participation in Management and Grievance Management**

- 3.1 Meaning, Objectives, Factors Influencing Participation
- 3.2 Forms and Levels of Participation, Benefit of Workers Participation in Management
- 3.3 Meaning and Concept of Grievance, Causes of Grievance, Effects of Grievance, Grievance Redressal Procedure.

**Unit 4 (15 Hours)**

**Labour Welfare**

- 4.1 Concept, Objectives and Principles of Labour Welfare
- 4.2 Role of Workers Participation in Labour welfare, Types of Conflict Resolution, Statutory and Non Statutory
- 4.3 Agencies for Labour Welfare in India- Statutory and Non-Statutory.

**Unit 5 (10 Hours)**

**Trade Unions & Quality Circles**

- 5.1 Nature of Trade Unions, Trade Union Movement in India
- 5.2 Reasons for Employees to Join Trade Unions, Problems of Trade Unions and Remedies
- 5.3 Quality Circles (QC)- History , Organization Structure, Benefits and Problems of QC.

**BOOKS FOR STUDY**

Mamoria C.B.& Mamoria S., Dynamics of Industrial Relations, Mumbai: Himalaya Publishing House, 2018  
P C Tripathi, *Personnel Management and Industrial Relations*, New Delhi: S Chand, 2018

**BOOKS FOR REFERENCE**

C.S Venkata Ratnam, *Industrial relations*, Noida: Oxford University Press, 2017  
Mathur B.L., *Management of Industrial Relations*, New Delhi: National Publishing House, 2016.  
Michael V.P., *Industrial Relations in India and Workers' Involvement in Management*, New Delhi: Himalaya Publishing House, 2015.  
Papola T.S., P.P.Ghosh and A.N. Sharma (Eds.), *Labour, Employment and Industrial Relations in India*, New Delhi: B.R. Publishing Corporation, 2016.  
Sen Ratna, *Industrial Relations in India*, Noida:Macmillan India Ltd, 2016

**JOURNALS**

International Journal of Comparative Labour Law and Industrial Relations  
Journal of Industrial Relations  
International Journal of Science and Research

**WEB RESOURCES**

<https://lecturenotes.in/materials/13771-note-of-industrial-relations-by-devi-gith>  
<https://businessjargons.com/industrial-relations.html>  
<https://www.danshaw.co.za/role-government-in-industrial-relations/>  
<http://www.yourarticlelibrary.com/industries/study-notes-on-industrial-relations/74207>  
<https://www.coursehero.com/file/20887519/HRM-INDUSTRIAL-RELATIONS-NOTES/>

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**Duration: 90 minutes**

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**Total Marks: 50**

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**Total Marks: 100**

**Duration: 3 hours**

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS ENVIRONMENT**

**CODE:19CO/ME/BE45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To impart students an understanding on the concepts of Business Environment
- To enable students to understand and analyse the Indian business environment
- To acquaint students with the business issues of Domestic and Global environment

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the various environment factors related to the business.
- Develop the skill required to take better business decision
- Explain the nature of business environment and its components.
- Demonstrate a conceptual framework of business environment and generate interest in international business.

**Unit 1 (12 Hours)**

**An overview of Business Environment**

- 1.1 Business Environment –Concept ,Definition , Nature and types of Business Environment
- 1.2 Concept of business-Scope and Characteristics of Business
- 1.3 Business during the 21st Century - Knowing the environment – Factors influencing the Indian Business Environment
- 1.4 Environmental Analysis- Concept, Process, Importance and its Limitation.

**Unit 2 (13 Hours)**

**Economic Environment**

- 2.1 Economic System-Meaning, Characteristics and Types of Economic System
- 2.2 Economic Planning-Nature and Scope, Importance, Economic Planning in India, Five- year plans in India
- 2.3 NITI Aayog-Functions and Initiative; Effect of recession on Business and its Remedies

**Unit 3 (12 Hours)**

**Political Environment**

- 3.1 Political and Government Environment – Functions of the State , Economic Roles of the Government
- 3.2 Government- Business Relationship in India
- 3.3 Government's Responsibility to Business, Business's responsibility to Government- Brief Overview about Make in India.

**Unit 4 (13 Hours)**

**Social Environment**

- 4.1 Social Environment – Business and Society-Objectives of Business
- 4.2 Social Responsibility of Business –Concept, Nature, Arguments for and Against Social Responsibility
- 4.3 Business Ethics-Concept, Nature, Elements and Need for Ethics in Business
- 4.4 Developing a Corporate Ethical Programme, Benefits of Ethical Codes, Concept of Corporate values

**Unit 5 (15 Hours)**

**International and Technological Environment**

- 5.1 International and Technological Environment- Multinational Corporations- Foreign Collaborations and Indian Business, Non – Resident Indians and Corporate Sector
- 5.2 International Economic Institutions – WTO, World Bank; IMF and their Importance to India
- 5.3 Foreign Trade Policies- Impact of Rupee Devaluation
- 5.4 Technological Environment –Meaning, Features, Classification, Impact of Technology, Technology and Business-SWOT Analysis.

**BOOKS FOR STUDY**

Dr. Francis Cherunilam, *Business Environment*, Himalaya Publishing House, Mumbai, 2018.  
C.B.Gupta, *Business Environment*, Sultan Chand & Sons, New Delhi, 2017

**BOOKS FOR REFERENCE**

M.B. Shukla, *Business Environment Text and Cases*, Taxmann Publications Private Limited New Delhi, 2011  
Pailwar V.K, *Business Environment*, Prentice Hall India Learning Private Limited, New Delhi, 2014  
Faisal Ahmed, M. Absar Alam *Business Environment : Indian And Global Perspective*, PHI Learning, New Delhi, 2017  
K.Aswathappa, *Essentials of Business Environment*, Himalaya Publishing House, Mumbai, 2018

**JOURNALS**

International Journal of Indian Culture and Business Management  
International Journal of Business and Globalisation  
International Journal of Business Environment

**WEB RESOURCES**

[www.bms.co.in/technological-environment-in-india/](http://www.bms.co.in/technological-environment-in-india/)  
[www.ibef.org](http://www.ibef.org) › Indian Economy  
[www.en.portal.santandertrade.com/analyse-markets/india/economic-political-outline](http://www.en.portal.santandertrade.com/analyse-markets/india/economic-political-outline)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two)

### **Other Components:**

**Total Marks: 50**

Seminars/Assignments/Class Presentation/Multiple choice questions/Case study

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS DEVELOPMENT**

**CODE:19CO/ME/BD45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVE OF THE COURSE**

- To enable students to acquire knowledge and skills required for organising and carrying out entrepreneurial activities
- To facilitate students to develop their ability in analysing and understanding business situations
- To provide students with the knowledge for planning business activities

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the key aspects of business
- Understand the different innovation and entrepreneurship theories and their implications
- Identify personal attributes that enable best use of entrepreneurial opportunities
- Explore the opportunities and ways to develop a business

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Concept of Business Development - Meaning, Definition, Characteristics and Need
- 1.2 Entrepreneur - Meaning, Definition, Scope, Need and Functions
- 1.3 Importance of the Growth of New Venture for Economic Development.
  - 1.3.1 Internal and External environment – Economic and Non - Economic, Psychological, Social, Cultural, Political, Legal and Economic Factors, Barriers

**Unit 2 (15 Hours)**

**Business Plan**

- 2.1 Opportunity Identification and Selection
- 2.2 Idea Generation and Screening of Business Idea, Sources of Business Idea, Evaluation of Business Idea, Selection of Business Idea
- 2.3 Business Plan – Meaning, Contents and Significance of Business Plan
- 2.4 Business Plan –Stages
- 2.5 SWOT analysis.

**Unit 3 (10 Hours)**

**Types of Entrepreneurs**

3.1 Women Entrepreneurs

3.1.1 Definition, Problems– Opportunities and Future of Women Entrepreneurs

3.1.2 Strategies for the Development of Women Entrepreneurs – Profiles of Successful Women Entrepreneurs – Institutions supporting Women Entrepreneurship in India

3.2 Micro Small and Medium Enterprise (MSME)

3.2.1 Small Scale Industries – Concepts, Definition, Role and Problems

3.2.2 Development of Small Scale Sector in India, SME in other Countries

**Unit 4 (15 Hours)**

**Project Formulation**

4.1 Meaning, Concept and Stages in Project Formulation

4.2 Need and Significance of Project Formulation, Feasibility Analysis

4.3 Elements of Project Formulation

4.4 Feasibility Report

4.5 Preparing a Model Project Report for Starting a New Venture

**Unit 5 (15 Hours)**

**Entrepreneurial Development Programs**

5.1 Entrepreneurial Development Programs in India

5.2 Entrepreneurial Development Programs in Tamil Nadu

5.3 Government Assistance in Promoting Business Development

**BOOKS FOR STUDY**

C.B. Gupta & N. P. Srinivasan, *Entrepreneurial Development*, Sultan Chand & Sons, Revised Edition 2017

Charantimath, *Entrepreneurship development & Small business enterprise*, Pearson Edn., New Delhi, 2013

**BOOKS FOR REFERENCE**

Jayashree Suresh, *Entrepreneurial Development*, Margham Publications, New Delhi, 2012

Khan M.A., *Entrepreneurial Development Programme in India*, Kanishka Publications

Balu v., *Entrepreneurial Development*, Sri Venkateswara Publications, Latest Edition

S.S.Khanka, *Entrepreneurial Development*, S. Chand & Co, New Delhi

**NOTE:** Latest edition of Books to be used

**JOURNALS**

Journal of Development Entrepreneurship

Journal of Entrepreneurship Education

Journal of Business Venturing

**WEB RESOURCES**

<http://www.entrepreneur.com>

<http://www.businessesforsale.com>

<http://www.sba.gov>

<http://joe.sagepub.com/content/19/2.toc>

<http://www.youngentrepreneur.com>



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI –600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CYBER LAW AND SECURITY**

**CODE:19CO/ME/CS45**

**CREDITS:5**

**LTP:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the various facets of cyber crimes
- To enable students to develop skills required to understand the concepts of cyber law
- To familiarise students with issues relating to online transactions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss different types of cybercrimes
- Apply the law against cyber offense
- Identify the various cybercrimes
- Create security policy to comply with laws governing privacy issues

**Unit 1 (15 Hours)**

**Introduction**

- 1.1 Cyber Law-Need, Basic Concepts
- 1.2 Cyber Space- Meaning, Definition, Implication and Usage
- 1.3 Overview of Information Technology Act, 2000

**Unit 2 (15 Hours)**

**Cyber Crime**

- 2.1 Cyber Crimes against Individuals, Institution and State
- 2.2 Hacking, Digital Forgery, Cyber Stalking/Harassment, Cyber Pornography
- 2.3 Identity Theft and Impersonation, Cyber Terrorism

**Unit 3 (10 Hours)**

**Constitutional and Human Rights Issues in Cyberspace**

- 3.1 Freedom of Speech, Right to Privacy, Right to Access Cyberspace
- 3.2 Access to Internet, Expression in Cyberspace
- 3.3 Right to Data Protection

**Unit 4 (15 Hours)**

**Legal Framework of Information and Technology Act 2000**

- 4.1 Digital Signature, E- Signature, Electronic Records, Electronic Evidence and Electronic Governance.
- 4.2 Controller, Certifying Authority and Cyber Appellate Tribunal.(Rules announced under the Act)
- 4.3 Offences under the Information and Technology Act 2000, Penalty and Adjudication, Punishments for Contraventions under the Information Technology Act, 2000

**Unit 5****(10 Hours)****Cyber Torts**

5.1 Cyber Defamation

5.2 Different Types of Civil Wrongs under the IT Act, 2000

**BOOKS FOR STUDY**Justice Yatindra Singh, *Cyber Laws*, New Delhi: Universal Law Publishing Co, 2017S. R. Bhansali, *Information Technology Act, 2000*, Jaipur: University Book House Pvt. Ltd, 2016**BOOKS FOR REFERENCE**Michael E. Whitman, Herbert J. Mattord, *Principles of Information Security*, Cengage Learning Pub., 2014Pavan Duggal, *Cyber frauds, Cybercrimes & Law in India*, New Delhi: Saakshar Law Publications, 2013Shubham Sinha, *The Internet Law of India*, Lucknow: Indian Law Series, 2015Anirudh Rastog, *Cyber Law Law Of Information Technology And Internet*, New Delhi: Lexis Nexis, 2015Bivas Chatterjee, *Cyber Crime Manual*, Kolkata: Lawman Publication, 2015**JOURNALS**

International Journal of Cyber Criminology

International Journal of Engineering Research and Applications

Journal of Information Engineering and Applications

**WEB RESOURCES**<http://www.eqanie.eu/media/cybersecurity-principles-learning-outcomes-whitepaper.pdf>[https://www.tutorialspoint.com/information\\_security\\_cyber\\_law/quick\\_guide.htm](https://www.tutorialspoint.com/information_security_cyber_law/quick_guide.htm)<https://www.cybrary.it/><http://www.cyberlawsindia.net/>**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:****Total Marks: 50**

Seminars/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

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**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**COMMODITIES MARKET**

**CODE:19CO/ME/CM45**

**CREDITS:5**

**LTP:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand various techniques of commodity market
- To provide students with the best usage of commodity futures to maximize profit
- To familiarise students with a variety of commodity markets Research and Analysis

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Describe the features and characteristics of commodities
- Differentiate between spot, forward and futures trading
- Compare and contrast investing and trading in commodities
- Identify the risks associated with commodities

**Unit 1 (15 Hours)**

**Commodities Market**

- 1.1 Commodities Market in India-Importance, Participants in Commodities Market, Trading in Commodities in India
- 1.2 Commodities- Meaning, Types
- 1.3 Commodity Exchanges in India, Reasons for Investing in Commodities

**Unit 2 (15 Hours)**

**Derivatives Market**

- 2.1 Elements of a Derivative Contract, Factors Influencing the Growth of Derivatives Market
- 2.2 Derivatives- Meaning, Types of Underlying Assets
- 2.3 Participants in Derivatives Market, Advantages and Disadvantages of Trading In Derivatives Market
- 2.4 Current Volumes of Derivative Trade in India, Difference between Forwards and Futures

**Unit 3 (12 Hours)**

**Pricing of Futures**

- 3.1 Futures Contract Specification, Terminologies, Concept of Convergence
- 3.2 Relationship between Futures Price and Expected Spot Price, Risk
- 3.3 Pricing of Futures Contract, Cost of Carry Model

**Unit 4** (12 Hours)

**Hedging**

- 4.1 Speculation and Arbitrage using Futures, Long Hedge – Short Hedge
- 4.2 Cash and Carry Arbitrage, Reverse Cash and Carry Arbitrage
- 4.3 Payoff Charts and Diagrams for Futures Contract, Perfect and Imperfect Hedge

**Unit 5** (11 Hours)

**Trading, Clearing and Settlement in Derivatives Market**

- 5.1 Meaning and Concept, SEBI Guidelines, Trading Mechanism, Types of Order
- 5.2 Clearing Mechanism, NSCCL, Objectives and Functions
- 5.3 Settlement Mechanism, Types of Settlement

**BOOKS FOR STUDY**

NitiChatnani, *Commodity markets*, Noida: McGraw Hill Publication, 2015  
John C. Hull and Basu, *Options Futures and Other Derivatives*, Noida: Pearson, 2018

**BOOKS FOR REFERENCE**

Carley Garner, *A Trader's First Book on Commodities: Everything You Need to Know about Futures and Options Trading Before Placing a Trade*, USA: Decarley Trading, LLC, 2017  
Robert McDonald, *Derivatives Market*, Noida: Pearson education, 2012  
K.Sasidharanand Alex K. Mathews, *Option trading – Bull market strategies*, New Delhi, McGraw Hill publication, 2014  
John Stephenson, John Mauldin, *The Little Book of Commodity Investing*, Noida: Wiley Publications, 2017

**JOURNALS**

Journal of Commodity Markets  
Asian Journal of Management Research  
International Journal of Commerce and Management

**WEB RESOURCES**

<https://commodity.com/>  
<http://www.kotakcommodities.com/commodities-academies>  
<http://www.businesseconomics.com/commodities.html#.XEVS4IUzbiU>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 = 16 Marks (from a choice of three)  
Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:** **Total Marks: 50**

Seminars/Group Discussion/Assignments/Class Presentations

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)  
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four - Max 1200 words)



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B.C.A. / B.S.W. / B.V.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DOCUMENTATION AND COMPLIANCE**

**CODE:19CO/GE/DC22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to understand compliance management and internal control systems
- To familiarise students with the terminology used in documentation
- To acquaint students with unique approach to documentation practices

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the importance and the need of compliance management, process involved, and systems approach to compliance management.
- Comprehend the compliance framework in an organization
- Apply the principles of documentation in practice
- Prepare the compliance report

**Unit 1 (10 Hours)**

**Introduction to Documentation**

- 1.1 Documentation – Purpose, Guiding Principles of Good Documentation, Examples of Good and Poor Documentation Practices
- 1.2 Document Management System – Meaning, Advantages & Disadvantages; Comparison of Physical and Virtual Data Room
- 1.3 Preservation of Records, Setting up of A Record Room, Suggestive Steps for Protecting Confidential Information

**Unit 2 (8 Hours)**

**Compliance Framework**

- 2.1 Introduction, Corporate Compliance Framework Setup – Process
- 2.2 Role of Company Secretary in Creation of Compliance Chart

**Unit 3 (8 Hours)**

**Compliance Management**

- 3.1 Meaning, Need, Benefits and Scope of Corporate Compliance
- 3.2 Process of Corporate Compliance Reporting (CCR)
- 3.3 Compliances – Activity Wise, Sector Wise, Industry-Specific, State & Local Laws Compliance

### **BOOKS FOR STUDY**

Lisette Wright., *Coding and Documentation Compliance: A Comprehensive Guide.*,  
Routledge 2017  
Pramod Jain., *Chartered Accountant's Documentation and Compliance for Audits and  
Reviews*

### **BOOKS FOR REFERENCE**

Janet Gough, David Nettleton, *Managing the Documentation Maze*, A John Wiley & So  
Publicatons, 2010

Nitish Singh, Thomas J. Bussen, *Compliance Management- A how to guide for executives,  
lawyers and other compliance professionals*  
ICSI study material

### **JOURNALS**

Chartered Secretary: ICSI, New Delhi  
Student Company Secretary: ICSI, New Delhi

### **WEB RESOURCES**

[www.icsi.edu](http://www.icsi.edu)  
[www.mca.gov.in](http://www.mca.gov.in)  
[www.sebi.gov.in](http://www.sebi.gov.in)  
[www.rbi.org.in](http://www.rbi.org.in)

### **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 60 minutes</b>
Section A – 5 x 1 = 5 marks (Objective questions)		
Section B – 5 x 2 = 10 marks (from a choice of seven)		
Section C – 2 x 5 = 10 marks (from a choice of four)		

<b>Other Components</b>	<b>Total Marks: 25</b>
Assignments/Objective Test/Quiz/Presentation	

**No End Semester Examination**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

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B.C.A. / B.S.W. / B.V.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LISTING OF SECURITIES**

**CODE:19CO/GE/LS22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the regulatory framework of SEBI
- To acquaint students with basic knowledge on Listing of Securities
- To educate students on compliance relating to listing agreements

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the working of SEBI and its functions in India
- Assess the Listing Procedure
- Operate the DEMAT account

**Unit 1 (6 Hours)**

**Introduction to Stock Exchange**

- 1.1 Stock Exchange –Introduction-Meaning and functions of Stock Exchange,
- 1.2 Depository Services and DEMAT Account
- 1.3 Securities and Exchange Board of India (SEBI) - Concept-Structure-Objectives
- 1.4 Functions and Power of SEBI

**Unit 2 (10 Hours)**

**Listing of Securities**

- 2.1 Listing of Securities-Meaning, Objectives and Types
- 2.2 Requirements and Procedure for Listing
- 2.3 Advantages and Disadvantages of Listing

**Unit 3 (10 Hours)**

**Listing Agreements and Delisting**

- 3.1 Compliances under Listing Agreement
- 3.2 Delisting-Meaning and Types
- 3.3 Procedure for Delisting-Voluntary and Compulsory

**BOOKS FOR STUDY**

Savithri Parekh, Shailashri Bhaskar, *Handbook On Listing Obligations And Disclosure Requirements (Listing Obligations And Disclosure Requirements Regulations, 2015)* :  
Mumbai, LexisNexis, 2016  
Taxmann, *SEBI Manual*, New Delhi, 2019

## **BOOKS FOR REFERENCE**

K.Sekhar, *Guide to SEBI - Capital Issues, Debentures & Listing*, Mumbai, Lexis Nexis, 2016  
Taxmann, Securities and Exchange Board of India Act 1992, New Delhi, 2017  
Ravi Puliani & Mahesh Puliani, *Manual of SEBI Act, Rules, Regulations, Guidelines Circulars, Etc.* Bharat Law House, Delhi, 2017  
CS Dr. D.K Jain & CS Ishan Jain, *Listing Obligations & Disclosure Requirements*, Bharat Law House, Delhi, 2016.

## **JOURNALS**

Indian Journal of Research in Capital Market  
Journal of Financial Market  
Indian Journal of Finance

## **WEB RESOURCES**

<http://www.sebi.gov.in>  
[www.sebi.gov.in/sebi\\_data/attachdocs/1441284401427.pdf](http://www.sebi.gov.in/sebi_data/attachdocs/1441284401427.pdf)  
[www.sebi.gov.in/sebi\\_data/commondocs/ch4\\_p.pdf](http://www.sebi.gov.in/sebi_data/commondocs/ch4_p.pdf)  
<https://www.icsi.edu/media/webmodules/publications/CM&SL%20Final%20PDF.pdf>

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**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)  
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Section C – 2 x 5 = 10 marks (from a choice of four)

**Other Components** **Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

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B.C.A. / B.S.W. / B.V.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**RIGHT TO INFORMATION ACT**

**CODE:19CO/GE/RI22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To introduce student to the concept of right to information and consider its implications for human rights
- To strengthen the interest of students in civil society participation and governance
- To empower student as participants in discussions affecting individual lives

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Recognise the significance of the right to information movement.
- Explain the objectives of the Right to Information Act 2005
- File the application for information.
- Ensure participation in governance and decision making

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Constitutional Framework, Objectives and Importance of the act
- 1.2 Fundamental Rights and Directive Principles of State Policy
- 1.3 Constitutional Provisions of RTI

**Unit 2 (8 Hours)**

**Development of RTI in India**

- 2.1 Origin of the RTI Act 2005 in India
- 2.2 Initiatives, Movements, Success stories and Challenges
- 2.3 RTI and Human Rights

**Unit 3 (8 Hours)**

**Various Rights**

- 3.1 Right to Hearing, Grievance Redressal
- 3.2 Right to Public Services, Transfers and Delays
- 3.3 Public Consultation

### **BOOKS FOR STUDY**

R. Majumdar, *Commentary on The Right to Information Act, 2005*, Dwivedi Law Agency  
Dr. Dewakar Goel & Dr Abha Yadav *Right to Information - Concept, Procedure & Practice*, Uttar Pradesh: Universal Law Publishing

### **BOOKS FOR REFERENCE**

Dr. Jyoti Rattan, *Right to Information Act, 2005*, New Delhi: Bharat Publication  
P.K.Das, *Handbook on the Right to Information Act*, Uttar Pradesh: Universal Law Publishing  
Taxmann, s Bare Acts, *Right to Information Act 2005* Chennai: Taxmann,  
S.R.Khaneja, *A Practical Handbook on Right To Information Act*, The Book Line  
**NOTE:** Latest edition of text books to be used

### **JOURNALS**

Journal of Political Sciences & Public Affairs  
Indian Journal of Public Administration  
Journal of Humanities And Social Science

### **WEB RESOURCES**

<https://rti.gov.in/>  
<https://www.iitgn.ac.in/RTI/RTI-Guidelines.pdf>  
<https://study.com/academy/lesson/right-to-information-rti-act-impact-in-india.html>

### **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 60 minutes</b>
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Section C – 2 x 5 = 10 marks (from a choice of four)		

<b>Other Components</b>	<b>Total Marks: 25</b>
Assignments/Objective Test/Quiz/Presentation	

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

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B.C.A. / B.S.W. / B.V.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COMPANY SECRETARIAL CORRESPONDENCE**

**CODE:19CO/GE/CC22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the importance of company secretary
- To acquaint students with the tools for secretarial correspondence
- To familiarise students with the preparation of necessary company documents

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the importance of company secretary
- Draft required communication to the stakeholders of a company
- Document communications relating to internal management of a company
- Demonstrate the use of technology in communication

**Unit 1 (10 Hours)**

**Introduction to Company Secretary**

- 1.1 Secretary – Meaning and Types of Secretaries
- 1.2 Company Secretary – Definition and Legal Position
- 1.3 Rights, Duties and Liabilities of a Company Secretary
- 1.4 Qualification, Appointment and Dismissal of a Company Secretary

**Unit 2 (10 Hours)**

**Secretarial Correspondence**

- 2.1 Correspondence relating to Meetings- Before, During and After the meeting.
- 2.2 Writing Memos, Circulars and Notices.
- 2.3 Electronic Media and Shareholder Communication

**Unit 3 (6 Hours)**

**Correspondence**

- 3.1 To Shareholders – Allotment, Rights Issue and Bonus Issue
- 3.2 To Registrar of Companies – Alteration of Memorandum and Articles of Association
- 3.3 To Stock Exchanges – Listing of Securities
- 3.4 To Banks
- 3.5 To Government

### **BOOKS FOR STUDY**

Kapoor, N.D. *Company Law and secretarial practice*. New Delhi: Sultan Chand, 2016  
Tandon, B.N. *Manual of Secretarial Practice*. New Delhi: Sultan Chand.

### **BOOKS FOR REFERENCE**

S. Srikanth, Shanthi Rekha Rajagopal, Revathy Blakrishnan, *Corporate Laws and Secretarial Practice*, Jain Book  
Bahl, J.C. *Secretarial Practice in India*. Mumbai: Tripathi M.N, 2006.  
Ghosh K Prashanth. *Company Secretarial Practice*. New Delhi: Sultan Chand, 2007.  
Sherlekhar, S.A. *Company Secretarial Practice*. New Delhi: Kitab Mahal, 2006.

### **JOURNAL**

Company and Securities Law Journal  
Company law journal  
Company news and reports

### **WEB RESOURCES**

[www.ddegjust.ac.in](http://www.ddegjust.ac.in)  
[www.legalserviceindia.com](http://www.legalserviceindia.com)  
[www.businesscommunicationarticles.com](http://www.businesscommunicationarticles.com)

### **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 60 minutes</b>
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Section C – 2 x 5 = 10 marks (from a choice of four)		

<b>Other Components</b>	<b>Total Marks: 25</b>
Assignments/Objective Test/Quiz/Presentation	

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE: CORPORATE SECRETARYSHIP**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**INTERNATIONAL BUSINESS**

**CODE: 19CO/UI/IB23**

**CREDITS : 3**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the knowledge to ascertain the international business opportunities
- To provide an understanding to the students on the problems faced by firms engaged in international activities
- To enable students to understand the operations of Multi – National Enterprises

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend how International factors affect Domestic concerns
- Identify and evaluate the complexities of International Business & Globalisation
- Understand the past and current trends in FDI in India
- Identify the working and challenges of MNEs

**Unit 1**

**Introduction to International Business**

- 1.1 Nature, Scope and Drivers of International Business
- 1.2 Globalisation - Meaning, Stages, Globalisation Vs. Localisation
- 1.3 Need to Go Global

**Unit 2**

**Multi National Enterprise**

- 2.1 Multi- National Corporations- Meaning, Characteristics
- 2.2 Role of Multinational Corporations, Benefits to Host Country, Benefits to Home Country
- 2.3 Issues of Multinational Companies

**Unit 3**

**Foreign Direct Investment**

- 3.1 FDI- Importance, Advantages and Disadvantages
- 3.2 Trends in Global FDI, FDI Trends in India

## **Unit 4**

### **Foreign Trade Policy and Procedures**

- 4.1 Introduction to Foreign Trade Policy, Export Promotional Measures
- 4.2 SEZ- Features, Incentives and Benefits
- 4.3 EPZ and EOU

## **Unit 5**

### **Anti-Dumping Duty**

- 5.1 Meaning of Dumping, Anti-Dumping
- 5.2 Anti-Dumping Duty- Procedures and Developments, WTO Provisions on Anti-Dumping Duty
- 5.3 Recent Anti-Dumping Cases in India

## **BOOKS FOR STUDY**

Francis Cherunilam, *International Trade & Export Management*. Himalaya Publishing house, 2015  
C.B Gupta, *International Business*, S.Chand & Company 2014

## **BOOKS FOR REFERENCE**

K. Awasthappa, *International Business*, McGraw Hill Education Pvt. Ltd., 2010  
R.K. Jain. *Foreign Trade Policy & Hand Book of procedures*, Centax Publications Pvt. Ltd., 2017  
R.K. Gupta. *Anti-Dumping laws and procedures*, Centax Publications Pvt Ltd, 4<sup>th</sup> edition, 2013.

## **JOURNALS**

Journal of International Business and Entrepreneurship Development  
International journal of Trade and Global Markets  
Journal of International Trade Law and Policy information

## **WEB RESOURCES**

[www.wto.org](http://www.wto.org)  
[www.imf.org](http://www.imf.org)  
[www.commerce.nic.in](http://www.commerce.nic.in)

## **PATTERN OF ASSESSMENT**

**End Semester Examination: Total Marks: 100 Duration: 3 hours**  
Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)  
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)



## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

### Upon graduation, students of Stella Maris College will

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MAIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086.**

**DEPARTMENT OF COMMERCE**

**PROGRAMME DESCRIPTION**

**B.Com. (GENERAL)**

The B.Com. (General) degree programme equip students with the knowledge and technical skills necessary to understand and participate in the modern business world. The programme allows the students' to critically evaluate and improve decision making skills.

It provides foundation for students who aspire to pursue professional courses such as CA, ICWA, CMA, ACCA, CFA and MBA. It enables the students to equip themselves for careers. It enables them to develop entrepreneurial skills and thus manage their own business effectively. To strengthen their skills and knowledge, workshops, seminars, guest lectures, business quizzes and mock interviews are conducted during the course of study. Apart from the academics, multiple cultural and social activities such as intra-departmental, inter-collegiate cultural and social and environmental awareness programmes are conducted for holistic development and to create a sense of community.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of this programme, students will be able to

- understand the procedures relating to the preparation of financial statements and to utilise their knowledge and solve practical problems
- apply the techniques of management in their day to day managerial activities
- understand the methods of ascertaining product cost with practical knowledge on various costing techniques
- analyse the business situation using statistical tools
- apply the tools and techniques to arrive at rational decisions
- perform their personal banking functions
- demonstrate understanding about the fundamentals of financial services and players in financial sectors
- understand the principles of law relating to economic, FEMA, IPR and environment protection law that is essential to manage business transactions
- analyse the scenario in the Indian financial system and its operations and regulations

- demonstrate necessary skills to identify various investment alternatives and to take advantage of favorable investment opportunities
- present financial reports for forecasting and managerial decision making
- use the accounting packages, such as Tally for effective decision-making and improved performance
- demonstrate and acquaint students with the fundamental principles of company law and to expose students to the statutory provisions relating to the formation and management of a company
- demonstrate knowledge of insight into various concepts like capital structure planning cost of capital, dividend policies and working capital
- analyse the concepts and factors affecting human resource planning, recruitment and selection
- demonstrate an understanding of the conceptual framework of marketing and its applications in decision making under various environmental constraints
- provide an overview of the fundamental concepts of e-commerce and to understand the web based business models and the e-commerce business applications
- demonstrate interpersonal communication, business etiquette and business relationship building skills
- acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements
- understand the computation of income taxable under different heads
- demonstrate comprehensive knowledge on the various aspects related to entrepreneurial development and to manage new business ventures
- understand and evaluate the audit process and procedures
- show knowledge of Corporate Social Responsibility (CSR) initiatives
- understand the importance of international business and impact of globalization
- acquire a wide range of exposure and gainful insights across various disciplines from the general elective courses offered by other departments

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Com. DEGREE: COMMERCE (GENERAL) - SHIFT I**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
19CM/MC/FA13	Financial Accounting	3	3	1	0	3	50	50	100	
19CM/MC/PM13	Principles and Practice of Management	3	3	1	0	3	50	50	100	
19CM/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100	
SEMESTER-II										
19CM/MC/CT24	Cost Accounting	4	4	1	0	3	50	50	100	
19CM/MC/BI23	Banking and Insurance Services	3	3	1	0	3	50	50	100	
19CM/AC/BS25	Business Statistics	5	5	0	0	3	50	50	100	
19CM/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
19CM/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100	
SEMESTER-III										
19CM/MC/LB34	Legal Environment of Business	4	4	1	0	3	50	50	100	
19CM/MC/FK34	Financial Markets	4	4	1	0	3	50	50	100	
19CM/MC/MA34	Management Accounting	4	4	1	0	3	50	50	100	
19CM/MC/IP33	Investment Planning	3	3	1	0	3	50	50	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100	
SEMESTER-IV										
19CM/MC/FM44	Financial Management	4	4	1	0	3	50	50	100	
19CM/MC/MG44	Marketing	4	4	1	0	3	50	50	100	
19CM/MC/CL44	Company Law	4	4	1	0	3	50	50	100	
19CM/MC/HR43	Human Resource Management	3	3	1	0	3	50	50	100	
19CM/AC/CF45	Computer Application in Finance	5	2	0	4	3	50	50	100	
	Major Elective I									
SEMESTER-V										
19CM/MC/CA54	Corporate Accounting	4	4	1	0	3	50	50	100	
19CM/MC/IT54	Income Tax Law and Practice	4	4	1	0	3	50	50	100	
19CM/MC/EM53	E-Enterprise Management	3	3	1	0	3	50	50	100	
19CM/MC/BC53	Business Communication	3	3	1	0	3	50	50	100	
Inter Disciplinary Core Course (CM & HS) to students of Commerce(Shift I) and History										
19ID/IC/TM55	Tourism Marketing and Management	5	5	1	0	3	50	50	100	
	General Elective III	2	2	0	0	-	50	-	100	
	SAP / SL	2	2	0	0	-	50	-	100	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Com. DEGREE: COMMERCE (GENERAL) - SHIFT I**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
<b>SEMESTER-VI</b>										
19CM/MC/BR63	Business Ethics and Social Responsibility	3	3	1	0	3	50	50	100	
19CM/MC/IB64	International Business	4	4	1	0	3	50	50	100	
19CM/MC/ED64	Entrepreneurial Development	4	4	1	0	3	50	50	100	
19CM/MC/AG64	Auditing	4	4	1	0	3	50	50	100	
	Major Elective II									
	General Elective IV	2	2	0	0	-	50	-	100	
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100	
<b>Major Elective Courses</b>										
19CM/ME/BE45	Business Environment	5	5	0	0	3	50	50	100	
19CM/ME/AM45	Advertising and Media Management	5	5	0	0	3	50	50	100	
19CM/ME/RM45	Retail Management	5	5	0	0	3	50	50	100	
19CM/ME/ES45	Equity Investment and Stock Trading	5	5	0	0	3	50	50	100	
19CM/ME/SL45	Supply Chain and Logistics Management	5	5	0	0	3	50	50	100	
<b>General Elective Courses</b>										
19CM/GE/FI22	Fundamentals of Investment Planning	2	2	0	0	-	50	-	100	
19CM/GE/CC22	Customer Care and Protection	2	2	0	0	-	50	-	100	
19CM/GE/SM22	Social Media Marketing	2	2	0	0	-	50	-	100	
19CM/GE/BP22	Banking Practices	2	2	0	0	-	50	-	100	
19CM/GE/EF22	E-Filing of Returns	2	2	0	0	-	50	-	100	
<b>Independent Elective Courses</b>										
19CM/UI/DS23	Direct Selling	3	0	0	0	3	-	100	100	
19CM/UI/CR23	Consumer Rights	3	0	0	0	3	-	100	100	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**B. COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**FINANCIAL ACCOUNTING**

**CODE: 19CM/MC/FA13**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To provide the students conceptual knowledge about the Accounting Standards and basic concepts of financial accounting.
- To enable students to prepare the financial Statements for internal and external Reporting.
- To equip the students with the skill in preparing Accounts for different types of business entities.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Create a complete record of Business transactions
- Prepare and examine the Income Statement
- Analyse the Financial Position
- Provide relevant financial information from the financial statements for decision making

**Unit 1 (8 Hours)**

**Conceptual Framework for Preparation of Financial Statements**

- 1.1 Introduction to Accounting Standards and Indian Accounting Standards
- 1.2 Accounting Standards - International Accounting Standards, Accounting Standards in India – Objectives, Process, Accounting Standards Board, Scope & Application of AS – 1,2,3,4,5,9,10,26 & 29 in Preparation of Financial Statements
- 1.3 Difference between Accounting Standards and Indian Accounting Standards
- 1.4 Preparation of Final Accounts of Sole Proprietor
  - 1.4.1 Closing Entries and Adjustment Entries
  - 1.4.2 Adjustments - Loss of Stock by Accident or Fire, Manager's Commission on Net Profit before and after Commission, Works Manager and General Manager Commission, Writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax

**Unit 2 (10 Hours)**

**Conversion of Partnership**

- 2.1 Amalgamation – Accounting Procedure
  - 2.1.1 Closing the Books of the Old Firm
  - 2.1.2 Opening the Books of the New Firm
- 2.2 Conversion of Partnership Firm into a Company and sale to a Company
- 2.3 Apportionment of Share among the Partners
- 2.4 Accounting for Limited Liability Partnership on Conversion

### **Unit 3**

#### **Branch Accounts and Departmental Accounts**

**(12 Hours)**

##### **3.1 Branch Accounts**

###### **3.1.1 Features**

###### **3.1.2 Methods of Accounting - Debtors System, Stock and Debtor System**

##### **3.2 Independent Branches – Features, Adjusting Entries in the Books of Head office and Branch**

##### **3.3 Departmental Accounts**

###### **3.3.1 Concept and Distinction between Departments and Branches**

###### **3.3.2 Preparation of Departmental Accounts**

Preparation of Departmental Trading and Profit and Loss Account

###### **3.3.3 Inter Departmental Transfer of goods at cost, Cost Plus Profit and at Selling Price and Elimination of Unrealised Profit.**

### **Unit 4**

**(10 Hours)**

#### **Accounting for Hire Purchase and Joint Venture**

##### **4.1 Meaning- Features of Hire Purchase Agreement -Distinction between Hire Purchase and Sale**

###### **4.1.1 Interest calculations**

###### **4.1.2 Recording transaction in the books of Hire Purchaser and the Hire Vendor**

##### **4.2 Default and Repossession - Partial Repossession and Complete Repossession**

##### **4.3 Joint Venture- Accounting Procedures**

### **Unit 5**

**(12 Hours)**

#### **Insurance Claim for Loss of Stock and for Loss of Profit**

##### **5.1 Insurance Claim for Loss of Stock**

###### **5.1.1 Concept of Under Insurance and Average Clause**

###### **5.1.2 Computation of claim -with Price Change, Consideration of Unusual Selling Line and Price Reduction**

##### **5.2 Insurance Claim for Loss of Profit**

###### **5.2.1 Concept – Insured and Uninsured Standing, Gross Profit Rate, Short Sales and Increased Cost of Working, Average Clause**

###### **5.2.2 Computation of Claim**

### **BOOKS FOR STUDY**

V.K. Gupta and Gupta R.L, *Financial Accounting (Vol. I)* Sultan Chand and Sons, 2016

Reddy, T. S and A. Murthy, *Financial Accounting*. Margham, 2012

### **BOOKS FOR REFERENCE**

Goyal V.K, *Financial Accounting*. 4<sup>th</sup> Edition, PHI, 2012

Jain S. P and K. L Narang, *Advanced Accountancy*, Kalyani, 2014

Maheshwari S. N and Suneel K Maheshwari, *Financial Accounting 11<sup>th</sup> Edition*, 2018

M Hanif, A Mukherjee, *Financial Accounting 2nd Edition*. Tata Mc Graw Hill 2015

Goyal V. K Ruchi Goyal, *Financial Accounting 12<sup>th</sup> Edition* PHI 2012



## **JOURNALS**

Journal of the Institute of Chartered Accountants of India.

International Journal of in Management and Financial Accounting

Journal of Accounting and Finance: Research Development Association, Jaipur

Journal of Finance - Sage

Journal of Financial Reporting Accounting, Auditing and Finance

## **WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)

[www.emeraldinsight.com](http://www.emeraldinsight.com)

[www.accaglobal.com](http://www.accaglobal.com)

[www.journals.elsevier.com](http://www.journals.elsevier.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 X 2 = 6 Marks (no choice)

Section B – 3 X 8 = 24 (from a choice of three)

Section C – 1 X 20 = 20 (from a choice of two)

**Other Component:                                      Total Marks: 50**

Assignments / Problem Solving

**End Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 (Max. 50 words, 5 theory and 5 Problems)

Section B – 5 x 8 = 40 Marks (From a choice of 7 Problems)

Section C – 2 x 20 = 40 Marks (From a choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**PRINCIPLES AND PRACTICE OF MANAGEMENT**

**CODE: 19CM/MC/PM13**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the management practices of the past and present
- To understand the recruitment and selection strategies in organisation
- To enable students to appreciate the contribution made by Management thinkers
- To familiarise students with the recent development in Management

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to:

- Analyze the functions of Management in organizations
- Comprehend the role of effective leaders in an organization
- Apply theoretical concepts into the practical management functions
- Understand the concepts of Accountability, Centralization and working together in teams

**Unit 1**

**Introduction to Management Principles**

**(10 Hours)**

- 1.1 Meaning, Nature, Scope and Importance of Management
- 1.2 Management as Science or Art - Management as Profession - Universality of Management
- 1.3 Management Principles, Functions of Management, Management Roles - Levels of Management, Management Skill- Social Responsibility
- 1.4 Evolution of Management thoughts, Scientific Management, Fayol's Principles of Management, Bureaucracy, Hawthorne Experiment, Contribution of Peter Drucker.

**Unit 2**

**Planning and Decision Making**

**(12 Hours)**

- 2.1 Planning – Meaning, Nature and Importance, Planning Process
- 2.2 Types of Planning - Measures of Effective Planning
- 2.3 Barriers to Effective Plan
- 2.4 Management by Objectives
- 2.5 Decision Making – Meaning - Types of Decisions - Decision Making Process- Individual vs. Group Decision Making - Decision Making Conditions – Creativity

**Unit 3**  
**Organizing, Communication and Human Resources (10 Hours)**

- 3.1 Organizing - Meaning, Organization Structure
- 3.2 Forms of Organization Structure, Departmentation, Task Force- Virtual Organization
- 3.3 Dynamics of Group Behavior, Influence of Group on Individual and Group Decision Making
- 3.4 Staffing -Meaning, Man Power Planning, Recruitment and Selection- Training and Development,
- 3.5 Communication- Meaning, Nature, Elements of Communication, Methods of Communication
- 3.6 Relevance of Information Technology

**Unit 4**  
**Motivation (10 Hours)**

- 4.1 Direction- Meaning, Nature, Scope and Principles of Direction, Supervision
- 4.2 Motivation – Meaning, Nature and Importance of Motivation
- 4.3 Job Design, Job Enrichment, Job Satisfaction, Quality of Work Life
- 4.4 Leadership-Meaning, Importance, Leadership Theories, Leadership Styles

**Unit 5**  
**Controlling (10 Hours)**

- 5.1 Controlling- Meaning, Importance, Controlling Process, Types of Control
- 5.2 Essential of Effective Control System, Behavioral Importance of Control - Control Techniques, Quality Circles

**BOOKS FOR STUDY**

Koontz, *Principles of Management*, Tata McGraw Hill, 8th Edition 2010.

L.M. Prasad, *Principles & Practices of Management* Sultan Chand & Sons , New Delhi, 2015

**BOOKS FOR REFERENCE**

Parkinson C N and Rustomji M K and Sapre S A, *Great Ideas in Management*, 2010

S K Mandal, *Management: Principles and Practice*, Jaico Publishing House, 2013

Khusboo Manoj, *Principles and Practices of Management*, Anmol Publication, 2011

**JOURNALS**

International Journal of Management Review  
SSRN-E-Journal

**WEB RESOURCES**

[www.hbr.org](http://www.hbr.org)  
[www.exed.hbs.edu](http://www.exed.hbs.edu)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Component:                            Total Marks: 50**

Evaluation Modes:

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19CM/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019– 2020)

**COST ACCOUNTING**

**CODE: 19CM/MC/CT24**

**CREDITS: 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students an understanding of the basic concepts of cost accounting
- To enable students to understand the methods of ascertaining the product cost
- To expose students to the practical application of Costing

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Differentiate Cost Accounting from other branches of Accounting
- Calculate Material, Labour and Overhead Cost
- Prepare Cost Sheet
- Solve problems relating to Process and Operating Costing

**Unit 1**

**Introduction**

**(15 Hours)**

- 1.1 Meaning, Objectives and Scope of Cost Accounting
- 1.2 Introduction to Cost Audit and Records and Cost Standards
- 1.3 Advantages and Limitations of Cost Accounting, Difference Between Financial Accounting and Cost Accounting
- 1.4 Material Cost and Material Control
  - 1.4.1 Computation of Material Cost and Accounting Treatment for Normal, Abnormal Loss
- 1.5 Essentials of Material Control, Purchase Control – Purchase Procedure
  - 1.5.1 Store Control :Techniques of Inventory Control – Economic Order Quantity, Level Setting
  - 1.5.2 Issue Control: Methods of Material Issue – First In First Out, Last In First Out, Average Cost - Simple and Weighted Average Cost

**Unit 2**

**Labour Cost, Remuneration and Incentives**

**(13 Hours)**

- 2.1 Computation of Labour Cost with Overtime and Idle Time and Computation of Labour Turnover
- 2.2 Methods of Remuneration- Time Rate System, Piece Rate System, Taylor's Differential Piece Rate System.
- 2.3 Incentive Plans -Halsey Premium Plan, Rowan Premium Plan

**Unit 3**  
**Overheads** (13 Hours)

- 3.1 Importance and Classification of Overhead Costs
- 3.2 Apportionment and Allocation of Overheads
  - 3.2.1 Primary Distribution of Overheads
  - 3.2.2 Secondary Distribution of Overheads- Direct Distribution, Reciprocal and Non Reciprocal Methods
- 3.3 Methods of Absorption of Overheads
  - 3.3.1 Direct Labour Hour Rate
  - 3.3.2 Machine Hour Rate
  - 3.3.3 Activity Based Absorption

**Unit 4** (11 Hours)  
**Unit Costing**

- 4.1 Cost Center and Cost Units- Methods of Costing, Elements of Cost, Cost Concepts and Classification of Cost - Cost Audit and Maintenance of Cost Records
- 4.2 Preparation of Cost Sheet, Quotations or Tenders

**Unit 5** (13 Hours.)  
**Process and Operating Costing**

- 5.1 Process Costing
  - 5.1.1 Meaning and Features of Process Costing
  - 5.1.2 Process Losses and Gains – Accounting Treatment of Normal and Abnormal Wastage
  - 5.1.3 Inter-Process Profit
- 5.2 Operating Costing- Transport Costing only
- 5.3 Activity Based Costing

**BOOKS FOR STUDY**

Jain, S.P. and Narang K.L. *Cost Accounting*. NewDelhi: Kalyan, 2015.

Reddy, T.S and A. Murthy. *Cost Accounting*. Margham, 2012.

**BOOKS FOR REFERENCE**

M.Y.Khan and P.K.Jain, *Cost Accounting*, McGraw Hill, 2017

Maheswari, S.N and S.N.Mittal, *Cost Accounting Theory and Problems*, New Delhi: Sultan Chand 2015.

Ravi M. Kishore. *Cost and Management Accounting* Taxmann, 2016.

M.N.Arora, Priyanka Katyal. *Cost Accounting*. NewDelhi: Sultan Chand, 2016

**JOURNALS**

Cost Accounting Standards - The ICWA of India

Management Accountant - The ICWA of India

Indian Journal of Finance



## **WEB RESOURCES**

icwajournal@hotmail.com

www.accaglobal.com

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**                      **Total Marks: 50**

**Duration: 90 minutes**

Section A -  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of four questions)

Section C -  $1 \times 20 = 20$  (from choice of two questions)

**Other Components:**                                      **Total Marks: 50**

Assignments/Problem Solving/Open book test

**End Semester Examination:**                      **Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice 5 Questions theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – 1 theory and 6 problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions- Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**BANKING AND INSURANCE SERVICES**

**CODE: 19CM/MC/BI23**

**CREDITS :3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To spread knowledge among the students to inculcate their theoretical structures about banking and insurance services
- To train and equip the students with the technological changes in Banking and Insurance services
- To provide a comprehensive knowledge to the students on the procedural formalities in dealing with different types of Banking and Insurance Services
- To acquaint the students with the various banking and Insurance Products

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Understand the importance of Banking and Insurance services to the society
- Appreciate the major reforms in the Banking and Insurance sector
- Comprehend the nuances of banking and insurance industry
- Equip with requisite skills for a successful career in Banking and Insurance Sector
- Use the provisions of the Acts in real time situation

**Unit 1 (10 Hours)**

**Introduction to Banking and Insurance Services**

- 1.1 Structure of Indian Banking System
- 1.2 Role of Banks in Economic Development
- 1.3 Insurance Services – Importance, Functions and Advantages of Insurance
- 1.4 Principles of Insurance Contract and Important Concepts in Insurance-Risk, Uncertainty, Assessment, Transfer
- 1.5 Reforms in Banking and Insurance Sector

**Unit 2 (11 Hours)**

**Banking Operations**

- 2.1 Banker and Customer relationship
- 2.2 Procedure and Practice in Opening, Operating and Closing of Bank Accounts
- 2.3 Deposits – Types of Deposits
- 2.4 Lending and Advances – Factors limiting level of Bank's advances, Lending policies of the Banks and Forms of Lending
- 2.5 Regulations of Non-Performing Assets – An Overview

**Unit 3** (11 Hours)  
**Payment and Settlement System Provider**

- 3.1 Digital Banking – Need and advantages
- 3.2 Internet Banking – Meaning and the important terms used in Internet Banking
- 3.3 E-Payment – Debit card, Credit card, NEFT, e -wallet, Digital Cash
- 3.4 Rural Banking, Corporate Banking and Retail Banking – Meaning, Need and Features
- 3.5 Marketing of Banking and Insurance Products

**Unit 4** (12 Hours)  
**Insurance Products**

- 4.1 Distribution Channels of Insurance – Insurance Intermediaries – Agent - Definition and Functions
- 4.2 Types of Insurance – Life and Non-Life Insurance, Rural Insurance
- 4.3 Claims- Types and Procedure

**Unit 5** (8 Hours)  
**Banking and Insurance Service Regulations – An Overview**

- 5.1 Negotiable Instruments Act 1881
- 5.2 Banking Regulations Act 1949
- 5.3 Insurance Regulatory and Development Authority Act, 1999 and IRDAI

**BOOKS FOR STUDY**

Satyadevi, C., *Financial Services Banking and Insurance*, New Delhi, S.Chand, 2014

Hargovind Dayal, *Fundamentals of Insurance – Theory, Principles and Practice*,  
Notion Press, 2017

**BOOKS FOR REFERENCE**

Gordon. E, Gupta P.K *Banking and Insurance*, Himalaya Publishing House, 2012

Neelam C Gulati, *Banking and Insurance: Principles and Practices*, Escel, 2011

Saxena, G.S; *Legal Aspects of Banking Operations*, Sultan Chand and Sons

Varshney, P.N., *Banking Law and Practice*, Sultan Chand and Sons, New Delhi, 2016

**JOURNALS**

International Journal of Finance & Banking Studies

Global Journal of Finance and Banking Issues

Journal of Insurance and Risk Management

International Journal of Banking, Risk and Insurance.

## **WEB RESOURCES**

[http://www.universityofcalicut.info/SDE/Banking\\_on19May2016.pdf](http://www.universityofcalicut.info/SDE/Banking_on19May2016.pdf)

<http://www.rbi.org.in/scripts/PublicationReportDetails.aspx?ID=243>

<https://exampariksha.com/bancassurance-banking-study-material-notes/>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes.**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:                      Total Marks: 50**

Seminars / Quiz / Group discussion Assignments / Class Presentation

**End Semester Examination:                      Total Marks: 100                      Duration: 3 hours.**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**BUSINESS STATISTICS**

**CODE: 19CM/AC/BS25**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To give a practical exposure to the students on the various statistical method and to arrive at rational decision through systematic analysis and interpretation
- To educate the students on the effective and efficient application of various statistical tools associated with research in business fields
- To enable students to understand, analyse and interpret the data using various statistical tools and techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate knowledge on standard statistical distributions
- Report the trend using secondary data
- Analyse the business situation using statistical tool
- Apply the tools and techniques and arrive at rational decisions

**Unit 1**

**Analysis of Time Series**

**(12 Hours)**

- 1.1 Utility and Component of Time Series
- 1.2 Method of Measuring Trend
- 1.3 Measurement of Seasonal Variation
- 1.4 Time Series Techniques using Statistical Software

**Unit 2**

**Correlation and Regression**

**(16 Hours)**

- 2.1 Simple Linear Correlation Analysis – Karl Pearson's Co- Efficient and Spearman's Rank Correlation
- 2.2 Partial and Multiple Correlations
- 2.3 Simple Linear Regression Analysis and Regression Equation and Estimation

**Unit 3**

**Test of Hypothesis**

**(12 Hours)**

- 3.1 Procedure for Testing Hypothesis
- 3.2 Test of Significants for Large Sample
- 3.3 Test of Significants for Small Sample
- 3.4 Application of Statistical Software for Large and Small Test

**Unit 4****Chi- square Test and Goodness Test****(12 Hours)**

- 4.1. Meaning and Conditions for applying Chi – Square Test
- 4.2 Application of Chi – Square Test
  - 4.2.1 Test of Goodness of Fit
  - 4.2.2 Test of Independence
- 4.3 Yates Correction
- 4.4 Uses and limitations of Chi – Square
- 4.5 Application of Chi- Square Test using Statistical Software

**Unit 5****Analysis of Variance****(13 Hours)**

- 5.1 Variance Ratio Test
- 5.2 Assumption of Analysis of Variance
- 5.3 Techniques of Analysis of Variance
  - 5.1.1 One Way Classification Model
  - 5.1.2 Two Way Classification Model
- 5.4 Analysis of Variance using Statistical Software

**BOOKS FOR STUDY**

Gupta S.P., *Statistical Methods*, New Delhi, Sultan Chand and Sons, 2012

Beri, G.C., *Business Statistics*, New Delhi, Tata Mc Graw Hill Publishing Company Ltd., 2017

**BOOKS FOR REFERENCE**

Agarwal Y.P., *Statistical Method, Concept, Applications and Computations*, New Delhi, Sterling Publishers Ltd., 2012

Pillai R.S.N. & Bagavathy, V., *Statistics*, 13<sup>th</sup> edition, New Delhi, Sultan Chand & Sons, 2010

Sharma J.K., *Business Statistics*, New Delhi, 1<sup>st</sup> edition, Pearson Education (Singapore), Pvt., Ltd., Indian Branch, 2010

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A –  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components:                            Total Marks: 50**

Assignments/Practical Test/Objective Test

**End Semester Examination    Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice- 5 theory and 5 problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of 7- all problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of 4- all problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19CM/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda



- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19CM/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1**

**(13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LEGAL ENVIRONMENT OF BUSINESS**

**CODE: 19CM/MC/LB34**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the students to the legal environment of Business
- To familiarize the students with the provisions of law that is essential to protect the environment in managing the business
- To provide a comprehensive knowledge to the students on the procedural formalities in dealing with different aspects of business transactions
- To acquaint the students with the ability to recognize and manage legal risks

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the complexity of the law relating to Business
- Identify the fundamental legal principles behind contractual agreements.
- Appreciate the challenges relating to formation and operation of business
- Comprehend the features of different acts applicable to business

**Unit 1 (15 Hours)**

**Indian Contract Act 1872**

- 1.1 Essentials for a Valid Contract - Conditions
- 1.2 Performance of Contract
- 1.3 Discharge and Remedies for a Breach of Contract
- 1.4 Special Contracts – Law of Agency, Indemnity, Guarantee, Bailment and Pledge
- 1.5 Regulations of E-Commerce Contract – An Overview

**Unit 2 (15 Hours)**

**Sale of Goods Act 1930**

- 2.1 Essentials for a Contract of Sale
- 2.2 Implied Conditions and Warranties
- 2.3 Transfer of Ownership and Delivery of Goods
- 2.4 Unpaid Seller- Rights

**Unit 3** **(10 Hours)**  
**Indian Partnership Act, 1932 and Limited Liability Partnership Act, 2008**

- 3.1 Constitution, Rights, Formation and Closure
- 3.2 LLP – Conversion of Partnership

**Unit 4** **(15 Hours)**  
**Economic Environment Laws**

- 4.1 FEMA – Foreign Exchange Management Act 1999
  - 4.1.1 Objectives – Types of Transactions
  - 4.1.2 Foreign Direct Investment in India and Abroad
  - 4.1.3 Acquisition and Transfer of Immovable Property in India
  - 4.1.4 Prevention of Money Laundering
- 4.2 Environment Protection Law – An Overview of
  - 4.2.1 The National Green Tribunal Act, 2010
  - 4.2.2 The Air (Prevention and Control of Pollution) Act, 1981  
The Water (Prevention and Control of Pollution) Act, 1974
  - 4.2.3 The Environment Protection Act, 1986  
The Hazardous Waste Management Regulations

**Unit 5** **(10 Hours)**  
**Competition Act 2002**

- 5.1 Need and Objectives
- 5.2 Regulation of Anti- Competitive Agreements

**BOOKS FOR STUDY**

Kapoor N.D. *Elements of Mercantile Law*. New Delhi: Sultan Chand, 2016.  
Pillai N.P.N., Bhagavathy, *Legal Aspects of Business*, New Delhi, S.Chand, 2015

**BOOKS FOR REFERENCE**

Tulsian, P.C. & Tulsian, B. *Business Law*. New Delhi: McGraw- Hill education., 2014.  
Pandit M.S. and Shoba Pandit. *Business Law*. Mumbai: Himalaya, 2010.  
Kuchhal, M.C. *Business Law*. New Delhi: Vikas Publications, 2013.  
Singh, A. *Principles of Mercantile Law*. New Delhi: Eastern Book Company, 2012

**JOURNALS**

Journal of Business Law and Ethics  
Journal of Intellectual Property Rights Law  
National Journal of Environment Law

## **WEB RESOURCES**

[www.lawctopus.com](http://www.lawctopus.com)  
[www.indialawworld.Co](http://www.indialawworld.Co)  
[www.legalserviceindia.com](http://www.legalserviceindia.com)  
<http://www.ipindia.nic.in/>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:** **Total Marks: 50**

Evaluation Modes:

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours.**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**FINANCIAL MARKETS**

**CODE:19CM/MC/FK34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students with a comprehensive knowledge on the role and functions of Financial Markets
- To educate students about the practical relevance and importance of the Indian Financial System
- To expose students to financial intermediaries and Regulatory Institutions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the components and emerging trends of Indian Financial System
- Recognize the importance of Financial Regulatory Institutions and Markets
- Analyze the need for financial instruments
- Comprehend the relevance of Financial Institutions

**Unit 1 (15 Hours)**

**Introduction**

- 1.1 Objectives and Significance of Financial Markets
- 1.2 Functions, Organisation and Role of Indian Financial System
- 1.3 Components of Indian Financial System – Financial Institutions, Financial Markets, Financial Instruments and Financial Services

**Unit 2 (15 Hours)**

**Types and Regulators**

- 2.1 Functions and Types of Financial Market
- 2.2 Indian Money Market, Global Money Market, Bond Market, Commodity Market, Derivative Market
- 2.3 Primary and Secondary Markets- Functions
- 2.4 SEBI Provisions relating to Secondary Market

**Unit 3 (15 Hours)**

**Financial Institutions**

- 3.1 Public Financial Institutions - Role and Functions
- 3.2 Banking and Non- Banking Institutions



**Unit 4**  
**Financial Instruments** (10 Hours)

- 4.1 Significance of Financial Instruments
- 4.2 Types of Financial Instruments - Money Market, Capital Market and Hybrid Instruments

**Unit 5**  
**Financial Services** (10 Hours)

- 5.1 Meaning, Importance, Types of Fund based and Non-fund based Services
- 5.2 Credit Rating- Importance and Functions
- 5.3 Recent Trends in Financial Services

**BOOKS FOR STUDY**

Khan. *Indian Financial system*. Tata McGraw-Hill Education, 2017.

Gurusamy, S. *Financial Services and Markets*. Vijay Nichole Imprints, 2017.

**BOOKS FOR REFERENCE**

Machiraju H.R. *Indian financial system*. New Delhi: Vikas, 2017.

Mishkin, Stanley G. Eakins. *Financial Markets and Institutions*. Pearson Education India.

Murthy, D.K. Venugopal. *Indian Financial System*, 2017.

Ramesh Babu, G. *Indian financial system*. Concept, 2017.

**JOURNALS**

Asian journal of Research and Finance

Journal of Banking and Finance

Journal of Financial Intermediation

**WEB RESOURCES**

[www.bseindia.com](http://www.bseindia.com)

[www.nseindia.com](http://www.nseindia.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks: 50**      **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:**      **Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four - Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**  
**B.COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**MANAGEMENT ACCOUNTING**

**CODE: 19CM/MC/MA34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable the students to prepare and analyse the financial data for internal reporting, cost control and effective decision making
- To equip the students with tools used for managerial decision making
- To create an awareness on the practical applications of cost control concepts and techniques for effective planning and forecasting

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Prepare Financial Statements for examining the relevant financial and cost data
- Use the tools and techniques for understanding the relationship between two different financial information
- Interpret and Analyse the Financial and Cost statements
- Present financial report for forecasting and managerial decision making

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Management Accounting – Meaning, Definition, Nature and Scope
- 1.2 The difference and relationship between Management Accounting, Financial Accounting and Cost Accounting
- 1.3 Tools and Techniques of Management Accounting
- 1.4 Advantages and Limitation of Management Accounting
- 1.5 Duties and functions of Management Accountant, Organization for Management Accounting

**Unit 2 (15 Hours)**

**Budget and Budgetary Control**

- 2.1 Concepts of Budgets, Budgeting and Budgetary Control
- 2.2 Objectives, Merits and Limitations of Budgetary Control
- 2.3 Classification of Budgets and its Preparation – Sales Budget, Purchase Budget, Cost of Production Budget, Cash Budget, Fixed and Flexible Budget, Cost of Production Budget, Master Budget
  - 2.3.1 Cash Budget
  - 2.3.2 Fixed and Flexible Budget

**Unit 3 (15 Hours)**

**Marginal Costing and its Application**

- 3.1 Definition, Meaning and features of Marginal Costing
- 3.2 Marginal Costing and Absorption Costing
- 3.3 Cost Volume Profit Analysis: Break even analysis, Margin of safety.
- 3.4 Application of Marginal Costing - Decision Making: Key factor, Make or Buy, Product Mix, Operate or Shut, Fixation of Selling Price, Exploring New Markets, Sell or Process Further

**Unit 4 (13 Hours)**

**Standard Costing and Variance Analysis**

- 4.1 Meaning of Standard Cost and Standard Costing, Advantages, Limitations and Application
- 4.2 Variance Analysis – Material, Labour, Overhead and Sales Variances

**Unit 5 (12 Hours)**

**Financial Statement Analysis and Interpretation (Practical)**

- 5.1 Meaning and Process of Financial Statement Analysis
- 5.2 Objectives, Types and Procedure for Analysis and Interpretation of Financial Statements
- 5.3 Tools of Financial Statement Analysis- Comparative Statement Analysis, Common Size Statement Analysis and Trend Analysis
- 5.4 Ratio Analysis – Liquidity, Solvency and Turnover Ratio

**NOTE:**

Unit -5: Not Tested in the Examination

**BOOKS FOR STUDY**

Maheshwari, S.N. *Principles of Management Accounting*. New Delhi: Sultan Chand, 2018

Reddy, T.S. and A Murthy. *Management Accounting*. Chennai: Margham, 2015

**BOOKS FOR REFERENCE:**

Atkinson A. Anthony, Robert S Kaplan and S. Mark Young. *Management Accounting*. 2008

Indian Institute of Banker, *Management Accounting*, 2008

Hornngren/Sundem G.L/Stratton, *Introduction to Management Accounting*, 13<sup>th</sup> edition

Khan, M.Y Jain P.K, *Management Accounting*, 3<sup>rd</sup> Edition TMH, 2013

**JOURNALS**

International Journal of research in Commerce and Management

Research and Journal of Management Accounting – The ICWA of India

Management Accounting Research Journal - Elsevier

Indian Journal of Finance

## **WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)

[www.icma.com](http://www.icma.com)

[www.aicpa.org](http://www.aicpa.org)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 X 2 = 6 Marks (no choice)

Section B – 3 X 8 = 24 (from a choice of three)

Section C – 1 X 20 = 20 (from a choice of two)

**Other Components                                      Total Marks: 50**

Assignments/Problem Solving/Case Study Analysis/Mini Projects

**End Semester Examination:      Total Marks: 100**

**Duration: 3 hours.**

Section A – 10 X 2 = 20 Marks (5 Theory and 5 Problems)

Section B – 5 X 8 = 40 Marks (From a Choice of 7 Problems)

Section C – 2 X 20 = 40 Marks (From a Choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**INVESTMENT PLANNING**

**CODE: 19CM/MC/IP33**

**CREDITS: 3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To emphasize to the students the need for making Savings and Investment
- To familiarise the students with different Investment avenues
- To help the students plan and manage personal savings and investments
- To create an awareness to the students on the laws relating to investor protection

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Identify various investment alternatives
- Acquire the skills to take advantage of favorable Investment opportunities
- Work towards financial security
- Understand the role of various regulatory authorities for investor protection

**Unit 1**

**(10 Hours)**

**Investment Environment**

- 1.1 Investments -The Nature, Objectives and Importance
- 1.2 Economic Environment of Investments and the Conditions that affect Investment Decision Making
- 1.3 Investment Process – Wealth Creation
- 1.4 Guiding Factors for Investment

**Unit 2**

**(15 Hours)**

**Risk Averse Investment**

- 2.1 Non-Marketable Investments – Savings Deposits, Certificate of Deposits, Money Market Deposit Accounts, Savings Bonds, Post Office Savings
- 2.2 Marketable Investments
- 2.3 Public Deposits
- 2.4 Fixed Income Securities -Bonds and Debentures issued by Government and Companies, Types and Features

**Unit 3** **(10 Hours)**

**Risk Investment**

- 3.1 Equity and Preference Securities - Features
- 3.2 American Depositary Receipts and Global Depositary Receipts
- 3.3 Derivative Securities – Warrants, Forwards, Options, Futures Contracts
- 3.4 Mutual Funds - Types of Mutual Funds
- 3.5 Global Funds, Exchange Traded Funds

**Unit 4** **(7 Hours)**

**Risk Return assessment**

- 4.1 Return Concept and the Components
- 4.2 Risk – Sources, Types
- 4.3 Risk and Return Trade-off
- 4.4 Impact of Taxes and Inflation on Return

**Unit 5** **(10 Hours)**

**Investor Protection**

- 5.1 Legal Provisions for Investor Protection as per SEBI Act 1992  
Companies Act 2013, Securities Contract and Regulation Act 1956,  
Depositories Act 1996

**BOOKS FOR STUDY**

Jones, C. P, *Investment Analysis and Management*. Wiley, 2016

Madhu Sinha, *Financial Planning: A Ready Reckoner*, 2017

Ankit Gala and Khushboo Gala, *Investment Planning* 2015

**BOOKS FOR REFERENCE**

Ankit Gala and Khushboo Gala, *Investment Planning* 2015

Bodie Kane, Marcus and Mohanty, *Investments*, Tata McGraw Hill , 2014

Bhalla V.K , *Fundamentals of Investment Management* ,Sultan Chand, 2010

IIBF, *Investment Planning, Tax Planning and Estate Planning*, 2017

**JOURNALS**

Journal of Financial Planning

Journal of Personal Finance

The Journal of Investing

**WEB RESOURCES**

[www.investopedia.com](http://www.investopedia.com)

[www.amfiindia.com](http://www.amfiindia.com)

[www.financial planning.com](http://www.financial planning.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Component:                                      Total Marks: 50**

Evaluation Modes:

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**FINANCIAL MANAGEMENT**

**CODE: 19CM/MC/FM44**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To familiarize students with the principles and practices of financial management
- To provide students a sound conceptual frame work for financial decision-making
- To enable the students to select and apply the techniques in managing working capital
- To assist the student apply the concepts of financial management

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Understand the financial environment within which the organizations must operate
- Measure risk and return and explain the tradeoff between risk and return
- Critically evaluate the financial objectives of various types of organizations and the respective requirements of stakeholders
- Calculate the value of various financial assets

**Unit 1 (10 Hours)**

**Introduction to Financial Management**

- 1.1 Core Concepts
  - 1.1.1 Investment Decisions
  - 1.1.2 Finance Decisions
  - 1.1.3 Dividend Decisions
- 1.2 Objectives of the Firm
  - 1.2.1 Profit Maximisation
  - 1.2.2 Wealth Maximisation
- 1.3 Objectives of Long term and Short term Capital Management
- 1.4 Time Value of Money-Concepts and Applications
  - 1.4.1 Computation of Time value of Money
    - 1.4.1.1 Compounding Techniques
    - 1.4.1.2 Present Value Techniques

**Unit 2 (10 Hours)**

**Capital Structure**

- 2.1 Meaning and Significance of Capital Structure
- 2.2 EPS-EBIT Analysis
- 2.3 Leverages - Meaning and Importance
  - 2.3.1 Types of Leverages



**Unit 3 (15 Hours)**

**Cost of Capital**

- 3.1 Meaning and Significance
- 3.2 Cost of Equity and Retained Earnings
- 3.3 Cost of Debt - Redeemable
- 3.4 Cost of Preference - Redeemable
- 3.5 Computation of Overall Cost of Capital - Book Value and Market Value

**Unit 4 (15 Hours)**

**Capital Budgeting**

- 4.1 Nature of Capital Budgeting
- 4.2 Evaluating Techniques - Pay Back Period, Average Rate of Return, Net Present Value, Internal Rate of Return and Profitability Index

**Unit 5 (15 Hours)**

**Working Capital Management and Dividend Decisions**

- 5.1 Need for Working Capital Management
- 5.2 Determinants of Working Capital Management
- 5.3 Computation and Management of Working Capital
- 5.4 Dividend Policies-Factors determining Dividend payments
  - 5.4.1 Theories of Dividend Policies

**BOOKS FOR STUDY**

Khan, M.Y. and P.K. Jain. *Basic Financial Management*. New Delhi: Tata Mc Graw Hil, 2017.

Dr. A. Murthy Financial Management , Margham Publications, 2013

**BOOKS FOR REFERENCE**

Chandra,. *Fundamentals of Financial Management*. New Delhi: Tata McGraw Hill, 2014.

Van Horne, James C. *Financial Management and Policy*. New Delhi: Prentice Hall of India, 12<sup>th</sup> edition.2011.

Maheshwari, S. N. *Financial Management*. New Delhi: Vikas, 6<sup>th</sup> edition, 2013

Pandey, I. M. *Financial Management*. New Delhi: Vikas, 2016.

Ravi M. Kishore. *Taxmann's Financial Management*. New Delhi: K. L. Taxmann, 2016.

**JOURNALS**

Journal on Risk and Financial Management

Indian Journal of Finance

## **WEB RESOURCES**

[www.mdpi.com/](http://www.mdpi.com/)

[www.indianjournaloffinance.co.in/](http://www.indianjournaloffinance.co.in/)

[www.financeindia.com](http://www.financeindia.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test**

**Total Marks : 50**

**Duration : 90 minutes**

Section A -  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of four questions)

Section C -  $1 \times 20 = 20$  (from choice of two questions)

### **Other Components:**

**Total Marks : 50**

Assignments/ Objective Test/ Case Study

### **End Semester Examination:**

**Total Marks:100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice 5 Questions theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – 2 theory and 5 problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions- Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**MARKETING**

**CODE: 19CM/MC/MG44**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students a broad background on the nature and scope of marketing concepts used in business
- To enable students to have a clear understanding of the marketing function
- To provide knowledge on the marketing mix (4P's) and demonstrate how today's managers employ these tools to gain a competitive edge in the global economy
- To facilitate an understanding of the conceptual framework of marketing and its applications in decision making under various environmental constraints

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Understand the role of the marketing function within a firm
- Describe key market segmentation and targeting strategies
- Identify the elements of the marketing mix (4P's) and common strategies
- Recommend and justify an appropriate mix of the 4P's to create a cohesive marketing strategy for a new product
- Identify and relate new trends in marketing which has an impact on consumers

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Meaning, Nature, Significance and Marketing Concept Model
- 1.2 Functions of Marketing- Classification of Marketing

**Unit 2 (15 Hours)**

**Product Planning and Promotion**

- 2.1 Product Planning
  - 2.1.1 Product concept, Policy and Product Mix
  - 2.1.2 Product Life Cycle- Stages
  - 2.1.3 New Product Development- Process
- 2.2 Promotion
  - 2.2.1 Elements of Promotion Mix- - Advertising, Personal Selling, Sales Promotion, Public Relations and Direct Marketing

**Unit 3** **(15 Hours)**

**Pricing and Distribution**

- 3.1 Pricing
  - 3.1.1 Types of Pricing
  - 3.1.2 Factors affecting Pricing
- 3.2 Distribution
  - 3.2.1 Factors affecting Choice of Channel
  - 3.2.2 Classification of Channel Members- Wholesaler and Retailer

**Unit 4** **(15 Hours)**

**Consumer Behaviour and Market Segmentation**

- 4.1 Consumer Behaviour
  - 4.1.1 Basic Model ( Black Box Model)
  - 4.1.2 Factors Influencing Consumer Behaviour
- 4.2 Market Segmentation
  - 4.2.1 Methods of Market Segmentation

**Unit 5** **(10 Hours)**

**Trends in Marketing**

- 5.1 Digital Marketing, Cloud Marketing
- 5.2 Social Marketing, Green Marketing
- 5.3 Rural Marketing, Viral Marketing

**BOOKS FOR STUDY**

Nair, Rajan and Sanjith Nair. *Marketing*. 11<sup>TH</sup> edition, New Delhi: Sultan Chand, 2015

Kotler Philip. *Marketing* 15<sup>th</sup> edition. New Delhi: Prentice Hall of India, 2017

**BOOKS FOR REFERENCE**

Gandhi J.C. *Marketing*. New Delhi: Tata McGraw Hill, 2009

Varshney. R.L, Dr. S.L.Gupta. *Marketing Management*. Himalaya Publishers

William J. Stanton, Micheal J. Etzel, Bruce J. Walker. *Fundamentals of Marketing*, New Delhi: Mc Graw Hill, 2009

Kavitha Sharma, Dr.Swati Agarwal, *Principles of Marketing*, Taxmann's Publication,2018

## **JOURNALS**

Journal of Marketing- American Marketing Association  
Journal of Marketing Education  
International Journal of Marketing Studies  
Indian Journal of Marketing

## **WEB RESOURCES**

[www.yourarticlelibrary.com](http://www.yourarticlelibrary.com)  
[www.boundless.com](http://www.boundless.com)  
[www.learnmarketing.net](http://www.learnmarketing.net)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test**                      **Total Marks: 50**                      **Duration: 90 minutes**

Section A- 7x2 =14 Marks (no choice)  
Section B- 2x8 =16 Marks (from a choice of three)  
Section C- 1x20= 20 Marks (from a choice of two)

**Other Components:**                      **Total Marks: 50**  
Seminars/Quiz/Group Discussions/Assignments/Class Presentation

**End Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 hours**

Section A- 10x2 =20 Marks (no choice- Max 30 words)  
Section B- 5x8 = 40 Marks (from a choice of seven- Max 500 words)  
Section C- 2x20= 40 Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**COMPANY LAW**

**CODE: 19CM/MC/CL44**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the provisions of Companies Act relating to formation of company
- To expose students to statutory provisions relating to the management of a company
- To enable students to understand and interpret the provisions of company relating to raising of finance and distribution of surplus

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Identify legal issues relevant to the formation and management of the company
- Comprehend the legal and procedural aspects relating to raising and distribution of funds
- Understand the provisions relating to the concepts and modes of winding- up

**Unit 1 (10 Hours)**

**Formation of company**

- 1.1 Characteristics of a Company, Lifting of Corporate Veil
- 1.2 Types of Company – Private and Public
- 1.3 Legal Requirement for Formation of Company – Public, Private and One Person Company – Commencement of Business
- 1.4 Process of Incorporation of Company
- 1.5 Important Definitions- Member, Promoter, Financial Year, Free Reserves, Associate Company

**Unit 2 (15 Hours)**

**Documents**

- 2.1 Memorandum of Association and its Alteration – Entrenchment Provision
- 2.2 Articles of Association and its Alteration
- 2.3 Prospectus and Letter of Offer
- 2.4 Share Certificate - Demat system
- 2.5 Recent Developments relating to Unlisted Company

**Unit 3 (12 Hours)**

**Raising of Finance**

- 3.1 Concept of Capital –Kinds of Share Capital and Nature of Shares
- 3.2 Financing of Companies- Issue, Allotment and Forfeiture of Share, Calls on Shares, Issue of Sweat Equity Capital, ESOP, ESPP, RSU and Bonus Shares
- 3.2 Application, Allotment, Transfer and Transmission of Shares
- 3.3 Debenture –Nature and Classes of Debenture
- 3.4 Deposits- Meaning, Exempted Deposit, Return of Deposit and Allied Regulatory Deposit

**Unit 4 (15 Hours)**

**Management**

- 4.1 Directors–Appointment and Removal, Roles and Responsibility, Classification of Directors - Women Director, Independent Director, Additional Director- Number of Directorship and DIN (Director Identity Number), KYC
- 4.2 Key Managerial Personnel – Appointment, Removal, Roles and Responsibility
- 4.3 Secretarial Standard - Section 118

**Unit 5 (13 Hours)**

**Meetings and Resolution**

- 5.1 Types and Requisites - Importance of Secretarial Standards
- 5.2 Board and Committee meeting
- 5.3 Shareholders Meeting
- 5.4 Registers and Returns

**BOOKS FOR STUDY**

Avatar Singh , A., *Company Law*, Eastern Book Company, 2018

Kapoor, N.D. *Company Law*. New Delhi: Sultan Chand, 30<sup>th</sup> Edition, 2016

**BOOKS FOR REFERENCE**

Majumdar, A. K., Kapoor, G.K. *Company Law and Practice*, Taxman Publication, 2014

Chandrate, K.R. *Company Secretarial Practice Manual*: Lexis Nexis, 2016

Shah, S.M. *Lecture of Company Law*. Mumbai: Tripathi M.N, 2006.

Sherlekar, S.A. *Company Secretarial Practice*. New Delhi: Kitab Mahal, 2006.

Ravi, B, *Company Law made Simple*, B.Ravi and Associates, Chennai

**JOURNALS**

Company and Security Law Journal

Company Law Journal

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:           Total Marks: 50**

**Duration: 90 minutes**

Section A -  $7 \times 2 = 14$  (no choice)

Section B -  $2 \times 8 = 16$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components:                   Total Marks: 50**

Assignments/Seminars/Case Study

**End Semester Examination:           Total Marks:100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 words)

Section B –  $5 \times 8 = 40$  Marks (From a choice of seven questions – Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (From a choice of four questions – Max 1200 words)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**HUMAN RESOURCE MANAGEMENT**

**CODE: 19CM/MC/HR43**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To acquaint the students with the concepts and emerging trends in human resource management
- To educate the students on the managerial, operative and maintenance aspects of the human resources in an organization
- To familiarize the students with the processes and mechanism of managing Human Resources

**COURSE LEARNING OUTCOME**

On successful completion of this course, students will be able to

- Understand the roles and responsibilities of HR Managers and the challenges faced
- Analyze the concepts and factors affecting human resource planning, Recruitment and Selection
- Measure the effectiveness of Training methods of employees and managers and the techniques involved
- Examine the strengths and weaknesses of different performance management system

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Scope and Objectives of Human Resource Management
- 1.2 Significance and Functions of Human Resource Management
- 1.3 Emerging Challenges of Human Resource Management- Workforce Diversity, Downsizing, Work Life Balance
- 1.4 Recent Trends in Human Resource Management

**Unit 2 (12 Hours)**

**Acquisition of Human Resources**

- 2.1 Objectives, Characteristics and Process of HR Planning
- 2.2 Job Analysis, Job Description, Job Specification
- 2.3 Recruitment – Concept, Sources
- 2.4 Selection Procedure, Testing, Placement and Induction

**Unit 3 (10 Hours.)**

**Training and Development**

- 3.1 Concept and Importance, Identifying Training and Development Needs, Designing Training Programme
- 3.2 Training and Development Methods
- 3.3 Evaluating Training Effectiveness

**Unit 4 (10 Hours.)**

**Performance Appraisal**

- 4.1 Nature and Importance of Performance Appraisal
- 4.2 Process and Methods of Performance Appraisal
- 4.3 Performance Management, Performance Counseling

**Unit 5 (10 Hours.)**

**Compensation and Maintenance**

- 5.1 Compensation – Factors, Types – Monetary and Non-Monetary
  - 5.1.1 Wage and Salary Compensation
  - 5.1.2 Incentives and Benefits
- 5.2 Employees Welfare– Health, Safety and Social Security
- 5.3 Grievance Handling and Redressal – Vigil Mechanism and Prevention of Sexual Harrassement

**BOOKS FOR STUDY**

Aswathappa K. *Human Resource Management*, Text and Cases 8<sup>th</sup> Edition New Delhi: Tata Mc Graw Hill 2017.

Gupta, C.B. *Human Resource management*. Text and Cases 19<sup>th</sup> Edition New Delhi: Sultan Chand, 2017.

**BOOKS FOR REFERENCE**

Flippo V. Edwin. *Personnel Management*. New Delhi: Mc Graw Hill, 2017.

Mamoria, C.B. *Personnel Management*. Mumbai: Himalaya, 2017.

Prasad, L.M. *Human Resource management*. New Delhi: Sultan Chand, 2017.

John Bratton and Jeffery Gold *Human Resource management Theory and Practice* Macmillan

**JOURNALS**

International Journal of Human Resource Management

The Human Resource Management Review

Human Resource Management International Digest

Human Resource Management Journal.

## **WEB RESOURCES**

[www.hrcouncil.ca/hr-toolkit/planning-strategic.cfm](http://www.hrcouncil.ca/hr-toolkit/planning-strategic.cfm)

[www.hrware.com/recruitment/88-2/](http://www.hrware.com/recruitment/88-2/)

[www.educationobserver.com/forum/showthread.php?tid=12165](http://www.educationobserver.com/forum/showthread.php?tid=12165)  
[managementhelp.org/training/](http://managementhelp.org/training/)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test**                      **Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:**                                      **Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**COMPUTER APPLICATION IN FINANCE**

**CODE: 19CM/AC/CF45**

**CREDITS: 5**

**L T P: 2 0 4**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To impart knowledge to the students on computer skills relating to business environment
- To provide students hands on experience on current analytical tools for interpretation of financial situation
- To expose students to the tools for financial data analysis and reporting techniques

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Analyse the company's financial position.
- Identify and utilize appropriate technology for effective decision-making and improved performance
- Effectively use the accounting package – Tally
- Use business forecasting techniques

**Unit 1 (16 Hours)**

**Accounting Package – Tally**

- 1.1 Introduction to Tally - Creation, Alteration and Deletion of a Company
- 1.2 Creation , Alteration and Deletion of Group and Ledger
- 1.3 Accounting Vouchers – Types, Voucher Entry
- 1.4 Preparation of Financial Statement – Day Book, Trial Balance, Profit and Loss and Balance Sheet
- 1.5 Importing Data from Accounting and Other Application System
- 1.6 Data Validation

**Unit 2 (16 Hours)**

**MS Excel for Financial Statement and Business Forecasting**

- 2.1 Techniques of Financial Statement Analysis –
  - 2.1.1 Comparative Statement
  - 2.1.2 Common Size Statement
  - 2.1.3 Trend Percentage.
- 2.2 Preparation of Master Budget – Production Budget, Sales Budget, Flexible Budget and Cash Budget

**Unit 3 (16 Hours)**

**Business Evaluation Technique using Excel**

- 3.1 Time Value of Money

- 3.1.1 Future Value
- 3.1.2 Present Value
- 3.2 Evaluation Techniques – Pay Back Period, Net Present Value and IRR
- 3.3 Financial Functions - Pivot table

#### **Unit 4**

##### **Data analysis and Reporting features using Excel (15 Hours)**

- 4.1 Creation of Spread sheet
  - 4.1.1 Ratio Analysis
  - 4.1.2 Payroll Analysis
  - 4.1.3 Capital Budget
  - 4.1.4 Depreciation – Written Down Value
- 4.2 Cash Flow Analysis

#### **Unit 5**

##### **CAAT Tools (15 Hours)**

- 5.1 An Introduction – Analytical Report, Duplicates Gaps, Sorting and Charting
- 5.2 Stratification, Summarization, Statistics and Aging

#### **BOOKS FOR STUDY**

Nadhani, A.K. *Implementing Tally. ERP*. BPB Publication, 2017

Rajaraman, V. *Introduction to Information Technology*, 3<sup>rd</sup> edition. PHI, 2018

#### **BOOKS FOR REFERENCE**

Rizwan P. Ahmed, *Computer Application in Business with Tally ERP 9*, Margham Publication

Sadagopalan, S. *Management Information System*. PHI

Eliason, A.L., On – line Business Computer Application Science Research Associates Chicago.

Curtis D. Frye, *Step by Step Microsoft Excel 2010*, PHI

#### **PATTERN OF ASSESSMENT**

##### **Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes (Only Practicals)**

Section A - 2 x 5 = 10 (no choice)

Section B - 2 x 10 = 20 (from a choice of three questions)

Section C - 1 x 20 = 20 (from a choice of two questions)

##### **Other Components: Total Marks: 50**

Assignments /Practical Test

##### **End Semester Examination: Total Marks: 100 Duration: 3 hours (Only Practicals)**

Section A – 4 x 5 = 20 Marks (no choice)

Section B – 4 x 10 = 40 Marks (from a choice of six questions)

Section C – 2 x 20 = 40 Marks (from a choice of four questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B. COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**CORPORATE ACCOUNTING**

**CODE: 19CM/MC/CA54**

**CREDITS: 4**

**LTP: 4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide to the students Conceptual Knowledge of basic Accounting Principles and Accounting Standards in the preparation of Consolidated Financial Statements of a Company
- To enable the students to acquire the skills to interpret and analyse the financial position of the Company
- To equip the students with techniques to be followed in case of Restructuring and Liquidation

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Create a record of the transactions of a company
- Prepare the Consolidated Financial Statements of a company
- Provide relevant financial Information from the financial Statements for decision making for the company
- Understand the Accounting Procedures for Restructuring and Liquidation of Corporate entities

**Unit 1 (13 Hours)**

**Financial Reporting**

- 1.1 Disclosure in Annual Accounts – Notes forming Part of Financial Statements
- 1.2 Corporate Governance and Disclosure Requirements
- 1.3 Disclosure Relating to Financial Statements (Notes to Accounts)
- 1.4 Preparation of Profit and Loss Account and Balance Sheet of Corporate Entities

**Unit 2 (15 Hours)**

**Preparation of Cash Flow Statements**

- 2.1 Preparation of Cash Flow Statements as per AS-3, ICAI.

**Unit 3 (12 Hours)**

**Valuation of Goodwill and Shares**

- 3.1 Meaning, Need and Factors to be considered for Valuing Goodwill and Shares
- 3.2 Methods of Valuation of Shares – Intrinsic Value, Yield Value Earning Capacity and Fair Value
- 3.3 Methods of Valuation of Goodwill – Average Profits, Super Profits

**Unit 4** **(12 Hours)**

**Amalgamation and Absorption**

- 4.1 Meaning and Difference
- 4.2 Calculation of Purchase Consideration for Amalgamation, Merger and Purchase
- 4.3 Accounting Treatment in the Books of the Purchasing Company and the Vendor Company for Merger and Purchase excluding Intercompany Holdings

**Unit 5** **(13 Hours)**

**Internal Reconstruction including Alteration of Share Capital**

- 5.1 Alteration of Share Capital – Types – Accounting Procedure
- 5.2 Internal Reconstruction – Types and Legal Provisions
- 5.3 Accounting Entries and Preparation of Balance Sheet after Internal Reconstruction

**BOOKS FOR STUDY**

Gupta R.L and Gupta V.K., *Introduction to Corporate Accounting*, S Chand, 2016

Reddy, T.S and A. Murthy., *Corporate Accounting*, Margham, 2017

**BOOKS FOR REFERENCE**

Jain S. P and Narang K. L., *Advanced Accountancy (Vol- II)*, Kalyani, 2016

M. Hanif and Mukherjee A., *Corporate Accounting*, 2<sup>nd</sup> Edition, TMH, 2017

Bhushan Kumar Goyal, *Taxman's Corporate Accounting*, 6<sup>th</sup> Edition, 2019

Goyal V.K., *Corporate Accounting*, 2018

**JOURNALS**

Journal of Institute of Chartered Accountants of India

Journal of Corporate Accounting and Finance.

**WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)

[www.emeraldinsight.com](http://www.emeraldinsight.com)

[www.accaglobal.com](http://www.accaglobal.com)

[www.journals.elsevier.com](http://www.journals.elsevier.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A –  $3 \times 2 = 6$  Marks

Section B –  $3 \times 8 = 24$  (from a choice of four questions)

Section C –  $1 \times 20 = 20$  (from choice of two questions)

**Other Components:                            Total Marks: 50**

Assignments/Problem Solving

**End Semester Examination:            Total Marks: 100                            Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice 5 Questions theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – Problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions- Problems)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**INCOME TAX LAW AND PRACTICE**

**CODE: 19CM/MC/IT54**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the provisions of the Income Tax Act
- To enable students to understand the computation of income under different heads
- To educate students on the computation of taxable income and tax liability

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Understand and apply the Provisions of the Income Tax Act
- Ascertain the taxable income of an individual
- Compute the tax liability of an individual
- File Income Tax returns

**Unit 1**

**(12 Hours)**

**Introduction to Taxation**

- 1.1 Importance and Relevance of Taxation
- 1.2 An overview of the Income Tax Act 1961 – Economic Survey – Meaning, Pre-Budget
- 1.3 Types of Tax- Direct and Indirect Taxation
- 1.4 Important Definitions under The Income Tax Act 1961- Assessee – Types of Assessee - Persons – Income - Assessment Year - Previous Year – Income- Total Income- Taxable Income – Exempted Income
- 1.5 Residential Status and Scope of total Income

**Unit 2**

**(15 Hours)**

**Computation of Salary Income and Income from House property**

- 2.1 Computation of Income under the Head Salary
  - 2.1.1 Allowances - Perquisites - Profit in Lieu of Salary
  - 2.1.2 Other Receipts and Treatment of Provident fund
  - 2.1.3 Deductions, Computation of Salary Income
- 2.2 Computation of Income under the Head House Property
  - 2.2.1 Basis of Charge
  - 2.2.2 Deductions, Computation of House Property Income

- Unit 3 (12 Hours)**  
**Computation of Profit and Gains of Business or Profession**  
3.1 Income chargeable under the head Profit and Gains of Business or Profession  
3.2 Disallowance under the head Profit and Gains of Business or Profession  
3.3 Presumptive provisions  
3.4 Alternate Minimum Tax

- Unit 4 (13 Hours)**  
**Computation of Capital gains and Income from other sources**  
4.1 Capital Asset-Types of Capital Assets  
    4.1.1 Computation of Short Term and Long Term Capital Gains  
    4.1.2 Exempted Capital Gains  
4.2 Income from Other Sources  
    4.2.1 Basis of Charge, Casual and Other Income  
    4.2.2 Computation of Taxable Income from Other Sources

- Unit 5 (13 Hours)**  
**Computation of Total Income and Tax liability**  
5.1 Set off and carry forward of losses  
5.2 Computation of Gross total income  
5.3 Deductions allowed under Section 80 for an Individual  
5.4 Computation of Taxable Income and Tax Liability.

### **BOOKS FOR STUDY**

V.P Gaur & D.B Narang, *"Income Tax –Law & Practice"* Kalyani Publishers,  
Dr.H.C.Mehrotra & Dr. S.P. Goyal, *Direct Taxes law & Practice*",  
SahityaBhawan.Publications, Agra.

### **BOOKS FOR REFERENCE**

B.B. Lal, *"Direct Taxes"*, Pearson Education, New Delhi.  
VinodSinghania, *"Income tax law and practice"* Taxman Publications, New Delhi,  
Dr.Bhagavathi Prasad, *"Direct Taxes Law & Practice"* Vishwa Publication, New Delhi.

### **JOURNALS**

Journal of Taxation  
National Tax Journal

## WEB RESOURCES

[www.icaew.com](http://www.icaew.com)

[www.aicpa.org](http://www.aicpa.org)

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes.**

Section A –  $3 \times 2 = 6$  Marks (no choice)

Section B –  $3 \times 8 = 24$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two)

**Other Components:**                      **Total Marks: 50**

Quiz/Assignments/Filing of returns/Open book test/Objective test.

**End Semester Examination**                      **Total Marks: 100**                      **Duration: 3 hours.**

Section A –  $10 \times 2 = 20$  Marks (no choice 5 Questions theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – 1 Theory and 6 Problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions- Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**E – ENTERPRISE MANAGEMENT**

**CODE: 19CM/MC/EM53**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS : 52**

**OBJECTIVES OF THE COURSE**

- To provide valuable guidance to students to understand the technological changes in the business world
- To understand the practices and technology to start a business
- To familiarize the students with various concept in managing the E-Business
- To provide knowledge to the students on the procedural formalities in dealing with E- Business

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Know how to build and manage an e-business
- Analyse the e- business environment
- Generate and evaluate ideas for new business ventures
- Develop a perfect theoretical knowledge on e- business components

**Unit 1 (10 Hours)**

**Introduction to E - Business**

- 1.1 Meaning, Significance, Advantages and Challenges in E-Commerce
- 1.2 E-Commerce Models – B2B, B2C, C2B and C2C
- 1.3 E-Commerce in India (Internet, World Wide Web, Internet Architectures, Internet Applications, Web Based Tools for Electronic Commerce)

**Unit 2**

**E- Business Infrastructure ( 10 Hours)**

- 2.1 Business Applications on Intranet, Extranet.
- 2.2 Electronic Data Interchange - Components and Communication process
- 2.3 E-HRM – Concept, Importance and Challenges in E-HRM
- 2.4 Impact of E-HRM practices in Organizational Performance

**Unit 3**

**E-Business Payment and Security (15 Hours)**

- 3.1 Electronic Payment System – Meaning, Characteristics and Advantages
- 3.2 Types of Electronic Payment Systems- Smart Cards, Credit Card, Debit Card, NEFT, E-Wallet, E-Cash and other Electronic Payment Systems
- 3.3 Infrastructure Issues in EPS, Electronic Fund Transfer

- 3.4 Internet Security Threats to E-Business – an Overview
  - 3.4.1 Cryptography, Security, Encryption, Public Key and Private Key Cryptography, Digital Signatures, Digital Certificates
  - 3.4.2 Security Protocols, Public Networks- HTTPS, SSL, Firewall Public Key Infrastructure (PKI) for Security, Prominent Cryptographic Applications

**Unit 4 (10 Hours)**  
**E-Marketing**

- 4.1 Consumer Oriented E-Business – E-Tailing and Models-B2B, B2C, C2C, C2B and G2B
- 4.2 Marketing on Web – Advertising, Marketing, Online Services and Web Auctions, Virtual Communities and Web Portals
- 4.5 E- Governance- EDI on the Internet, Delivery Management System
- 4.6 Social Media Marketing – Advantages and Disadvantages

**Unit 5 (7 Hours)**  
**Legal and Ethical Issues in E- Business**

- 5.1 Legal, Ethical and Privacy Issues – Need for Protection and Methodology
- 5.2 Online Consumer Protection-Rights
- 5.3 Information Technology Act – Emerging Trends

**BOOKS FOR STUDY**

Harvey M.Deitel, Paul J.Deitel, Kate Steinbuhler, *E-business and e-commerce for managers*, Pearson, 2011.

Efraim Turban, Jae K. Lee, David King, Ting Peng Liang, Deborrah Turban, *Electronic Commerce –A managerial perspective*, Pearson Education Asia, 2010

**BOOKS FOR REFERENCE**

Parag Kulkarni, Sunita Jahirabadkao, Pradeep Chande, *e business*, Oxford University Press, 2012

Gary P. Schneider, *Electronic commerce*, Thomson course technology, Fourth annual edition, 2007

Bharat Bhasker, *Electronic Commerce – Frame work technologies and Applications*, 3<sup>rd</sup> Edition. Tata McGrawHill Publications, 2009

Kamlesh K.Bajaj and Debjani Nag, *Ecommerce- the cutting edge of Business*, Tata McGrawHill Publications, 7th reprint, 2009.

## JOURNALS

International Journal of Internet and Enterprise management  
International Journal of Enterprise Network management  
International Journal of Enterprise Information System  
Journal of Enterprise Information Management

## WEB RESOURCES

<https://www.ici.net.au/blog/e-business-management-what-you-need-to-know>  
<https://iveybusinessjournal.com/publication/the-strategic-management-process-in-e-business/>  
<https://www.dailypioneer.com/2018/avenues/managing-e-commerce>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)  
Section B – 2 x 8 = 16 Marks (from a choice of three)  
Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:                                      Total Marks: 50**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination                      Total Marks: 100                      Duration: 3 hours.**  
Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )  
Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)  
Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**BUSINESS COMMUNICATION**

**CODE: 19CM/MC/BC53**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To familiarize students with the essentials of business correspondence
- To enable students to develop their business communication skill
- To help students to understand the importance of communication in business
- To assist students to understand the importance of business language and presentation

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Comprehend the importance of communication in business
- Evaluate the role of technology in making communication effective
- Prepare resume and presentable job application letters
- Learn the importance of AIDA in business communication

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Nature, Process and Importance of Communication
- 1.2 Types of Communication
- 1.3 Barriers to Communication

**Unit 2**

**Business Correspondence**

**(12 Hours)**

- 2.1 Need and Importance of Business Correspondence
- 2.2 Planning, Layout and Kinds of Business Letters
- 2.3 Kinds of Business Correspondence
  - 2.3.1 Quotation-Inviting Quotations, sending Quotations.
  - 2.3.2 Sales letters, Claim inviting Adjustment
- 2.4 Official Legal Communication
  - 2.4.1 Memorandum, Inter-office Memorandum.
  - 2.4.2 Notices, Agenda, Minutes
- 2.5 Job Application Letter, Preparing a Resume

### **Unit 3**

#### **Business Report Writing**

**(10 Hours)**

- 3.1 Importance and Need for Report-Writing
- 3.2 Format of a Report-Guidelines in the preparation of a report
- 3.3 Process of writing a Report
- 3.4 Importance of including Visual Charts in writing Reports
- 3.5 Citation Rules in Reports and Types of Reports

### **Unit 4**

#### **Business Language and Presentation**

**(10 Hours)**

- 4.1 Importance of Business Language
- 4.2 Oral presentation- Importance, Characteristics
- 4.3 Presentation Plan, Power Point Presentation, Visual Aids

### **Unit 5**

#### **Business Communication and Technology**

**(10 Hours)**

- 5.1 Role, Effects and Advantage of Technology in Business Communication
- 5.2 Importance of E-Communication
  - 5.2.1 E-mail, Text Messaging, Instant Messaging and Modern Techniques-Video Conference

### **BOOKS FOR STUDY**

Rajendra Pal and Korlahalli.J.S *Business Communication* , Sultan Chand & Sons, 8<sup>th</sup> edition, 2015

M. K. Sehgal, Vandana Khetarpal *Business Communication*, Excel Books; 2<sup>nd</sup> edition, 2013

### **BOOKS FOR REFERENCE**

Harvard Business School Press Harvard Business School, *Business Communication*, Publishing Harvard Business Press, 2012

Bovee, C/Thill, J/Schatzman, *Business Communication Today*, 12<sup>th</sup> edition Pearson Education, 2014

Sharma, R. C/Mohan, *Business Correspondence & Report Writing*, 4<sup>th</sup> edition TMH, 2010

Kathryn Rentz and Paula, *Business Communication*, Mcgrawll Publication, 2010

### **JOURNALS**

International Journal of Business Communication

ABC: International Journal of Business Communication-SCImago

### **WEB RESOURCES**

[www.pixelmattic.com](http://www.pixelmattic.com)

[www.businesscommunication.org](http://www.businesscommunication.org)



## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes.**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Components:                                      Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Interdisciplinary Core Course Offered by the Departments of Commerce and History to  
B.Com. Commerce and B.A. Branch I A History and Tourism**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TOURISM MARKETING AND MANAGEMENT**

**CODE:19ID/IC/TM55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the principles of Marketing and Management and its application to the Tourism Industry
- To help students comprehend planning concepts, structure and organisation of Tourism
- To enable students comprehend the complexities of Human Resource Management

**COURSE LEARNING OBJECTIVES**

On successful completion of this course, the students will be able to

- Understand the principles of Marketing and Management
- Acknowledge its applications to the tourism industry
- Apply the concepts practically
- Analyse the intricacies of the tourism industry
- Demonstrate the requisite skills for Tourism Marketing and Management

**Unit 1**

**Basic Principles of Marketing and Management (15 Hours)**

- 1.1 Tourism Marketing - A Perception - Purpose and Constraints of Tourism Marketing
- 1.2 Essentials of Service Management
- 1.3 Meaning, Concept and Characteristics of Tourism Management - Nature and Functions of Tourism Managers

**Unit 2**

**Tourism Planning (15 Hours)**

- 2.1 Planning Concepts - Marketing Information System –SWOT Analysis
- 2.2 Business Environment
- 2.3 Nature and Importance of Planning - Strategic Planning For Tourism

**Unit 3**

**The Structure and Organisation (15 Hours)**

- 3.1 Types of Organisations - Line, Line and Staff, Matrix
- 3.2 Organisation - Levels of Authority
- 3.3 Human Resource Management - Staffing, Recruitment - Sectoral and Destination Organisations

**Unit 4**  
**Elements of Tourism Marketing** (15 Hours)

- 4.1 Market Research
- 4.2 Consumer and Consumer Behaviour - Factors Influencing Buying Behaviour
- 4.3 Marketing Mix - Distribution Strategy for Tourism

**Unit 5**  
**Tourism Marketing Strategies** (18 Hours)

- 5.1 Tourism Promotion –Tools- Direct Selling- Advertising- Direct Marketing-Tele Marketing-Internet Marketing-Sales promotion
- 5.2 Segmentation- Demographic-Psychographic-Behaviour-Occasion
- 5.3 Branding and Pricing - Destination Marketing - Public Relations for Tourism

**BOOKS FOR STUDY**

Seth, P.N. *Successful Tourism Management*. New Delhi: Sterling, 1997.  
Bhatia, A.K. *Tourism Management and Marketing*. New Delhi: Sterling Publishers, 1997.  
Holloway, J. C. and R.Y. Plant. *Marketing for Tourism*. London : Pitman Publishing, 1998.  
Sinha, P.C. *Tourism Management*. New Delhi: Anmol Publishers, 1997.  
Buhalis, D., and Costa C. (ed.) *Tourism Management Dynamics*. London : Heinemann, 2006.

**BOOKS FOR REFERENCE**

Collman, M.M. *Tourism Marketing*. New York: Van Nostrand Reinhold, 1989.  
Batra, G.S. and R.C. Dangwal. *Tourism Promotion and Development: New Advances*. New Delhi: Deep and Deep, 2007.  
Buhalis, D. and Costa C. *Tourism Business Frontiers - Consumers, Products and Industry*. London: Heinemann, 2006.  
Telter, David J. and R. Sharpley. *Tourism and Development in the Developing World*. London: Routledge, 2001.

**JOURNALS**

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly)  
Tourism Management, Elsevier  
Journal of Hospitality and Tourism, Sage Publication

**WEB RESOURCES**

[www.tourismmarketingconcepts.com](http://www.tourismmarketingconcepts.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Other Components:** **Total Marks: 50**

Seminars/Presentation/Group discussion/Objective test

**End-Semester Examination:** **Total Marks: 100** **Duration 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**BUSINESS ETHICS AND SOCIAL RESPONSIBILITY**

**CODE: 19CM/MC/BR63**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To provide students an understanding and practices of business ethics and corporate social responsibility in the global and Indian context
- To familiarize students with the various CSR initiatives and the environmental aspects of CSR
- To educate students on the ethical issues in finance, marketing and advertising

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Understand the ethical issues and challenges faced by corporate decision makers
- Analyze the role and responsibilities of stakeholders in business
- Compare the CSR initiatives of different organisations
- Comprehend the doctrine of ethical practices

**Unit 1**

**Introduction to Ethics**

**(10 Hours)**

- 1.1 Meaning, Scope and Objectives of Ethics
- 1.2 Business Ethics and Globalisation
- 1.3 Practicing Ethics in Business
- 1.4 Ethical Dilemma in Business

**Unit 2**

**Ethics in Business**

**(12 Hours)**

- 2.1 Ethical Issues in Finance – Issues related to Financial Services, Insider Trading and Takeovers
- 2.2 Ethical Issues in Marketing and Advertising
- 2.3 Whistle Blowing and Whistle Blowers Protection

**Unit 3**

**Drivers of CSR-Ethical Theory**

**(10 Hours)**

- 3.1 Drivers of CSR Disclosures
- 3.2 Driving forces of CSR, Consumers as Drivers of CSR, Government as Drivers of CSR
- 3.3 Utilitarianism in Ethics- Ethics in Law Enforcement
- 3.4 Types of Normative Ethical Theories

## **Unit 4**

### **Corporate Social Responsibility**

**(10 Hours)**

- 4.1 CSR-Initiative Toward Stakeholder, Employees, Consumers, Government and Suppliers
- 4.2 Corporate Philanthropy and Community Volunteering
- 4.3 CSR Initiatives in Different Corporate Sector- Case study
- 4.4 Models of CSR - Archie Carroll

## **Unit 5**

### **Environmental aspects of CSR**

**(10 Hours)**

- 5.1 Significance of CSR, Legal, Political Social and Cultural Requirements
- 5.2 CSR and Corporate Sustainability
- 5.3 Role of Government in Managing Environmental Issues

## **BOOKS FOR STUDY**

Andrew Crane Dirk Matten. *Business Ethics*. New Delhi: Oxford University Press.2010

Joan R. Boatright. *Ethics and the Conduct of Business..* Pearson. 2018

## **BOOKS FOR REFERENCE**

Bhanu Murthy, K. V. and Usha Krishna, *Politics Ethics and Social Responsibilities of Business*. New Delhi: Pearson Education.2015

Christine, A Mallin. *Corporate Governance* (Indian Edition). New Delhi: Oxford University Press. 2010

Geeta Rani, D & R K Mishra. *Corporate Governance-Theory and Practice*. New Delhi:

Excel.

Kotler, Philip and Nancy Lee. *Corporate Social Responsibility – Doing the Most Good for Your Company and Your Cause*. Wiley – India, 2017.

Fernanado,A.C. ,*Corporate Governance-Principles, Policies and Practice*, Pearson 2009

## **JOURNALS**

International Journal of Management Reviews

International Journal on Corporate Strategy and Social Responsibility

## **WEB RESOURCES**

[www.ibscdc.org](http://www.ibscdc.org)

[www.exed.hbs.edu](http://www.exed.hbs.edu)

[www.hbr.org](http://www.hbr.org)

**PATTERN OF ASSESSMENT****Continuous Assessment Test:            Total Marks: 50****Duration: 90 minutes.**

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Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:****Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:****Total Marks: 100****Duration: 3 hours**

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTERNATIONAL BUSINESS**

**CODE: 19CM/MC/IB64**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide the students a comprehensive understanding on the Importance and Impact of Globalization in International Business
- To familiarize students with the International Business environmental factors
- To expose students to the International Institutions governing International Trading System
- To introduce a basic outline on Global Governance

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Analyze the Impact of Globalization in International Business
- Comprehend the various factors that affect the Global Environment
- Enable to understand International Organization engaged in International Trade
- Understand the Global Gaps present in International Business

**Unit 1 (10 Hours)**

**Introduction to International Business**

- 1.1 Nature and Importance of International Business
- 1.2 Drivers of International Business, Difference between International Business and Domestic Business
- 1.3 Evolution of International Business
- 1.4 Effects of Globalization

**Unit 2 (15 Hours)**

**International Business Environment**

- 2.1 Nature, Concept and Significance of International Business Environment
- 2.2. Types of International Business Environment

**Unit 3 (15 Hours)**

**International Business Management – Finance & Marketing**

- 3.1 Sources of Finance for Exporters
- 3.2 Export- Import (EXIM) Bank of India and Export Credit Guarantee Corporation (ECGC) of India
- 3.3 Market Selection – Process and Determinants
- 3.4 Market Entry Strategies

**Unit 4** **(15 Hours)**

**International Trade Institutions**

- 4.1 Trends in the World Trade & Economic growth
  - 4.1.1 General Agreement on Tariff and Trade (GATT)
  - 4.1.2 General Agreement on Trade in Services (GATS)
- 4.2 International Organizations – International Monetary Fund (IMF), World Trade Organization (WTO), United Nation Conference on Trade and Development(UNCTAD)

**Unit 5** **(10 Hours)**

**Regulatory Framework for International Business**

- 5.1 FDI- Establishment of Business in India by a Foreign company
- 5.2 ODI- Establishment of Business outside India by an Indian company
- 5.3 Double Taxation Avoidance Agreement

**BOOKS FOR STUDY**

K.Aswathappa., *International Business*, McGrawHill Education, 2017.

C.B.Gupta, *International Business*, S Chand Co.2014

**BOOKS FOR REFERENCE**

Thomas Weiss, *Global Governance: Why? What? Whither?*, Wiley Publishers 2016.

Shaikh Saleem, *Business Environment*, Pearson Education India, 2015

Francis Cherunilam,,*International Business- Text and Cases*, New Delhi: Prentice Hall,2010

James.P.Neelankavil and Anoop Rai, *Basics of International Business*,M.E.Sharpe,2015

**JOURNALS**

Journal of International Business & Economics

Journal of International Management

**WEB RESOURCES**

[www.civilservice.com](http://www.civilservice.com)

[www.indiafilings.com](http://www.indiafilings.com)



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**Other Components:                            Total Marks:50**

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**End Semester Examination:            Total Marks:100**

**Duration: 3 hours.**

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**ENTREPRENEURIAL DEVELOPMENT**

**CODE: 19CM/MC/ED64**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To provide valuable guidance and Management tools to students to set up their own Business
- To provide Students a conceptual and practical foundation for Entrepreneurial Practice
- To provide comprehensive knowledge to the students on the various aspects related to entrepreneurial development
- To familiarize the students with the practical knowledge of establishing a business

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Analyse the business environment in order to identify business opportunities,
- Generate and evaluate ideas for new business ventures
- Explore the possibility of setting up a business
- Understand the importance of marketing and management in new business ventures

**Unit 1**

**(15 Hours)**

**Introduction**

- 1.1 Entrepreneurship, Entrepreneur and Enterprise - Meaning, Definition, Characteristics and Qualities for an Ideal Entrepreneur
- 1.2 Functions and Types of Entrepreneur - Social Entrepreneur, Rural Entrepreneur, Self-help Group, E-entrepreneur, etc.
- 1.3 Role of Entrepreneurship in Economic Development
  - 1.3.1 Factors Influencing Entrepreneurship development
  - 1.3.2 Internal and External environment – Economic and Non - economic, Psychological, Social, Cultural, Political, Legal and Economic factors
- 1.4 Factors impacting Emergence of Entrepreneurship - Barriers

**Unit 2**

**Enterprise Process and Strategies**

**(15 Hours)**

- 2.1 Opportunity Identification and Selection
- 2.2 Idea Generation and Screening of Business Idea
  - 2.2.1 Sources of Business Idea – Internal and External
  - 2.2.2 Evaluation of Business Idea
  - 2.3.3 Selection of Business Idea
  - 2.3.4

- 2.3 Business Plan – Meaning, Contents and Significance of Business Plan
  - 2.3.1 Business Plan Process, Advantages of Business Planning.
  - 2.3.2 Environmental Analysis - Scanning, SWOT Analysis.

### **Unit 3**

#### **Project Proposal**

**(15 Hours)**

- 3.1 Project Identification and Classification
  - 3.1.1 Project – Meaning and Types
  - 3.1.2 Internal and External Constraints in Identifying Project
  - 3.1.3 Project Life Cycle
- 3.2 Project Formulation
  - 3.2.1 Meaning and Stages in Project Formulation
  - 3.2.2 Need and Significance of Project Formulation
  - 3.2.3 Elements of Project Formulation
- 3.3 Project Feasibility
  - 3.3.1 Project Feasibility Analysis
- 3.4 Preparing Model Project Report for Starting a New Venture

### **Unit 4**

#### **Women Entrepreneurship**

**(10 Hours)**

- 4.1 Role and Challenges of Women Entrepreneur
- 4.2 Special privileges and problems faced by Women Entrepreneur

### **Unit 5**

#### **Entrepreneurial Finance**

**(10 Hours)**

- 5.1 Financial Planning – Meaning and Need
- 5.2 Sources of finance – Internal and External
- 5.3 Working Capital Management - Sources and Factors Determining Working Capital
- 5.4 Role of Banking and Non-Banking Institutions assisting Entrepreneurs
- 5.5 Government Assistance through Subsidies and Incentives

### **BOOKS FOR STUDY**

S.S.Khanka, *Entrepreneurial Development*, S. Chand & Co, New Delhi, 2015  
 Desai, V. *Dynamics of Entrepreneurship Development and Management*, New Delhi: Himalaya Publishers, 2015

### **BOOKS FOR REFERENCES**

Jayashree Suresh, *Entrepreneurial Development*, Margham Publications, New Delhi, 2015  
 C.B. Gupta & N. P. Srinivasan, *Entrepreneurial Development*, Sultan Chand & Sons, 2016  
 Poornima, C. *Entrepreneurship Development - Small Business Enterprises*. New Delhi: Pearson, (2011).  
 Robert D. H.& Peters, M.P. *Entrepreneurship*. New Delhi: Tata McGraw Hill, 2013  
 Gopalakrishnan, P. *Textbook of Project Management*. New Delhi: Macmillan, 2014

## **JOURNALS**

International Journal of entrepreneurship development and Small business  
Journal of entrepreneurship education  
Journal of Business venturing  
International Journal of Project Management

## **WEB RESOURCES**

<http://www.entrepreneur.com>  
<http://www.businessesforsale.com>  
<http://www.sba.gov>  
<http://joe.sagepub.com/content/19/2.toc>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes.**

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM. DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**AUDITING**

**CODE: 19CM/MC/AG64**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To provide the students' an understanding of the principles and techniques of auditing in accordance with the current legal requirements and professional standards
- To give an overview of the theories of corporate governance
- To acquaint students with audit process and procedures

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Understand the procedure and techniques of auditing
- Evaluate the audit process and procedures
- Verify the financial position of a company
- Appreciate the E-environment audit initiatives of the companies

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Auditing
  - 1.1.1 Meaning and Objective
  - 1.1.2 Audit Planning and Internal Control
  - 1.1.3 Internal Check and Internal Audit
  - 1.1.4 Internal Financial Control
  - 1.1.5 Working Papers and Merits of Audit Programmes
- 1.2 Standards in Auditing issued by ICAI

**Unit 2 (15 Hours)**

**Audit Evidence**

- 2.1 Vouching –Importance and Objectives
- 2.2 Factors to be considered during Vouching
- 2.3 Importance of Reconciliation- Bank, Debtors, Creditors, Material and Statutory Dues
- 2.4 Types of Audit Evidence

**Unit 3 (15 Hours)**

**Verification of Assets and Liabilities**

- 3.1 Verification- Objectives and Importance
- 3.2 Verification of Different Items

**Unit 4****Audit of Limited Companies****(15 Hours)**

- 4.1 Appointment and Removal of an Auditor
- 4.2 Rights, Duties and Liabilities
- 4.3 Reporting of Fraud

**Unit 5****Audit Report****(10 Hours)**

- 5.1 Audit Report including New Audit Reporting Requirements
- 5.2 Auditing in an e-Environment

**BOOKS FOR STUDY**

Tandon, B. N. *Handbook of Practical Auditing*. New Delhi: S.Chand, 2018.

Sharma.J.P. *Corporate Governance, Business Ethics and CSR*, New Delhi:  
Ane Books Pvt Ltd,2016

Anil Kumar. *Corporate Governance,Theory and Practice*. NewDelhi: Indian Book House,2012

**BOOKS FOR REFERENCE**

Anil Kumar. *Corporate Governance, Theory and Practice*. NewDelhi: Indian Book House,2012

De Paula, F.R.M. *Principles of Auditing: A practical manual for student and practitioners*. London: E.L.B.S., 2015.

Pagare, Dinakar..*Auditing* New Delhi: Sultan Chand, 2016.

Saxena, R. G *Principles and Practices of Auditing* Himalaya Publishers, Mumbai: 2010.

**JOURNALS**

International Journal of Auditing

Auditing: A journal of Practice and Theory

Journal of Accounting, Auditing and Finance

Accounting, Auditing and Accountability Journal

**WEB RESOURCES**

[www.neoxen.com/neoxen/methodology/docs/intro\\_auditing\\_online.pdf](http://www.neoxen.com/neoxen/methodology/docs/intro_auditing_online.pdf)

[www.academia.edu/7505528/verification\\_and\\_valuation](http://www.academia.edu/7505528/verification_and_valuation)

[www.e-conomic.co.uk/accountingsystem/glossary/auditors-report](http://www.e-conomic.co.uk/accountingsystem/glossary/auditors-report)

[accountlearning.blogspot.in/2012/02/advantages-of-audit-program.html](http://accountlearning.blogspot.in/2012/02/advantages-of-audit-program.html)

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self (10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family (17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation



- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**BUSINESS ENVIRONMENT**

**CODE: 19CM/ME/BE45**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide the students an understanding of the environment in which business operates
- To enable students to understand the various factors that affect the business environment
- To familiarise students with the political and socio-cultural environment of business of business
- To enable students to understand the importance of global business environment

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Comprehend the key factors that affect business environment
- Understand the implications of culture across boundaries
- Exhibit an understanding of the political and economic environment of business
- Explore the impact of pollution caused by industries

**Unit 1 (10 Hours)**

**Business Environment – An Overview**

- 1.1 Meaning and Nature of Business Environment
- 1.2 Types of Environment – Internal, External-Micro and Macro Environment
- 1.3 Competitive Structure of Industry, Environment Analysis
- 1.4 Process and Limitations of Environmental Analysis

**Unit 2 (15 Hours)**

**2.1 Economic Environment of Business**

- 2.1.1 Nature of Economic System - Capitalistic, Socialistic and Mixed Economy
- 2.1.2 Process and Techniques of Economic Planning and Policies

**2.2 Political Environment**

- 2.2.1 Functions of State, Economic Roles of Government: Regulatory, Promotional, Entrepreneurial and Planning
- 2.2.2 The Constitutional Environment, Rationale and Extent of State Intervention

**Unit 3**  
**Socio – Cultural Environment (15 Hours)**

- 3.1 Nature and Impact of Culture on Business Culture and Globalisation
- 3.2 Business and Culture with Special reference to Adaptation, Transmission and Conformity
- 3.3 Socio- Cultural Environment – Challenges

**Unit 4**  
**Natural and Technological Environment (15 Hours)**

- 4.1 Nature of Technological Environment and Elements
- 4.2 Impact of Technology on Globalisation, Transfer of Technology, Time lapse in Technology Introduction
- 4.3 Status of Technology in India- Management, Features and Impact
- 4.4 Natural Environment-Impact on Business, Natural Pollution-Meaning, Types

**Unit 5**  
**Global Business Environment (10 Hours)**

- 5.1 Liberalization, Privatization, Globalization and its Need
- 5.2 Regional Economic Grouping – European Union, ASEAN, SAARC
- 5.3 Environmental and Social Responsibility – Current Global Perspective Pertaining to Pollution

**BOOKS FOR STUDY**

K.Aswhappa, *Essentials of Business Environment*.Mumbai;Himalayas Publishing House,2017

Francis Cherunilam,*Business Environment*, Mumbai :Himalayas Publishing House 2017

**BOOKS FOR REFERENCE**

Shaikh Salem, *Business Environment* New Delhi:Pearson,2015.

T.R.Jain,Mukesh Trehan., Ranju Trehan .*Business Environment*,New Delhi :V. KNOW. Global Publications,2014.

Sankaran.S., *Business Environment*, Chennai:Margham Publications 2013

Francis Cherunilam ,*International Business Environment*, Mumbai :Himalayas Publishing House 2015

**JOURNALS**

International Journal of Business Environment  
Journal of International Business

## WEB RESOURCES

<http://www.business.mapsofindia.com>

<http://www.yourarticlelibrary.com>

<http://www.economicsdiscussion.net>

## PATTERN OF ASSESSMENT

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**ADVERTISING AND MEDIA MANAGEMENT**

**CODE: 19CM/ME/AM45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with creative strategies in advertising
- To educate students on the importance of media advertising
- To assist students to create an Advertisement Copy

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Create their own Advertisement Copy
- Analyze individual media businesses and understand the economic drivers of the media economy
- Gain a perspective on the facets of media
- Develop an integrated marketing plan using a wide variety of media

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Meaning, Definition and Evolution of Advertising.
- 1.2 Role of Advertising.
- 1.3 Advertising as a Promotional tool.
- 1.4 Economic, Social and Ethical Aspects of Advertising
- 1.5 Advertising as a Communication Process

**Unit 2**

**Creative Strategy Management**

**(15 Hours)**

- 2.1 Advertisement Copy and Advertisement Designing
  - 2.1.1 Meaning- Preparation and process
  - 2.1.2 Types of Advertisement Copy
  - 2.1.3 Elements of Advertisement Copy and Advertisement Design
- 2.2 Advertisement Layout
  - 2.2.1 Structure of an Advertisement Layout
  - 2.2.2 Principles of Advertisement Layout

### **Unit 3**

#### **Advertising and Campaign Planning**

**(15 Hours)**

- 3.1 Marketing Strategy and Situational Analysis
- 3.2 Advertising Plan and Objectives
- 3.3 DAGMAR Approach
- 3.4 Preparation of Campaign- Stages in Campaign Process

### **Unit 4**

#### **Advertising Media Strategy**

**(15 Hours)**

- 4.1 Role of Media, Types of Media- Indoor, Outdoor, Electronic and Online Advantages and Disadvantages
- 4.2 Media Planning-Selection and Scheduling

### **Unit 5**

#### **Media Management strategies**

**(10 Hours)**

- 5.1 Media Choice Criteria- Factors affecting Choice of Media
- 5.2 Choosing the right Agency-Role, Types and Functions of Advertisement Agencies, Selection and Co-ordination of Advertising Agency
- 5.3 Advertisement Budgeting- Types- Affordable Rate Method, Percentage of Sales Method, Competitive Parity Method and Objective and Task Method

### **BOOKS FOR STUDY**

Belch. *Advertising and Promotion*. New Delhi, Tata McGraw Hill, 2017  
Kenneth, E. Clow & Donald E. Baack. *Integrated Advertising Promotion & Marketing Communication*. New Delhi: Prentice Hall, 2015.

### **BOOKS FOR REFERENCE**

Bovee, John. Courtland. L. George, Dovel. P and Wood, Marian Burk. *Advertising Excellence*, New Delhi, Tata McGraw Hill. 1994  
Wells. *Advertising Principles and Practice*, New Delhi, Prentice Hall of India, 2016  
Christina Spurgeon. *Advertising and New Media*. USA Taylor & Francis, latest edition  
Appannaiah. H.R and Ramnath, *Advertising and Media Management*, Himalaya Publisher, 2016

### **JOURNAL**

Journal of Advertising  
Journal of Advertising Research  
Journal of Advertising Education

## **WEB RESOURCES**

[www.managementstudyguide.com/advertising](http://www.managementstudyguide.com/advertising)

[www.doccity.com](http://www.doccity.com)

[www.yourarticlelibrary.com](http://www.yourarticlelibrary.com)

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**RETAIL MANAGEMENT**

**CODE: 19CM/ME/RM45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students the knowledge of contemporary retail management issues
- To give a clear understanding on the concepts of retailing
- To provide students an understanding of the functioning of a retail industry

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Utilise the concepts of retail management in practice
- Cope with challenges of Retail markets
- Understand the techniques of resource utilisation
- Analyse store location, merchandising, products and pricing

**Unit 1**

**Introduction to Retailing**

**(12 Hours)**

- 1.1 Meaning, Definition of Retailing, Growing Importance of Retail Concept
- 1.2 Dynamic Nature of Retailing-Theories
- 1.3 Retail Formats
- 1.4 Retail Business in India-Influencing Factors, Present Indian Retail Scenario

**Unit 2**

**(12 Hours)**

**Retail Marketing Mix**

- 2.1 Product-Decisions related to Choice of Goods, Delivery of Service
- 2.2 Pricing-Influencing Factors, Approaches to Pricing
- 2.3 Supply Channel –Principles and Retail Logistics
- 2.4 Promotion-Objectives and Promotional Mix

**Unit 3**

**Retail Operations**

**(15 Hours)**

- 3.1 Factors Influencing Location of Stores
- 3.2 Stores Layout and Visual Merchandising- Stores Designing, Spaces Planning and Inventory Management
- 3.3 Merchandise Management- Need, Importance and Process, Skill and Profile of a Merchandiser



## **Unit 4**

### **Consumer Behaviour in Retail Business**

**(15 Hours)**

- 4.1 Buying Decision Process and Implication on Retailing
- 4.2 Influence of Group and Individual Factors
- 4.3 Customer Shopping Behaviour- Customer Service and Customer Satisfaction

## **Unit 5**

### **Emerging Trends in Retailing**

**(11 Hours)**

- 5.1 Changing Nature of Retailing
- 5.2 Organised Retailing, Modern Retailing and E-Tailing
- 5.3 Challenges faced by Retail Sector-Legal Aspects in Retailing, Social and Ethical Issues in Retailing

## **BOOKS FOR STUDY**

David Gilbert , *Retail Marketing* New Delhi, Prentice Hall of India Pvt Ltd, latest edition

Barry Bermans and Joel Evans, *Retail Management- A Strategic Approach* Prentice Hall, edition

Tiwari.T.S, *Retail Management*, Himalaya Publishing House

## **BOOKS FOR REFERENCE**

Chetan Bajaj, *Retail Management*, Oxford Publication

Michael Levy and Barton A Weitz, *Retailing Management*, Tata Mc Graw Hill, New Delhi, latest edition

Natarajan, *Retail Marketing*, Margham Publication, Chennai, latest edition

Uniyal and Sinha, *Retail Management*, Oxford Publication

**NOTE:** Latest edition of Books to be used

## **JOURNALS**

Journal of Retailing- Elsevier

International Journal of Retailing and Distribution Management

International Journal of Retailing Management and Research

The International Review of Retail, Distribution and Consumer Behaviour

## **WEB RESOURCES**

[www.managementstudyguide.com/retail-management](http://www.managementstudyguide.com/retail-management)

[www.knowthis.com/retailing](http://www.knowthis.com/retailing)

[www.yourarticlelibrary.com](http://www.yourarticlelibrary.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:      Total Marks: 50**

**Duration: 90 minutes**

Section A- 7x2 =14 Marks(no choice)

Section B- 2x8 =16 Marks(from a choice of three)

Section C- 1x20= 20 Marks(from a choice of two)

**Other Components:      Total Marks: 50**

Seminars/Quiz/Group Discussions/Assignments/Class Presentation

**End Semester Examination:      Total Marks: 100**

**Duration: 3 hours**

Section A- 10x2 =20 Marks (no choice- Max 30 words)

Section B- 5x8 =40Marks (from a choice of seven- Max 500 words)

Section C- 2x20= 40Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**EQUITY INVESTMENT AND STOCK TRADING**

**CODE: 19CM/ME/ES45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with adequate knowledge of both investment theory and practices
- To expose students to the framework of modern portfolio and investment analysis for critical evaluation
- To familiarise students with the practical perspective of the trading strategies and tools used for analysis of investment in the stock market

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Obtain comprehensive knowledge on types of stocks, exchanges, brokerage accounts, order types, bull/ bear markets, primary and secondary market
- Design investment decisions based on available evidence and analysis
- Understand the benefits of diversification of individuals portfolio
- Comprehend the operations of the security markets and mechanics of trading

**Unit 1**

**Introduction to Investment**

**(10 Hours)**

- 1.1 The Investment Environment – Securities, Risk, Return and Diversification, Financial Intermediaries and Security Markets
- 1.2 Types of Investment
- 1.3 Investment Process – Investment Policy, Security analysis, Portfolio Construction, Revision and Performance Evaluation
- 1.4 Concept of Return and Risk-Tradeoff between Return and Risk, Impact of Taxes and Inflation Return

**Unit 2**

**Investing Fundamentals**

**(15 Hours)**

- 2.1 Indian Security market – The Market Participants, Trading Security, Security Market Indices
- 2.2 Stock Exchange in India
- 2.3 Sources of Financial Information
- 2.4 Basic Concepts- Margin, Shorting, Stock Splits, Market Capitalisation, Dividends, Stock Market Psychology
- 2.5 Other Investments – Options, Futures, International Investing

### **Unit 3**

#### **Approaches of Equity Analysis**

**(15 Hours)**

- 3.1 The Layers of Equity Evaluation
- 3.2 Equity Portfolio Management
- 3.3 Fundamental analysis – Establishing the Value Benchmark
- 3.4 Technical Analysis and Efficient Market Hypothesis

### **Unit 4**

#### **Stock Analysis**

**(15 Hours)**

- 4.1 Types of Trading-Day Trading, Short Term, Medium Term and Long Term Trading
- 4.2 Stock Quotation, Types of Placing of Order
- 4.3 Analysis of Company – Ratio Analysis, Future Prospectus of the Company, Assessing Quality Using Financial and Non- Financial Data and Balance Sheet

### **Unit 5**

#### **Stock Valuation**

**(10 Hours)**

- 5.1 Stock Valuation- using PE ratio, PEG Ratio, Price Revenue Ratio
- 5.2 Use of Historic Price – Simple Moving Average, Basic and Advanced Interactive Chart
- 5.3 Stock Picking Strategies
- 5.4 Examining the Share Holding Pattern of The Company
- 5.5 Pitfalls to avoid while Investing

### **BOOKS FOR STUDY**

Gordan Alexander., William F. Sharpe., Bailey., *Fundamentals of Investment*, 2<sup>nd</sup> Edition, PHI,1993

Chandra Prasanna, *Investment Analysis and Portfolio Management.*, Tata McGraw-Hills

Bodie. Zvi, Kane Alex., Marcus. Alan., *Investments*, McGrawHills Eduaction, 2017

Jack D. Schwager., *The Little Book of Market Wizard.*, Wiley., 2016

### **BOOKS FOR REFERENCE**

Jones.,C.P., *Investment Analysis and Management.*, Wiley

Fischer, Donald E. and Ronald . J Jordan, *Security Analysis and Portfolio Management*, 6<sup>th</sup> Edition, Prentice Hall of India, 2007

Bhalla, V.K., *Investment Management*, S. Chand & Co.

Vohra, N.D; abd B R Bagri, *Futures and Options*, Tata McGraw Hills Publishing

### **JOURNALS**

Investopedia

Investor's Business Daily

Dalal Street Investment

Journal of Investing

## WEB RESOURCES

[www.nseindia.com](http://www.nseindia.com)

[www.bsebti.com](http://www.bsebti.com)

[www.moneycontrol.com](http://www.moneycontrol.com)

[www.yahoofinance.com](http://www.yahoofinance.com)

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes**

Section A -  $7 \times 2 = 14$  (no choice)

Section B -  $2 \times 8 = 16$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components:**                      **Total Marks: 50**

Assignments/Seminars/Building Portfolio/Class Presentation

**End Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 Words)

Section B –  $5 \times 8 = 40$  Marks (From a choice of seven questions – Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (From a choice of four questions – Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS) - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**SUPPLY CHAIN AND LOGISTICS MANAGEMENT**

**CODE: 19CM/ME/SL45**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students an understanding of the framework of supply chain network and functions
- To familiarizes students with documentation relating to logistics
- To provide knowledge to the students on the role of logistics in market oriented society

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Analyze the issues in logistics management
- Understand the concept of customer service application of logistics information
- Gain expertise on the concepts of Inventory Management
- Evaluate the role of E- business in supply chain

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Role of Logistics and Supply Chain Management – Scope and Importance
- 1.2 Evolution of Supply Chain- Decision Phases in Supply Chain
- 1.3 Drivers of Supply Chain Performance and Obstacles

**Unit 2**

**Supply Chain Network**

**(12 Hours)**

- 2.1. Role of Distribution in Supply Chain- Factors influencing Distribution Network
- 2.2. Source Evaluation- Collaborative Perspective, Supplier and Buyer Relationship
- 2.3. Inventory Management in Supply Chain–Concept, Cost associated with Inventory and Methods and Techniques of Inventory Control

### **Unit 3**

#### **Logistics in Supply Chain (12 Hours)**

- 3.1. Role of Transportation in Supply Chain- Factors affecting Transportation
- 3.2. Decision- Design options for Transportation Network, Routing
- 3.3. Scheduling and Transportation- Indian Transportation System
- 3.4. Transportation Document- CFS (Container Freight Station) ICDS (Inland Container Depot)

### **Unit 4**

#### **Sourcing and Co-ordination in Supply Chain (15 Hours)**

- 4.1. Role of sourcing in Supply Chain- Supply selection Assessment and Contracts
- 4.2. Source planning and analysis- Bull Whip Effect
- 4.3. Supply Chain Co-ordination- Effect of lack of co-ordination, Obstacles
- 4.4. Building Strategic Partnership and Trust within a Supply Chain

### **Unit 5**

#### **International Logistics and Supply Chain Management (16 Hours)**

- 5.1. Global Supply Chain Integration- Role of Government in controlling International trade
- 5.2. Role of IT in Supply Chain- Internal Supply Chain Management, Supplier Relationship Management
- 5.3. Future of IT in Supply Chain, E- Business in Supply Chain

### **BOOKS FOR STUDY**

Sunil Chopra, Peter Meindl and Kalra, *Supply Chain Management Strategy, Planning and Operation*, Pearson Education 2010

D.K.Agarwal, *Textbook of Logistics and Supply Chain Management*, Laxmi Publications, 2003

### **BOOKS FOR REFERENCE**

Joel D. Wisner G. Keong Keah Chaontan., *Principles of Supply Chain Management a balanced approach*, 3<sup>rd</sup> edition 2011.

Bowersox, *Logistics Management* McGraw Hill 2013

Srinivasan G. S., *Quantitative Models in Operations and Supply Chain Management* PHI 2010

Martin Christopher, *Logistics and Supply Chain Management*, Prentice Hall, 2011

### **JOURNALS**

International Journal on Supply Chain Management

International Journal of Physical Distribution and Logistics management

## **WEB RESOURCES**

[www.esourcingforum.com](http://www.esourcingforum.com)

[www.supplychaindigital.com](http://www.supplychaindigital.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes.**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:**

**Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**General Elective Course Offered by the Department of Commerce to students of**  
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**SYLLABUS**  
**(Effective from the academic year 2019 – 2020)**

**FUNDAMENTALS OF INVESTMENT PLANNING**

**CODE: 19CM/GE/FI22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS 26**

**OBJECTIVES OF THE COURSE**

- To provide students with an insight of personal finance and to inculcate the habit of savings
- To enable students to develop skills for analyzing and planning personal investments
- To emphasize students, the need for making Savings and Investment.
- To familiarise the students with various Investment avenues available.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Understand the basics of personal savings and investment plan
- Understand the Personal Financial Management
- Identify the various investment alternatives
- Develop the skills to take advantage of favorable Investment opportunities

**Unit 1 (10 Hours)**

**Introduction to Financial Planning**

- 1.1 Financial planning – Meaning and Importance
- 1.2 Investment- Definition, Nature, Factors Influencing Investment.
  - 1.2.1 Financial Planning- Meaning and Importance
  - 1.2.2 The Personal Financial Planning Process, Preparation of Personal Budget
- 1.3 Personal Financial Statements, tax planning and legal aspects of financial planning
- 1.4 Investment Media, Principles, Avenues and Modes.

**Unit 2 (8 Hours)**

**Investment options and operational scenario.**

- 2.1 Needs and benefits of investing
- 2.2 Sources of financial information
- 2.3 Personal Savings & Investment: Investment Criteria- Liquidity, Safety and Profitability, Savings and Instruments of Post Office and Banks. Chit Funds. Investment in Shares, Debentures, Corporate and Government Bonds
- 2.4 Systematic Investment Planning, National Pension Scheme, Public Provident Fund (Retirement Savings Plans, Pension Plans)

## Unit 3

(8 Hours)

### Insurance and Risk Management

3.1 Analysis of Risk in Investment (Theory)

3.2 Insurance Contract: Life Insurance Contract- Features, Policy, Conditions and General Insurance Plans and Products

### BOOKS FOR STUDY

Madhu Sinha, *“Financial Planning: Theory and Practice”* Tata McGraw-Hill Publishing Company Ltd, New Delhi

Ankit Gala and Khushboo, *“Investment Planning”* Buzzing Stock Publishing house, Mumbai

### BOOKS FOR REFERENCE

Dr. P.K. Gupta, *Insurance and Risk Management”* , Himalaya Publishing House, Mumbai

Ranganathan and Madhumathi, *Investment Analysis and Portfolio Management*, Pearson, New Delhi

Risk analysis, Insurance and Retirement Planning; Taxmaan; 2017

Information Brouchers of Post Offices, Banks, Mutual Funds, Insurance Companies

### JOURNALS

Journal of Financial Planning

Journal of Personal Finance

The Journal of Investing

### WEB RESOURCES

[www.moneycontrol.com](http://www.moneycontrol.com)

[www.investopedia.com](http://www.investopedia.com)

[www.amfiindia.com](http://www.amfiindia.com)

[www.nationwide.com](http://www.nationwide.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 90 minutes**

**Other Components:**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Class Presentation

### No End Semester Examination

SE, SEBI, RBI, IRDA, AMFI etc.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

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**SYLLABUS**

(Effective from the academic year 2019 -2020)

**CUSTOMER CARE AND PROTECTION**

**CODE: 19CM/GE/CC22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To sensitize students to the need for customer protection
- To provide an understanding to the students about the legal measures for customer protection in India
- To understand the role of different agencies in establishing product and service standards
- To analyze the Consumer Awareness Programmes in India

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Acquaint with their rights as a Consumer
- Understand the procedures to redress Consumer Complaints
- Comprehend the basic procedures for handling Consumer Dispute
- Gain knowledge about the emerging issues and policies relating to Consumer Protection

**Unit 1 (8 Hours)**

**Conceptual Framework**

**1.1 Consumer and Markets**

1.1.1 Concept of Consumer, Nature of Market

1.1.2 Concept of Price – Wholesale and Retail, Maximum Retail Price

1.1.3 Labelling and Pricing

**1.2 Customer Satisfaction and Dissatisfaction-Factors**

**1.3 Rights of the Consumers**

**Unit 2**

**Grievance Redressal Mechanism (10 Hours)**

2.1 Types of Complaints-Frivolous Complaints and Vexatious Complaints

2.2 Grounds of Filing a Complaint, Procedure, Relief, Legal and Voluntary Measures

2.3 Doctrine of Caveat Emptor, Caveat Emptor Venditor

2.4 Role of the Media and Government

**Unit 3****Consumer Protection in India****(8 Hours)**

3.1 Recent Developments in Consumer Protection in India

3.2 COPRA

3.3 Legal Cases in India

3.3.1 Banking- RBI and Banking Ombudsman

3.3.2 IRDA

3.3.3 Telecommunication-TRAI

3.3.4 Food Products-FSSAI

3.3.5 Advertising-ASCI

**BOOKS FOR STUDY**

Dr. Roopa Om Mathur-*Consumer protection* - Vayu Education of India.

Agarwal V.K. *Consumer Protection Law and Practice*, 5th ED, New Delhi. BLH Publishers, Distributors Pvt Ltd 2009

**BOOKS FOR REFERENCE**

Barowalis JN *Commentary on the consumer Protection Act*, 3rd Ed, Delhi. Universal Law Publishing Co. Pvt Ltd 2008

Dugar SM *Commentary on Consumer Protection Law*, Vol.2. 4th Ed, Nagpur. Wadha and Company 2006

Gambhir Cheena, *Consumer Protection Administration - Organization and Working*, New Delhi. Deep and Deep Publication Pvt Ltd 2007

**JOURNALS**

Consumer Protection Judgements (CPJ)

Recent Issues of Magazines-Insite

Consumer Voice

**WEB RESOURCES**

[www.ncdrc.nic.in](http://www.ncdrc.nic.in)

[www.trai.gov.in](http://www.trai.gov.in)

[www.fssai.gov.in](http://www.fssai.gov.in)

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 25****Duration: 1 hour****Other Components****Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

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**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**SOCIAL MEDIA MARKETING**

**CODE: 19CM/GE/SM22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To provide students an insight into the nature and scope of social media marketing
- To enumerate students the different forms of social media
- To provide students an outline about content marketing

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Demonstrate how to use social media as a marketing tool
- Define the role of social media marketing in the promotion mix
- Influence brand awareness by leveraging multiple social media channels
- Formulate a social media marketing strategy suited for their needs

**Unit 1 (8 Hours)**

**Introduction**

- 1.1 Introduction to Social Media- Meaning, Scope, Importance and Relevance of Social Media Marketing
- 1.2 Benefits and Pitfalls of Social Media Marketing
- 1.3 Role of Social Media Marketing- Goals and Strategies

**Unit 2 (10 Hours)**

**Social Media Channels**

- 2.1 Social Media Platforms- Facebook, Blogs, Microblogging, Twitter, YouTube, Instagram and LinkedIn, Pinterest, Google+, Foursquare, Snapchat and Customer Personas
- 2.2 Social Book Marking
- 2.3 Social Listening- an Insight

**Unit 3 (8 Hours)**

**Content Marketing**

- 3.1 Meaning and its Importance
- 3.2 Types of Social Media Content- Interactive Content, Strongly Positive Content, Visual Content and User Generated Content, e-Books

## **BOOKS FOR STUDY**

Social Media Marketing: *A Strategic Approach*, 2E. Barker, Barker, Bormann and Neher,  
2017 South-Western, Cengage Learning,

David Meerman Scott, *The New Rules of Marketing & PR*, 5th Edition.

## **JOURNALS**

Journal of Digital and Social Media Marketing

Indian Journal of Marketing

## **WEB RESOURCES**

<http://www.socialmediatoday.com>

[www.searchengineland.com](http://www.searchengineland.com)

<http://smallbusiness.yahoo.com>

<http://brand24.com>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 90 minutes**

**Other Components:**

**Total Marks: 25**

Quiz / Group Discussions/ Assignments /Class Presentation

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the Department of Commerce to students of  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**BANKING PRACTICES**

**CODE:19CM/GE/BP22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To educate the students on the new developments in the banking sectors
- To provide the students an opportunity to understand the significance of banking services
- To acquire knowledge and skills for practical banking operations
- To facilitate learning of banking practices with special focus on Customer banking operations

**COURSE LEARNING OUTCOMES**

On successful completion of this course students will be able to

- Open and operate Bank account
- Familiarize on various negotiable instrument dealt in banking business
- Comprehend knowledge on e- banking and importance in today's scenario
- Avail various services offered by banks

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 An Overview of Banking System in India – Commercial Bank -Functions and Services
- 1.2 Types of Bank Accounts-Opening of Bank Accounts
- 1.3 Forms of Lending-Loans-Types of Loans
- 1.4 Closing of Bank Accounts – Procedure

**Unit 2 (8 Hours)**

**Documents used in Banking**

- 2.1 Importance of Documentation
- 2.2 Application Form for Opening of Accounts - Saving Bank (SB), Fixed Deposit, Current Account and Recurring Deposit, KYC
- 2.3 Pay In Slip, Withdrawal Slip, Demand Draft Applications, Cheque, Demand Loans, etc.
- 2.4 Application for Closing of Accounts and Transfer of Funds

**Unit 3 (8 Hours)**

**E- Banking**

- 3.1 Meaning and Importance of Net Banking.
- 3.2 Internet Banking, Mobile Banking, Telebanking Banking, Point of Sale Terminal

- 3.3 Credit Card, Debit Card, Smart Card, NEFT, E-Wallet
- 3.4 Automated Teller Machine and its Advantages
- 3.5 Electronic Fund Transfer, Electronic Clearing Services
- 3.6 Digital Signature

### **BOOKS FOR STUDY**

Gurusamy S. *Banking Theory Law and Practice*. 2<sup>nd</sup> ed. Chennai: Vijay Nicole, 2015.

P.N Varshney. *Banking Theory Law and Practice*. 22<sup>nd</sup> ed. New Delhi: Sultan Chand, 2017

### **BOOKS FOR REFERENCE**

Indian Institute of Banking and Finance, Principles and Practices of Banking, Macmillan Education, 2015.

Gordon E. and K.Natarajan. *Banking Theory Law and Practice*. 19<sup>th</sup> ed. Mumbai: Himalaya, 2016.

Sundharam K.P.M. and P.N Varshney. *Banking Theory Law and Practice*. 22<sup>nd</sup> ed. New Delhi: Sultan Chand, 2015.

### **JOURNALS**

Journal of Banking and Finance

Banking and Financial Services – The Business Journals

International Journal on Electronic Banking

### **WEB RESOURCES**

[www.academia.edu](http://www.academia.edu)

[www.lawhandbook.sa.gov](http://www.lawhandbook.sa.gov)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 90 minutes**

**Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

**No End Semester Examination**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course Offered by the Department of Commerce to students of  
B.A / B.Sc. / B.Com. / B.Com CS/ B.Com A & F/ B.C.A. / B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**E-FILING OF RETURNS**

**CODE:19CM/GE/EF22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To provide the students the conceptual and practical knowledge about electronic filing of returns
- To educate the students on basics of taxation laws
- To enable students to be self-reliant in individual tax calculation

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Compute the tax liability of an individual
- File taxes online (e-filing)
- Ascertain the taxable income of individual
- Comprehend with the taxable provisions

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 An Overview of Computation of Income tax under the Five Heads of Income
- 1.2 E-Filing – Meaning, Importance and Difference between E-Filing and Regular Filing of Returns
- 1.3 Benefits and Limitations of E-Filing
- 1.4 Types of e-Filing - e-File without Digital Signature Certificate. e-File the Income Tax Return (ITR-V) through an e-Return Intermediary (ERI) with or without Digital Signature Certificate (DSC) and Use Digital Signature Certificate (DSC) / EVC

**Unit 2**

**E-Filing Process**

**(5 Hours)**

- 2.1 Registration to E-portal through log in (ADHAR, PAN, TAN, TIN and DIN)
- 2.2 Recording and uploading of Documents
- 2.3 E-file ITR
- 2.4 E-Verify

**Unit 3**

**E-Payment of Tax**

**(11 Hours)**

- 3.1 Tax Payment through Online Banking
- 3.2 Procedure to adjust Advance Tax
- 3.3 Refund - Procedure

**BOOKS FOR STUDY**

Swatantra Sethi, *Self-Preparation and Filing of Income Tax Returns by Individuals* Kindle Edition, 2018

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi, Kalyani Publishers,

**BOOKS FOR REFERENCE**

Lal B.B., *Income Tax Law and Practice*, , , Konark Publishers Limited, New Delhi

Manoharan T. N. *Income Tax Law*, Mumbai, Snow White Publications

Mehrothra, H.C., *Income Tax Law and Practicum*, , Sahithya Bhavan Publications, Agra

Vinod K., Singhanian, *Taxman's Students Guide to Income Tax*, Taxman's Publications Pvt. Ltd., New Delhi

Vinod K., Singhanian, *Indirect tax*, 2014-15 Taxman's Publications Pvt. Ltd., New Delhi

**NOTE:** Latest edition of the readings may be used

**JOURNALS**

Journal of taxation

National tax journal

**WEB RESOURCES**

[www.ntanet.org/tax](http://www.ntanet.org/tax)

[www.aicpa.org](http://www.aicpa.org)

[www.icaew.com](http://www.icaew.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 90 minutes**

**Other Components:**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**DIRECT SELLING**

**CODE: 19CM/UI/DS23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To enlighten students on the basic concepts of Direct Selling
- To create awareness among the students about Sales related Policies
- To equip the students with the skills of Personal Selling Strategies
- To sensitise the students to the need for Sales Organisation

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Learn the art of selling an idea
- Create market and expand the market
- Develop the overall personality of a salesman
- Effectively plan, organize and coordinate Sales force

**Unit 1**

**Introduction**

- 1.1 Personal Selling – Meaning and Objectives, Advantages and Criticisms
- 1.2 Difference between Personal Selling and Salesmanship
- 1.3 Salesmanship as an art, science and profession
- 1.4 Personal Selling Process

**Unit 2**

**Theories of Selling**

- 2.1 'AIDAS' – Right set of circumstances
- 2.2 'Buying Formula' – Behavioral Equations
- 2.3 Selling skills – Interpersonal skills – Negotiations and Communications Skills

**Unit 3**

**The Sales Organisation**

- 3.1 Purpose of Sales Organisation
- 3.2 Basic Types of Sales Organisations
- 3.3 Sales personality – qualities and traits

## **Unit 4**

### **Selling Methods**

4.1 Process of Selling

4.2 Sales Meeting and Sales contests

## **Unit 5**

### **Sales Performance and Compensation**

5.1 Evaluation of sales performance – Qualitative and Quantitative methods

5.2 Types of Compensation plans

## **BOOKS FOR STUDY**

Still Cundiff and Govoni , Sales Management – Decisions Strategies and cases ,  
2005 Saravanel .P and Sumathi .S ,Advertising and Salesmanship , 2017

## **BOOKS FOR REFERENCE**

Gandhi J.C, Marketing – A managerial Introduction,Tata Mc Graw Hill,  
2006 Bernard Katz, How to turn Customer Service into Customer Sale ,2006  
Frank S. Sailsbury , Sales Training – A guide to develop effective sales people,2006  
Richard H. Buskirk,Bruce D. Nuskirk ,Selling Principles and Practices TMH,2007  
Phophalia A.K, Sales Management – Concepts Principles and Practices

## **JOURNALS**

Journal of Personal selling and Sales  
Management Journal of Marketing  
Journal of Marketing Research

## **WEB RESOURCES**

[www.researchgate](http://www.researchgate.net)  
[www.jpsssm.org](http://www.jpsssm.org)  
[www.scimogojr.com](http://www.scimogojr.com)

## **PATTERN OF ASSESSMENT**

### **End Semester Examination:**

Section A – 10 X 2 = 20 Marks

Section B – 5 X 8 = 40 Marks

Section C – 2 X 20 = 40 Marks

**Total Marks: 100**

**Duration: 3 hours**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**CONSUMER RIGHTS**

**CODE: 19CM/UI/CR23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To provide knowledge about consumerism and related laws
- To enable an understanding of the importance of consumer rights
- To educate students on the rights and responsibilities of a consumer

**COURSE LEARNING OUTCOMES**

On successful completion of this course students will be able to

- Identify the need for consumer protection and the areas covered by consumer protection law
- Learn and evaluate the various forms of consumer exploitation
- Analyse and evaluate the rights of the consumer
- Understand the business malpractices and legislative regulations to protect consumers.

**Unit 1**

**Consumers**

- 1.1 Meaning of Consumers-Customers
  - 1.1.1 Consumer Movements – Historical Perspectives
  - 1.1.2 Concept of Consumerism – Need and Importance

**Unit 2**

**Consumer Exploitation**

- 2.1 Meaning, Causes of Consumer Exploitation
- 2.2 Forms of Consumer Exploitation – Underweight Measures, High Prices, Substandard Quality, Poor or Inadequate After Sales Services
- 2.3 Challenges of Consumer Exploitation

**Unit 3**

**Consumer Rights and Duties**

- 3.1 Consumer Rights – John F Kennedy's Consumer Bill of Rights
- 3.2 Types of Consumer Rights – (Right to Safety, Right to Information (RTI), Right to Redressal, Right to Consumer Education)
- 3.3 Duties of Consumers

**Unit 4**

**Copra Act 1986**

- 4.1 Introduction to COPRA Act
- 4.2 Consumer Protection Council – Central, State, Districts Consumer Protection Councils
- 4.3 Consumer Dispute Redressal Procedure

## **Unit 5**

### **Consumerism in India**

- 5.1 Reasons for the Growth of Consumerism in India
- 5.2 Recent Trends in Consumerism
- 5.3 Problems Faced by Consumers in India – Case Studies

### **BOOKS FOR STUDY**

Mohammed Kamalun Nabi, Mohammed Irshadun Nabi, Kishore C. Raut, Consumer Rights & Protection in India, New Century Publications, 2015.

Steven Miles, Consumerism: As a Way of Life, SAGE Publications Ltd, 2012.

### **BOOKS FOR REFERENCE**

Anirban Chakraborty. Law of Consumer Protection Advocacy and Practice. India: Lexis Nexis, 2014.

Miller C.J., Brian W. Harvey, Deborah L Parry. Consumer and Trading Law. Oxford University, 1998.

Rajyalakshmi Rao. Consumer is king!! Know your rights and remedies. Universal, 2012.

Rao, Y.V. Commentary on Consumer Protection Act. Asia House, 2013

### **JOURNALS**

Journal of Consumer Policy

International Journal of Consumerism

Journal of Consumer Affairs

### **WEB RESOURCES**

[www.researchgate.net](http://www.researchgate.net)

[www.jpsssm.org](http://www.jpsssm.org)

[www.scim](http://www.scim)

### **PATTERN OF ASSESSMENT**

#### **End Semester Examination:**

Section A – 10 X 2 = 20 Marks

Section B – 5 X 8 = 40 Marks

Section C – 2 X 20 = 40 Marks

**Total Marks: 100**

**Duration: 3 hours**

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities



**STELLA MAIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086.**

**DEPARTMENT OF COMMERCE**

**PROGRAMME DESCRIPTION**

**B.Com. (GENERAL)**

The B.Com. (General) degree programme equip students with the knowledge and technical skills necessary to understand and participate in the modern business world. The programme allows the students' to critically evaluate and improve decision making skills.

It provides foundation for students who aspire to pursue professional courses such as CA, ICWA, CMA, ACCA, CFA and MBA. It enables the students to equip themselves for careers. It enables them to develop entrepreneurial skills and thus manage their own business effectively. To strengthen their skills and knowledge, workshops, seminars, guest lectures, business quizzes and mock interviews are conducted during the course of study. Apart from the academics, multiple cultural and social activities such as intra-departmental, inter-collegiate cultural and social and environmental awareness programmes are conducted for holistic development and to create a sense of community.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of this programme, students will be able to

- understand the procedures relating to the preparation of financial statements and to utilise their knowledge and solve practical problems
- apply the techniques of management in their day to day managerial activities
- understand the methods of ascertaining product cost with practical knowledge on various costing techniques
- analyse the business situation using statistical tools
- apply the tools and techniques to arrive at rational decisions
- perform their personal banking functions
- demonstrate understanding about the fundamentals of financial services and players in financial sectors
- understand the principles of law relating to economic, FEMA, IPR and environment protection law that is essential to manage business transactions
- analyse the scenario in the Indian financial system and its operations and regulations

- demonstrate necessary skills to identify various investment alternatives and to take advantage of favorable investment opportunities
- present financial reports for forecasting and managerial decision making
- use the accounting packages, such as Tally for effective decision-making and improved performance
- demonstrate and acquaint students with the fundamental principles of company law and to expose students to the statutory provisions relating to the formation and management of a company
- demonstrate knowledge of insight into various concepts like capital structure planning cost of capital, dividend policies and working capital
- analyse the concepts and factors affecting human resource planning, recruitment and selection
- demonstrate an understanding of the conceptual framework of marketing and its applications in decision making under various environmental constraints
- provide an overview of the fundamental concepts of e-commerce and to understand the web based business models and the e-commerce business applications
- demonstrate interpersonal communication, business etiquette and business relationship building skills
- acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements
- understand the computation of income taxable under different heads
- demonstrate comprehensive knowledge on the various aspects related to entrepreneurial development and to manage new business ventures
- understand and evaluate the audit process and procedures
- show knowledge of Corporate Social Responsibility (CSR) initiatives
- understand the importance of international business and impact of globalization
- acquire a wide range of exposure and gainful insights across various disciplines from the general elective courses offered by other departments

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Com. DEGREE: COMMERCE (GENERAL) - SHIFT II**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19CM/MC/FA13	Financial Accounting	3	3	1	0	3	50	50	100
19CM/MC/PM13	Principles and Practice of Management	3	3	1	0	3	50	50	100
19CM/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
<b>Allied Core Offered to the Department of Computer Science</b>									
19CM/AC/EN15	Entrepreneurship-New Venture Creation	5	5	0	0	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
<b>SEMESTER-II</b>									
19CM/MC/CT24	Cost Accounting	4	4	1	0	3	50	50	100
19CM/MC/BI23	Banking and Insurance Services	3	3	1	0	3	50	50	100
19CM/AC/BS25	Business Statistics	5	5	0	0	3	50	50	100
19CM/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
19CM/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
<b>Allied Core Offered to the Department of Computer Science</b>									
19CM/AC/AB25	Accounting for Business	5	5	0	0	3	50	50	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
<b>SEMESTER-III</b>									
19CM/MC/LB34	Legal Environemnt of Business	4	4	1	0	3	50	50	100
19CM/MC/FK34	Financial Markets	4	4	1	0	3	50	50	100
19CM/MC/MA34	Management Accounting	4	4	1	0	3	50	50	100
19CM/MC/IP33	Investment Planning	3	3	1	0	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
<b>SEMESTER-IV</b>									
19CM/MC/FM44	Financial Management	4	4	1	0	3	50	50	100
19CM/MC/MG44	Marketing	4	4	1	0	3	50	50	100
19CM/MC/CL44	Company Law	4	4	1	0	3	50	50	100
19CM/MC/HR43	Human Resource Management	3	3	1	0	3	50	50	100
19CM/AC/CF45	Computer Application in Finance	5	2	0	4	3	50	50	100
	Major Elective I								
<b>SEMESTER-V</b>									
19CM/MC/CA54	Corporate Accounting	4	4	1	0	3	50	50	100
19CM/MC/IT54	Income Tax Law and Practice	4	4	1	0	3	50	50	100
19CM/MC/EM53	E-Enterprise Management	3	3	1	0	3	50	50	100
19CM/MC/BC53	Business Communication	3	3	1	0	3	50	50	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Com. DEGREE: COMMERCE (GENERAL) - SHIFT II**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Inter Disciplinary Core Course(B.Com(Gen.) and A&F to students of B.Com(Gen) and A&F									
19ID/IC/SI55	Social Finance and Impact Investing	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100
SEMESTER-VI									
19CM/MC/BR63	Business Ethics and Social Responsibility	3	3	1	0	3	50	50	100
19CM/MC/IB64	International Business	4	4	1	0	3	50	50	100
19CM/MC/ED64	Entrepreneurial Development	4	4	1	0	3	50	50	100
19CM/MC/AG64	Auditing	4	4	1	0	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV	2	2	0	0	-	50	-	100
	Major Elective II								
Major Elective Courses									
19CM/ME/BE45	Business Environemnt	5	5	0	0	3	50	50	100
19CM/ME/IT45	Indirect Taxation	5	5	0	0	3	50	50	100
19CM/ME/AM45	Advertising and Media Management	5	5	0	0	3	50	50	100
19CM/ME/RM45	Retail Management	5	5	0	0	3	50	50	100
19CM/ME/ES45	Equity Investment and Stock Trading	5	5	0	0	3	50	50	100
19CM/ME/SL45	Supply Chain and Logistics Management	5	5	0	0	3	50	50	100
General Elective Courses									
19CM/GE/FI22	Fundamentals of Investment Planning	2	2	0	0	-	50	-	100
19CM/GE/CC22	Customer Care and Protection	2	2	0	0	-	50	-	100
19CM/GE/SM22	Social Media Marketing	2	2	0	0	-	50	-	100
19CM/GE/BP22	Banking Practices	2	2	0	0	-	50	-	100
19CM/GE/EF22	E-Filing of Return	2	2	0	0	-	50	-	100
Independent Elective Courses									
19CM/UI/DS23	Direct Selling	3	0	0	0	3	-	100	100
19CM/UI/CR23	Consumer Rights	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**B. COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**FINANCIAL ACCOUNTING**

**CODE: 19CM/MC/FA13**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To provide the students conceptual knowledge about the Accounting Standards and basic concepts of financial accounting.
- To enable students to prepare the financial Statements for internal and external Reporting.
- To equip the students with the skill in preparing Accounts for different types of business entities.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Create a complete record of Business transactions
- Prepare and examine the Income Statement
- Analyse the Financial Position
- Provide relevant financial information from the financial statements for decision making

**Unit 1 (8 Hours)**

**Conceptual Framework for Preparation of Financial Statements**

- 1.1 Introduction to Accounting Standards and Indian Accounting Standards
- 1.2 Accounting Standards - International Accounting Standards, Accounting Standards in India – Objectives, Process, Accounting Standards Board, Scope & Application of AS – 1,2,3,4,5,9,10,26 & 29 in Preparation of Financial Statements
- 1.3 Difference between Accounting Standards and Indian Accounting Standards
- 1.4 Preparation of Final Accounts of Sole Proprietor
  - 1.4.1 Closing Entries and Adjustment Entries
  - 1.4.2 Adjustments - Loss of Stock by Accident or Fire, Manager's Commission on Net Profit before and after Commission, Works Manager and General Manager Commission, Writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax

**Unit 2 (10 Hours)**

**Conversion of Partnership**

- 2.1 Amalgamation – Accounting Procedure
  - 2.1.1 Closing the Books of the Old Firm
  - 2.1.2 Opening the Books of the New Firm
- 2.2 Conversion of Partnership Firm into a Company and sale to a Company
- 2.3 Apportionment of Share among the Partners
- 2.4 Accounting for Limited Liability Partnership on Conversion

### **Unit 3**

#### **Branch Accounts and Departmental Accounts**

**(12 Hours)**

##### 3.1 Branch Accounts

###### 3.1.1 Features

###### 3.1.2 Methods of Accounting - Debtors System, Stock and Debtor System

##### 3.2 Independent Branches – Features, Adjusting Entries in the Books of Head office and Branch

##### 3.3 Departmental Accounts

###### 3.3.1 Concept and Distinction between Departments and Branches

###### 3.3.2 Preparation of Departmental Accounts

###### Preparation of Departmental Trading and Profit and Loss Account

###### 3.3.3 Inter Departmental Transfer of goods at cost, Cost Plus Profit and at Selling Price and Elimination of Unrealised Profit.

### **Unit 4**

**(10 Hours)**

#### **Accounting for Hire Purchase and Joint Venture**

##### 4.1 Meaning- Features of Hire Purchase Agreement -Distinction between Hire Purchase and Sale

###### 4.1.1 Interest calculations

###### 4.1.2 Recording transaction in the books of Hire Purchaser and the Hire Vendor

##### 4.2 Default and Repossession - Partial Repossession and Complete Repossession

##### 4.3 Joint Venture- Accounting Procedures

### **Unit 5**

**(12 Hours)**

#### **Insurance Claim for Loss of Stock and for Loss of Profit**

##### 5.1 Insurance Claim for Loss of Stock

###### 5.1.1 Concept of Under Insurance and Average Clause

###### 5.1.2 Computation of claim -with Price Change, Consideration of Unusual Selling Line and Price Reduction

##### 5.2 Insurance Claim for Loss of Profit

###### 5.2.1 Concept – Insured and Uninsured Standing, Gross Profit Rate, Short Sales and Increased Cost of Working, Average Clause

###### 5.2.2 Computation of Claim

### **BOOKS FOR STUDY**

V.K. Gupta and Gupta R.L, *Financial Accounting (Vol. I)* Sultan Chand and Sons, 2016

Reddy, T. S and A. Murthy, *Financial Accounting*. Margham, 2012

### **BOOKS FOR REFERENCE**

Goyal V.K, *Financial Accounting*. 4<sup>th</sup> Edition, PHI, 2012

Jain S. P and K. L Narang, *Advanced Accountancy*, Kalyani, 2014

Maheshwari S. N and Suneel K Maheshwari, *Financial Accounting* 11<sup>th</sup> Edition, 2018

M Hanif, A Mukherjee, *Financial Accounting 2nd Edition*. Tata Mc Graw Hill 2015

Goyal V. K Ruchi Goyal, *Financial Accounting* 12<sup>th</sup> Edition PHI 2012

## **JOURNALS**

Journal of the Institute of Chartered Accountants of India.

International Journal of in Management and Financial Accounting

Journal of Accounting and Finance: Research Development Association, Jaipur

Journal of Finance - Sage

Journal of Financial Reporting Accounting, Auditing and Finance

## **WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)

[www.emeraldinsight.com](http://www.emeraldinsight.com)

[www.accaglobal.com](http://www.accaglobal.com)

[www.journals.elsevier.com](http://www.journals.elsevier.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 X 2 = 6 Marks (no choice)

Section B – 3 X 8 = 24 (from a choice of four)

Section C – 1 X 20 = 20 (from a choice of two)

**Other Component: Total Marks: 50**

Assignments / Problem Solving

**End Semester Examination: Total Marks: 50**

**Duration: 3 hours**

Section A – 10 x 2 = 20 (Max. 50 words, 5 theory and 5 Problems)

Section B – 5 x 8 = 40 Marks (From a choice of 7 Problems)

Section C – 2 x 20 = 40 Marks (From a choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**PRINCIPLES AND PRACTICE OF MANAGEMENT**

**CODE: 19CM/MC/PM13**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the management practices of the past and present
- To understand the recruitment and selection strategies in organisation
- To enable students to appreciate the contribution made by Management thinkers
- To familiarise students with the recent development in Management

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to:

- Analyze the functions of Management in organizations
- Comprehend the role of effective leaders in an organization
- Apply theoretical concepts into the practical management functions
- Understand the concepts of Accountability, Centralization and working together in teams

**Unit 1**

**Introduction to Management Principles**

**(10 Hours)**

- 1.1 Meaning, Nature, Scope and Importance of Management
- 1.2 Management as Science or Art - Management as Profession - Universality of Management
- 1.3 Management Principles, Functions of Management, Management Roles - Levels of Management, Management Skill- Social Responsibility
- 1.4 Evolution of Management thoughts, Scientific Management, Fayol's Principles of Management, Bureaucracy, Hawthorne Experiment, Contribution of Peter Drucker.

**Unit 2**

**Planning and Decision Making**

**(12 Hours)**

- 2.1 Planning – Meaning, Nature and Importance, Planning Process
- 2.2 Types of Planning - Measures of Effective Planning
- 2.3 Barriers to Effective Plan
- 2.4 Management by Objectives
- 2.5 Decision Making – Meaning - Types of Decisions - Decision Making Process- Individual vs. Group Decision Making - Decision Making Conditions – Creativity



**Unit 3**  
**Organizing, Communication and Human Resources (10 Hours)**

- 3.1 Organizing - Meaning, Organization Structure
- 3.2 Forms of Organization Structure, Departmentation, Task Force- Virtual Organization
- 3.3 Dynamics of Group Behavior, Influence of Group on Individual and Group Decision Making
- 3.4 Staffing -Meaning, Man Power Planning, Recruitment and Selection- Training and Development,
- 3.5 Communication- Meaning, Nature, Elements of Communication, Methods of Communication
- 3.6 Relevance of Information Technology

**Unit 4**  
**Motivation (10 Hours)**

- 4.1 Direction- Meaning, Nature, Scope and Principles of Direction, Supervision
- 4.2 Motivation – Meaning, Nature and Importance of Motivation
- 4.3 Job Design, Job Enrichment, Job Satisfaction, Quality of Work Life
- 4.4 Leadership-Meaning, Importance, Leadership Theories, Leadership Styles

**Unit 5**  
**Controlling (10 Hours)**

- 5.1 Controlling- Meaning, Importance, Controlling Process, Types of Control
- 5.2 Essential of Effective Control System, Behavioral Importance of Control - Control Techniques, Quality Circles

**BOOKS FOR STUDY**

Koontz, *Principles of Management*, Tata McGraw Hill, 8th Edition 2010.

L.M. Prasad, *Principles & Practices of Management* Sultan Chand & Sons , New Delhi, 2015

**BOOKS FOR REFERENCE**

Parkinson C N and Rustomji M K and Sapre S A, *Great Ideas in Management*, 2010

S K Mandal, *Management: Principles and Practice*, Jaico Publishing House, 2013

Khusboo Manoj, *Principles and Practices of Management*, Anmol Publication, 2011

**JOURNALS**

International Journal of Management Review  
SSRN-E-Journal

**WEB RESOURCES**

[www.hbr.org](http://www.hbr.org)  
[www.exed.hbs.edu](http://www.exed.hbs.edu)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Component:                            Total Marks: 50**

Evaluation Modes:

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19CM/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**Allied Core Course Offered by the Department of Commerce (General) for**  
**B.C.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**ENTREPRENEURSHIP - NEW VENTURE CREATION**

**CODE: 19CM/AC/EN15**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To familiarize students with the practical knowledge of establishing a business.
- To provide comprehensive knowledge to the students on the various aspects related to entrepreneurial development
- To help students to understand the stages in the process of setting up the Business
- To enable students to understand the skills required for setting up a new venture

**COURSE LEARNING OUTCOMES**

On successful completion of this Course, students will be able to

- Analyse the business environment in order to identify business opportunities
- Evaluate the effectiveness of different entrepreneurial strategies
- Identify and understand the important elements for the success of entrepreneurial ventures
- Understand the current status of e-business concepts and follow its development

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Business – Meaning and Forms of Business Organization
- 1.2 Role of Small Business in Economic Development
- 1.3 Conceptual Definition of Entrepreneur, Entrepreneurship, Characteristics and Functions of Entrepreneur
- 1.4 Types and Functions of Entrepreneur
- 1.5 Factors influencing entrepreneurship development – Internal and External
- 1.6 Barriers to Entrepreneurship

**Unit 2 (15 Hours)**

**Enterprise Launching**

- 2.1 New Business Launching - Stages
- 2.2 Opportunity Identification and Selection
- 2.3 Idea Generation – Sources and the process of Idea Selection
- 2.4 Business Plan – meaning, contents and significance of business plan
- 2.5 Assessment of project feasibility - Dealing with basic and initial problems of setting up of Enterprises
- 2.6 Drafting a Model Project / Business Plan

**Unit 3**  
**Financing of Enterprise (15 Hours)**

- 3.1 Meaning, Need for Financial Planning
- 3.2 Sources of finance – Internal, External sources
- 3.2 Institutions Assisting Business Enterprise – Government, Banking and Non Banking Institutions, Lease Financing and New Venture Financing

**Unit 4**  
**Management of Enterprise (15 Hours)**

- 4.1 Management – Meaning and Functions of Management
- 4.2 Production Management – Product Design, Plant Layout and Location
- 4.3 Inventory Management – Meaning, Objectives and Benefit
- 4.4 Marketing Management – Problem of Marketing of Small Enterprises

**Unit 5**  
**E – Business (10 Hours)**

- 5.1 Meaning, Development and the Economic Influence of the E-Business
- 5.2 Fundamentals in E -Business
- 5.3 Planning E-Products and Services
- 5.4 Operation of E-Business - E – Payment and E-Security

**BOOK FOR STUDY**

S.Khanka, Entrepreneurial Development, S. Chand & Co, New Delhi, 2016

**BOOKS FOR REFERENCE**

Nanda Gopal V B, Gordon. E, Gupta Entrepreneurial Development, Vikas Publishing 2015

Jayashree Suresh, Entrepreneurial Development, Margham Publications, New Delhi, 2012

Charantimath, Entrepreneurship development & Small business enterprise, Pearson Edn., New Delhi, 2013

Vasant Desai, Dynamics of Entrepreneurial Development and Management, Himalaya Publishing Company, 2012

**JOURNALS**

- Journal of development entrepreneurship
- Journal of entrepreneurship education
- Journal of Business venturing

**WEB RESOURCES**

- <http://www.entrepreneur.com>
- <http://www.businessesforsale.com>
- <http://www.sba.gov>
- <http://joe.sagepub.com/content/19/2.toc>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks:50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Components:                            Total Marks:50**

Seminars/Quiz, /Group discussion/Assignments/Class Presentation

**End Semester Examination:            Total Marks: 100**

**Duration: 3 hours.**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019– 2020)

**COST ACCOUNTING**

**CODE: 19CM/MC/CT24**

**CREDITS: 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students an understanding of the basic concepts of cost accounting
- To enable students to understand the methods of ascertaining the product cost
- To expose students to the practical application of Costing

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Differentiate Cost Accounting from other branches of Accounting
- Calculate Material, Labour and Overhead Cost
- Prepare Cost Sheet
- Solve problems relating to Process and Operating Costing

**Unit 1**

**Introduction**

**(15 Hours)**

- 1.1 Meaning, Objectives and Scope of Cost Accounting
- 1.2 Introduction to Cost Audit and Records and Cost Standards
- 1.3 Advantages and Limitations of Cost Accounting, Difference Between Financial Accounting and Cost Accounting
- 1.4 Material Cost and Material Control
  - 1.4.1 Computation of Material Cost and Accounting Treatment for Normal, Abnormal Loss
- 1.5 Essentials of Material Control, Purchase Control – Purchase Procedure
  - 1.5.1 Store Control :Techniques of Inventory Control – Economic Order Quantity, Level Setting
  - 1.5.2 Issue Control: Methods of Material Issue – First In First Out, Last In First Out, Average Cost - Simple and Weighted Average Cost

**Unit 2**

**Labour Cost, Remuneration and Incentives**

**(13 Hours)**

- 2.1 Computation of Labour Cost with Overtime and Idle Time and Computation of Labour Turnover
- 2.2 Methods of Remuneration- Time Rate System, Piece Rate System, Taylor's Differential Piece Rate System.
- 2.3 Incentive Plans -Halsey Premium Plan, Rowan Premium Plan



### **Unit 3**

#### **Overheads**

**(13 Hours)**

- 3.1 Importance and Classification of Overhead Costs
- 3.2 Apportionment and Allocation of Overheads
  - 3.2.1 Primary Distribution of Overheads
  - 3.2.2 Secondary Distribution of Overheads- Direct Distribution, Reciprocal and Non Reciprocal Methods
- 3.3 Methods of Absorption of Overheads
  - 3.3.1 Direct Labour Hour Rate
  - 3.3.2 Machine Hour Rate
  - 3.3.3 Activity Based Absorption

### **Unit 4**

**(11 Hours)**

#### **Unit Costing**

- 4.1 Cost Center and Cost Units- Methods of Costing, Elements of Cost, Cost Concepts and Classification of Cost - Cost Audit and Maintenance of Cost Records
- 4.2 Preparation of Cost Sheet, Quotations or Tenders

### **Unit 5**

#### **Process and Operating Costing**

**(13 Hours.)**

- 5.1 Process Costing
  - 5.1.1 Meaning and Features of Process Costing
  - 5.1.2 Process Losses and Gains – Accounting Treatment of Normal and Abnormal Wastage
  - 5.1.3 Inter-Process Profit
- 5.2 Operating Costing- Transport Costing only
- 5.3 Activity Based Costing

### **BOOKS FOR STUDY**

Jain, S.P. and Narang K.L. *Cost Accounting*. NewDelhi: Kalyan, 2015.

Reddy, T.S and A. Murthy. *Cost Accounting*. Margham, 2012.

### **BOOKS FOR REFERENCE**

M.Y.Khan and P.K.Jain, *Cost Accounting*, McGraw Hill, 2017

Maheswari, S.N and S.N.Mittal, *Cost Accounting Theory and Problems*, New Delhi:

Sultan Chand 2015.

Ravi M. Kishore. *Cost and Management Accounting* Taxmann, 2016.

M.N.Arora, Priyanka Katyal. *Cost Accounting*. NewDelhi: Sultan Chand, 2016

### **JOURNALS**

Cost Accounting Standards - The ICWA of India

Management Accountant - The ICWA of India

Indian Journal of Finance

## **WEB RESOURCES**

icwajournal@hotmail.com

www.accaglobal.com

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A -  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of four questions)

Section C -  $1 \times 20 = 20$  (from choice of two questions)

**Other Components:                                      Total Marks: 50**

Assignments/Problem Solving/Open book test

**End Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice 5 Questions theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – 1 theory and 6 problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions- Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**BANKING AND INSURANCE SERVICES**

**CODE: 19CM/MC/BI23**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the theoretical structures about banking and insurance services
- To equip students with the technological changes in Banking and Insurance services
- To provide a comprehensive knowledge to the students on the procedural formalities in dealing with different types of Banking and Insurance Services
- To acquaint students with the various banking and Insurance Products

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Understand the importance of Banking and Insurance services to the society
- Appreciate the major reforms in the Banking and Insurance sector
- Comprehend the nuances of banking and insurance industry
- Equip with requisite skills for a successful career in Banking and Insurance Sector
- Use the provisions of the Acts in real time situation

**Unit 1**

**(10 Hours)**

**Introduction to Banking and Insurance Services**

- 1.1 Structure of Indian Banking System
- 1.2 Role of Banks in Economic Development
- 1.3 Insurance Services – Importance, Functions and Advantages of Insurance
- 1.4 Principles of Insurance Contract and Important Concepts in Insurance-Risk, Uncertainty, Assessment, Transfer
- 1.5 Reforms in Banking and Insurance Sector

**Unit 2**

**(11 Hours)**

**Banking Operations**

- 2.1 Banker and Customer relationship
- 2.2 Procedure and Practice in Opening, Operating and Closing of Bank Accounts
- 2.3 Deposits – Deposit mix, Types of Deposits, Factors limiting depositing level
- 2.4 Lending and Advances – Factors limiting level of Bank's advances, Lending policies of the Banks and Forms of Lending
- 2.5 Regulations of Non-Performing Assets – An Overview

**Unit 3 (11 Hours)**

**Payment and Settlement System Provider**

- 3.1 Digital Banking – Need and advantages
- 3.2 Internet Banking – Meaning and the important terms used in Internet Banking
- 3.3 E-Payment – Debit card, Credit card, NEFT, e -wallet, Digital Cash
- 3.4 Rural Banking, Corporate Banking and Retail Banking – Meaning, Need and Features
- 3.5 Marketing of Banking and Insurance Products

**Unit 4 (12 Hours)**

**Insurance Products**

- 4.1 Distribution Channels of Insurance – Insurance Intermediaries – Agent - Definition and Functions
- 4.2 Types of Insurance – Life and Non-Life Insurance, Rural Insurance
- 4.3 Claims- Types and Procedure

**Unit 5 (8 Hours)**

**Banking and Insurance Service Regulations – An Overview**

- 5.1 Negotiable Instruments Act 1881
- 5.2 Banking Regulations Act 1949
- 5.3 Insurance Regulatory and Development Authority Act, 1999 and IRDAI

**BOOKS FOR STUDY**

Satyadevi, C., *Financial Services Banking and Insurance*, New Delhi, S.Chand, 2014

Hargovind Dayal, *Fundamentals of Insurance – Theory, Principles and Practice*, Notion Press, 2017

**BOOKS FOR REFERENCE**

Gordon. E, Gupta P.K *Banking and Insurance*, Himalaya Publishing House, 2012

Neelam C Gulati, *Banking and Insurance: Principles and Practices*, Escel, 2011

Saxena, G.S; *Legal Aspects of Banking Operations*, Sultan Chand and Sons

Varshney, P.N., *Banking Law and Practice*, Sultan Chand and Sons, New Delhi, 2016

**JOURNALS**

International Journal of Finance & Banking Studies

Global Journal of Finance and Banking Issues

Journal of Insurance and Risk Management

International Journal of Banking, Risk and Insurance.

## **WEB RESOURCES**

[http://www.universityofcalicut.info/SDE/Banking\\_on19May2016.pdf](http://www.universityofcalicut.info/SDE/Banking_on19May2016.pdf)

<http://www.rbi.org.in/scripts/PublicationReportDetails.aspx?ID=243>

<https://exampariksha.com/bancassurance-banking-study-material-notes/>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes.**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:                      Total Marks: 50**

Seminars / Quiz / Group discussion Assignments / Class Presentation

**End Semester Examination:                      Total Marks: 100                      Duration: 3 hours.**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**BUSINESS STATISTICS**

**CODE: 19CM/AC/BS25**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To give a practical exposure to the students on the various statistical method and to arrive at rational decision through systematic analysis and interpretation
- To educate the students on the effective and efficient application of various statistical tools associated with research in business fields
- To enable students to understand, analyse and interpret the data using various statistical tools and techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate knowledge on standard statistical distributions
- Report the trend using secondary data
- Analyse the business situation using statistical tool
- Apply the tools and techniques and arrive at rational decisions

**Unit 1**

**Analysis of Time Series**

**(12 Hours)**

- 1.1 Utility and Component of Time Series
- 1.2 Method of Measuring Trend
- 1.3 Measurement of Seasonal Variation
- 1.4 Time Series Techniques using Statistical Software

**Unit 2**

**Correlation and Regression**

**(16 Hours)**

- 2.1 Simple Linear Correlation Analysis – Karl Pearson's Co- Efficient and Spearman's Rank Correlation
- 2.2 Partial and Multiple Correlations
- 2.3 Simple Linear Regression Analysis and Regression Equation and Estimation

**Unit 3**

**Test of Hypothesis**

**(12 Hours)**

- 3.1 Procedure for Testing Hypothesis
- 3.2 Test of Significants for Large Sample
- 3.3 Test of Significants for Small Sample
- 3.4 Application of Statistical Software for Large and Small Test

**Unit 4****Chi- square Test and Goodness Test****(12 Hours)**

- 4.1. Meaning and Conditions for applying Chi – Square Test
- 4.2 Application of Chi – Square Test
  - 4.2.1 Test of Goodness of Fit
  - 4.2.2 Test of Independence
- 4.3 Yates Correction
- 4.4 Uses and limitations of Chi – Square
- 4.5 Application of Chi- Square Test using Statistical Software

**Unit 5****Analysis of Variance****(13 Hours)**

- 5.1 Variance Ratio Test
- 5.2 Assumption of Analysis of Variance
- 5.3 Techniques of Analysis of Variance
  - 5.1.1 One Way Classification Model
  - 5.1.2 Two Way Classification Model
- 5.4 Analysis of Variance using Statistical Software

**BOOKS FOR STUDY**

Gupta S.P., *Statistical Methods*, New Delhi, Sultan Chand and Sons, 2012

Beri, G.C., *Business Statistics*, New Delhi, Tata Mc Graw Hill Publishing Company Ltd., 2017

**BOOKS FOR REFERENCE**

Agarwal Y.P., *Statistical Method, Concept, Applications and Computations*, New Delhi, Sterling Publishers Ltd., 2012

Pillai R.S.N. & Bagavathy, V., *Statistics*, 13<sup>th</sup> edition, New Delhi, Sultan Chand & Sons, 2010

Sharma J.K., *Business Statistics*, New Delhi, 1<sup>st</sup> edition, Pearson Education (Singapore), Pvt., Ltd., Indian Branch, 2010

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A –  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of four questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components:                                      Total Marks: 50**

Assignments/Practical Test/Objective Test

**End Semester Examination      Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice- 5 theory and 5 problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of 7- all problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of 4- all problems)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19CM/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)

[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19CM/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1**

**(13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**Allied Core Course Offered by the Department of Commerce (General) for**  
**B.C.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**ACCOUNTING FOR BUSINESS**

**CODE: 19CM/AC/AB25**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the basic accounting principles
- To expose students to the importance of cost ascertainment
- To provide an understanding on the project appraisal techniques

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Use accounting concepts and principles
- understand the techniques of analysing the financial positions
- Develop the ability to use accounting information on business decisions
- Apply accounting concepts, principles and processes

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Accounting – Meaning, Objectives and Branches of Accounting
- 1.2 Introduction to Double Entry System
- 1.3 Preparation of Journal and Trial Balance
- 1.4 Preparation of Trading, Profit and Loss Account and Balance Sheet of a Sole Trader

**Unit 2 (15 Hours)**

**Cost Ascertainment**

- 2.1 Meaning of Cost, Types of cost – Direct and Indirect
- 2.2 Preparation of Statement of Cost and Profit
- 2.3 Ascertainment of Cash Requirement – Budgets – Preparation of Cash Budget

**Unit 3 (10 Hours)**

**Project Appraisal Techniques**

- 3.1 Evaluation Techniques - Pay Back Period, Average Rate of Return, Net Present Value, Internal Rate of Return and Profitability Index

**Unit 4 (15 Hours)**

**Decision Making Technique**

- 4.1 Marginal Costing - Meaning, Advantages, Limitations, Breakeven Analysis
- 4.2 Cost-Volume Profit Analysis- P/V Ratio - Margin of Safety
- 4.3 Application – Key factor, Product Mix and Sales Mix

## Unit 5

(15 Hours)

### Techniques for Analysing Financial Position

5.1 Techniques for Financial Statement Analysis – Comparative Statement, Common size statement and Trend Analysis

5.2 Ratio Analysis – Profitability, Liquidity and Solvency

### BOOK FOR STUDY

Jain S. P., and Narang K. L., Cost and Management Accounting, Ludhiana, Kalyani Publishers, 2006.

Reddy T.S and Murthy A, Financial Accounting, Chennai, Margham Publications, 2008.

### BOOKS FOR REFERENCE

Bodhanwala J. Ruzbeh , *Understanding and Analysing Balance Sheets using Excel Worksheet*, 2004, 2nd edition, Prentice- Hall of India, New Delhi

Gupta, R.L., Radhaswamy, M., *Advanced Accountancy* (Vol I, III & IV), 2005, 5th edition, Sultan Chand and Sons, New Delhi

Jain, S.P., K.L Narang, *Advanced Accountancy* (Part II), 2005, 12th edition, Kalyani Publishers, New Delhi

Nadhani A. K. and K.K., *Nadhani Implementing Tally 7.2*, 2005, 1st edition

### JOURNALS

Journal of finance

International journal of accounting

The Chartered Accountant: Journal of the Institute of Chartered Accountants of India. Indian Journal of Finance

Journal of Accounting & Finance: Research Development Association,

### WEB RESOURCES

[www. icaai.org](http://www.icaai.org)

[www.journals.elsevier.com](http://www.journals.elsevier.com)

[www. emeraldgroupublishing.com](http://www.emeraldgroupublishing.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes.**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three problems)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two problems)

**Other Components: Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation

**End Semester Examination: Total Marks:100**

**Duration: 3 hours.**

Section A –  $10 \times 3 = 30$  (5 Theory and 5 problems)

Section B –  $5 \times 8 = 40$  (Answer any five out of 8 problems)

Section C –  $2 \times 15 = 30$  (Answer any two question out of 4 problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LEGAL ENVIRONMENT OF BUSINESS**

**CODE: 19CM/MC/LB34**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the students to the legal environment of Business
- To familiarize the students with the provisions of law that is essential to protect the environment in managing the business
- To provide a comprehensive knowledge to the students on the procedural formalities in dealing with different aspects of business transactions
- To acquaint the students with the ability to recognize and manage legal risks

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the complexity of the law relating to Business
- Identify the fundamental legal principles behind contractual agreements.
- Appreciate the challenges relating to formation and operation of business
- Comprehend the features of different acts applicable to business

**Unit 1 (15 Hours)**

**Indian Contract Act 1872**

- 1.1 Essentials for a Valid Contract - Conditions
- 1.2 Performance of Contract
- 1.3 Discharge and Remedies for a Breach of Contract
- 1.4 Special Contracts – Law of Agency, Indemnity, Guarantee, Bailment and Pledge
- 1.5 Regulations of E-Commerce Contract – An Overview

**Unit 2 (15 Hours)**

**Sale of Goods Act 1930**

- 2.1 Essentials for a Contract of Sale
- 2.2 Implied Conditions and Warranties
- 2.3 Transfer of Ownership and Delivery of Goods
- 2.4 Unpaid Seller- Rights



**Unit 3 (10 Hours)**

**Indian Partnership Act, 1932 and Limited Liability Partnership Act, 2008**

- 3.1 Constitution, Rights, Formation and Closure
- 3.2 LLP – Conversion of Partnership

**Unit 4 (15 Hours)**  
**Economic Environment Laws**

- 4.1 FEMA – Foreign Exchange Management Act 1999
  - 4.1.1 Objectives – Types of Transactions
  - 4.1.2 Foreign Direct Investment in India and Abroad
  - 4.1.3 Acquisition and Transfer of Immovable Property in India
  - 4.1.4 Prevention of Money Laundering
- 4.2 Environment Protection Law – An Overview of
  - 4.2.1 The National Green Tribunal Act, 2010
  - 4.2.2 The Air (Prevention and Control of Pollution) Act, 1981  
The Water (Prevention and Control of Pollution) Act, 1974
  - 4.2.3 The Environment Protection Act, 1986  
The Hazardous Waste Management Regulations

**Unit 5 (10 Hours)**  
**Competition Act 2002**

- 5.1 Need and Objectives
- 5.2 Regulation of Anti- Competitive Agreements

**BOOKS FOR STUDY**

Kapoor N.D. *Elements of Mercantile Law*. New Delhi: Sultan Chand, 2016.  
Pillai N.P.N., Bhagavathy, *Legal Aspects of Business*, New Delhi, S.Chand, 2015

**BOOKS FOR REFERENCE**

Tulsian, P.C. & Tulsian, B. *Business Law*. New Delhi: McGraw- Hill education., 2014.  
Pandit M.S. and Shoba Pandit. *Business Law*. Mumbai: Himalaya, 2010.  
Kuchhal, M.C. *Business Law*. New Delhi: Vikas Publications, 2013.  
Singh, A. *Principles of Mercantile Law*. New Delhi: Eastern Book Company, 2012

**JOURNALS**

Journal of Business Law and Ethics  
Journal of Intellectual Property Rights Law  
National Journal of Environment Law

## **WEB RESOURCES**

[www.lawctopus.com](http://www.lawctopus.com)  
[www.indialawworld.Co](http://www.indialawworld.Co)  
[www.legalserviceindia.com](http://www.legalserviceindia.com)  
<http://www.ipindia.nic.in/>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:** **Total Marks: 50**

Evaluation Modes:

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours.**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**FINANCIAL MARKETS**

**CODE:19CM/MC/FK34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students with a comprehensive knowledge on the role and functions of Financial Markets
- To educate students about the practical relevance and importance of the Indian Financial System
- To expose students to financial intermediaries and Regulatory Institutions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the components and emerging trends of Indian Financial System
- Recognize the importance of Financial Regulatory Institutions and Markets
- Analyze the need for financial instruments
- Comprehend the relevance of Financial Institutions

**Unit 1 (15 Hours)**

**Introduction**

- 1.1 Objectives and Significance of Financial Markets
- 1.2 Functions, Organisation and Role of Indian Financial System
- 1.3 Components of Indian Financial System – Financial Institutions, Financial Markets, Financial Instruments and Financial Services

**Unit 2 (15 Hours)**

**Types and Regulators**

- 2.1 Functions and Types of Financial Market
- 2.2 Indian Money Market, Global Money Market, Bond Market, Commodity Market, Derivative Market
- 2.3 Primary and Secondary Markets- Functions
- 2.4 SEBI Provisions relating to Secondary Market

**Unit 3 (15 Hours)**

**Financial Institutions**

- 3.1 Public Financial Institutions - Role and Functions
- 3.2 Banking and Non- Banking Institutions

**Unit 4**  
**Financial Instruments** (10 Hours)

- 4.1 Significance of Financial Instruments
- 4.2 Types of Financial Instruments - Money Market, Capital Market and Hybrid Instruments

**Unit 5**  
**Financial Services** (10 Hours)

- 5.1 Meaning, Importance, Types of Fund based and Non-fund based Services
- 5.2 Credit Rating- Importance and Functions
- 5.3 Recent Trends in Financial Services

**BOOKS FOR STUDY**

Khan. *Indian Financial system*. Tata McGraw-Hill Education, 2017.

Gurusamy, S. *Financial Services and Markets*. Vijay Nichole Imprints, 2017.

**BOOKS FOR REFERENCE**

Machiraju H.R. *Indian financial system*. New Delhi: Vikas, 2017.

Mishkin, Stanley G. Eakins. *Financial Markets and Institutions*. Pearson Education India.

Murthy, D.K. Venugopal. *Indian Financial System*, 2017.

Ramesh Babu, G. *Indian financial system*. Concept, 2017.

**JOURNALS**

Asian journal of Research and Finance

Journal of Banking and Finance

Journal of Financial Intermediation

**WEB RESOURCES**

[www.bseindia.com](http://www.bseindia.com)

[www.nseindia.com](http://www.nseindia.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:** **Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four - Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**  
**B.COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**MANAGEMENT ACCOUNTING**

**CODE: 19CM/MC/MA34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable the students to prepare and analyse the financial data for internal reporting, cost control and effective decision making
- To equip the students with tools used for managerial decision making
- To create an awareness on the practical applications of cost control concepts and techniques for effective planning and forecasting

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Prepare Financial Statements for examining the relevant financial and cost data
- Use the tools and techniques for understanding the relationship between two different financial information
- Interpret and Analyse the Financial and Cost statements
- Present financial report for forecasting and managerial decision making

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Management Accounting – Meaning, Definition, Nature and Scope
- 1.2 The difference and relationship between Management Accounting, Financial Accounting and Cost Accounting
- 1.3 Tools and Techniques of Management Accounting
- 1.4 Advantages and Limitation of Management Accounting
- 1.5 Duties and functions of Management Accountant, Organization for Management Accounting

**Unit 2 (15 Hours)**

**Budget and Budgetary Control**

- 2.1 Concepts of Budgets, Budgeting and Budgetary Control
- 2.2 Objectives, Merits and Limitations of Budgetary Control
- 2.3 Classification of Budgets and its Preparation – Sales Budget, Purchase Budget, Cost of Production Budget, Cash Budget, Fixed and Flexible Budget, Cost of Production Budget, Master Budget
  - 2.3.1 Cash Budget
  - 2.3.2 Fixed and Flexible Budget

**Unit 3 (15 Hours)**

**Marginal Costing and its Application**

- 3.1 Definition, Meaning and features of Marginal Costing
- 3.2 Marginal Costing and Absorption Costing
- 3.3 Cost Volume Profit Analysis: Break even analysis, Margin of safety.
- 3.4 Application of Marginal Costing - Decision Making: Key factor, Make or Buy, Product Mix, Operate or Shut, Fixation of Selling Price, Exploring New Markets, Sell or Process Further

**Unit 4 (13 Hours)**

**Standard Costing and Variance Analysis**

- 4.1 Meaning of Standard Cost and Standard Costing, Advantages, Limitations and Application
- 4.2 Variance Analysis – Material, Labour, Overhead and Sales Variances

**Unit 5 (12 Hours)**

**Financial Statement Analysis and Interpretation (Practical)**

- 5.1 Meaning and Process of Financial Statement Analysis
- 5.2 Objectives, Types and Procedure for Analysis and Interpretation of Financial Statements
- 5.3 Tools of Financial Statement Analysis- Comparative Statement Analysis, Common Size Statement Analysis and Trend Analysis
- 5.4 Ratio Analysis – Liquidity, Solvency and Turnover Ratio

**NOTE:**

Unit -5: Not Tested in the Examination

**BOOKS FOR STUDY**

Maheshwari, S.N. *Principles of Management Accounting*. New Delhi: Sultan Chand, 2018

Reddy, T.S. and A Murthy. *Management Accounting*. Chennai: Margham, 2015

**BOOKS FOR REFERENCE:**

Atkinson A. Anthony, Robert S Kaplan and S. Mark Young. *Management Accounting*. 2008

Indian Institute of Banker, *Management Accounting*, 2008

Hornngren/Sundem G.L/Stratton, *Introduction to Management Accounting*, 13<sup>th</sup> edition

Khan, M.Y Jain P.K, *Management Accounting*, 3<sup>rd</sup> Edition TMH, 2013

**JOURNALS**

International Journal of research in Commerce and Management

Research and Journal of Management Accounting – The ICWA of India

Management Accounting Research Journal - Elsevier

Indian Journal of Finance

## **WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)

[www.icma.com](http://www.icma.com)

[www.aicpa.org](http://www.aicpa.org)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 X 2 = 6 Marks (no choice)

Section B – 3 X 8 = 24 (from a choice of four)

Section C – 1 X 20 = 20 (from a choice of two)

**Other Components                                      Total Marks: 50**

Assignments/Problem Solving/Case Study Analysis/Mini Projects

**End Semester Examination:      Total Marks: 100**

**Duration: 3 hours.**

Section A – 10 X 2 = 20 Marks (5 Theory and 5 Problems)

Section B – 5 X 8 = 40 Marks (From a Choice of 7 Problems)

Section C – 2 X 20 = 40 Marks (From a Choice of 4 Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**INVESTMENT PLANNING**

**CODE: 19CM/MC/IP33**

**CREDITS: 3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To emphasize to the students the need for Savings and Investment
- To familiarise the students with different Investment avenues
- To assist the students plan and manage personal savings and investments
- To create an awareness on the laws relating to investor protection

**COURSE LEARNING OUTCOMES**

On completion of the course the students will be able to

- Identify various investment alternatives
- Acquire the skills to take advantage of favorable Investment opportunities
- Work towards financial security
- Understand the role of various regulatory authorities for investor protection

**Unit 1**

**(10 Hours)**

**Investment Environment**

- 1.1 Investments -The Nature, Objectives and Importance
- 1.2 Economic Environment of Investments and the Conditions that affect Investment Decision Making
- 1.3 Investment Process – Wealth Creation
- 1.4 Guiding Factors for Investment

**Unit 2**

**(15 Hours)**

**Risk Averse Investment**

- 2.1 Non-Marketable Investments – Savings Deposits, Certificate of Deposits, Money Market Deposit Accounts, Savings Bonds, Post Office Savings
- 2.2 Marketable Investments
- 2.3 Public Deposits
- 2.4 Fixed Income Securities -Bonds and Debentures issued by Government and Companies, Types and Features



**Unit 3** **(10 Hours)**

**Risk Investment**

- 3.1 Equity and Preference Securities - Features
- 3.2 American Depository Receipts and Global Depository Receipts
- 3.3 Derivative Securities – Warrants, Forwards, Options, Futures Contracts
- 3.4 Mutual Funds - Types of Mutual Funds
- 3.5 Global Funds, Exchange Traded Funds

**Unit 4** **(7 Hours)**

**Risk Return assessment**

- 4.1 Return Concept and the Components
- 4.2 Risk – Sources, Types
- 4.3 Risk and Return Trade-off
- 4.4 Impact of Taxes and Inflation on Return

**Unit 5** **(10 Hours)**

**Investor Protection**

- 5.1 Legal Provisions for Investor Protection as per SEBI Act 1992  
Companies Act 2013, Securities Contract and Regulation Act 1956,  
Depositories Act 1996

**BOOKS FOR STUDY**

Jones, C. P, *Investment Analysis and Management*. Wiley, 2016

Madhu Sinha, *Financial Planning: A Ready Reckoner*, 2017

Ankit Gala and Khushboo Gala, *Investment Planning* 2015

**BOOKS FOR REFERENCE**

Ankit Gala and Khushboo Gala, *Investment Planning* 2015

Bodie Kane, Marcus and Mohanty, *Investments*, Tata McGraw Hill , 2014

Bhalla V.K , *Fundamentals of Investment Management* ,Sultan Chand, 2010

IIBF, *Investment Planning, Tax Planning and Estate Planning*, 2017

**JOURNALS**

Journal of Financial Planning

Journal of Personal Finance

The Journal of Investing

**WEB RESOURCES**

[www.investopedia.com](http://www.investopedia.com)

[www.amfiindia.com](http://www.amfiindia.com)

[www.financial planning.com](http://www.financial planning.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Component:                            Total Marks: 50**

Evaluation Modes:

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**FINANCIAL MANAGEMENT**

**CODE: 19CM/MC/FM44**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To familiarize students with the principles and practices of financial management
- To provide students a sound conceptual frame work for financial decision-making
- To enable the students to select and apply the techniques in managing working capital
- To assist the student apply the concepts of financial management

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the financial environment within which the organizations must operate
- Measure risk and return and explain the tradeoff between risk and return
- Critically evaluate the financial objectives of various types of organizations and the respective requirements of stakeholders
- Calculate the value of various financial assets

**Unit 1 (10 Hours)**

**Introduction to Financial Management**

- 1.1 Core Concepts
  - 1.1.1 Investment Decisions
  - 1.1.2 Finance Decisions
  - 1.1.3 Dividend Decisions
- 1.2 Objectives of the Firm
  - 1.2.1 Profit Maximisation
  - 1.2.2 Wealth Maximisation
- 1.3 Objectives of Long term and Short term Capital Management
- 1.4 Time Value of Money-Concepts and Applications
  - 1.4.1 Computation of Time value of Money
    - 1.4.1.1 Compounding Techniques
    - 1.4.1.2 Present Value Techniques

**Unit 2 (10 Hours)**

**Capital Structure**

- 2.1 Meaning and Significance of Capital Structure
- 2.2 EPS-EBIT Analysis
- 2.3 Leverages - Meaning and Importance
  - 2.3.1 Types of Leverages

**Unit 3 (15 Hours)**

**Cost of Capital**

- 3.1 Meaning and Significance
- 3.2 Cost of Equity and Retained Earnings
- 3.3 Cost of Debt - Redeemable
- 3.4 Cost of Preference - Redeemable
- 3.5 Computation of Overall Cost of Capital - Book Value and Market Value

**Unit 4 (15 Hours)**

**Capital Budgeting**

- 4.1 Nature of Capital Budgeting
- 4.2 Evaluating Techniques - Pay Back Period, Average Rate of Return, Net Present Value, Internal Rate of Return and Profitability Index

**Unit 5 (15 Hours)**

**Working Capital Management and Dividend Decisions**

- 5.1 Need for Working Capital Management
- 5.2 Determinants of Working Capital Management
- 5.3 Computation and Management of Working Capital
- 5.4 Dividend Policies-Factors determining Dividend payments
  - 5.4.1 Theories of Dividend Policies

**BOOKS FOR STUDY**

Khan, M.Y. and P.K. Jain. *Basic Financial Management*. New Delhi: Tata Mc Graw Hil, 2017.

Dr. A. Murthy *Financial Management* , Margham Publications, 2013

**BOOKS FOR REFERENCE**

Chandra,. *Fundamentals of Financial Management*. New Delhi: Tata McGraw Hill, 2014.

Van Horne, James C. *Financial Management and Policy*. New Delhi: Prentice Hall of India, 12<sup>th</sup> edition.2011.

Maheshwari, S. N. *Financial Management*. New Delhi: Vikas, 6<sup>th</sup> edition, 2013

Pandey, I. M. *Financial Management*. New Delhi: Vikas, 2016.

Ravi M. Kishore. *Taxmann's Financial Management*. New Delhi: K. L. Taxmann, 2016.

**JOURNALS**

Journal on Risk and Financial Management

Indian Journal of Finance

## **WEB RESOURCES**

[www.mdpi.com/](http://www.mdpi.com/)

[www.indianjournaloffinance.co.in/](http://www.indianjournaloffinance.co.in/)

[www.financeindia.com](http://www.financeindia.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test**

**Total Marks : 50**

**Duration : 90 minutes.**

Section A -  $3 \times 2 = 6$  (no choice)

Section B -  $3 \times 8 = 24$  (from a choice of four questions)

Section C -  $1 \times 20 = 20$  (from choice of two questions)

### **Other Components:**

**Total Marks : 50**

Assignments/ Objective Test/ Case Study

### **End Semester Examination:**

**Total Marks:100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice 5 Questions theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – 2 theory and 5 problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions- Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**MARKETING**

**CODE: 19CM/MC/MG44**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students a broad background on the nature and scope of marketing concepts used in business
- To enable students to have a clear understanding of the marketing function
- To provide knowledge on the marketing mix (4P's) and demonstrate how today's managers employ these tools to gain a competitive edge in the global economy
- To facilitate an understanding of the conceptual framework of marketing and its applications in decision making under various environmental constraints

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the role of the marketing function within a firm
- Describe key market segmentation and targeting strategies
- Identify the elements of the marketing mix (4P's) and common strategies
- Recommend and justify an appropriate mix of the 4P's to create a cohesive marketing strategy for a new product
- Identify and relate new trends in marketing which has an impact on consumers

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Meaning, Nature, Significance and Marketing Concept Model
- 1.2 Functions of Marketing- Classification of Marketing

**Unit 2 (15 Hours)**

**Product Planning and Promotion**

- 2.1 Product Planning
  - 2.1.1 Product concept, Policy and Product Mix
  - 2.1.2 Product Life Cycle- Stages
  - 2.1.3 New Product Development- Process
- 2.2 Promotion
  - 2.2.1 Elements of Promotion Mix- - Advertising, Personal Selling, Sales Promotion, Public Relations and Direct Marketing

**Unit 3** **(15 Hours)**

**Pricing and Distribution**

- 3.1 Pricing
  - 3.1.1 Types of Pricing
  - 3.1.2 Factors affecting Pricing
- 3.2 Distribution
  - 3.2.1 Factors affecting Choice of Channel
  - 3.2.2 Classification of Channel Members- Wholesaler and Retailer

**Unit 4** **(15 Hours)**

**Consumer Behaviour and Market Segmentation**

- 4.1 Consumer Behaviour
  - 4.1.1 Basic Model ( Black Box Model)
  - 4.1.2 Factors Influencing Consumer Behaviour
- 4.2 Market Segmentation
  - 4.2.1 Methods of Market Segmentation

**Unit 5** **(10 Hours)**

**Trends in Marketing**

- 5.1 Digital Marketing, Cloud Marketing
- 5.2 Social Marketing, Green Marketing
- 5.3 Rural Marketing, Viral Marketing

**BOOKS FOR STUDY**

Nair, Rajan and Sanjith Nair. *Marketing*. 11<sup>TH</sup> edition, New Delhi: Sultan Chand, 2015

Kotler Philip. *Marketing* 15<sup>th</sup> edition. New Delhi: Prentice Hall of India, 2017

**BOOKS FOR REFERENCE**

Gandhi J.C. *Marketing*. New Delhi: Tata McGraw Hill, 2009

Varshney. R.L, Dr. S.L.Gupta. *Marketing Management*. Himalaya Publishers

William J. Stanton, Micheal J. Etzel, Bruce J. Walker. *Fundamentals of Marketing*, New Delhi: Mc Graw Hill, 2009

Kavitha Sharma, Dr.Swati Agarwal, *Principles of Marketing*, Taxmann's Publication,2018

## **JOURNALS**

Journal of Marketing- American Marketing Association  
Journal of Marketing Education  
International Journal of Marketing Studies  
Indian Journal of Marketing

## **WEB RESOURCES**

[www.yourarticlelibrary.com](http://www.yourarticlelibrary.com)  
[www.boundless.com](http://www.boundless.com)  
[www.learnmarketing.net](http://www.learnmarketing.net)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test**                      **Total Marks: 50**                      **Duration: 90 minutes**

Section A-  $7 \times 2 = 14$  Marks (no choice)  
Section B-  $2 \times 8 = 16$  Marks (from a choice of three)  
Section C-  $1 \times 20 = 20$  Marks (from a choice of two)

**Other Components:**                      **Total Marks: 50**  
Seminars/Quiz/Group Discussions/Assignments/Class Presentation

**End Semester Examination:**    **Total Marks: 100**                      **Duration: 3 hours**

Section A-  $10 \times 2 = 20$  Marks (no choice- Max 30 words)  
Section B-  $5 \times 8 = 40$  Marks (from a choice of seven- Max 500 words)  
Section C-  $2 \times 20 = 40$  Marks (from a choice of four- Max 1200 words)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**COMPANY LAW**

**CODE: 19CM/MC/CL44**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the provisions of Companies Act relating to formation of company
- To expose students to statutory provisions relating to the management of a company
- To enable students to understand and interpret the provisions of company relating to raising of finance and distribution of surplus

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify legal issues relevant to the formation and management of the company
- Comprehend the legal and procedural aspects relating to raising and distribution of funds
- Understand the provisions relating to the concepts and modes of winding- up

**Unit 1 (10 Hours)**

**Formation of company**

- 1.1 Characteristics of a Company, Lifting of Corporate Veil
- 1.2 Types of Company – Private and Public
- 1.3 Legal Requirement for Formation of Company – Public, Private and One Person Company – Commencement of Business
- 1.4 Process of Incorporation of Company
- 1.5 Important Definitions- Member, Promoter, Financial Year, Free Reserves, Associate Company

**Unit 2 (15 Hours)**

**Documents**

- 2.1 Memorandum of Association and its Alteration – Entrenchment Provision
- 2.2 Articles of Association and its Alteration
- 2.3 Prospectus and Letter of Offer
- 2.4 Share Certificate - Demat system
- 2.5 Recent Developments relating to Unlisted Company

**Unit 3** **(12 Hours)**

**Raising of Finance**

- 3.1 Concept of Capital –Kinds of Share Capital and Nature of Shares
- 3.2 Financing of Companies- Issue, Allotment and Forfeiture of Share, Calls on Shares, Issue of Sweat Equity Capital, ESOP, ESPP, RSU and Bonus Shares
- 3.2 Application, Allotment, Transfer and Transmission of Shares
- 3.3 Debenture –Nature and Classes of Debenture
- 3.4 Deposits- Meaning, Exempted Deposit, Return of Deposit and Allied Regulatory Deposit

**Unit 4** **(15 Hours)**

**Management**

- 4.1 Directors–Appointment and Removal, Roles and Responsibility, Classification of Directors - Women Director, Independent Director, Additional Director- Number of Directorship and DIN (Director Identity Number), KYC
- 4.2 Key Managerial Personnel – Appointment, Removal, Roles and Responsibility
- 4.3 Secretarial Standard - Section 118

**Unit 5** **(13 Hours)**

**Meetings and Resolution**

- 5.1 Types and Requisites - Importance of Secretarial Standards
- 5.2 Board and Committee meeting
- 5.3 Shareholders Meeting
- 5.4 Registers and Returns

**BOOKS FOR STUDY**

Avatar Singh , A., *Company Law*, Eastern Book Company, 2018

Kapoor, N.D. *Company Law*. New Delhi: Sultan Chand, 30<sup>th</sup> Edition, 2016

**BOOKS FOR REFERENCE**

Majumdar, A. K., Kapoor, G.K. *Company Law and Practice*, Taxman Publication, 2014

Chandrate, K.R. *Company Secretarial Practice Manual*: Lexis Nexis, 2016

Shah, S.M. *Lecture of Company Law*. Mumbai: Tripathi M.N, 2006.

Sherlekar, S.A. *Company Secretarial Practice*. New Delhi: Kitab Mahal, 2006.

Ravi, B, *Company Law made Simple*, B.Ravi and Associates, Chennai

**JOURNALS**

Company and Security Law Journal

Company Law Journal

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:      Total Marks: 50**

**Duration: 90 minutes.**

Section A -  $7 \times 2 = 14$  (no choice)

Section B -  $2 \times 8 = 16$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components:      Total Marks: 50**

Assignments/Seminars/Case Study

**End Semester Examination:      Total Marks:100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 words)

Section B –  $5 \times 8 = 40$  Marks (From a choice of seven questions – Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (From a choice of four questions – Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**HUMAN RESOURCE MANAGEMENT**

**CODE: 19CM/MC/HR43**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To acquaint the students with the concepts and emerging trends in human resource management
- To educate the students on the managerial, operative and maintenance aspects of the human resources in an organization
- To familiarize the students with the processes and mechanism of managing Human Resources

**COURSE LEARNING OUTCOME**

On successful completion of the course students will be able to

- Understand the roles and responsibilities of HR Managers and the challenges faced
- Analyze the concepts and factors affecting human resource planning, Recruitment and Selection
- Measure the effectiveness of Training methods of employees and managers and the techniques involved
- Examine the strengths and weaknesses of different performance management system

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Scope and Objectives of Human Resource Management
- 1.2 Significance and Functions of Human Resource Management
- 1.3 Emerging Challenges of Human Resource Management- Workforce Diversity, Downsizing, Work Life Balance
- 1.4 Recent Trends in Human Resource Management

**Unit 2 (12 Hours)**

**Acquisition of Human Resources**

- 2.1 Objectives, Characteristics and Process of HR Planning
- 2.2 Job Analysis, Job Description, Job Specification
- 2.3 Recruitment – Concept, Sources
- 2.4 Selection Procedure, Testing, Placement and Induction

**Unit 3 (10 Hours.)**

**Training and Development**

- 3.1 Concept and Importance, Identifying Training and Development Needs, Designing Training Programme
- 3.2 Training and Development Methods
- 3.3 Evaluating Training Effectiveness

**Unit 4 (10 Hours.)**

**Performance Appraisal**

- 4.1 Nature and Importance of Performance Appraisal
- 4.2 Process and Methods of Performance Appraisal
- 4.3 Performance Management, Performance Counseling

**Unit 5 (10 Hours.)**

**Compensation and Maintenance**

- 5.1 Compensation – Factors, Types – Monetary and Non-Monetary
  - 5.1.1 Wage and Salary Compensation
  - 5.1.2 Incentives and Benefits
- 5.2 Employees Welfare– Health, Safety and Social Security
- 5.3 Grievance Handling and Redressal – Vigil Mechanism and Prevention of Sexual Harrassement

**BOOKS FOR STUDY**

Aswathappa K. *Human Resource Management*, Text and Cases 8<sup>th</sup> Edition New Delhi: Tata Mc Graw Hill 2017.

Gupta, C.B. *Human Resource management*. Text and Cases 19<sup>th</sup> Edition New Delhi: Sultan Chand, 2017.

**BOOKS FOR REFERENCE**

Flippo V. Edwin. *Personnel Management*. New Delhi: Mc Graw Hill, 2017.

Mamoria, C.B. *Personnel Management*. Mumbai: Himalaya, 2017.

Prasad, L.M. *Human Resource management*. New Delhi: Sultan Chand, 2017.

John Bratton and Jeffery Gold *Human Resource management Theory and Practice* Macmillan

**JOURNALS**

International Journal of Human Resource Management

The Human Resource Management Review

Human Resource Management International Digest

Human Resource Management Journal.

## **WEB RESOURCES**

[www.hrcouncil.ca/hr-toolkit/planning-strategic.cfm](http://www.hrcouncil.ca/hr-toolkit/planning-strategic.cfm)

[www.hrware.com/recruitment/88-2/](http://www.hrware.com/recruitment/88-2/)

[www.educationobserver.com/forum/showthread.php?tid=12165](http://www.educationobserver.com/forum/showthread.php?tid=12165)  
[managementhelp.org/training/](http://managementhelp.org/training/)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test      Total Marks: 50**

**Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:      Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:      Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**COMPUTER APPLICATION IN FINANCE**

**CODE: 19CM/AC/CF45**

**CREDITS: 5**

**L T P: 2 0 4**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To impart knowledge to the students on computer skills relating to business environment
- To provide students hands on experience on current analytical tools for interpretation of financial situation
- To expose students to the tools for financial data analysis and reporting techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Analyse the company's financial position.
- Identify and utilize appropriate technology for effective decision-making and improved performance
- Effectively use the accounting package – Tally
- Use business forecasting techniques

**Unit 1 (16 Hours)**

**Accounting Package – Tally**

- 1.1 Introduction to Tally - Creation, Alteration and Deletion of a Company
- 1.2 Creation , Alteration and Deletion of Group and Ledger
- 1.3 Accounting Vouchers – Types, Voucher Entry
- 1.4 Preparation of Financial Statement – Day Book, Trial Balance, Profit and Loss and Balance Sheet
- 1.5 Importing Data from Accounting and Other Application System
- 1.6 Data Validation

**Unit 2 (16 Hours)**

**MS Excel for Financial Statement and Business Forecasting**

- 2.1 Techniques of Financial Statement Analysis –
  - 2.1.1 Comparative Statement
  - 2.1.2 Common Size Statement
  - 2.1.3 Trend Percentage.
- 2.2 Preparation of Master Budget – Production Budget, Sales Budget, Flexible Budget and Cash Budget

- Unit 3**  
**Business Evaluation Technique using Excel (16 Hours)**  
3.1 Time Value of Money  
    3.1.1 Future Value  
    3.1.2 Present Value  
3.2 Evaluation Techniques – Pay Back Period, Net Present Value and IRR  
3.3 Financial Functions - Pivot table

- Unit 4**  
**Data analysis and Reporting features using Excel (15 Hours)**  
4.1 Creation of Spread sheet  
    4.1.1 Ratio Analysis  
    4.1.2 Payroll Analysis  
    4.1.3 Capital Budget  
    4.1.4 Depreciation – Written Down Value  
4.2 Cash Flow Analysis

- Unit 5**  
**CAAT Tools (15 Hours)**  
5.1 An Introduction – Analytical Report, Duplicates Gaps, Sorting and Charting  
5.2 Stratification, Summarization, Statistics and Aging

### **BOOKS FOR STUDY**

Nadhani, A.K. *Implementing Tally. ERP*. BPB Publication, 2017

Rajaraman, V. *Introduction to Information Technology*, 3<sup>rd</sup> edition. PHI, 2018

### **BOOKS FOR REFERENCE**

Rizwan P. Ahmed, *Computer Application in Business with Tally ERP 9*,  
Margham Publication

Sadagopalan, S. *Management Information System*. PHI

Eliason, A.L., On – line Business Computer Application Science Research Associates  
Chicago.

Curtis D. Frye, *Step by Step Microsoft Excel 2010*, PHI



## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes (Only Practicals)**

Section A -  $2 \times 5 = 10$  (no choice)

Section B -  $2 \times 10 = 20$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components: Total Marks: 50**

Assignments /Practical Test

**End Semester Examination: Total Marks: 100 Duration: 3 hours (Only Practicals)**

Section A –  $4 \times 5 = 20$  Marks (no choice)

Section B –  $4 \times 10 = 40$  Marks (from a choice of six questions)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B. COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**CORPORATE ACCOUNTING**

**CODE: 19CM/MC/CA54**

**CREDITS: 4**

**LTP: 4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide the students Conceptual Knowledge of basic Accounting Principles and Accounting Standards in the preparation of Consolidated Financial Statements of a Company
- To enable students to acquire the skills to interpret and analyse the financial position of the Company
- To equip the students with techniques to be followed in case of Restructuring and Liquidation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Create a record of the transactions of a company
- Prepare the Consolidated Financial Statements of a company
- Provide relevant financial information from the Financial Statements for decision making for the company
- Understand the Accounting Procedures for Restructuring and Liquidation of Corporate entities

**Unit 1 (13 Hours)**

**Financial Reporting**

- 1.1 Disclosure in Annual Accounts – Notes forming Part of Financial Statements
- 1.2 Corporate Governance and Disclosure Requirements
- 1.3 Disclosure Relating to Financial Statements (Notes to Accounts)
- 1.4 Preparation of Profit and Loss Account and Balance Sheet of Corporate Entities

**Unit 2 (15 Hours)**

**Preparation of Cash Flow Statements**

- 2.1 Preparation of Cash Flow Statements as per AS-3, ICAI.

**Unit 3 (12 Hours)**

**Valuation of Goodwill and Shares**

- 3.1 Meaning, Need and Factors to be considered for Valuing Goodwill and Shares
- 3.2 Methods of Valuation of Shares – Intrinsic Value, Yield Value Earning Capacity and Fair Value
- 3.3 Methods of Valuation of Goodwill – Average Profits, Super Profits

**Unit 4** **(12 Hours)**

**Amalgamation and Absorption**

- 4.1 Meaning and Difference
- 4.2 Calculation of Purchase Consideration for Amalgamation, Merger and Purchase
- 4.3 Accounting Treatment in the Books of the Purchasing Company and the Vendor Company for Merger and Purchase excluding Intercompany Holdings

**Unit 5** **(13 Hours)**

**Internal Reconstruction including Alteration of Share Capital**

- 5.1 Alteration of Share Capital – Types – Accounting Procedure
- 5.2 Internal Reconstruction – Types and Legal Provisions
- 5.3 Accounting Entries and Preparation of Balance Sheet after Internal Reconstruction

**BOOKS FOR STUDY**

Gupta R.L and Gupta V.K., *Introduction to Corporate Accounting*, S Chand, 2016

Reddy, T.S and A. Murthy., *Corporate Accounting*, Margham, 2017

**BOOKS FOR REFERENCE**

Jain S. P and Narang K. L., *Advanced Accountancy (Vol- II)*, Kalyani, 2016

M. Hanif and Mukherjee A., *Corporate Accounting*, 2<sup>nd</sup> Edition, TMH, 2017

Bhushan Kumar Goyal, *Taxman's Corporate Accounting*, 6<sup>th</sup> Edition, 2019

Goyal V.K., *Corporate Accounting*, 2018

**JOURNALS**

Journal of Institute of Chartered Accountants of India

Journal of Corporate Accounting and Finance.

**WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)

[www.emeraldinsight.com](http://www.emeraldinsight.com)

[www.accaglobal.com](http://www.accaglobal.com)

[www.journals.elsevier.com](http://www.journals.elsevier.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 X 2 = 6 Marks

Section B – 3 X 8 = 24 (from a choice of four questions)

Section C - 1 x 20 = 20 (from choice of two questions)

### **Other Component:**

**Total Marks: 50**

Assignments/Problem Solving

### **End Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Section A – 10 X 2 = 20 Marks (no choice 5 Questions theory and 5 Problems)

Section B – 5 x 8 = 40 Marks (from a choice of seven questions – Problems)

Section C – 2 x 20 = 40 Marks (from a choice of four questions- Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**INCOME TAX LAW AND PRACTICE**

**CODE: 19CM/MC/IT54**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the provisions of the Income Tax Act
- To enable students to understand the computation of income under different heads
- To educate students on the computation of taxable income and tax liability

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand and apply the Provisions of the Income Tax Act
- Ascertain the taxable income of an individual
- Compute the tax liability of an individual
- File Income Tax returns

**Unit 1**

**(12 Hours)**

**Introduction to Taxation**

- 1.1 Importance and Relevance of Taxation
- 1.2 An overview of the Income Tax Act 1961 – Economic Survey – Meaning, Pre-Budget
- 1.3 Types of Tax- Direct and Indirect Taxation
- 1.4 Important Definitions under The Income Tax Act 1961- Assessee – Types of Assessee - Persons – Income - Assessment Year - Previous Year – Income- Total Income- Taxable Income – Exempted Income
- 1.5 Residential Status and Scope of total Income

**Unit 2**

**(15 Hours)**

**Computation of Salary Income and Income from House property**

- 2.1 Computation of Income under the Head Salary
  - 2.1.1 Allowances - Perquisites - Profit in Lieu of Salary
  - 2.1.2 Other Receipts and Treatment of Provident fund
  - 2.1.3 Deductions, Computation of Salary Income
- 2.2 Computation of Income under the Head House Property
  - 2.2.1 Basis of Charge
  - 2.2.2 Deductions, Computation of House Property Income

- Unit 3 (12 Hours)**  
**Computation of Profit and Gains of Business or Profession**  
3.1 Income chargeable under the head Profit and Gains of Business or Profession  
3.2 Disallowance under the head Profit and Gains of Business or Profession  
3.3 Presumptive provisions  
3.4 Alternate Minimum Tax

- Unit 4 (13 Hours)**  
**Computation of Capital gains and Income from other sources**  
4.1 Capital Asset-Types of Capital Assets  
    4.1.1 Computation of Short Term and Long Term Capital Gains  
    4.1.2 Exempted Capital Gains  
4.2 Income from Other Sources  
    4.2.1 Basis of Charge, Casual and Other Income  
    4.2.2 Computation of Taxable Income from Other Sources

- Unit 5 (13 Hours)**  
**Computation of Total Income and Tax liability**  
5.1 Set off and carry forward of losses  
5.2 Computation of Gross total income  
5.3 Deductions allowed under Section 80 for an Individual  
5.4 Computation of Taxable Income and Tax Liability.

### **BOOKS FOR STUDY**

V.P Gaur & D.B Narang, *“Income Tax –Law & Practice”* Kalyani Publishers,  
Dr.H.C.Mehrotra & Dr. S.P. Goyal, *Direct Taxes law & Practice”,*  
SahityaBhawan.Publications, Agra.

### **BOOKS FOR REFERENCE**

B.B. Lal, *“Direct Taxes”,* Pearson Education, New Delhi.  
VinodSinghania, *“Income tax law and practice”* Taxman Publications, New Delhi,  
Dr.Bhagavathi Prasad, *“Direct Taxes Law & Practice ”* Vishwa Publication, New Delhi.

### **JOURNALS**

Journal of Taxation  
National Tax Journal

## WEB RESOURCES

[www.icaew.com](http://www.icaew.com)

[www.aicpa.org](http://www.aicpa.org)

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes.**

Section A –  $3 \times 2 = 6$  Marks (no choice)

Section B –  $3 \times 8 = 24$  Marks (from a choice of four)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two)

**Other Components:                      Total Marks: 50**

Quiz/Assignments/Filing of returns/Open book test/Objective test.

**End Semester Examination                      Total Marks: 100                      Duration: 3 hours.**

Section A –  $10 \times 2 = 20$  Marks (no choice 5 Questions theory and 5 Problems)

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven questions – 1 Theory and 6 Problems)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four questions- Problems)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**E – ENTERPRISE MANAGEMENT**

**CODE: 19CM/MC/EM53**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS : 52**

**OBJECTIVES OF THE COURSE**

- To provide valuable guidance to students to understand the technological changes in the business world
- To understand the practice and process to start a business
- To familiarize the students with various concept in managing the E-Business
- To provide knowledge to the students on the procedural formalities in dealing with E- Business

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Know how to build and manage an e-business
- Analyse the e- business environment
- Generate and evaluate ideas for new business ventures
- Develop a perfect theoretical knowledge on e- business components

**Unit 1 (10 Hours)**

**Introduction to E - Business**

- 1.1 Meaning, Significance, Advantages and Challenges in E-Commerce
- 1.2 E-Commerce Models – B2B, B2C, C2B and C2C
- 1.3 E-Commerce in India (Internet, World Wide Web, Internet Architectures, Internet Applications, Web Based Tools for Electronic Commerce)

**Unit 2**

**E- Business Infrastructure ( 10 Hours)**

- 2.1 Business Applications on Intranet, Extranet.
- 2.2 Electronic Data Interchange - Components and Communication process
- 2.3 E-HRM – Concept, Importance and Challenges in E-HRM
- 2.4 Impact of E-HRM practices in Organizational Performance

**Unit 3**

**E-Business Payment and Security (15 Hours)**

- 3.1 Electronic Payment System – Meaning, Characteristics and Advantages
- 3.2 Types of Electronic Payment Systems- Smart Cards, Credit Card, Debit Card, NEFT, E-Wallet, E-Cash and other Electronic Payment Systems
- 3.3 Infrastructure Issues in EPS, Electronic Fund Transfer



- 3.4 Internet Security Threats to E-Business – an Overview
  - 3.4.1 Cryptography, Security, Encryption, Public Key and Private Key Cryptography, Digital Signatures, Digital Certificates
  - 3.4.2 Security Protocols, Public Networks- HTTPS, SSL, Firewall Public Key Infrastructure (PKI) for Security, Prominent Cryptographic Applications

**Unit 4 (10 Hours)**  
**E-Marketing**

- 4.1 Consumer Oriented E-Business – E-Tailing and Models-B2B, B2C, C2C, C2B and G2B
- 4.2 Marketing on Web – Advertising, Marketing, Online Services and Web Auctions, Virtual Communities and Web Portals
- 4.5 E- Governance- EDI on the Internet, Delivery Management System
- 4.6 Social Media Marketing – Advantages and Disadvantages

**Unit 5 (7 Hours)**  
**Legal and Ethical Issues in E- Business**

- 5.1 Legal, Ethical and Privacy Issues – Need for Protection and Methodology
- 5.2 Online Consumer Protection-Rights
- 5.3 Information Technology Act – Emerging Trends

**BOOKS FOR STUDY**

Harvey M.Deitel, Paul J.Deitel, Kate Steinbuhler, *E-business and e-commerce for managers*, Pearson, 2011.

Efraim Turban, Jae K. Lee, David King, Ting Peng Liang, Deborrah Turban, *Electronic Commerce –A managerial perspective*, Pearson Education Asia, 2010

**BOOKS FOR REFERENCE**

Parag Kulkarni, Sunita Jahirabadkao, Pradeep Chande, *e business*, Oxford University Press, 2012

Gary P. Schneider, *Electronic commerce*, Thomson course technology, Fourth annual edition, 2007

Bharat Bhasker, *Electronic Commerce – Frame work technologies and Applications*, 3<sup>rd</sup> Edition. Tata McGrawHill Publications, 2009

Kamlesh K.Bajaj and Debjani Nag, *Ecommerce- the cutting edge of Business*, Tata McGrawHill Publications, 7th reprint, 2009.

## **JOURNALS**

International Journal of Internet and Enterprise management

International Journal of Enterprise Network management

International Journal of Enterprise Information System

Journal of Enterprise Information Management

## **WEB RESOURCES**

<https://www.ici.net.au/blog/e-business-management-what-you-need-to-know>

<https://iveybusinessjournal.com/publication/the-strategic-management-process-in-e-business/>

<https://www.dailypioneer.com/2018/avenues/managing-e-commerce>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:                                      Total Marks: 50**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination                      Total Marks: 100                      Duration: 3 hours.**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**BUSINESS COMMUNICATION**

**CODE: 19CM/MC/BC53**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the essentials of business correspondence
- To enable students to develop their business communication skill
- To help students to understand the importance of communication in business
- To assist students to appreciate the importance of business language and presentation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the importance of communication in business
- Evaluate the role of technology in making communication effective
- Prepare resume and presentable job application letters
- Appreciate the importance of AIDA in business communication

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Nature, Process and Importance of Communication
- 1.2 Types of Communication
- 1.3 Barriers to Communication

**Unit 2**

**Business Correspondence**

**(12 Hours)**

- 2.1 Need and Importance of Business Correspondence
- 2.2 Planning, Layout and Kinds of Business Letters
- 2.3 Kinds of Business Correspondence
  - 2.3.1 Quotation-Inviting Quotations, sending Quotations.
  - 2.3.2 Sales letters, Claim inviting Adjustment
- 2.4 Official Legal Communication
  - 2.4.1 Memorandum, Inter-office Memorandum.
  - 2.4.2 Notices, Agenda, Minutes
- 2.5 Job Application Letter, Preparing a Resume

### **Unit 3**

#### **Business Report Writing**

**(10 Hours)**

- 3.1 Importance and Need for Report-Writing
- 3.2 Format of a Report-Guidelines in the preparation of a report
- 3.3 Process of writing a Report
- 3.4 Importance of including Visual Charts in writing Reports
- 3.5 Citation Rules in Reports and Types of Reports

### **Unit 4**

#### **Business Language and Presentation**

**(10 Hours)**

- 4.1 Importance of Business Language
- 4.2 Oral presentation- Importance, Characteristics
- 4.3 Presentation Plan, Power Point Presentation, Visual Aids

### **Unit 5**

#### **Business Communication and Technology**

**(10 Hours)**

- 5.1 Role, Effects and Advantage of Technology in Business Communication
- 5.2 Importance of E-Communication
  - 5.2.1 E-mail, Text Messaging, Instant Messaging and Modern Techniques-Video Conference

### **BOOKS FOR STUDY**

Rajendra Pal and Korlahalli.J.S *Business Communication* , Sultan Chand & Sons, 8<sup>th</sup> edition, 2015

M. K. Sehgal, Vandana Khetarpal *Business Communication*, Excel Books; 2<sup>nd</sup> edition, 2013

### **BOOKS FOR REFERENCE**

Harvard Business School Press Harvard Business School, *Business Communication*, Publishing Harvard Business Press, 2012

Bovee, C/Thill, J/Schatzman, *Business Communication Today*, 12<sup>th</sup> edition Pearson Education, 2014

Sharma, R. C/Mohan, *Business Correspondence & Report Writing*, 4<sup>th</sup> edition TMH, 2010

Kathryn Rentz and Paula, *Business Communication*, Mcgrawll Publication, 2010

### **JOURNALS**

International Journal of Business Communication

ABC: International Journal of Business Communication-SCImago

### **WEB RESOURCES**

[www.pixelmattic.com](http://www.pixelmattic.com)

[www.businesscommunication.org](http://www.businesscommunication.org)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes.**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Components:                                      Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Department of Commerce (General and Accounting and Finance) to B.Com. General and Accounting and Finance Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**SOCIAL FINANCE AND IMPACT INVESTING**

**CODE: 19ID/IC/SI55**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To provide students with a conceptual foundation for social finance
- To enable students to understand the theoretical concept of impact investing
- To acquaint students with the policies and actions that affect social performance and investor reactions

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Demonstrate knowledge of the origin of social finance and impact investing
- Conceive, design, develop and present a comparative analysis of impact investing strategies
- Synthesise the opportunities and barriers to impact investing for individuals, institutions, funds, communities and governments
- Understand the gap in funding the start-up social enterprises

**Unit 1 (15 Hours)**

**Introduction**

- 1.1 Meaning, Important Definition and Evolution of the Term
- 1.2 Social Enterprise and Social Finance Market
- 1.3 Need for Finance by the Social Enterprise
- 1.4 Elements of Social Finance – Demand, Supply and Intermediaries
- 1.5 Entrepreneurial Social Finance Eco System

**Unit 2 (15 Hours)**

**Social Finance Investment**

- 2.1 Social Finance Investment – Meaning and Characteristics
- 2.2 Place and With Whom
- 2.3 Financing for Social Innovation
- 2.4 Types of Social Finance Investment

**Unit 3** (15 Hours)  
**Impact Investing**

- 3.1 Meaning, Difference between Traditional Investing and Impact Investing
- 3.2 Overview of the spectrum of Investment Opportunities from Traditional to Philanthropy
- 3.3 Emergence and Driving Forces of Impact Investing

**Unit 4** (15 Hours)  
**Impact Investing to the Sectors**

- 4.1 Microfinance and Development Related Investment
- 4.2 Pros and Cons of using Business Approaches (Impact Investing) to tackle these World Issues Vs Government Intervention
- 4.3 Large Scale Impact Investing Programmes: Deutsche Eye Bank etc.

**Unit 5** (18 Hours)  
**Financial Tools for Integrated Portfolios**

- 5.1 Defining Traditional Risk and Social Risk
- 5.2 Evaluating risks across sectors
- 5.3 Sustainability Accounting Standards Board – Trends in Integrated Portfolio Management

**BOOKS FOR STUDY**

Bugg-Levine, Antony and Emerson, Jed, *Demystifying Impact Investing*, Wiley, 2011  
Rodin, Judith, *The Power of Impact Investing*, Wharton Digital Press, 2014  
Balkin, Jeremy, *Investing with Impact*, Routledge Publications, 2015

**BOOKS FOR REFERENCE**

Clark, C., Emerson J. and Thornley, *The Impact Investor: Lessons in Leadership and Strategy for Collaborative Capitalism*, Jossey-Bass Publications, 2015  
Kelly, Majorie, *The Divine Right of Capital: Dethroning the Corporate Aristocracy*, Berrett-Koehler Publishers, 2015  
Shiller, R., *Finance and the Good Society*, Princeton University Press, 2012  
Tan, Kim and Griffiths, Brian, *Social Impact Investing*, Anchor, 2016

**JOURNALS**

Journal of Sustainable Finance and Investment  
Journal of Social Innovations

**WEB RESOURCES**

[www.alliancemagazine.org](http://www.alliancemagazine.org)  
[www.cgap.org](http://www.cgap.org)  
[www.responsiblesearch.com](http://www.responsiblesearch.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 Mins**

Section A  $7 \times 2 = 14$  (no choice)

Section B  $2 \times 8 = 16$  (from a choice of three)

Section C  $1 \times 20 = 20$  (from choice of two)

### **Other Components:**

**Total Marks: 50**

Presentations/Case Studies/Assignment

### **End Semester Examination:**

**Total Marks: 100**

**Duration: 3 Hours**

Section A – Short Answers (max. 50 words) -  $10 \times 2 = 20$  Marks

Section B – Long Answers  $5 \times 8 = 40$  Marks (From a choice of 7)

Section C – Essay answers  $2 \times 20 = 40$  Marks (From a choice of 4)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**BUSINESS ETHICS AND SOCIAL RESPONSIBILITY**

**CODE: 19CM/MC/BR63**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To provide students an understanding and practices of business ethics and corporate social responsibility in the global and Indian context
- To familiarise students with the various CSR initiatives and the environmental aspects of CSR
- To educate students on the ethical issues in finance, marketing and advertising

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the ethical issues and challenges faced by corporate decision makers
- Analyse the role and responsibilities of stakeholders in business
- Compare the CSR initiatives of different organisations
- Comprehend the doctrine of ethical practices

**Unit 1**

**Introduction to Ethics**

**(10 Hours)**

- 1.1 Meaning, Scope and Objectives of Ethics
- 1.2 Business Ethics and Globalisation
- 1.3 Practicing Ethics in Business
- 1.4 Ethical Dilemma in Business

**Unit 2**

**Ethics in Business**

**(12 Hours)**

- 2.1 Ethical Issues in Finance – Issues related to Financial Services, Insider Trading and Takeovers
- 2.2 Ethical Issues in Marketing and Advertising
- 2.3 Whistle Blowing and Whistle Blowers Protection

**Unit 3**

**Drivers of CSR-Ethical Theory**

**(10 Hours)**

- 3.1 Drivers of CSR Disclosures
- 3.2 Driving forces of CSR, Consumers as Drivers of CSR, Government as Drivers of CSR
- 3.3 Utilitarianism in Ethics- Ethics in Law Enforcement
- 3.4 Types of Normative Ethical Theories

## **Unit 4**

### **Corporate Social Responsibility**

**(10 Hours)**

- 4.1 CSR-Initiative Toward Stakeholder, Employees, Consumers, Government and Suppliers
- 4.2 Corporate Philanthropy and Community Volunteering
- 4.3 CSR Initiatives in Different Corporate Sector- Case study
- 4.4 Models of CSR - Archie Carroll

## **Unit 5**

### **Environmental aspects of CSR**

**(10 Hours)**

- 5.1 Significance of CSR, Legal, Political Social and Cultural Requirements
- 5.2 CSR and Corporate Sustainability
- 5.3 Role of Government in Managing Environmental Issues

## **BOOKS FOR STUDY**

Andrew Crane Dirk Matten. *Business Ethics*. New Delhi: Oxford University Press.2010

Joan R. Boatright. *Ethics and the Conduct of Business..* Pearson. 2018

## **BOOKS FOR REFERENCE**

Bhanu Murthy, K. V. and Usha Krishna, *Politics Ethics and Social Responsibilities of Business*. New Delhi: Pearson Education.2015

Christine, A Mallin. *Corporate Governance* (Indian Edition). New Delhi: Oxford University Press. 2010

Geeta Rani, D & R K Mishra. *Corporate Governance-Theory and Practice*. New Delhi: Excel.

Kotler, Philip and Nancy Lee. *Corporate Social Responsibility – Doing the Most Good for Your Company and Your Cause*. Wiley – India, 2017.

Fernanado,A.C. ,*Corporate Governance-Principles, Policies and Practice*, Pearson 2009

## **JOURNALS**

International Journal of Management Reviews

International Journal on Corporate Strategy and Social Responsibility

## **WEB RESOURCES**

[www.ibscdc.org](http://www.ibscdc.org)

[www.exed.hbs.edu](http://www.exed.hbs.edu)

[www.hbr.org](http://www.hbr.org)

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes.**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:****Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTERNATIONAL BUSINESS**

**CODE: 19CM/MC/IB64**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide the students a comprehensive understanding on the importance and impact of Globalization in International Business
- To familiarise students with the International Business environmental factors
- To expose students to the International Institutions governing International Trading System
- To provide an overview on Global Governance

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Analyse the impact of Globalization in International Business
- Comprehend the various factors that affect the Global Environment
- Appreciate the working of International Organization engaged in International Trade
- Understand the Global Gaps present in International Business

**Unit 1**

**(10 Hours)**

**Introduction to International Business**

- 1.1 Nature and Importance of International Business
- 1.2 Drivers of International Business, Difference between International Business and Domestic Business
- 1.3 Evolution of International Business
- 1.4 Effects of Globalization

**Unit 2**

**(15 Hours)**

**International Business Environment**

- 2.1 Nature, Concept and Significance of International Business Environment
- 2.2. Types of International Business Environment

**Unit 3**

**(15 Hours)**

**International Business Management – Finance & Marketing**

- 3.1 Sources of Finance for Exporters
- 3.2 Export- Import (EXIM) Bank of India and Export Credit Guarantee Corporation (ECGC) of India

- 3.3 Market Selection – Process and Determinants
- 3.4 Market Entry Strategies

**Unit 4 (15 Hours)**

**International Trade Institutions**

- 4.1 Trends in the World Trade & Economic growth
  - 4.1.1 General Agreement on Tariff and Trade (GATT)
  - 4.1.2 General Agreement on Trade in Services (GATS)
- 4.2 International Organizations – International Monetary Fund (IMF), World Trade Organization (WTO), United Nation Conference on Trade and Development(UNCTAD)

**Unit 5 (10 Hours)**

**Regulatory Framework for International Business**

- 5.1 FDI- Establishment of Business in India by a Foreign company
- 5.2 ODI- Establishment of Business outside India by an Indian company
- 5.3 Double Taxation Avoidance Agreement

**BOOKS FOR STUDY**

K.Aswathappa., *International Business*, McGrawHill Education, 2017.

C.B.Gupta, *International Business*, S Chand Co.2014

**BOOKS FOR REFERENCE**

Thomas Weiss, *Global Governance: Why? What? Whither?*, Wiley Publishers 2016.

Shaikh Saleem, *Business Environment*, Pearson Education India, 2015

Francis Cherunilam,,*International Business- Text and Cases*, New Delhi: Prentice Hall,2010

James.P.Neelankavil and Anoop Rai, *Basics of International Business*,M.E.Sharpe,2015

**JOURNALS**

Journal of International Business & Economics

Journal of International Management

**WEB RESOURCES**

[www.civilservice.com](http://www.civilservice.com)

[www.indiafilings.com](http://www.indiafilings.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:      Total Marks: 50**

**Duration: 90 minutes.**

Section A –  $7 \times 2 = 14$  Marks (no choice)

Section B –  $2 \times 8 = 16$  Marks (from a choice of three)

Section C –  $1 \times 20 = 20$  Marks (from a choice of two )

**Other Components:      Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation

**End Semester Examination:      Total Marks: 100**

**Duration: 3 hours.**

Section A –  $10 \times 2 = 20$  Marks (no choice - Max 30 words )

Section B –  $5 \times 8 = 40$  Marks (from a choice of seven - Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**ENTREPRENEURIAL DEVELOPMENT**

**CODE: 19CM/MC/ED64**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To provide valuable guidance and management tools to students to set up their own business
- To provide students a conceptual and practical foundation for entrepreneurial development
- To provide comprehensive knowledge to the students on the various aspects related to entrepreneurial development
- To familiarise the students with the practical knowledge for starting a business

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Analyse the business environment in order to identify business opportunities,
- Generate and evaluate ideas for new business ventures
- Explore the possibility of setting up a business
- Understand the importance of marketing and management in new business ventures

**Unit 1**

**(15 Hours)**

**Introduction**

- 1.1 Entrepreneurship, Entrepreneur and Enterprise - Meaning, Definition, Characteristics and Qualities for an Ideal Entrepreneur
- 1.2 Functions and Types of Entrepreneur - Social Entrepreneur, Rural Entrepreneur, Self-help Group, E-entrepreneur, etc.
- 1.3 Role of Entrepreneurship in Economic Development
  - 1.3.1 Factors Influencing Entrepreneurship development
  - 1.3.2 Internal and External environment – Economic and Non - economic, Psychological, Social, Cultural, Political, Legal and Economic factors
- 1.4 Factors impacting Emergence of Entrepreneurship - Barriers

**Unit 2**

**Enterprise Process and Strategies**

**(15 Hours)**

- 2.1 Opportunity Identification and Selection
- 2.2 Idea Generation and Screening of Business Idea
  - 2.2.1 Sources of Business Idea – Internal and External
  - 2.2.2 Evaluation of Business Idea
  - 2.3.3 Selection of Business Idea

- 2.3 Business Plan – Meaning, Contents and Significance of Business Plan
  - 2.3.1 Business Plan Process, Advantages of Business Planning.
  - 2.3.2 Environmental Analysis - Scanning, SWOT Analysis.

### **Unit 3**

#### **Project Proposal**

**(15 Hours)**

- 3.1 Project Identification and Classification
  - 3.1.1 Project – Meaning and Types
  - 3.1.2 Internal and External Constraints in Identifying Project
  - 3.1.3 Project Life Cycle
- 3.2 Project Formulation
  - 3.2.1 Meaning and Stages in Project Formulation
  - 3.2.2 Need and Significance of Project Formulation
  - 3.2.3 Elements of Project Formulation
- 3.3 Project Feasibility
  - 3.3.1 Project Feasibility Analysis
- 3.4 Preparing Model Project Report for Starting a New Venture

### **Unit 4**

#### **Women Entrepreneurship**

**(10 Hours)**

- 4.1 Role and Challenges of Women Entrepreneur
- 4.2 Special privileges and problems faced by Women Entrepreneur

### **Unit 5**

#### **Entrepreneurial Finance**

**(10 Hours)**

- 5.1 Financial Planning – Meaning and Need
- 5.2 Sources of finance – Internal and External
- 5.3 Working Capital Management - Sources and Factors Determining Working Capital
- 5.4 Role of Banking and Non-Banking Institutions assisting Entrepreneurs
- 5.5 Government Assistance through Subsidies and Incentives

### **BOOKS FOR STUDY**

S.S.Khanka, *Entrepreneurial Development*, S. Chand & Co, New Delhi, 2015  
 Desai, V. *Dynamics of Entrepreneurship Development and Management*, New Delhi: Himalaya Publishers, 2015

### **BOOKS FOR REFERENCES**

Jayashree Suresh, *Entrepreneurial Development*, Margham Publications, New Delhi, 2015  
 C.B. Gupta & N. P. Srinivasan, *Entrepreneurial Development*, Sultan Chand & Sons, 2016  
 Poornima, C. *Entrepreneurship Development - Small Business Enterprises*. New Delhi: Pearson, (2011).  
 Robert D. H.& Peters, M.P. *Entrepreneurship*. New Delhi: Tata McGraw Hill, 2013  
 Gopalakrishnan, P. *Textbook of Project Management*. New Delhi: Macmillan, 2014



## **JOURNALS**

International Journal of entrepreneurship development and Small business

Journal of entrepreneurship education

Journal of Business venturing

International Journal of Project Management

## **WEB RESOURCES**

<http://www.entrepreneur.com>

<http://www.businessesforsale.com>

<http://www.sba.gov>

<http://joe.sagepub.com/content/19/2.toc>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes.**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:                      Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation

**End Semester Examination:    Total Marks: 100                      Duration: 3 hours.**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words )

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.COM. DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**AUDITING**

**CODE: 19CM/MC/AG64**

**CREDITS : 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To provide the students' an understanding of the principles and techniques of auditing in accordance with the current legal requirements and professional standards
- To give an overview of the theories of corporate governance
- To acquaint students with audit process and procedures

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the procedure and techniques of auditing
- Evaluate the audit process and procedures
- Verify the financial position of a company
- Appreciate the E-environment audit initiatives of the companies

**Unit 1**

**(10 Hours)**

**Introduction**

1.1 Auditing

- 1.1.1 Meaning and Objective
- 1.1.2 Audit Planning and Internal Control
- 1.1.3 Internal Check and Internal Audit
- 1.1.4 Internal Financial Control
- 1.1.5 Working Papers and Merits of Audit Programmes

1.2 Standards in Auditing issued by ICAI

**Unit 2**

**Audit Evidence**

**(15 Hours)**

- 2.1 Vouching –Importance and Objectives
- 2.2 Factors to be considered during Vouching
- 2.3 Importance of Reconciliation- Bank, Debtors, Creditors, Material and Statutory Dues
- 2.4 Types of Audit Evidence

- Unit 3**  
**Verification of Assets and Liabilities** (15 Hours)  
3.1 Verification- Objectives and Importance  
3.2 Verification of Different Items
- Unit 4**  
**Audit of Limited Companies** (15 Hours)  
4.1 Appointment and Removal of an Auditor  
4.2 Rights, Duties and Liabilities  
4.3 Reporting of Fraud
- Unit 5**  
**Audit Report** (10 Hours)  
5.1 Audit Report including New Audit Reporting Requirements  
5.2 Auditing in an e-Environment

### **BOOKS FOR STUDY**

Tandon, B. N. *Handbook of Practical Auditing*. New Delhi: S.Chand, 2018.  
Sharma.J.P. *Corporate Governance, Business Ethics and CSR*, New Delhi:  
Ane Books Pvt Ltd,2016  
Anil Kumar. *Corporate Governance,Theory and Practice*. NewDelhi: Indian Book  
House,2012

### **BOOKS FOR REFERENCE**

Anil Kumar. *Corporate Governance, Theory and Practice*. NewDelhi: Indian Book  
House,2012

De Paula, F.R.M. *Principles of Auditing: A practical manual for student and practitioners*.  
London: E.L.B.S.,  
2015.  
Pagare, Dinakar..*Auditing* New Delhi: Sultan Chand, 2016.  
Saxena, R. G *Principles and Practices of Auditing* Himalaya Publishers, Mumbai: 2010.

### **JOURNALS**

International Journal of Auditing  
Auditing: A journal of Practice and Theory  
Journal of Accounting, Auditing and Finance  
Accounting, Auditing and Accountability Journal

## WEB RESOURCES

[www.neoxen.com/neoxen/methodology/docs/intro\\_auditing\\_online.pdf](http://www.neoxen.com/neoxen/methodology/docs/intro_auditing_online.pdf)

[www.academia.edu/7505528/verification\\_and\\_valuation](http://www.academia.edu/7505528/verification_and_valuation)

[www.e-conomic.co.uk/accountingsystem/glossary/auditors-report](http://www.e-conomic.co.uk/accountingsystem/glossary/auditors-report)

[accountlearning.blogspot.in/2012/02/advantages-of-audit-program.html](http://accountlearning.blogspot.in/2012/02/advantages-of-audit-program.html)

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes.**

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**End Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

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Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self (10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family (17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**BUSINESS ENVIRONMENT**

**CODE: 19CM/ME/BE45**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide the students an understanding of the environment in which business operates
- To expose students to the various factors that affect the business environment
- To familiarise students with the political and socio-cultural environment of business of business
- To enable students to understand the importance of global business environment

**COURSE LEARNING OUTCOMES**

On successful completion of the course ,students will be able to

- Comprehend the key factors that affect business environment
- Understand the implications of culture across boundaries
- Exhibit an understanding of the political and economic environment of business
- Explore the impact of pollution caused by industries

**Unit 1 (10 Hours)**

**Business Environment – An Overview**

- 1.1 Meaning and Nature of Business Environment
- 1.2 Types of Environment – Internal, External-Micro and Macro Environment
- 1.3 Competitive Structure of Industry, Environment Analysis
- 1.4 Process and Limitations of Environmental Analysis

**Unit 2 (15 Hours)**

**2.1 Economic Environment of Business**

- 2.1.1 Nature of Economic System - Capitalistic, Socialistic and Mixed Economy
- 2.1.2 Process and Techniques of Economic Planning and Policies

**2.2 Political Environment**

- 2.2.1 Functions of State, Economic Roles of Government: Regulatory, Promotional, Entrepreneurial and Planning
- 2.2.2 The Constitutional Environment, Rationale and Extent of State Intervention

**Unit 3**  
**Socio – Cultural Environment (15 Hours)**

- 3.1 Nature and Impact of Culture on Business Culture and Globalisation
- 3.2 Business and Culture with Special reference to Adaptation, Transmission and Conformity
- 3.3 Socio- Cultural Environment – Challenges

**Unit 4**  
**Natural and Technological Environment (15 Hours)**

- 4.1 Nature of Technological Environment and Elements
- 4.2 Impact of Technology on Globalisation, Transfer of Technology, Time lapse in Technology Introduction
- 4.3 Status of Technology in India- Management, Features and Impact
- 4.4 Natural Environment-Impact on Business, Natural Pollution-Meaning, Types

**Unit 5**  
**Global Business Environment (10 Hours)**

- 5.1 Liberalization, Privatization, Globalization and its Need
- 5.2 Regional Economic Grouping – European Union, ASEAN, SAARC
- 5.3 Environmental and Social Responsibility – Current Global Perspective Pertaining to Pollution

**BOOKS FOR STUDY**

K.Aswhappa, *Essentials of Business Environment*.Mumbai;;Himalayas Publishing House,2017

Francis Cherunilam,*Business Environment*, Mumbai :Himalayas Publishing House 2017

**BOOKS FOR REFERENCE**

Shaikh Salem, *Business Environment* New Delhi:Pearson,2015.

T.R.Jain,Mukesh Trehan., Ranju Trehan .*Business Environment*,New Delhi :V. KNOW. Global Publications,2014.

Sankaran.S., *Business Environment*, Chennai:Margham Publications 2013

Francis Cherunilam ,*International Business Environment*, Mumbai :Himalayas Publishing House 2015

**JOURNALS**

International Journal of Business Environment  
Journal of International Business



## WEB RESOURCES

<http://www.business.mapsofindia.com>

<http://www.yourarticlelibrary.com>

<http://www.economicsdiscussion.net>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:                      Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Class Presentation

**End Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**INDIRECT TAXATION**

**CODE: 19CM/ME/IT45**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To familiarize students with Indirect Tax Laws in India
- To acquaint students with the provisions of Indirect Taxation
- To provide a comprehensive knowledge in the administration of Indirect Tax procedures
- To enable students to understand the principles and provisions relating to indirect taxation and GST in India

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Understand the provisions relating to indirect taxation
- Understand the levy of customs duty
- Comprehend the applications of GST in various sectors
- Adapt the registration procedures

**Unit 1 (10 Hours)**

**Introduction to Indirect Taxation**

- 1.1 Indian tax system – Meaning, Indirect Tax Structure in India
- 1.2 Features, Advantages and Disadvantages of Indirect tax
- 1.3 Indirect Tax – Revenue to the Government
- 1.4 Tax Evasion and Avoidance.

**Unit 2 (15 Hours)**

**Customs Duty**

- 2.1 Introduction to Customs Law in India (Customs Act 1962, Customs Tariff Act 1975)
- 2.2 Basic concepts – Meaning of Goods, Types of Goods and Methods of valuation of Imported Goods
- 2.3 Levy and Exemption of Customs Duty
- 2.4 Abatement of duty in Damaged or Deteriorated Goods
- 2.3 Penalties and Offences
- 2.4 Export promotion scheme, EOU – SEZ – Duty drawback.

**Unit 3 (15 Hours)**

**Introduction to GST (Goods and Service Tax)**

- 3.1 Evolution of GST, Significance of its Implementation
- 3.2 Structure of GST in India, Advantages of GST
- 3.3 Dual Concepts of GST – SGST, CGST, IGST, UTGST
- 3.4 Levy and collection of Tax, - Rates of GST, Composite and Mixed Supply
- 3.5 E-Commerce under GST Regime
- 3.6 Inter State Supply and Intra State Supply – Time and Place of Supply

**Unit 4 (15 Hours)**  
**Input Tax Credit and Payment of GST**

- 4.1 Advantages, Methods of Claiming Input Tax under Different Situations
- 4.2 Computation, Recovery, Reversal of Credit
- 4.3 Electronic Ledger – Cash Ledger, Credit Ledger, Liability Ledger
- 4.5 Method of Payment of Tax
- 4.6 Tax Deduction at Source, Collection of Tax at Source and Refund

**Unit 5 (10 Hours)**  
**Registration Procedure**

- 5.1 Registration procedure under GST - Person liable for registration, Compulsory registration
- 5.2 Compulsory Registration, Deemed Registration, Amendment of Registration and Cancellation of Registration
- 5.3 GST Audit
- 5.4 An Overview of Types of Assessment
- 5.5 Impact of GST on Various Sectors

**BOOKS FOR STUDY**

S.S. Gupta; *GST – Laws and Practice*; Taxmanns Publications; New Delhi. 2017

Monish Bhalla ; *Commercial GST – The Game Changer* ; Commercial Law Publishers (India) Pvt. Ltd, New Delhi 2015

**BOOKS FOR REFERENCE**

V. Balachandran “*Indirect Taxation*” Sultan Chand & Kalyani Publishers.,2012

R. Radhakrishnan “ *Indirect Taxation*”, Kalyani Publishers.,2014

Dr.Radha and Dr.Parameswaran, “*Business Taxation*”, Prasanna Publishers, Chennai,2014

Dr.Radha and Dr.Parameswaran, “*Indirect Taxation*” Prasanna Publishers, Chennai, 2014

**JOURNALS**

Journal of Indian Taxation

Indian Journal of Tax Law

Indian Journal of Taxation and Regulatory Framework

## **WEB RESOURCES**

[www.cbic.gov.in](http://www.cbic.gov.in)

[www.idtc.icaai.org](http://www.idtc.icaai.org)

[www.cbec-gst.gov.in](http://www.cbec-gst.gov.in)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two)

**Other Components:                      Total Marks: 50**

Seminars/Quiz/Group discussion/Assignment/Class Presentation

**End Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

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Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**ADVERTISING AND MEDIA MANAGEMENT**

**CODE: 19CM/ME/AM45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with creative strategies in advertising
- To educate students on the importance of media advertising
- To assist students to create an Advertisement Copy

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Create their own Advertisement Copy
- Analyze individual media businesses and understand the economic drivers of the media economy
- Gain a perspective on the facets of media
- Develop an integrated marketing plan using a wide variety of media

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Meaning, Definition and Evolution of Advertising.
- 1.2 Role of Advertising.
- 1.3 Advertising as a Promotional tool.
- 1.4 Economic, Social and Ethical Aspects of Advertising
- 1.5 Advertising as a Communication Process

**Unit 2**

**(15 Hours)**

**Creative Strategy Management**

- 2.1 Advertisement Copy and Advertisement Designing
  - 2.1.1 Meaning- Preparation and process
  - 2.1.2 Types of Advertisement Copy
  - 2.1.3 Elements of Advertisement Copy and Advertisement Design
- 2.2 Advertisement Layout
  - 2.2.1 Structure of an Advertisement Layout
  - 2.2.2 Principles of Advertisement Layout

### **Unit 3**

#### **Advertising and Campaign Planning**

**(15 Hours)**

- 3.1 Marketing Strategy and Situational Analysis
- 3.2 Advertising Plan and Objectives
- 3.3 DAGMAR Approach
- 3.4 Preparation of Campaign- Stages in Campaign Process

### **Unit 4**

#### **Advertising Media Strategy**

**(15 Hours)**

- 4.1 Role of Media, Types of Media- Indoor, Outdoor, Electronic and Online Advantages and Disadvantages
- 4.2 Media Planning-Selection and Scheduling

### **Unit 5**

#### **Media Management strategies**

**(10 Hours)**

- 5.1 Media Choice Criteria- Factors affecting Choice of Media
- 5.2 Choosing the right Agency-Role, Types and Functions of Advertisement Agencies, Selection and Co-ordination of Advertising Agency
- 5.3 Advertisement Budgeting- Types- Affordable Rate Method, Percentage of Sales Method, Competitive Parity Method and Objective and Task Method

### **BOOKS FOR STUDY**

Belch. *Advertising and Promotion*. New Delhi, Tata McGraw Hill, 2017  
Kenneth, E. Clow & Donald E. Baack. *Integrated Advertising Promotion & Marketing Communication*. New Delhi: Prentice Hall, 2015.

### **BOOKS FOR REFERENCE**

Bovee, John.Courtland. L.George, Dovel.P and Wood, Marian Burk. *Advertising Excellence*, New Delhi, Tata McGraw Hill. 1994  
Wells. *Advertising Principles and Practice*, New Delhi, Prentice Hall of India, 2016  
Christina Spurgeon. *Advertising and New Media*. USA Taylor & Francis, latest edition  
Appannaiah.H.R and Ramnath, *Advertising and Media Management*, Himalaya Publisher, 2016

### **JOURNAL**

Journal of Advertising  
Journal of Advertising Research  
Journal of Advertising Education

## **WEB RESOURCES**

[www.managementstudyguide.com/advertising](http://www.managementstudyguide.com/advertising)

[www.doccity.com](http://www.doccity.com)

[www.yourarticlelibrary.com](http://www.yourarticlelibrary.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A- 7x2 =14 Marks(no choice)

Section B- 2x8 =16 Marks(from a choice of three)

Section C- 1x20= 20Marks(from a choice of two)

**Other Components:                      Total Marks: 50**

Seminars/Quiz/Group Discussions/Assignments/Class Presentation

**End Semester Examination    Total Marks: 100**

**Duration: 3 hours**

Section A- 10x2 =20 Marks(no choice- Max 30 words)

Section B- 5x8 =40 Marks(from a choice of seven- Max 500 words)

Section C- 2x20= 40 Marks(from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**RETAIL MANAGEMENT**

**CODE: 19CM/ME/RM45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students the knowledge of contemporary retail management issues
- To give a clear understanding on the concepts of retailing
- To provide students an understanding of the functioning of a retail industry

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Utilise the concepts of retail management in practice
- Gain a perspective on challenges of Retail markets
- Understand the techniques of resource utilisation
- Analyse store location, merchandising, products and pricing

**Unit 1**

**Introduction to Retailing**

**(12 Hours)**

- 1.1 Meaning, Definition of Retailing, Growing Importance of Retail Concept
- 1.2 Dynamic Nature of Retailing-Theories
- 1.3 Retail Formats
- 1.4 Retail Business in India-Influencing Factors, Present Indian Retail Scenario

**Unit 2**

**(12 Hours)**

**Retail Marketing Mix**

- 2.1 Product-Decisions related to Choice of Goods, Delivery of Service
- 2.2 Pricing-Influencing Factors, Approaches to Pricing
- 2.3 Supply Channel –Principles and Retail Logistics
- 2.4 Promotion-Objectives and Promotional Mix

**Unit 3**

**Retail Operations**

**(15 Hours)**

- 3.1 Factors Influencing Location of Stores
- 3.2 Stores Layout and Visual Merchandising- Stores Designing, Spaces Planning and Inventory Management
- 3.3 Merchandise Management- Need, Importance and Process, Skill and Profile of a Merchandiser



## **Unit 4**

### **Consumer Behaviour in Retail Business**

**(15 Hours)**

- 4.1 Buying Decision Process and Implication on Retailing
- 4.2 Influence of Group and Individual Factors
- 4.3 Customer Shopping Behaviour- Customer Service and Customer Satisfaction

## **Unit 5**

### **Emerging Trends in Retailing**

**(11 Hours)**

- 5.1 Changing Nature of Retailing
- 5.2 Organised Retailing, Modern Retailing and E-Tailing
- 5.3 Challenges faced by Retail Sector-Legal Aspects in Retailing, Social and Ethical Issues in Retailing

## **BOOKS FOR STUDY**

David Gilbert , *Retail Marketing* New Delhi, Prentice Hall of India Pvt Ltd, latest edition

Barry Bermans and Joel Evans, *Retail Management- A Strategic Approach* Prentice Hall, edition

Tiwari.T.S, *Retail Management*, Himalaya Publishing House

## **BOOKS FOR REFERENCE**

Chetan Bajaj, *Retail Management*, Oxford Publication

Michael Levy and Barton A Weitz, *Retailing Management*, Tata Mc Graw Hill, New Delhi, latest edition

Natarajan, *Retail Marketing*, Margham Publication, Chennai, latest edition

Uniyal and Sinha, *Retail Management*, Oxford Publication

**NOTE:** Latest edition of Books to be used

## **JOURNALS**

Journal of Retailing- Elsevier

International Journal of Retailing and Distribution Management

International Journal of Retailing Management and Research

The International Review of Retail, Distribution and Consumer Behaviour

## **WEB RESOURCES**

[www.managementstudyguide.com/retail-management](http://www.managementstudyguide.com/retail-management)

[www.knowthis.com/retailing](http://www.knowthis.com/retailing)

[www.yourarticlelibrary.com](http://www.yourarticlelibrary.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:      Total Marks: 50**

**Duration: 90 minutes**

Section A- 7x2 =14 Marks(no choice)

Section B- 2x8 =16 Marks(from a choice of three)

Section C- 1x20= 20 Marks(from a choice of two)

**Other Components:                      Total Marks: 50**

Seminars/Quiz/Group Discussions/Assignments/Class Presentation

**End Semester Examination:   Total Marks: 100**

**Duration: 3 hours**

Section A- 10x2 =20 Marks (no choice- Max 30 words)

Section B- 5x8 =40Marks (from a choice of seven- Max 500 words)

Section C- 2x20= 40Marks (from a choice of four- Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**EQUITY INVESTMENT AND STOCK TRADING**

**CODE: 19CM/ME/ES45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with adequate knowledge of both investment theory and practices
- To expose students to the framework of modern portfolio and investment analysis for critical evaluation
- To familiarise students with the practical perspective of the trading strategies and tools used for analysis of investment in the stock market

**COURSE LEARNING OUTCOMES**

On successful completion of the course the students will be able to

- Obtain comprehensive knowledge on types of stocks, exchanges, brokerage accounts, order types, bull/ bear markets, primary and secondary market
- Design investment decisions based on available evidence and analysis
- Understand the benefits of diversification of individuals portfolio
- Comprehend the operations of the security markets and mechanics of trading

**Unit 1**

**Introduction to Investment (10 Hours)**

- 1.1 The Investment Environment – Securities, Risk, Return and Diversification, Financial Intermediaries and Security Markets
- 1.2 Types of Investment
- 1.3 Investment Process – Investment Policy, Security analysis, Portfolio Construction, Revision and Performance Evaluation
- 1.4 Concept of Return and Risk-Tradeoff between Return and Risk, Impact of Taxes and Inflation Return

**Unit 2**

**Investing Fundamentals (15 Hours)**

- 2.1 Indian Security market – The Market Participants, Trading Security, Security Market Indices
- 2.2 Stock Exchange in India
- 2.3 Sources of Financial Information

- 2.4 Basic Concepts- Margin, Shorting, Stock Splits, Market Capitalisation, Dividends, Stock Market Psychology
- 2.5 Other Investments – Options, Futures, International Investing

### **Unit 3**

#### **Approaches of Equity Analysis (15 Hours)**

- 3.1 The Layers of Equity Evaluation
- 3.2 Equity Portfolio Management
- 3.3 Fundamental analysis – Establishing the Value Benchmark
- 3.4 Technical Analysis and Efficient Market Hypothesis

### **Unit 4**

#### **Stock Analysis (15 Hours)**

- 4.1 Types of Trading-Day Trading, Short Term, Medium Term and Long Term Trading
- 4.2 Stock Quotation, Types of Placing of Order
- 4.3 Analysis of Company – Ratio Analysis, Future Prospectus of the Company, Assessing Quality Using Financial and Non- Financial Data and Balance Sheet

### **Unit 5**

#### **Stock Valuation (10 Hours)**

- 5.1 Stock Valuation- using PE ratio, PEG Ratio, Price Revenue Ratio
- 5.2 Use of Historic Price – Simple Moving Average, Basic and Advanced Interactive Chart
- 5.3 Stock Picking Strategies
- 5.4 Examining the Share Holding Pattern of The Company
- 5.5 Pitfalls to avoid while Investing

### **BOOKS FOR STUDY**

Gordan Alexander., William F. Sharpe., Bailey., *Fundamentals of Investment*, 2<sup>nd</sup> Edition, PHI,1993

Chandra Prasanna, *Investment Analysis and Portfolio Management.*, Tata McGraw-Hills

Bodie. Zvi, Kane Alex., Marcus. Alan., *Investments*, McGrawHills Eduaction, 2017

Jack D. Schwager., *The Little Book of Market Wizard.*, Wiley., 2016

### **BOOKS FOR REFERENCE**

Jones.,C.P., *Investment Analysis and Management.*, Wiley

Fischer, Donald E. and Ronald . J Jordan, *Security Analysis and Portfolio Management*, 6<sup>th</sup> Edition, Prentice Hall of India, 2007

Bhalla, V.K., *Investment Management*, S. Chand & Co.

Vohra, N.D; abd B R Bagri, *Futures and Options*, Tata McGraw Hills Publishing

## **JOURNALS**

Investopedia

Investor's Business Daily

Dalal Street Investment

Journal of Investing

## **WEB RESOURCES**

[www.nseindia.com](http://www.nseindia.com)

[www.bsebt.com](http://www.bsebt.com)

[www.moneycontrol.com](http://www.moneycontrol.com)

[www.yahooofinance.com](http://www.yahooofinance.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A -  $7 \times 2 = 14$  (no choice)

Section B -  $2 \times 8 = 16$  (from a choice of three questions)

Section C -  $1 \times 20 = 20$  (from a choice of two questions)

**Other Components: Total Marks: 50**

Assignments/Seminars/Building Portfolio/Class Presentation

**End Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  Marks (no choice – Max 30 Words)

Section B –  $5 \times 8 = 40$  Marks (From a choice of seven questions – Max 500 words)

Section C –  $2 \times 20 = 40$  Marks (From a choice of four questions – Max 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS) - 600 086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**SUPPLY CHAIN AND LOGISTICS MANAGEMENT**

**CODE: 19CM/ME/SL45**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students an understanding of the framework of supply chain network and functions
- To familiarises students with documentation relating to logistics
- To provide knowledge to the students on the role of logistics in market oriented society

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Analyse the issues in logistics management
- Understand the concept of customer service application of logistics information
- Gain expertise on the concepts of Inventory Management
- Evaluate the role of E- business in supply chain

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Role of Logistics and Supply Chain Management – Scope and Importance
- 1.2 Evolution of Supply Chain- Decision Phases in Supply Chain
- 1.3 Drivers of Supply Chain Performance and Obstacles

**Unit 2**

**Supply Chain Network**

**(12 Hours)**

- 2.1. Role of Distribution in Supply Chain- Factors influencing Distribution Network
- 2.2. Source Evaluation- Collaborative Perspective, Supplier and Buyer Relationship
- 2.3. Inventory Management in Supply Chain–Concept, Cost associated with Inventory and Methods and Techniques of Inventory Control

### **Unit 3**

#### **Logistics in Supply Chain (12 Hours)**

- 3.1. Role of Transportation in Supply Chain- Factors affecting Transportation
- 3.2. Decision- Design options for Transportation Network, Routing
- 3.3. Scheduling and Transportation- Indian Transportation System
- 3.4. Transportation Document- CFS (Container Freight Station) ICDS (Inland Container Depot)

### **Unit 4**

#### **Sourcing and Co-ordination in Supply Chain (15 Hours)**

- 4.1. Role of sourcing in Supply Chain- Supply selection Assessment and Contracts
- 4.2. Source planning and analysis- Bull Whip Effect
- 4.3. Supply Chain Co-ordination- Effect of lack of co-ordination, Obstacles
- 4.4. Building Strategic Partnership and Trust within a Supply Chain

### **Unit 5**

#### **International Logistics and Supply Chain Management (16 Hours)**

- 5.1. Global Supply Chain Integration- Role of Government in controlling International trade
- 5.2. Role of IT in Supply Chain- Internal Supply Chain Management, Supplier Relationship Management
- 5.3. Future of IT in Supply Chain, E- Business in Supply Chain

### **BOOKS FOR STUDY**

Sunil Chopra, Peter Meindl and Kalra, *Supply Chain Management Strategy, Planning and Operation*, Pearson Education 2010

D.K.Agarwal, *Textbook of Logistics and Supply Chain Management*, Laxmi Publications, 2003

### **BOOKS FOR REFERENCE**

Joel D. Wisner G. Keong Keah Chaontan., *Principles of Supply Chain Management a balanced approach*, 3<sup>rd</sup> edition 2011.

Bowersox, *Logistics Management* McGraw Hill 2013

Srinivasan G. S., *Quantitative Models in Operations and Supply Chain Management* PHI 2010

Martin Christopher, *Logistics and Supply Chain Management*, Prentice Hall, 2011

### **JOURNALS**

International Journal on Supply Chain Management

International Journal of Physical Distribution and Logistics management

## **WEB RESOURCES**

[www.esourcingforum.com](http://www.esourcingforum.com)

[www.supplychaindigital.com](http://www.supplychaindigital.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes.**

Section A – 7 x 2 = 14 Marks (no choice)

Section B – 2 x 8 = 16 Marks (from a choice of three)

Section C – 1 x 20 = 20 Marks (from a choice of two )

**Other Components:                                      Total Marks: 50**

Seminar/Group Discussion/Assignments/Class Presentations

**End Semester Examination                      Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 Marks (no choice - Max 30 words)

Section B – 5 x 8 = 40 Marks (from a choice of seven - Max 500 words)

Section C – 2 x 20 = 40 Marks (from a choice of four -Max 1200 words )



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**General Elective Course Offered by the Department of Commerce to students of**  
**B.A / B.Sc. / B.Com. / B.Com CS/ B.Com A & F/ B.C.A. / B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**FUNDAMENTALS OF INVESTMENT PLANNING**

**CODE: 19CM/GE/FI22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS 26**

**OBJECTIVES OF THE COURSE**

- To provide students with an insight of personal finance and to inculcate the habit of savings
- To enable students to develop skills for analyzing and planning personal investments
- To provide students an understanding of the need for Savings and Investment.
- To familiarise the students with various Investment avenues available.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the basics of personal savings and investment plan
- Understand the Personal Financial Management
- Identify the various investment alternatives
- Develop the skills to take advantage of favorable Investment opportunities

**Unit 1**

**(10 Hours)**

**Introduction to Financial Planning**

- 1.1 Financial planning – Meaning and Importance
- 1.2 Investment- Definition, Nature, Factors Influencing Investment.
  - 1.2.1 Financial Planning- Meaning and Importance
  - 1.2.2 The Personal Financial Planning Process, Preparation of Personal Budget
- 1.3 Personal Financial Statements, tax planning and legal aspects of financial planning
- 1.4 Investment Media, Principles, Avenues and Modes.

**Unit 2**

**(8 Hours)**

**Investment options and operational scenario.**

- 2.1 Needs and benefits of investing
- 2.2 Sources of financial information
- 2.3 Personal Savings & Investment: Investment Criteria- Liquidity, Safety and Profitability, Savings and Instruments of Post Office and Banks. Chit Funds. Investment in Shares, Debentures, Corporate and Government Bonds
- 2.4 Systematic Investment Planning, National Pension Scheme, Public Provident Fund (Retirement Savings Plans, Pension Plans)

## Unit 3

(8 Hours)

### Insurance and Risk Management

3.1 Analysis of Risk in Investment (Theory)

3.2 Insurance Contract: Life Insurance Contract- Features, Policy, Conditions and General Insurance Plans and Products

### BOOKS FOR STUDY

Madhu Sinha, *“Financial Planning: Theory and Practice”* Tata McGraw-Hill Publishing Company Ltd, New Delhi

Ankit Gala and Khushboo, *“Investment Planning”* Buzzing Stock Publishing house, Mumbai

### BOOKS FOR REFERENCE

Dr. P.K. Gupta, *Insurance and Risk Management”*, Himalaya Publishing House, Mumbai

Ranganathan and Madhumathi, *Investment Analysis and Portfolio Management*, Pearson, New Delhi

Risk analysis, Insurance and Retirement Planning; Taxmaan; 2017

Information Brouchers of Post Offices, Banks, Mutual Funds, Insurance Companies

### JOURNALS

Journal of Financial Planning

Journal of Personal Finance

The Journal of Investing

### WEB RESOURCES

[www.moneycontrol.com](http://www.moneycontrol.com)

[www.investopedia.com](http://www.investopedia.com)

[www.amfiindia.com](http://www.amfiindia.com)

[www.nationwide.com](http://www.nationwide.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test: Total Marks: 25 Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

### Other Components

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**General Elective Course Offered by the Department of Commerce to students of**  
**B.A / B.Sc. / B.Com. / B.Com CS/ B.Com A & F/ B.C.A. / B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**CUSTOMER CARE AND PROTECTION**

**CODE: 19CM/GE/CC22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the need for customer protection
- To provide an understanding to the students about the legal measures for customer protection in India
- To expose students to the role of different agencies in establishing product and service standards
- To analyse the Consumer Awareness Programmes in India

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Acquaint with their rights as a Consumer
- Understand the procedures to redress Consumer Complaints
- Comprehend the basic procedures for handling Consumer Dispute
- Gain knowledge about the emerging issues and policies relating to Consumer Protection

**Unit 1 (8 Hours)**

**Conceptual Framework**

- 1.1 Consumer and Markets
  - 1.1.1 Concept of Consumer, Nature of Market
  - 1.1.2 Concept of Price – Wholesale and Retail, Maximum Retail Price
  - 1.1.3 Labelling and Pricing
- 1.2 Customer Satisfaction and Dissatisfaction-Factors
- 1.3 Rights of the Consumers

**Unit 2 (10 Hours)**

**Grievance Redressal Mechanism**

- 2.1 Types of Complaints-Frivolous Complaints and Vexatious Complaints
- 2.2 Grounds of Filing a Complaint, Procedure, Relief, Legal and Voluntary Measures
- 2.3 Doctrine of Caveat Emptor, Caveat Emptor Venditor
- 2.4 Role of the Media and Government

**Unit 3 (8 Hours)**

**Consumer Protection in India**

- 3.1 Recent Developments in Consumer Protection in India
- 3.2 COPRA

- 3.3 Legal Cases in India
  - 3.3.1 Banking- RBI and Banking Ombudsman
  - 3.3.2 IRDA
  - 3.3.3 Telecommunication-TRAI
  - 3.3.4 Food Products-FSSAI
  - 3.3.5 Advertising-ASCI

### **BOOKS FOR STUDY**

Dr. Roopa Om Mathur-*Consumer protection* - Vayu Education of India.  
Agarwal V.K. *Consumer Protection Law and Practice*, 5th ED, New Delhi. BLH Publishers, Distributors Pvt Ltd 2009

### **BOOKS FOR REFERENCE**

Barowalis JN *Commentary on the consumer Protection Act*, 3rd Ed, Delhi. Universal Law Publishing Co. Pvt Ltd 2008  
Dugar SM *Commentary on Consumer Protection Law*, Vol.2. 4th Ed, Nagpur. Wadha and Company 2006  
Gambhir Cheena, *Consumer Protection Administration - Organization and Working*, New Delhi. Deep and Deep Publication Pvt Ltd 2007

### **JOURNALS**

Consumer Protection Judgements (CPJ)  
Recent Issues of Magazines-Insite  
Consumer Voice

### **WEB RESOURCES**

[www.ncdrc.nic.in](http://www.ncdrc.nic.in)  
[www.trai.gov.in](http://www.trai.gov.in)  
[www.fssai.gov.in](http://www.fssai.gov.in)

### **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 60 minutes</b>
Section A – 5 x 1 = 5 marks (Objective questions)		
Section B – 5 x 2 = 10 marks (from a choice of seven)		
Section C – 2 x 5 = 10 marks (from a choice of four)		

<b>Other Components</b>	<b>Total Marks: 25</b>
Assignments/Objective Test/Quiz/Presentation	

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**General Elective Course Offered by the Department of Commerce to students of**  
**B.A / B.Sc. / B.Com. / B.Com CS/ B.Com A & F/ B.C.A. / B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**SOCIAL MEDIA MARKETING**

**CODE: 19CM/GE/SM22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To provide students an insight into the nature and scope of social media marketing
- To give an overview on the different forms of social media
- To provide students an outline about content marketing

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Demonstrate how to use social media as a marketing tool
- Define the role of social media marketing in the promotion mix
- Influence brand awareness by leveraging multiple social media channels
- Formulate a social media marketing strategy suited for their needs

**Unit 1 (8 Hours)**

**Introduction**

- 1.1 Introduction to Social Media- Meaning, Scope, Importance and Relevance of Social Media Marketing
- 1.2 Benefits and Pitfalls of Social Media Marketing
- 1.3 Role of Social Media Marketing- Goals and Strategies

**Unit 2 (10 Hours)**

**Social Media Channels**

- 2.1 Social Media Platforms- Facebook, Blogs, Microblogging, Twitter, YouTube, Instagram and LinkedIn, Pinterest, Google+, Foursquare, Snapchat and Customer Personas
- 2.2 Social Book Marking
- 2.3 Social Listening- an Insight

**Unit 3 (8 Hours)**

**Content Marketing**

- 3.1 Meaning and its Importance
- 3.2 Types of Social Media Content- Interactive Content, Strongly Positive Content, Visual Content and User Generated Content, e-Books

## **BOOKS FOR STUDY**

Social Media Marketing: *A Strategic Approach*, 2E. Barker, Barker, Bormann and Neher,  
2017 South-Western, Cengage Learning,

David Meerman Scott, *The New Rules of Marketing & PR*, 5th Edition.

## **JOURNALS**

Journal of Digital and Social Media Marketing

Indian Journal of Marketing

## **WEB RESOURCES**

<http://www.socialmediatoday.com>

[www.searchengineland.com](http://www.searchengineland.com)

<http://smallbusiness.yahoo.com>

<http://brand24.com>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

### **Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

## **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**General Elective Course Offered by the Department of Commerce to students of**  
**B.A / B.Sc. / B.Com. / B.Com CS/ B.Com A & F/ B.C.A. / B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BANKING PRACTICES**

**CODE:19CM/GE/BP22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To educate students on the new developments in the banking sector
- To provide an overview on the significance of banking services
- To provide knowledge on banking operations
- To facilitate learning of banking practices with special focus on Customer banking operations

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Open and operate Bank account
- Understand the different banking product and services
- Comprehend knowledge on e-banking and its importance in today's scenario
- Avail various services offered by banks

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 An Overview of Banking System in India – Commercial Bank -Functions and Services
- 1.2 Types of Bank Accounts-Opening of Bank Accounts
- 1.3 Forms of Lending-Loans-Types of Loans
- 1.4 Closing of Bank Accounts – Procedure

**Unit 2 (8 Hours)**

**Documents used in Banking**

- 2.1 Importance of Documentation
- 2.2 Application Form for Opening of Accounts - Saving Bank (SB), Fixed Deposit, Current Account and Recurring Deposit, KYC
- 2.3 Pay In Slip, Withdrawal Slip, Demand Draft Applications, Cheque, Demand Loans, etc.
- 2.4 Application for Closing of Accounts and Transfer of Funds

**Unit 3 (8 Hours)**

**E- Banking**

- 3.1 Meaning and Importance of Net Banking.
- 3.2 Internet Banking, Mobile Banking, Telebanking Banking, Point of Sale Terminal
- 3.3 Credit Card, Debit Card, Smart Card, NEFT, E-Wallet
- 3.4 Automated Teller Machine and its Advantages
- 3.5 Electronic Fund Transfer, Electronic Clearing Services
- 3.6 Digital Signature

## **BOOKS FOR STUDY**

Gurusamy S. *Banking Theory Law and Practice*. 2<sup>nd</sup> ed. Chennai: Vijay Nicole, 2015.

P.N Varshney. *Banking Theory Law and Practice*. 22<sup>nd</sup> ed. New Delhi: Sultan Chand, 2017

## **BOOKS FOR REFERENCE**

Indian Institute of Banking and Finance, Principles and Practices of Banking, Macmillan Education, 2015.

Gordon E. and K.Natarajan. *Banking Theory Law and Practice*. 19<sup>th</sup> ed. Mumbai: Himalaya, 2016.

Sundharam K.P.M. and P.N Varshney. *Banking Theory Law and Practice*. 22<sup>nd</sup> ed. New Delhi: Sultan Chand, 2015.

## **JOURNALS**

Journal of Banking and Finance

Banking and Financial Services – The Business Journals

International Journal on Electronic Banking

## **WEB RESOURCES**

[www.academia.edu](http://www.academia.edu)

[www.lawhandbook.sa.gov](http://www.lawhandbook.sa.gov)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

### **Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

## **No End Semester Examination**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**General Elective Course Offered by the Department of Commerce to students of**  
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**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**E-FILING OF RETURNS**

**CODE:19CM/GE/EF22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To provide the students the conceptual and practical knowledge about electronic filing of returns
- To educate the students on basics of taxation laws
- To enable students to be self-reliant in individual tax calculation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Compute the tax liability of an individual
- File taxes online (e-filing)
- Ascertain the taxable income of individual
- Comprehend with the taxable provisions

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 An Overview of Computation of Income tax under the Five Heads of Income
- 1.2 E-Filing – Meaning, Importance and Difference between E-Filing and Regular Filing of Returns
- 1.3 Benefits and Limitations of E-Filing
- 1.4 Types of e-Filing - e-File without Digital Signature Certificate. e-File the Income Tax Return (ITR-V) through an e-Return Intermediary (ERI) with or without Digital Signature Certificate (DSC) and Use Digital Signature Certificate (DSC) / EVC

**Unit 2**

**E-Filing Process**

**(5 Hours)**

- 2.1 Registration to E-portal through log in (ADHAR, PAN, TAN, TIN and DIN)
- 2.2 Recording and uploading of Documents
- 2.3 E-file ITR
- 2.4 E-Verify

## Unit 3

### E-Payment of Tax

(11 Hours)

- 3.1 Tax Payment through Online Banking
- 3.2 Procedure to adjust Advance Tax
- 3.3 Refund - Procedure

### BOOKS FOR STUDY

Swatantra Sethi, *Self-Preparation and Filing of Income Tax Returns by Individuals* Kindle Edition, 2018

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi, Kalyani Publishers,

### BOOKS FOR REFERENCE

Lal B.B., *Income Tax Law and Practice*, , Konark Publishers Limited, New Delhi

Manoharan T. N. *Income Tax Law*, Mumbai, Snow White Publications

Mehrothra, H.C., *Income Tax Law and Practicum*, , Sahithya Bhavan Publications, Agra

Vinod K., Singhania, *Taxman's Students Guide to Income Tax*, Taxman's Publications Pvt. Ltd., New Delhi

Vinod K., Singhania, *Indirect tax*, 2014-15 Taxman's Publications Pvt. Ltd., New Delhi

**NOTE:** Latest edition of the readings may be used

### JOURNALS

Journal of taxation

National tax journal

### WEB RESOURCES

[www.ntanet.org/tax](http://www.ntanet.org/tax)

[www.aicpa.org](http://www.aicpa.org)

[www.icaew.com](http://www.icaew.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 marks (Objective questions)

Section B – 5 x 2 = 10 marks (from a choice of seven)

Section C – 2 x 5 = 10 marks (from a choice of four)

**Other Components**

**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

**No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**DIRECT SELLING**

**CODE: 19CM/UI/DS23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To enlighten students on the basic concepts of Direct Selling
- To create awareness among the students about Sales related Policies
- To equip the students with the skills of Personal Selling Strategies
- To sensitise the students to the need for Sales Organisation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Learn the art of selling an idea
- Create market and expand the market
- Develop the overall personality of a salesman
- Effectively plan, organize and coordinate Sales force

**Unit 1**

**Introduction**

- 1.1 Personal Selling – Meaning and Objectives, Advantages and Criticisms
- 1.2 Difference between Personal Selling and Salesmanship
- 1.3 Salesmanship as an art, science and profession
- 1.4 Personal Selling Process

**Unit 2**

**Theories of Selling**

- 2.1 'AIDAS' – Right set of circumstances
- 2.2 'Buying Formula' – Behavioral Equations
- 2.3 Selling skills – Interpersonal skills – Negotiations and Communications Skills

**Unit 3**

**The Sales Organisation**

- 3.1 Purpose of Sales Organisation
- 3.2 Basic Types of Sales Organisations
- 3.3 Sales personality – qualities and traits

## **Unit 4**

### **Selling Methods**

4.1 Process of Selling

4.2 Sales Meeting and Sales contests

## **Unit 5**

### **Sales Performance and Compensation**

5.1 Evaluation of sales performance – Qualitative and Quantitative methods

5.2 Types of Compensation plans

## **BOOKS FOR STUDY**

Still Cundiff and Govoni , Sales Management – Decisions Strategies and cases ,

2005 Saravanavel .P and Sumathi .S ,Advertising and Salesmanship , 2017

## **BOOKS FOR REFERENCE**

Gandhi J.C, Marketing – A managerial Introduction,Tata Mc Graw Hill, 2006

Bernard Katz, How to turn Customer Service into Customer Sale ,2006

Frank S. Salsbury , Sales Training – A guide to develop effective sales people, 2006

Richard H. Buskirk,Bruce D. Nuskirk ,Selling Principles and Practices TMH, 2007

Phophalia A.K, Sales Management – Concepts Principles and Practices

## **JOURNALS**

Journal of Personal selling and Sales

Management Journal of Marketing

Journal of Marketing Research

## **WEB RESOURCES**

[www.researchgate](http://www.researchgate)

[.net www.jpsssm.org](http://www.jpsssm.org)

[www.scimogojr.com](http://www.scimogojr.com)

## **PATTERN OF ASSESSMENT**

**End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 X 2 = 20 Marks (no choice – Max. 30 words)

Section B – 5 X 8 = 40 Marks (from a choice of seven – Max. 500 words)

Section C – 2 X 20 = 40 Marks (from a choice of four – Max. 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**B.COM DEGREE**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**CONSUMER RIGHTS**

**CODE: 19CM/UI/CR23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To provide knowledge about consumerism and related laws
- To enable an understanding of the importance of consumer rights
- To educate students on the rights and responsibilities of a consumer

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Identify the need for consumer protection and the areas covered by consumer protection law
- Learn and evaluate the various forms of consumer exploitation
- Analyse and evaluate the rights of the consumer
- Understand the business malpractices and legislative regulations to protect consumers.

**Unit 1**

**Consumers**

1.1 Meaning of Consumers-Customers

1.1.1 Consumer Movements – Historical Perspectives

1.1.2 Concept of Consumerism – Need and Importance

**Unit 2**

**Consumer Exploitation**

2.1 Meaning, Causes of Consumer Exploitation

2.2 Forms of Consumer Exploitation – Underweight Measures, High Prices, Substandard Quality, Poor or Inadequate After Sales Services

2.3 Challenges of Consumer Exploitation

**Unit 3**

**Consumer Rights and Duties**

3.1 Consumer Rights – John F Kennedy's Consumer Bill of Rights

3.2 Types of Consumer Rights – (Right to Safety, Right to Information (RTI), Right to Redressal, Right to Consumer Education)

3.3 Duties of Consumers

**Unit 4**

**Copra Act 1986**

4.1 Introduction to COPRA Act

4.2 Consumer Protection Council – Central, State, Districts Consumer Protection Councils

4.3 Consumer Dispute Redressal Procedure

## **Unit 5**

### **Consumerism in India**

- 5.1 Reasons for the Growth of Consumerism in India
- 5.2 Recent Trends in Consumerism
- 5.3 Problems Faced by Consumers in India – Case Studies

### **BOOKS FOR STUDY**

Mohammed Kamalun Nabi, Mohammed Irshadun Nabi, Kishore C. Raut, Consumer Rights & Protection in India, New Century Publications, 2015.

Steven Miles, Consumerism: As a Way of Life, SAGE Publications Ltd, 2012.

### **BOOKS FOR REFERENCE**

Anirban Chakraborty. Law of Consumer Protection Advocacy and Practice. India: Lexis Nexis, 2014.

Miller C.J., Brian W. Harvey, Deborah L Parry. Consumer and Trading Law. Oxford University, 1998.

Rajyalakshmi Rao. Consumer is king!! Know your rights and remedies. Universal, 2012.

Rao, Y.V. Commentary on Consumer Protection Act. Asia House, 2013

### **JOURNALS**

Journal of Consumer Policy

International Journal of Consumerism

Journal of Consumer Affairs

### **WEB RESOURCES**

[www.researchgate.net](http://www.researchgate.net)

[www.jpsssm.org](http://www.jpsssm.org)

[www.scim](http://www.scim)

### **PATTERN OF ASSESSMENT**

**End Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A – 10 X 2 = 20 Marks (no choice – Max. 30 words)

Section B – 5 X 8 = 40 Marks (from a choice of seven – Max. 500 words)

Section C – 2 X 20 = 40 Marks (from a choice of four – Max. 1200 words)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities



**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI**

**DEPARTMENT OF COMMERCE – SHIFT II**

**BACHELOR OF VOCATION – BANKING, FINANCIAL SERVICES AND  
INSURANCE (B.VOC. – BFSI)**

**PROGRAMME DESCRIPTION**

B.Voc- Banking, Financial Services and Insurance (BFSI) is a three year Bachelor's Degree Programme. It is a vocational training programme which provides a judicious mix of skills relating to a profession and a general appreciation of courses in Commerce and Business Administration. The programme ensures that the students have adequate knowledge and skills to enhance employability to face the challenges pertaining to the job at each exit point of the programme. NSQF is integrated within the B.Voc. Degree Programme to meet industry requirements. The programme also enables the students to develop entrepreneurial skills to manage their own business. The methodology involves training through practical experience in the form of case studies, projects, presentations, industrial visits and interaction with experts from the industry. This programme is a blend of theoretical inputs, practical exercises and internship training.

The certification levels for this programme will lead to Diploma/Advanced Diploma/B. Voc. Degree in Banking Finance Services and Insurance (BFSI). Students may be awarded Diploma/Advance Diploma /Degree as indicated in the Table below:

<b>Award</b>	<b>Duration for class</b>	<b>Corresponding NSQF Level</b>
Diploma	1 year	5
Advance Diploma	2 years	6
Degree	3 years	7

## **PROGRAMME SPECIFIC LEARNING OUTCOMES**

At the end of a Bachelor of Vocation – Banking, Financial Services and Insurance (B.Voc. BFSI) programme, students will be able to

- Acquire an in-depth understanding of the key business concepts
- Gain wider knowledge in the relevant concepts and principles in banking, financial services and insurance
- Have an understanding of the functional managerial skills in organisations
- Apply appropriate analytical methods to analyse business issues
- Comprehend laws pertaining to the regulatory aspects of banks and financial institutions
- Analyse, interpret and communicate the information in basic financial statements of banking and insurance companies
- Acquire a set of competencies required for career in varied organisations
- Develop good team work skills and work ethics
- Use business knowledge in the larger interest of the community
- Explore various methods where computer software can be used to support existing business and strategies
- Gain knowledge on handling communication at professional level
- Acquire confidence to work in an office environment
- Understand the components and emerging trends of the Indian Financial System

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**  
**B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE**  
**COURSES OF STUDY**  
**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19VB/VM/FB16	Functions and Services of Banks and Non-Banking Financial Corporation	6	3	0	3	3	25	75	100
19VB/VM/PA16	Principles and Practices of Accounting	6	3	0	3	3	25	75	100
19VB/VA/OM15	Office Management and Practices	5	4	0	2	3	25	75	100
19VB/UE/CB12	Computer Basics	2	0	0	2	-	25	-	100
19VU/ET/VP12	Values in Personal Life	2	2	0	0	-	25	-	100
19EA/GM/. .11	Extension Activities	1							
<b>SEMESTER-II</b>									
19VB/VM/LB26	Legal and Regulatory Framework of Banks and NBFC's	6	3	0	3	3	25	75	100
19VB/VM/RC26	Retail, Corporate, Small and Medium Enterprises Banking	6	3	0	3	3	25	75	100
19VB/VA/AS25	Accounting Software	5	1	0	4	3	25	75	100
19VB/UE/BC22	Business Communication	2	2	0	0	-	25	-	100
19VB/US/BP23	Business Etiquette and Professional Skills	3	0	0	3	-	25	-	100
<b>SEMESTER-III</b>									
19VB/VM/FS36	Financial Services I	6	3	0	3	3	25	75	100
19VB/VM/MF36	Micro Finance	6	3	0	3	3	25	75	100
19VB/VM/IS34	Indian Securities Market	4	2	0	2	3	25	75	100
19VB/VM/MS34	Marketing of Financial Services	4	2	0	2	3	25	75	100
19VB/VE/ED35 /	Entrepreneurial Development	5	2	0	3	3	25	75	100
19VB/VE/BE35	Business Ethics	5	2	0	3	3	25	75	100
19VB/UC/ES32	Environmental Studies	2	2	0	0	-	25	-	100
19UV/ET/SP32	Society and Peace Initiatives	2	2	0	0	-	25	-	100
<b>SEMESTER-IV</b>									
19VB/VM/FM46	Introduction to Financial Management	6	3	0	3	3	25	75	100
19VB/VM/FS46	Financial Services II	6	3	0	3	3	25	75	100
19VB/VM/FP44	Financial Planning	4	2	0	2	3	25	75	100
19VB/VM/ST44	Stock Trading Simulation	4	2	0	2	3	25	75	100
19VB/VE/BS45 /	Business Statistics	5	2	0	3	3	25	75	100
19VB/VE/CR45	Customer Relationship Management	5	2	0	3	3	25	75	100
19VB/US/TM43	Time Management	3	1	0	2	-	25	-	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**  
**B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE**  
**COURSES OF STUDY**  
**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-V</b>									
19VB/VM/PI56	Principles of Insurance	6	3	0	3	3	25	75	100
19VB/VM/IR56	Insurance Regulations	6	3	0	3	3	25	75	100
19VB/VM/LI56	Practices of Life Insurance	6	3	0	3	3	25	75	100
19VB/VM/TN56	Taxation	6	3	0	3	3	25	75	100
19VB/US/PS53	Presentation Skills	3	0	0	3	-	25	-	100
<b>SEMESTER-VI</b>									
19VB/VM/RM66	Risk Management	6	3	0	3	3	25	75	100
19VB/VM/HI66	Health Insurance	6	3	0	3	3	25	75	100
19VB/VM/HR66	Human Resource Management	6	3	0	3	3	25	75	100
19VB/VM/PR615	Project	15	0	0	9	-	20	80	100
19UV/US/HL63	Life Skills: An Approach to a Holistic Way of Life	3	3	0	0	-	25	-	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**FUNCTIONS AND SERVICES OF BANKS AND  
NON-BANKING FINANCIAL CORPORATIONS**

**CODE: 19VB/VM/FB16**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS : 78**

**OBJECTIVES OF THE COURSE**

- To expose students to the concept of Banking and Non-Banking Financial Companies
- To educate students about the functioning of Banking System in India
- To update students with the changing trends in banking industry

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate the principles of banking law and its relationship to banks and customers
- Engage in critical analysis of the practice of banking law from a range of perspectives
- Comprehend the functions of Banks and NBFC's
- Understand the relevance of CIBIL and Credit Score

**Unit 1 (9 Hours)**

**Introduction to Banking and Non-Banking Financial Corporations**

- 1.1 Meaning, Definition and Evolution of Banking
- 1.2 Growth in Banking Services and Current Structure of Banking Services
- 1.3 Types of Banks – Central Bank, Commercial Bank, Industrial Bank, Development Bank, Co-Operative Bank, Rural Banks
- 1.4 Non-Banking Financial Institution – Meaning, Origin, Types and Scope
- 1.5 Housing Finance Companies

**Unit 2 (20 Hours)**

**Functions of Banks**

- 2.1 Functions of Banks and NBFCs
- 2.2 Types of Bank Deposits - Savings, Current, Fixed Deposits and Recurring Deposits
- 2.3 Types of Lending – Cash Credit, Overdraft, Bills discounting and Term loans, Modes of Creating Charge – Lien, Pledge, Hypothecation and Mortgage  
Types of Loans and Advances - Personal Loans – Housing Loans – Consumer Loans – Priority Sector Advances - Loans for Weaker Sections, Small Scale Industries, Agriculture, Self-employed and Professionals etc. – Gold Loan
- 2.4 Duties and Responsibilities of Bank in Disbursing Loan, KYC Requirements
- 2.5 Role of Recovery Agents – Mode of Recovery

**Unit 3 (20 Hours)**

**Services of Non-Banking Financial Corporations**

- 3.1 Functions of NBFCs
- 3.2 Types of Products offered by NBFCs
- 3.3 Growth of NBFCs in India
- 3.4 Difference between Banks and Non-Banking Financial Companies

**Unit 4 (20 Hours)**

**Banking Services**

- 4.1 Meaning, Definition, Relationship between Banker and Customer
- 4.2 Special Types of Customers
- 4.3 Bank Accounts - Opening, Closing
- 4.4 Other Services of Banks

**Unit 5 (9 Hours)**

**Loan Approval Process**

- 5.1 An Overview of CIBIL and Credit Score
- 5.2 Importance of CIBIL Score in Loan Approval Process
- 5.3 CIBIL Report
- 5.4 Loan Rejection and Disputes

**BOOKS FOR STUDY**

Gordon, E., & Natarajan, K. (n.d.). *Banking Theory, Law and Practice*. Delhi: Himalaya Publishing House

Jaiswal, B. (n.d.). *Banking Operations Management*. Delhi: Vikas Publication

**BOOKS FOR REFERENCE**

M.Y., K. (n.d.). *Indian Financial System*. Chennai: Mc Graw Hill Education (India) Private Limited

Machiraju, H. (n.d.). *Indian Financial System*. Delhi: Vikas Publication

P.N., V., & Mittal, D. (n.d.). *Indian Financial System*. Delhi: Sultan Chand & Sons.

R., J. T. (n.d.). *Indian Financial System*. Delhi: V.K. Publications

Radhakrishnan, S. A. (n.d.). *Bank Management*. Chennai: Margham Publications

Santhanam, B. (n.d.). *Banking and Financial System*. Chennai: Margham Publications

Akhan, J. A. *Non-banking Financial Companies (NBFCs) in India: Functioning & Reforms*, Chennai: New Century Publications.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks:50 Duration:90 minutes**  
**(To be converted to 25)**

**Theory : Marks: 35**

Section A – 6 x 2 = 12 Marks (from a choice of 8)

Section B – 2 x 4 = 8 Marks (from a choice of 4)

Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical Marks: 15**

Case study / Application based Questions

**Other Components:****Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:****Total Marks: 100****Duration: 3 hours****(To be converted to 75)****Theory :****Marks: 70**Section A –  $10 \times 2 = 20$  Marks (no choice)Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)Section C –  $2 \times 15 = 30$  Marks (from a choice of three)**Practical****Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**PRINCIPLES AND PRACTICES OF ACCOUNTING**

**CODE: 19VB/VM/PA16**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS : 78**

**OBJECTIVES OF THE COURSE**

- To provide students with an understanding of the theory, concepts, principles, and practices underlying the preparation of financial statements
- To develop the skills needed to analyse financial statements effectively
- To provide an understanding on cost structure and cost elements
- To understand various techniques and methods of accounting used by banking and insurance companies

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the general purposes and functions of accounting
- Understand the concepts in financial and cost accounting
- Identify the main financial statements used by banking and insurance companies and their purposes
- Analyse and interpret the information contained in basic financial statements

**Unit 1**

**(9 Hours)**

**Preparation of Financial Statements of Sole Proprietor**

- 1.1 Closing Entries and Adjustment Entries
- 1.2 Adjustment Entries - Loss of Stock by Accident or Fire, Manager's Commission on Net Profit Before and After Commission, Works Manager and General Manager Commission, Writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax

**Unit 2**

**(20 Hours)**

**Financial Statement Analysis**

- 2.1 Analysis and Interpretation-Need and Importance
- 2.2 Methods of Financial Analysis and Interpretation
  - 2.2.1 Comparative Statements
  - 2.2.2 Common-Size Statements
  - 2.2.3 Trend Analysis
- 2.3 Ratio Analysis
  - 2.3.1 Significance and Limitations of Ratio Analysis
  - 2.3.2 Computation and Interpretation of Ratios - Turn Over, Liquidity, Profitability, Solvency and Leverage Ratio



**Unit 3** (20 Hours)

**Cost Accounting**

- 3.1 Basic Concepts in Cost Accounting
- 3.2 Ascertainment and Classification of Cost
- 3.3 Preparation of Cost Sheet

**Unit 4** (20 Hours)

**Banking Companies Accounts**

- 4.1 Requirements of Banking Companies as to Accounts and Audit
- 4.2 Significant Features of Accounting Systems of Banks
- 4.3 Accounting Treatment of Specific Items
- 4.4 Preparation of Profit and Loss Account
- 4.5 Important Items of Balance Sheet; Disclosure Requirements of Banks  
Additional Disclosures prescribed by RBI; Disclosures required under BASEL

**Unit 5** (9 Hours)

**Insurance Company Accounts**

- 5.1 Accounts of General Insurance
- 5.2 Accounts of Life insurance Companies

**BOOKS FOR STUDY**

Grewal, T., and Gupta, S. (n.d.). *Introduction to Accountancy*. Delhi: S.Chand Publishing.  
Reddy, T. S., and Murthy, A., Corporate Accounting. Margham Publications

**BOOKS FOR REFERENCE**

Maheswari, S., and Sunnel, M. k. (n.d.). *An Introduction to Accountancy*. Delhi: Vikas Publishing  
N, V., and Charumati B. (n.d.). *Financial Accounting*. Delhi: S.Chand  
Narang, and Jain. (2016). *Financial Accounting*. Mumbai: Kalyani  
P.C., T. (n.d.). *Financial Accounting*. Delhi: S. Chand  
Reddy, T. S., and Murthy, A., Management Accounting. Margham Publications  
Reddy, T. S., and Murthy, A., Cost Accounting. Margham Publications  
Maheswari, S.N., Management Accounting. Sultan Chand Publishing

**JOURNALS**

Journal of the Institute of Chartered Accountants of India.  
International Journal of in Management and Financial Accounting  
Journal of Financial Reporting Accounting, Auditing and Finance

**WEB RESOURCES**

[www.icaai.org](http://www.icaai.org)  
[www.emeraldinsight.com](http://www.emeraldinsight.com)  
[www.accaglobal.com](http://www.accaglobal.com)  
[www.journals.elsevier.com](http://www.journals.elsevier.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
(To be converted to 25)

**Theory :**      **Marks: 35**

Section A – 6 x 2 = 12 Marks (from a choice of 8)  
Section B – 2 x 4 = 8 Marks (from a choice of 4)  
Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:** **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

**(To be converted to 75)**

**Theory :** **Marks: 70**

Section A –  $10 \times 2 = 20$  Marks (no choice)

Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)

Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical** **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC DEGREE: BANKING, FINANCIAL SERVICES and INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**OFFICE MANAGEMENT AND PRACTICES**

**CODE: 19VB/VA/OM15**

**CREDITS : 5**

**L T P : 4 0 2**

**TOTAL TEACHING HOURS : 78**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the activities in a modern office for smooth functioning of any organisation
- To enable students to understand the various facilities provided to the staff working in the office, the working environment, tools and equipment used in office
- To expose students to the importance of filing and indexing

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Define the functional elements of a modern business office and the trends of office management
- Define the supervisory functions of an office administrator
- Describe the elements involved in the development and management of an information system for an office employing effective management practices, current equipment, and techniques
- Demonstrate an understanding of the safety measures in an office environment

**Unit 1 (15 Hours)**

**Office and Office Management**

- 1.1 Meaning of Office, Function of Office, Primary and Administrative Functions, Importance of Office
- 1.2 Relation of Office with Other Departments of Business Organization - Concept of Paperless Office - Virtual Office, Back and Front Office, Open and Private Office
- 1.3 Definition and Elements of Office Management, Duties of an Office Manager

**Unit 2 (15 Hours)**

**Filing and Indexing**

- 2.1 Meaning and Importance of Filing, Essentials of Good Filing System
- 2.2 Centralized and Decentralized Filing System
- 2.3 Meaning, Need and Types of Indexing used in the Business Organization
- 2.4 Third Party Services

**Unit 3 (15 Hours)**

**Office Forms**

- 3.1 Meaning and Types of Forms used in Business Organization, Advantages, Forms Controls, Objectives
- 3.2 Form Designing, Principles of Forms Designing and Specimens of Forms used in Office

**Unit 4 (15 Hours)**

**Office Record Management and Office Manuals**

- 4.1 Meaning, Importance of Record Keeping Management, Principles of Record Management and Types of Records kept in a Business Organization.
- 4.2 Office Manuals – Meaning, Need, Types of Office Manuals and Steps in Preparing Office Manuals

**Unit 5 (18 Hours)**

**Office Machines and Safety**

- 5.1 Importance of Office Machines
- 5.2 Office Safety and Security – Meaning and Importance
- 5.3 Safety Hazards and Steps to Improve Office Safety, Security Hazards and Steps to improve Office Security

**BOOKS FOR STUDY:**

P.K. Ghosh, “Office Management”, Sultan Chand and Sons. New Delhi  
Chopra R.K., 2001, Office Management, Himalaya Publishing House, Mumbai

**BOOKS FOR REFERENCE**

Arora S.P., 2001, Office Organization and Management, Vikas Publishing house Pvt.ltd., New Delhi.  
Gupta C B., 2001, Office Organisation and Management, Sultan Chand and sons New Delhi.  
Prasanta K.Ghosh, 2003 Office Management, Sultan Chand and Sons, New Delhi.  
Pillai R, S.N. Bagawathi, 2003, Office Management, Sultan Chand and Sons, New Delhi.  
Sahai I M., 2000, Modern Office Management, Sahitya Bhawan, Agra.  
Gupta C B., 2005, Office Business Communication, Sultan Chand and sons New Delhi.  
Sumit Upadhyay. Office Management, Neha Publishers and Distributors, New Delhi.  
Thukaram Rao. M.E. Office Administration and Management, Atlantic Publisher, New Delhi.

**WEB RESOURCES**

[https://study.com/directory/category/Business/Business\\_Management\\_and\\_Operations/Office\\_Management.html](https://study.com/directory/category/Business/Business_Management_and_Operations/Office_Management.html)  
<http://bieap.gov.in/Pdf/OAPaperIIIYR2.pdf>  
[http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed\\_INFIEP\\_8/20/ET/8\\_ENG-20-ET-V1-S1\\_\\_lesson.pdf](http://eacharya.inflibnet.ac.in/data-server/eacharya-documents/53e0c6cbe413016f234436ed_INFIEP_8/20/ET/8_ENG-20-ET-V1-S1__lesson.pdf)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:      Total Marks: 50      Duration: 90 minutes**  
**(To be converted to 25)**

**Theory :**      **Marks: 35**  
Section A – 6 x 2 = 12 Marks (from a choice of 8)  
Section B – 2 x 4 = 8 Marks (from a choice of 4)  
Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical      Marks: 15**  
Case study / Application based Questions

**Other Components:** **Total Marks: 50 (to be converted to 25)**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :** **Marks: 70**

Section A –  $10 \times 2 = 20$  Marks (no choice)

Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)

Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical** **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**COMPUTER BASICS**

**CODE: 19VB/UE/CB12**

**CREDITS : 2**

**L T P : 0 0 2**

**TOTAL TEACHING HOURS : 26**

**OBJECTIVES OF THE COURSE**

- To provide students with an understanding of the application of computers
- To enable students to apply excel functions
- To introduce students to the basic business applications using computers

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Use spread sheets to analyse business data
- Work with simple design and development tasks for the main types of business systems
- Make a presentation using charts and diagrams

**Unit 1**

**(9 Hours)**

**Introduction**

- 1.1 Applications of computers, Hardware, Firmware, Liveware, Software, System Software: Operating system, Translators, interpreter, compiler, Overview of operating system, function of operating system, Application software: General Purpose Packaged Software and tailormade software
- 1.2 Meaning of Internet, Growth of internet, Owner of Internet, Anatomy of Internet, Net Etiquette , World Wide Web, Internet Protocols, Usage of Internet to society, Search Engines

**Unit 2**

**(9 Hours)**

**Business Communication using Word Processing**

- 2.1 Working with Word Document, Opening an Existing Document/Creating a New Document, Saving the Document
- 2.2 Selecting Text, Editing Text, Finding and Replacing Text,
- 2.3 Formatting Text, Bullets and Numbering, Tabs, Paragraph Formatting, Page Setup

**Unit 3**

**(8 Hours)**

**Spreadsheet and its Business Applications**

- 3.1 Spreadsheet Concepts
- 3.2 Creating a Work Book, Saving a Work Book, Editing a Work Book, Inserting, Deleting Work Sheets, Entering Data in a Cell, Formula Copying, Moving Data from Selected Cells

- 3.3 Inserting Charts- LINE, PIE, BAR
- 3.4 Excel Functions
  - 3.4.1 Mathematical- ROUND ALL, SUM, SUMIF, COUNT, COUNTIF
  - 3.4.2 Statistical – AVERAGE, MAX, MIN, STDEV, FREQUENCY, INTERCEPT, SLOPE
  - 3.4.3 Financial - PMT, PPMT, IPMT, Logical - IF, AND, OR

### **BOOKS FOR STUDY**

Ahmed, R. (n.d.). *Introduction to Information Technology*. Chennai: Margham Publications.  
 Bangia, R. (n.d.). *Computer Course Made Easy*. Delhi: Khanna Publishing .

### **BOOKS FOR REFERENCE**

Frye, C. D. (n.d.). *Step by Step Microsoft Excel 2010*. New Delhi: PHI.  
 Goel, A. (n.d.). *Computer Fundamentals*. Delhi: Pearson.  
 M., L. A. (n.d.). *Fundamentals of Information Technology*. New Delhi: Vikas .  
 P.K., S. (n.d.). *Computer Fundamentals*. New Delhi: BPB Publications.  
 Sanjay, S. (n.d.). *MS Office 2000*. Delhi: Vikas Publishing.  
 V., R. (n.d.). *Introduction to Information Technology*. New Delhi: PHI.  
 Vastava, S. S. (n.d.). *MS Office*. New Delhi: Firewall Media.

### **PATTERN OF ASSESSMENT (PRACTICALS)**

**Continuous Assessment Test                      Total Marks: 25                      Duration: 60 minutes**

Section A – 3 x 5 = 15 Marks (from a choice of four)

Section B – 1 x 10 =30 Marks (from a choice of two)

**Other Component                                      Total Marks: 25**

Evaluation Modes:

Seminars / Quiz / Group discussion / Assignments / Class Presentation

### **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**VALUES IN PERSONAL LIFE**

**CODE: 19UV/ET/VP12**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To enable the students to develop a positive self-concept and to foster healthy inter-personal relationships.
- To help students in their transition from school to college and in balancing freedom and responsibility
- To enable the students to understand their social environment
- To create spiritual awareness

**COURSE LEARNING OUTCOME**

Students will be able

- To develop an awareness of their personal, social and spiritual self.
- To understand the ethos of the college.
- To handle value conflicts.
- To realise the importance of the spiritual self.
- To foster civic responsibility.

**Unit 1 Vision and Mission of the college (8 hrs.)**

- 1.1 Stella Maris – Star of the sea- motto of the college - vision, mission and objectives
- 1.2 Blessed Mary of the Passion – foundress, Franciscan missionaries of Mary, her vision of womanhood, and women's education.
- 1.3 St. Francis of Assisi (Patron of Environment) – canticle of the creatures-prayer for peace
- 1.4 Civic responsibilities – being humane, environmental awareness, campus cleanliness ethic of enough

**Unit 2 Self Discovery (10 hrs.)**

**2.1 Self-awareness**

Identifying strengths and weaknesses-acceptance and appreciation of self:  
building self- esteem, self-confidence and self-discipline

**2.2 Values**

Reinforcing values: honesty and truthfulness, punctuality, discipline, generosity,  
integrity, humility, respect for others, inclusiveness, compassion, forgiveness and tolerance



### 2.3 Changing trends

Tradition vs. modernity, social and economic disparities, social discrimination,  
gender disparities

### 2.4 Adapting to change

Handling responsibilities of college life – challenges and issues-personal responsibilities  
handling new found freedom - college and hostel-peer pressure, building new relationships:  
interdependence, relationships with parents, elderly and siblings. Difference between assertive behavior and aggressive behavior.

### 2.5 Handling value conflicts

Home, College, use of Social Media – uses and abuses

## Unit 3 Spiritual Awareness

(8 hrs.)

3.1 Spirituality and Religiosity – integration of body, mind and spirit

3.2 Importance of Religious Beliefs and Tradition

3.3 Prayer and meditation

**Workshop: It is a requirement for students to attend**

### BOOKS FOR REFERENCE

Davidar(Eds). *Human Values*. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

Ignacimuthu, S. *Values for life*. Better Yourself Books: Mumbai, 1994.

James, G.M. et.al. *In Harmony-Value Education at College Level*. Chennai: Prakash, 2011.

Koikara, Felix. *Live your Values-Teacher's Guide*. Mumbai: Better Yourself Books, 2005.

### Teaching / Learning Methods

- Lectures / Group Discussions Power Point Presentations Seminars / Role Plays / Case Studies / Debates / Documentaries And Video clippings

### PATTERN OF EVALUATION (Internal) - Marks: 50

Quiz

Assignment

Presentation - Individual / Groups

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**  
(Effective from the academic year 2019 -2020)

**LEGAL AND REGULATORY FRAMEWORK OF BANKS AND NON-BANKING  
FINANCIAL CORPORATIONS**

**CODE: 19VB/VM/LB26**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To familiarise students with Acts relating to banking regulations
- To acquaint students with the regulatory requirement of Banks and Non-Banking Companies
- To expose students to the legal provisions relating to money laundering

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend the role of RBI
- Understand the concept and consequences of money laundering
- Analyse the need for different types of crossing
- Differentiate the regulatory aspects of banks and non-banking financial companies

**Unit 1**

**Reserve bank of India Act 1934**

**(9 Hours)**

- 1.1 Definition, Objectives of RBI, Brief History of RBI
- 1.2 Management and Administration of RBI
- 1.3 Functions of RBI, Printing of Securities and Minting in India, Issue of Plastic Notes
- 1.4 RBI guidelines for New Bank Licenses, Revised Priority Sectors Lending Norms

**Unit 2**

**Banking Regulation Act 1949**

**(20 Hours)**

- 2.1 Definition of Banking, Functions of Banks
- 2.2 Opening of new banks and branch licensing
- 2.3 Administration and Management of Banks - Constitution of Board of Directors and their rights, Banks Shareholders and their Rights
- 2.4 Cash/Currency Management

**Unit 3**

**Negotiable Instruments Act 1881**

**(20 Hours)**

- 3.1 Definitions and Features of Negotiable Instruments
- 3.2 Types – Cheques, Promissory Note, Bills of Exchange
- 3.3 Crossing, Endorsement
- 3.4 Statutory Protection, Dishonour of Cheques, Penalties in Case of Dishonour of Cheques

**Unit 4 (20 Hours)**

**Non-Banking Financial Corporations**

- 4.1 Regulatory Requirements of NBFC in India
- 4.2 RBI Guidelines for NBFC
- 4.3 Corporate Governance Norms for NBFC

**Unit 5 (9 Hours)**

**Money Laundering Act, 2002**

- 5.1 Definition and Impact of Money Laundering Act
- 5.2 Anti-Money Laundering – Concept and Reasons, Measures to Deter Money Laundering
- 5.3 Laundering Legislations and RBI Guidelines
- 5.4 Case Studies on Money Laundering

**BOOKS FOR STUDY**

Sundaram K.P.M. and Varshney P. N., *Banking Theory Law and Practice*, 18th Edition, New Delhi, Sultan Chand and Sons, 2005.

Indian Institute of Banking & Finance. (n.d.). *Legal & Regulatory Aspects of Banking*. Delhi: Macmillan Education.

**BOOKS FOR REFERENCE**

Gordon, E. (n.d.). *Banking Theory Law & Practice*. New Delhi: Himalaya Publishing House.

K P Kandhaswamy, S. N. (n.d.). *Banking Law & Practice*. New Delhi: S Chand.

Khan, M. Y. (n.d.). *Indian Financial System Theory and Practice*. New Delhi: Vikas Publishing House.

Mandilwar, A. K. (n.d.). *Legal and Regulatory Aspects of Banking*. New Delhi: Himalaya Publishing House.

P.N., V., & Mittal, D. (n.d.). *Indian Financial System*. Delhi: Sultan Chand & Sons.

Paul, & Suresh. (n.d.). *Management of Banking and Financial Services*. Delhi: Pearson Education.

Santhanam, B. (n.d.). *Banking Theory, Law & Practice*. Chennai: Margham Publications.

Sukhwinder, M. (n.d.). *Banking Law & Practice*. New Delhi: S Chand .

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks:50 Duration:90 minutes  
(To be converted to 25)**

**Theory : Marks: 35**

Section A – 6 x 2 = 12 Marks (from a choice of 8)

Section B – 2 x 4 = 8 Marks (from a choice of 4)

Section C – 1 x15 = 15 Marks (from a choice of 2)

**Practical Marks: 15**

Case study / Application based Questions

**Other Components:** **Total Marks: 50 (to be converted to 25)**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :** **Marks: 70**

Section A – 10 x 2 = 20 Marks (no choice)

Section B – 5 x 4 = 20 Marks (from a choice of seven)

Section C – 2 x 15 = 30 Marks (from a choice of three)

**Practical** **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**RETAIL, CORPORATE, SMALL AND MEDIUM ENTERPRISES BANKING**

**CODE: 19VB/VM/RC26**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS : 78**

**OBJECTIVES OF THE COURSE**

- To expose students to the importance of retail banking and its functions
- To educate students on different retail banking products and services
- To enable students to understand the importance of corporate banking

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the various services offered by banks
- Understand the different retail banking products and how these differ from traditional banking products
- Elucidate the broad functions of banks.
- Identify and differentiate the perception of retail, corporate and small and medium enterprise banks

**Unit 1**

**Introduction to Retail Banking**

**(9 Hours)**

- 1.1 Retail Banking – Origin, Meaning, Nature and Importance
- 1.2 Dimensions of Retail Banking
- 1.3 Functions and Role of Retail Banking

**Unit 2**

**Retail Banking Products and Operations**

**(20 Hours)**

- 2.1 Types of Products
- 2.2 Retail Banking Operations – Bank originated, Customer originated, Transactions originated
- 2.3 Importance of Retail Banking in Indian Economy

**Unit 3**

**Small and Medium Enterprises Banking Services**

**(20 Hours)**

- 3.1 Sources and Modes of SME Finance
- 3.2 Operational Procedure
- 3.3 Recovery of Finance

**Unit 4**

**Corporate Banking**

**(20 Hours)**

- 4.1 Meaning, Evolution and Importance of Corporate Banking
- 4.2 Services of Corporate Banking – Cash Management, Debt Management, Factoring, Custodial Services, Trade Services, Offshore Services etc.

**Unit 5****(9 Hours)****Recent Developments in Retail and Corporate Banking**

- 5.1 Importance of Institutional Deposits vis-a-vis Retail Deposits
- 5.2 Issues and Challenges in Retail and Corporate Banking
- 5.3 Technological Changes in Retail and Corporate Banking

**BOOKS FOR STUDY**

Natarajan, R. (n.d.). *Corporate Banking*. Chennai: Create Space Independent Publishing Platform.

Agarwal, O. (n.d.). *Fundamentals of Retail Banking*. New Delhi: Himalaya Publishing House.

**BOOKS FOR REFERENCE**

Bihari, S. C. (n.d.). *Retail Banking Challenges and Latest Trends in India*. New Delhi: Himalaya Publishing House.

Indian Institute of Banking and Finance. (n.d.). *Retail Banking*. New Delhi: Macmillan Education.

Intenderson, J. (n.d.). *Retail and Digital Banking: Principles and Practices*. London: Kogan Page.

Krishnan, S. (n.d.). *Power of Mobile Banking*. USA: Wiley.

Pond, K. (n.d.). *Retail Banking*. UK: Gosbrook Professional Publishing.

Suresh, P. (n.d.). *Management of Banking and Financial Services*. Chennai: Pearson.

V.A., A. (n.d.). *Fundamentals of Money and Banking*. New Delhi: Himalaya Publishing .

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :**      **Marks: 35**

Section A – 6 x 2 = 12 Marks (from a choice of 8)

Section B – 2 x 4 = 8 Marks (from a choice of 4)

Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :**      **Marks: 70**

Section A – 10 x 2 = 20 Marks (no choice)

Section B – 5 x 4 = 20 Marks (from a choice of seven)

Section C – 2 x 15 = 30 Marks (from a choice of three)

**Practical**      **Marks: 30**

Case Study/ Application based Questions



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC. DEGREE: BANKING, FINANCIAL SERVICES and INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**ACCOUNTING SOFTWARE**

**CODE: 19VB/VA/AS25**

**CREDITS : 5**

**L T P : 1 0 4**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide students with an understanding of the use of computer software in accounting
- To enable students to create financial statements with the help of the accounting software
- To expose students to the preparation of financial reports

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Have an understanding of basic Accounting concepts and principles
- Generate Accounting and Inventory Masters, Vouchers and Basic Reports in Tally
- Prepare financial statements

**Unit 1**

**Introduction**

**(13 Hours)**

- 1.1 Basics of Accounting – Concepts, Conventions
- 1.2 Tally – Introduction, Salient Features, Growth and Advantage
- 1.3 Challenges associated with Accounting on Computers
- 1.4 Company Creation

**Unit 2**

**Groups and Ledgers**

**(12 Hours)**

- 2.1 Pre-defined Groups
- 2.2 Creation of Groups
- 2.3 Ledgers – Creation, Editing and Deletion

**Unit 3**

**Accounting Vouchers**

**(15 Hours)**

- 3.1 Vouchers - Creation
- 3.2 Types of Vouchers
- 3.3 Making Entries in Vouchers



<b>Unit 4</b>		
<b>Inventory</b>		<b>(13 Hours)</b>
4.1 Stock Groups and Categories – Creation, editing and deletion		
4.2 Stock Items – Creation, editing and deletion		
4.3 Voucher Entries for Inventory		
<b>Unit 5</b>		
<b>Financial Reports</b>		<b>(12 Hours)</b>
5.1 Day Book, Cash Book, Trial Balance		
5.2 Profit and Loss Account, Balance Sheet		
5.3 Financial Analysis – Ratio Analysis		
5.4 Stock Summary		

## BOOKS FOR STUDY

Nadhani A.K. and Nadhani K.K., 2009, 1<sup>st</sup> edition, Implementing Tally 9, BPB Publications, New Delhi

## BOOKS FOR REFERENCE

Gupta R.L., M.Radhaswamy, 2005, 5<sup>th</sup> edition, Advanced Accountancy, Sultan Chand and Sons, New Delhi

Jain.S.P., K.L.Narang., 2005, 12<sup>th</sup> edition, Advanced Accountancy, Kalyani Publishers, New Delhi

Agarwal Namrata and Sanjay Kumar, 2002, 1<sup>st</sup> edition, Financial Accounting on Computers using Tally, Dreamtech Press India (P) Ltd, New Delhi

John E. Harker, Dean W. Wichern, Arthur G. Reitsch, 2012, 7<sup>th</sup> edition, Business Forecasting, Prentice Hall of India Pvt. Ltd., New Delhi

## JOURNALS

Information System Frontiers - A Journal of Research and Innovation

Information Technology and Management

Quantitative Marketing and Economics

## WEBSITES

<http://cameron.econ.ucdavis.edu/excel/excel.html>

[http://www.cengage.com/resource\\_uploads/downloads/0840062389\\_347257.pdf](http://www.cengage.com/resource_uploads/downloads/0840062389_347257.pdf)

<http://www.tallyerp9help.com/>

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test</b>	<b>Total Marks:50</b>	<b>Duration:90 minutes</b>
	<b>(To be converted to 25)</b>	

Section A – 6 x 5 = 30 Marks (from a choice of 8)

Section B – 2 x 10 = 20 Marks (from a choice of 3)

### Other Components

Test /Seminars / Assignment

<b>End Semester Examination</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
	<b>(To be converted to 75)</b>	

### Only Practical

Section A – 6 x 10 = 60 Marks (no choice)

Section B – 2 x 20 = 40 Marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**BUSINESS COMMUNICATION**

**CODE: 19VB/UE/BC22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS : 26**

**OBJECTIVES OF THE COURSE**

- To develop basic communication skills
- To enhance the knowledge on handling communication at a business level
- To familiarise students with different types of business letters

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Make persuasive digital communication
- Write abstract and summaries of proposals
- Understand the barrier to communication and document business correspondence

**Unit 1 (9 Hours)**

**Introduction to Communication**

- 1.1 Definition, Process of Communication
- 1.2 Principles for Effective Business Communication
- 1.3 Barrier to Communication
- 1.4 Informal Communication

**Unit 2 (8 Hours)**

**Business Correspondence**

- 2.1 Business Letters – Types of Business Letters
- 2.2 Business Documentation: Inter Office Memos, Notices, Orders, Minutes of Meetings
- 2.3 Email Etiquettes

**Unit 3 (9 Hours)**

**Public Speaking and Customer Communications**

- 3.1 Technical Aspects in the Verbal and Non Verbal aspects in Public speaking
- 3.2 Customer Communication through leaflets, emails and letters

### **BOOKS FOR STUDY**

K.K. Sinha, *Business Communication*, Taxmann's

Meenakshi Raman, Prakash Singh, *Business Communication*, Oxford Higher Education

### **BOOKS FOR REFERENCE**

Business Communication, Raman – Prakash, Oxford

The Oxford Handbook of Commercial Correspondence

Ashley A, Oxford Business Communication for Managers: An Advanced Approach, Penrose, Thomson

Business Communication, Krizan, Thomson

Understanding Human Communication, 9/e, Adler R Oxford

### **JOURNALS**

Journal of Business Communication

International Journal of Business Communication

### **WEB RESOURCES**

[www.businesscommunication.org](http://www.businesscommunication.org)

[www.smartcommunications.com](http://www.smartcommunications.com)

### **PATTERN OF ASSESSMENT**

#### **Continuous Assessment Test**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 1 = 5 Marks (objective questions)

Section B – 5 x 2 = 10 Marks (from a choice of seven)

Section C – 2 x 5 = 10 Marks (from a choice of four)

#### **Other Component**

**Total Marks: 50**

**Duration: 90 minutes**

Evaluation Modes:

Seminars / Quiz / Group discussion / Assignments / Class Presentation

### **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from academic year 2019- 2020)

**BUSINESS ETIQUETTE AND PROFESSIONAL SKILLS**

**CODE: 19VB/US/BP23**

**CREDITS : 3**

**L T P : 0 0 3**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to important business etiquettes that are critical in today's business environment
- To enhance the skills and confidence to face business stakeholders with professionalism
- To introduce students to the types of communication

**COURSE LEARNING OUTCOMES**

On successful completion, students will be able to

- Define professional behavior and suggest standards for appearance, actions and attitude in a business environment
- Explain different communication styles
- Prepare participants to handle a variety of social and business situations, networking events and business meetings

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Business Etiquettes ; Meaning, Need and Importance
- 1.2 Factors influencing Business Etiquettes
- 1.3 Types of etiquettes in a Business environment : Telephone, Communication, Meetings, Customer

**Unit 2**

**(19 Hours)**

**Workplace Behaviour and Emotional Intelligence**

- 2.1 Workplace Etiquette – Meaning, Do's and Don'ts of behaviour at workplace
- 2.2 Emotional Intelligence – Meaning, Categories and Nature of Emotional Intelligence
- 2.3 Use of Emotional Intelligence at Workplace
- 2.4 Tips to Enhance Interpersonal Relationship at Workplace
- 2.5 Significance of Interpersonal Relationships in Professional Life

**Unit 3**

**(10 Hours)**

**Customer Handling Skills**

- 3.1 Customer Communication: Types
- 3.2 Handling Customers
- 3.3 Assertive vs Aggressive Communication

## **BOOKS FOR STUDY**

Barbara Pachter with Denise Cowie. *The Essentials of Business Etiquette*. Mc Graw Hill Education, 2013

Ishita Bhowan. *Improve Your Presentation Skills*. V & S Publisher, 2014

## **BOOKS FOR REFERENCE**

Paul. A. Argenti. *Corporate Communication*, 6<sup>th</sup> Edition, 2013

Ann Marie Sabath. *Business Etiquette – 101 ways to conduct Business with Charm and Savvy*. Fw Media; 3<sup>rd</sup> Edition, 2010

Kelly M. Quintanilla & Shawn T. Wahl. *Business and Professional Communication*. SAGE Publications, Inc; 2<sup>nd</sup> Edition, 2013

## **JOURNALS**

Journal of Business Communication

International Journal of Management

Journal of Education for Business

## **PATTERN OF ASSESSMENT**

Tasks based Seminars / Poster making / Scrap book / Assignments

## **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.VOC DEGREE: (BANKING, FINANCIAL SERVICES, INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**FINANCIAL SERVICES - I**

**CODE: 19VB/VM/FS36**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the importance of financial services
- To enable students to understand leasing and hire purchase transactions
- To expose students to investment in mutual funds

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand various financial services offered by financial institutions
- Comprehend investment in mutual funds
- Analyse the difference between leasing and hire purchase
- Understand relevant SEBI guidelines

**Unit 1**

**Introduction to Financial services (15 Hours)**

- 1.1 Financial services – Meaning, Types - Fund Based and Fee Based Financial Services
- 1.2 Non-Banking Financial Companies and its Functions
- 1.3 Financial Inclusion- Meaning – Objectives – Approaches to Financial Inclusion in India

**Unit 2**

**Leasing and Hire Purchase (15 Hours)**

- 2.1 Leasing - Types of Lease - Financial Evaluation of a Lease
- 2.2 Contents of a Lease Agreement
- 2.3 Hire Purchase – Features, Legal Position, Bank and Hire Purchase Business
- 2.4 Consumer Durables Finance

**Unit 3**

**Factoring (16 Hours)**

- 3.1 Factoring – Meaning and Types, Bills Discounting, Credit Rating
- 3.2 Rating Agencies and its Functions
- 3.3 Rating Methodology

**Unit 4**  
**Merchant Banking (16 Hours)**

- 4.1 Merchant Banking – Activities in New Issue Market - Managing Issue of Shares and Bonds
- 4.2 SEBI Guidelines for New Issue Market and Role of Lead Managers
- 4.3 Registrar and Transfer Agent (RTA)
- 4.4 Depository Participants

**Unit 5**  
**Mutual Funds (16 Hours)**

- 5.1 Mutual Funds – Mechanism, Types, Features, Methods, Stages and Criteria
- 5.2 Mutual Funds Industry in India
- 5.3 Venture Capital – Features – Methods – Stages and Criteria
- 5.4 Buyouts, Private Equity, Crowd Funding

**BOOKS FOR STUDY**

S.Gurusamy, Financial Services, Tata McGraw Hill Education Private Ltd, New Delhi.  
M.Y.Khan, Financial Services, 6<sup>th</sup> Edition, Tata McGraw Hill

**BOOKS FOR REFERENCE**

Avadhani.V.A. Investment and Securities Market in India, Himalaya Publishing House, New Delhi  
Batra. G.S. Financial Services and Markets, Deep and Deep Publications, New Delhi  
Gordon, E. Natrajan -Financial services, Himalaya Publishing House.  
S. Natrajan S. Parameshwaran – Indian Banking, Chand and Co.  
H.R.Machiraju, Indian Financial System, Vikas Publishing House Pvt Ltd

**WEB RESOURCES**

[www.bseindia.com](http://www.bseindia.com)  
[www.nseindia.com](http://www.nseindia.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :**      **Marks: 35**  
Section A – 6 x 2 = 12 Marks (from a choice of 8)  
Section B – 2 x 4 = 8 Marks (from a choice of 4)  
Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical**      **Marks: 15**  
Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :**      **Marks: 70**  
Section A – 10 x 2 = 20 Marks (no choice)  
Section B – 5 x 4 = 20 Marks (from a choice of seven)  
Section C – 2 x 15 = 30 Marks (from a choice of three)

**Practical**      **Marks: 30**  
Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC DEGREE: (BANKING, FINANCIAL SERVICES, INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**MICRO FINANCE**

**CODE: 19VB/VM/MF36**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS : 78**

**OBJECTIVES OF THE COURSE**

- To expose students to microfinance products and services
- To create an awareness on the emerging issues in microfinance
- To introduce the micro finance models

**COURSE LEARNING OUTCOMES**

On successful completion of the course the students will be able to

- Understand the basic concepts in micro finance
- Analyse the impact of microfinance products on revenue
- Comprehend the regulatory framework of microfinance
- Explain the stages in loan disbursement

**Unit 1**

**Introduction to Micro Finance**

**(15 Hours)**

- 1.1 Meaning, need and Importance of Micro Finance
- 1.2 Evolution of Micro finance in India
- 1.3 Micro Finance Institutions in India
- 1.4 Organisation Structure of Micro Finance

**Unit 2**

**Models of Micro Finance**

**(17 Hours)**

- 2.1 Importance of Micro Finance Models
- 2.2 Legal forms of Micro Finance Models
- 2.3 Innovative and Creative Micro Finance Models

**Unit 3**

**Micro finance Products and Services**

**(17 Hours)**

- 3.1 Types
- 3.2 Impact of Micro Finance Products on Revenue

**Unit 4**

**Credit and Credit Operations**

**(15 Hours)**

- 4.1 Micro finance Credit
- 4.2 Credit Delivery Methodology
- 4.3 Stages in Loan Disbursement (Application, Approval and Documentation)
- 4.4 Loan Collections and Recoveries



**Unit 5****(14 Hours)****Emerging Issues in Micro Finance**

- 5.1 Challenges and the Developments in Micro Finance
- 5.2 Recent Developments in the Regulatory Framework
- 5.3 Micro Finance Act 2012 – An Overview

**BOOKS FOR STUDY**

Das, S. K. (n.d.). Micro Finance & Empowerment of Rural Poor in India. New Delhi: New Century.

Indian Institute of Banking & Finance. (n.d.). Micro Finance Perspectives & Operations. New Delhi: Macmillan.

**BOOKS FOR REFERENCE**

Karmakar, K. (n.d.). Micro Finance in India. New Delhi: Sage Publications.

Kumar, V. (n.d.). Micro Finance. New Delhi: University Science Press.

Neogi, C., & Bhandari, A. K. (n.d.). Women's Entrepreneurship & Micro Finance. New Delhi: Springer.

R.K., U. (n.d.). Financial Sector of India: Emerging Challenges. New Delhi: New Century.

Teki, S. (n.d.). Micro Finance & Financial Inclusions. New Delhi: Academic Foundation.

Vijayakumar, A. (n.d.). Banking, Micro Finance & SHG in India. New Delhi: New Century.

Watkins, T. A. (n.d.). Introduction to Micro Finance. New Delhi: Sage Publications.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
(To be converted to 25)

**Theory :**      **Marks: 35**  
Section A – 6 x 2 = 12 Marks (from a choice of 8)  
Section B – 2 x 4 = 8 Marks (from a choice of 4)  
Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical**      **Marks: 15**  
Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
(To be converted to 75)

**Theory :**      **Marks: 70**  
Section A – 10 x 2 = 20 Marks (no choice)  
Section B – 5 x 4 = 20 Marks (from a choice of seven)  
Section C – 2 x 15 = 30 Marks (from a choice of three)

**Practical**      **Marks: 30**  
Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC DEGREE: (BANKING, FINANCIAL SERVICES, INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**INDIAN SECURITIES MARKET**

**CODE: 19VB/VM/IS34**

**CREDITS : 4**

**L T P : 2 0 2**

**TOTAL TEACHING HOURS : 52**

**OBJECTIVES OF THE COURSE**

- To provide students a comprehensive knowledge of the functions and elements of the stock market.
- To familiarise students with stock market trading and practices
- To expose students to the stock market regulations

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the components and emerging trends of Indian Financial System.
- Recognise the importance of Financial Regulatory Institutions and Markets
- Analyse the need for financial instruments
- Comprehend the relevance of Financial Institutions

**Unit 1 (9 Hours)**

**Introduction**

- 1.1 Market of new issues – Need for floating capital
- 1.2 Public Offer - Private Placement – Rights Issue – Equity and Debt
- 1.3 Recent trends in public issues.

**Unit 2 (12 Hours)**

**Stock Exchange**

- 2.1 Stock Exchange – Services, Role and Organization of Stock Exchange in India
- 2.2 Listing of Securities – Requirements and Procedures

**Unit 3 (10 Hours)**

**Stock Market Participants and Trading**

- 3.1 Types of Brokers
- 3.2 Methods of Trading in Stock Exchange – Carry Over or Badla, Genuine and Speculative Trading

**Unit 4 (12 Hours)**

**Speculators**

- 4.1 Types of Speculators
- 4.2 Mechanism of Trading and Settlement

**Unit 5****(9 Hours)****Stock Market Regulation**

- 5.1 Regulations and Regulatory Agencies for Secondary Markets
- 5.2 Stock Holding Corporation of India
- 5.3 Depository System in India

**BOOKS FOR STUDY**

Avadhani, V.A., *Capital Market Management*, 1<sup>st</sup> edition, New Delhi, Himalaya Publications  
Gordon E., Natarajan K., *Capital Market in India*, New Delhi, Himalaya Publications  
Gurusamy S, *Capital Markets*, 1<sup>st</sup> edition, Chennai, Vijay Nicole Publications

**BOOKS FOR REFERENCE**

Bhole, L.M., *Financial Institutions and Markets: Structure, Growth and Innovations*, McGraw Hill, New Delhi, Fourth Edition  
Khan M. Y., *Indian Financial System*, New Delhi, Tata McGraw Hill Publications  
Saunders, Anthony and Cornett, Marcia Millon, *Financial Markets and Institutions: An Introduction to the Risk Management Approach*, McGraw Hill, Irwin, New York, 2007

**JOURNALS**

Financial Markets, Institutions and Instruments  
Journal of Financial Management, Markets and Institutions  
Journal of International Financial Markets, Institutions and Money

**WEB RESOURCES**

[www.bloomberg.com](http://www.bloomberg.com)  
[www.nse-india.com](http://www.nse-india.com)  
[www.rbi.org.in](http://www.rbi.org.in)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
(To be converted to 25)

**Theory :**      **Marks: 35**  
Section A – 6 x 2 = 12 Marks (from a choice of 8)  
Section B – 2 x 4 = 8 Marks (from a choice of 4)  
Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical**      **Marks: 15**  
Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
(To be converted to 75)

**Theory :**      **Marks: 70**  
Section A – 10 x 2 = 20 Marks (no choice)  
Section B – 5 x 4 = 20 Marks (from a choice of seven)  
Section C – 2 x 15 = 30 Marks (from a choice of three)

**Practical**      **Marks: 30**  
Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**MARKETING OF FINANCIAL SERVICES**

**CODE: 19VB/VM/MS34**

**CREDITS : 4**

**L T P : 2 0 2**

**TOTAL TEACHING HOURS : 52**

**OBJECTIVES OF THE COURSE**

- To introduce students to the marketing of financial services
- To expose students to the benefits of using an analytical approach to marketing in the financial services industry
- To provide knowledge on promotion and marketing of financial services

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain and illustrate the frameworks and approaches in marketing of financial services
- Understand the channels of distribution for financial services
- Comprehend the different methods of sales promotion
- Understand the relevance of financial advisors in marketing financial services

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Marketing – Meaning, Importance and Elements
- 1.2 Marketing Mix - 7P's
- 1.3 Overview of Marketing of Financial Services
- 1.4 Recent Factors affecting Financial Services Market

**Unit 2 (10 Hours)**

**Product Development**

- 2.1 The Financial Products
- 2.2 Special Features of Product Development, Product Development Strategies
- 2.3 Financial Product Life Cycle
- 2.4 Implications of New Technology for Financial Product Development

**Unit 3 (12 Hours)**

**Financial Services in Competitive Markets**

- 3.1 Distributing Services through Physical and Electronic Channels - Advantages of the various Distribution Channels, Role of Intermediaries in Mutual Fund Distribution
- 3.2 Pricing – Pricing System in Banking - Models Employed by Banks, Mutual Fund Dealers, Investment Brokers

**Unit 4 (10 Hours)**

**Advertising and Communications**

- 4.1 Role of Advertising, Advertising Channels
- 4.2 Promotion, Personal Selling, Publicity
- 4.3 Contribution of Advertising and Communication to the Financial Services Marketing Programme

**Unit 5 (10 Hours)**

**Salesforce Management**

- 5.1 Role of Financial Advisors in Financial Services
- 5.2 Characteristics and Requirements for High Selling Performance
- 5.3 Service Quality and Customer Care
- 5.4 Managing Customer Loyalty - Customer Loyalty and Asses the Value of a Loyal Customer

**BOOKS FOR STUDY**

Avadhani V. A., *Marketing of Financial Services*, Himalaya Publishing House  
Arthur Meidan. *Marketing Financial Services*, Palgrave Macmillan

**BOOKS FOR REFERENCE**

Armstrong, Adam, Denize & Kotler, 2015, Principles of Marketing, 6th edition, Pearson Australia, Melbourne  
Hooman Estelami, Marketing Financial Services, Dog Ear Publishing Llc  
Steven J Skinner, *Marketing*, Houghton Mifflin.  
William F. Schoell, Joseph P. Guiltinan, Allyn and Bacon. *Marketing: contemporary concepts and practices*

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :**      **Marks: 35**

Section A – 6 x 2 = 12 Marks (from a choice of 8)

Section B – 2 x 4 = 8 Marks (from a choice of 4)

Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :**      **Marks: 70**

Section A – 10 x 2 = 20 Marks (no choice)

Section B – 5 x 4 = 20 Marks (from a choice of seven)

Section C – 2 x 15 = 30 Marks (from a choice of three)

**Practical**      **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**DEGREE: B.VOC (BANKING, FINANCIAL SERVICES and INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**ENTREPRENEURIAL DEVELOPMENT**

**CODE: 19VB/VE/ED35**

**CREDITS : 5**

**L T P: 2 0 3**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To provide a comprehensive knowledge to the students on the various aspects related to entrepreneurial development
- To familiarise students with the practical aspects of establishing a business
- To expose students to the sources of finance for setting up a business

**COURSE LEARNING OUTCOMES**

On Completion of this course students will be able to

- Analyse the business environment in order to identify business opportunities
- Generate and evaluate ideas for new business ventures
- Explore the possibility of setting up a business
- Prepare a project report for starting a new venture

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Meaning, Definition, Characteristics, Functions and Types of Entrepreneur
- 1.2 Role of Entrepreneurship in Service Institutions
- 1.3 Factors Influencing Entrepreneurship development
- 1.4 Factors impacting Emergence of Entrepreneurship - Barriers

**Unit 2 (15 Hours)**

**Launching a New Venture**

- 2.1 Opportunity Identification and Selection
- 2.2 Idea Generation and Screening of Business Idea
  - 2.2.1 Sources of Business idea – Internal and External
  - 2.2.2 Evaluation of Business Idea
  - 2.3.3 Selection of Business Idea

**Unit 3 (15 Hours)**

**Project Formulation**

- 3.1 Project Identification and Classification
- 3.2 Project Formulation – Meaning and Stages
- 3.3 Project Feasibility
- 3.4 Preparing Model Project Report for Starting a New Venture

**Unit 4** (12 Hours)

**Entrepreneurial Finance**

- 4.1 Financial Planning – Meaning and Need
- 4.2 Sources of finance – Internal and External
- 4.3 Working Capital Management - Sources and Factors Determining Working Capital
- 4.4 Role of Banking and Non-Banking Institutions assisting Entrepreneurs
- 4.5 Government Assistance through Subsidies and Incentives

**Unit 5** (13 Hours)

**Incentives and Subsidies**

- 5.1 Role of Financial Institutions in the Growth of Entrepreneur
- 5.2 Promotional Schemes Offered by the State and Central Government
- 5.3 Challenges and Issues in the Development of Entrepreneurs in India

**BOOKS FOR STUDY**

S.S.Khanka, *Entrepreneurial Development*, S. Chand and Co, New Delhi, 2015  
Desai, V. Dynamics of Entrepreneurship Development and Management, New Delhi:  
Himalaya publishers, 2015

**REFERENCES BOOKS**

Drucker, P. F. *Innovation and entrepreneurship: Practice and principles*. USA: Elsevier. 2006  
Jayashree Suresh, *Entrepreneurial Development*, Margham Publications, New Delhi, 2015  
C.B. Gupta and N. P. Srinivasan, *Entrepreneurial Development*, Sultan Chand and Sons,  
Poornima, C. Entrepreneurship Development - Small Business Enterprises. New  
Delhi: Pearson, (2011).  
Robert D. H. and Peters, M.P. Entrepreneurship. New Delhi: Tata McGraw Hill, 2013  
Baporikar, N. Entrepreneurship Development and Project Management. New Delhi:  
Himalaya publishers, 2011  
Gopalakrishnan, P. Textbook of Project Management. New Delhi: Macmillan, 2014

**JOURNALS**

International Journal of entrepreneurship development and Small business  
Journal of entrepreneurship education  
Journal of Business venturing  
International Journal of Project Management

**WEBSITES**

<http://www.entrepreneur.com>  
<http://www.businessesforsale.com>  
<http://www.sba.gov>  
<http://joe.sagepub.com/content/19/2.toc>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
(To be converted to 25)

**Theory :**      **Marks: 35**

Section A –  $6 \times 2 = 12$  Marks (from a choice of 8)

Section B –  $2 \times 4 = 8$  Marks (from a choice of 4)

Section C –  $1 \times 15 = 15$  Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
(To be converted to 75)

**Theory :**      **Marks: 70**

Section A –  $10 \times 2 = 20$  Marks (no choice)

Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)

Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical**      **Marks: 30**

Case Study/ Application based Questions



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC. DEGREE: BANKING, FINANCIAL SERVICES & INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**BUSINESS ETHICS**

**CODE: 19VB/VE/BE35**

**CREDITS : 5**

**L T P : 2 0 3**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the understanding of issues and practices of corporate governance and corporate social responsibility in the global and Indian context
- To analyse and examine corporate social responsibility issues
- To create an awareness to the students to exercise the ethical responsibilities

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the importance of business ethics.
- Identify unethical practices in marketing and advertising
- Recognise the ethical issues in Finance
- Exhibit an understanding of the relevance of Corporate Governance and Corporate Social Responsibility

**Unit 1 (10 Hours)**

**Introduction to Business Ethics**

- 1.1 Meaning, Scope, Objectives and Characteristics of Business Ethics
- 1.2 Importance of Business Ethics-Influencing Factors
- 1.3 Ethical Dilemma in Business - Conflict of Interest

**Unit 2 (15 Hours)**

**Ethics in Management and Marketing**

- 2.1 Ethics in HRM-Recruitment, Selection, Training, Compensation, Cross Cultural Issue
- 2.2 Ethics in Marketing-Product, Pricing, Marketing Practices
- 2.3 Ethics in Advertising

**Unit 3 (15 Hours)**

**Ethics in Finance**

- 3.1 Ethics in Finance
- 3.2 Ethics in Financial Service, Financial Markets and Securities
- 3.3 Whistle Blowing and Whistle Blowers' Protection

**Unit 4 (15 Hours)**

**Workplace Ethics**

- 4.1 Importance and Principles
- 4.2 Ethical Behaviour in Workplace
- 4.3 Professionalism, Ethical Violations by Employees
- 4.4 Benefits of Ethics in Workplace – Employee Commitment, Employee Attitude and Etiquette
- 4.5 Role of Ethical Culture and Relationships

**Unit 5 (10 Hours)**

**Environmental Ethics**

- 5.1 Need, Managing Environmental Issues
- 5.2 Improving Corporate Environmental Performance
- 5.3 Environmental Audit
- 5.4 Role of Corporates in Environmental Management

**BOOKS FOR STUDY**

Andrew Crane Dirk Matten, Business Ethics (Indian Edition), Oxford University Press, New Delhi.

A.C Fernando, Corporate Governance – Principles, Policies & Practice, Pearson Publication

**BOOKS FOR REFERENCE**

Joan R. Boatright, Ethics and the Conduct of Business, Seventh Edition, Pearson Publication

J. P. Sharma, Corporate Governance, Business Ethics & CSR, Ane Books Pvt. Ltd., New Delhi.

Bhanu Murthy, K. V. and Usha Krishna, Politics Ethics and Social Responsibilities of Business, Pearson Education, New Delhi.

D Geeta Rani & R K Mishra, Corporate Governance-Theory and Practice, Excel Books, New Delhi

Christine A Mallin, Corporate Governance (Indian Edition), Oxford University Press, New Delhi.

**JOURNALS**

International Journal of Management Reviews

International Journal on Corporate Strategy and Social Responsibility

SSRN – E Journal

**WEBSITES**

[www.ibscdc.org](http://www.ibscdc.org)

[www.exed.hbs.edu](http://www.exed.hbs.edu)

[www.hbr.org](http://www.hbr.org)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
(To be converted to 25)

**Theory :**      **Marks: 35**

Section A –  $6 \times 2 = 12$  Marks (from a choice of 8)

Section B –  $2 \times 4 = 8$  Marks (from a choice of 4)

Section C –  $1 \times 15 = 15$  Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
(To be converted to 75)

**Theory :**      **Marks: 70**

Section A –  $10 \times 2 = 20$  Marks (no choice)

Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)

Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical**      **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 800 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from academic year 2019- 2020)

**ENVIRONMENTAL STUDIES**

**CODE:19VB/UC/ES32**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)

[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019– 2020)

**SOCIETY AND PEACE INITIATIVES**

**CODE:19UV/ET/SP32**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To give the students a deeper understanding of the reality and diversity of Indian Society
- To inculcate in them the values of Unity, Harmony and Peace in a multi - cultural and multi - religious society
- To create awareness among the students about Human Rights and Responsible Citizenship

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Have an understanding of the diversity of Indian Society
- Have an awareness of peace initiatives towards building harmony
- Agents of peace building in India
- Know the importance of being humane and compassionate

**Unit 1**

**Responsible Citizenship**

**(8 Hours)**

- 1.1 Basic understanding of the Indian Constitution – preamble- fundamental rights and duties of an Indian citizen
- 1.2 Political context of India - multi-party system
- 1.3 Universal declaration of human rights – human rights violation
- 1.4 Significance of being humane, compassionate and just

**Unit 2**

**Religious and Cultural Diversity of India**

**(10 Hours)**

- 2.1 Highlights of different religions in India – values in different religions
- 2.2 Living the values of respect and understanding in a pluralistic culture
- 2.3 Threats to religious and cultural diversity, Culture Conflicts.
- 2.4 Realities of casteism and communalism

**Unit 3**

**Peace Initiatives**

**(8 Hours)**

- 3.1 Peace as a value in all religions
- 3.2 St. Francis – man peace, prayer for peace
- 3.3 World Initiatives
- 3.4 Gandhi and Principles of Peace

- 3.5 Nobel Peace Laureates – Mother Teresa, Nelson Mandela, Swami Vivekananda, Kailash Satyarti.
- 3.6 Saints of different religions
- 3.7 Role Models – A P J Abdul Kalam, Malala Yousafzai, Dalai Lama, Medha Patkar

**Workshop and Interfaith Prayer – It is a requirement for students to attend**

**BOOKS FOR REFERENCE**

Amaladoss, Michael. *Living in a Secular Democracy, Conflict and Community among Religions*. India: Vaigarai, 2010.

Davidar(Eds). *Human Values*. New Delhi: All India Association of Christian Higher Education ( AIACHE), 2013.

James, G.M.et.al. *Life Issues and Coping Strategies*. Chennai: Loyola College, 2010.

James, G.M.et.al. *Social Awareness*. Chennai: Loyola College, 2009.

Salesians of Don Bosco. *Beyond the Barriers*. Chennai: Deepagam, 2002.

Suri, Sudesh ed. *Global Education Conference on Culture Of Peace and Non-Violence*. Jalandhar, 2002.

Spindler Louise. *Culture Change and Modernization*. New York: Winston Publication, 1983.

**Teaching / Learning Methods**

Lectures/Group discussions/Paper presentations/Power point presentations/Seminars/Role plays/Case studies/Debates

**PATTERN OF ASSESSMENT (Internal)**

**Marks: 50**

**Continuous Assessment Test:**

Quiz/Assignment /Presentation - Individual / Groups

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC DEGREE: BANKING, FINANCIAL SERVICES and INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**INTRODUCTION TO FINANCIAL MANAGEMENT**

**CODE: 19VB/VM/FM46**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the basic tools and principles of financial management concepts
- To provide a sound conceptual framework for financial decision-making
- To expose students to the financial concepts for effective financial planning and forecasting

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the components and emerging trends in financial management
- Recognise the importance of time value of money
- Analyse the need for capital budgeting techniques
- Comprehend and apply the methods of cash management

**Unit 1**

**Nature of Financial Management (16 Hours)**

- 1.1 Nature, Significance and Importance of Financial Management in Decision Making
  - 1.1.1 Investment Decisions
  - 1.1.2 Finance Decisions
  - 1.1.3 Dividend Decisions
- 1.2 Objectives of a Firm
  - 1.2.1 Profit Maximization
  - 1.2.2 Wealth Maximization

**Unit 2**

**Time Value of Money (16 Hours)**

- 2.1 Meaning and significance of time value of money in financial decision
- 2.2 Techniques of time value
  - 2.2.1 Discounting techniques
  - 2.2.2 Compounding techniques

**Unit 3**

**Working Capital Management (16 Hours)**

- 3.1 Need and types of working capital
- 3.2 Determinants of working capital
- 3.3 Simple problems on computation of working capital



#### **Unit 4**

##### **Cash Asset Management**

**(15 Hours)**

- 4.1 Motives in holding cash balance
- 4.2 Basic strategies in cash management
- 4.3 Preparation of cash budget

#### **Unit 5**

##### **Capital Budgeting**

**(15 Hours)**

- 5.1 Investment Appraisal Techniques
- 5.2 Pay Back Period Method
- 5.3 Accounting Rate of Return
- 5.4 Net Present Value Method
- 5.5 Profitability Index Method

#### **BOOK FOR STUDY**

Khan M.Y. and P.K. Jain, 1999, Basic Financial Management, New Delhi, Tata Mc Graw Hill Publishing Company Ltd., 1999.

#### **REFERENCE BOOKS**

James C. Van Horne, Financial Management and Policy, New Delhi, Prentice Hall of India Pvt. Ltd., 2004.

Maheshwari S. N., Financial Management, New Delhi, Vikas Publishing House Pvt. Ltd., 2004.

Pandey I. M., Financial Management, New Delhi, Vikas Publishing House Pvt. Ltd., 2000.

Prasanna Chandra, 1999, Fundamentals of Financial Management, New Delhi, Tata Mc Graw Hill Publishing Company Ltd., 1999.

#### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :**      **Marks: 35**

Section A – 6 x 2 = 12 Marks (from a choice of 8)

Section B – 2 x 4 = 8 Marks (from a choice of 4)

Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :**      **Marks: 70**

Section A – 10 x 2 = 20 Marks (no choice – 5 theories and 5 problems)

Section B – 5 x 4 = 20 Marks (from a choice of seven – 2 theories and 5 problems)

Section C – 2 x 15 = 30 Marks (from a choice of four – 1 theory and 3 problems)

**Practical**      **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.VOC DEGREE: BANKING, FINANCIAL SERVICES and INSURANCE  
SYLLABUS**

(Effective from the academic year 2019 – 2020)

**FINANCIAL SERVICES - II**

**CODE: 19VB/VM/FS46**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To understand the role of financial markets in Banking Industry and NBFC s
- To familiarise students with the operations of secondary market mechanism
- To provide an insight into financial sector

**COURSE LEARNING OUTCOMES**

On successful completion of the course the students will be able to

- Understand the Indian financial system
- Comprehend the relationship between New Issues Market and Stock Exchange
- Recognise the importance of regulatory bodies

**Unit 1 (15 Hours)**

**Introduction to Financial System in India**

- 1.1 Financial Concepts, Functions of Financial System, Financial Assets and its Classifications
- 1.2 Financial Intermediaries and its Classifications
- 1.3 Financial Markets and its Classifications
- 1.4 Financial Instruments and its Characteristics
- 1.5 Financial System and Economic Development

**Unit 2 (16 Hours)**

**Money Market**

- 2.1 Definition, Features, Objectives, Characteristics and Importance
- 2.2 Structure of Indian Money Market
- 2.3 Money Market and its Instruments in Detail
- 2.4 Principles of Financial Markets and Understanding Interest Rates
- 2.5 Recent Developments

**Unit 3 (16 Hours)**

**New Issue Market**

- 3.1 Primary Market System and Regulations in India, Functions of New Issue Market
- 3.2 Stock Exchanges in India: History, Development and Importance
- 3.3 Relationship between New Issue Market and Stock Exchange  
Underwriting, Advantages, Issue of Capital: Methods of Floating New Issues
- 3.4 Instruments of Issue Management and Players in New Issue Market

**Unit 4** **(16 Hours)**

**Secondary Markets**

- 4.1 Secondary Market System and Regulations in India
- 4.2 Depositories: Growth, Development, Regulation, Mechanism  
OTC Exchange
- 4.3 Stock Exchange Mechanism, Advantages of Holding Demat account
- 4.4 Investor Grievances, Basics of Pricing Mechanism, Carry Forward, Badla
- 4.5 Players on Stock Exchange: Investors, Speculators, Market Makers, Bulls, Bears, Stag

**Unit 5** **(15 Hours)**

**Regulations and Agencies**

- 5.1 Stock Exchange Regulations, SEBI Guidelines for Brokers and Sub Brokers
- 5.2 Stock Exchange Board
- 5.3 Stock Indices
- 5.4 Role of FIIs, MFs and Investment Bankers
- 5.5 Regulations and Regulatory Agencies (Primarily SEBI)

**BOOKS FOR STUDY**

Bhalla, V.K. Management of Financial Services. New Delhi: Anmol, 2002.  
Gupta Shashi K and Nisha Agarwal. Financial Services. New Delhi: Kalyani, 2006

**BOOKS FOR REFERENCE**

Gurusamy S. Financial Services and Markets. Chennai: Vijay Nicole Imprints, 2012.  
Khan, M.Y. Financial Services. New Delhi: Tata McGraw Hill, 2006.  
Machiraju H. R., Indian Financial System. New Delhi: Vikas, 2005.  
Financial Services – B.Santhanam, Margham publishers  
D.Joseph Anbarasu, V.K.Boominathan, P.Manoharan, G.Gnanaraj, Financial Services, Sultan Chand and Sons, New Delhi,  
Machendra Raja - Financial Services, S.Chand Publishers, New Delhi

**WEB RESOURCES:**

[www.cisi.org](http://www.cisi.org)  
[www.arthayantra.com](http://www.arthayantra.com)  
[www.investopedia.com](http://www.investopedia.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks:50** **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :** **Marks: 35**

Section A – 6 x 2 = 12 Marks (from a choice of 8)  
Section B – 2 x 4 = 8 Marks (from a choice of 4)  
Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical** **Marks: 15**

Case study / Application based Questions

**Other Components:****Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:****Total Marks: 100****Duration: 3 hours****(To be converted to 75)****Theory :****Marks: 70**Section A –  $10 \times 2 = 20$  Marks (no choice)Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)Section C –  $2 \times 15 = 30$  Marks (from a choice of three)**Practical****Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**FINANCIAL PLANNING**

**CODE: 19VB/VM/FP44**

**CREDITS : 4**

**L T P : 2 0 2**

**TOTAL TEACHING HOURS : 52**

**OBJECTIVES OF THE COURSE**

- To expose students to the importance of financial planning
- To enable students to manage their personal finance
- To acquaint students with various investment options

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify risks in different financial instruments
- Understand and analyse investment options
- Estimate savings and prepare an investment plan
- Comprehend the retirement investment proposals

**Unit 1**

**(10 Hours)**

**Introduction to Financial Planning**

- 1.1 Financial planning – Meaning, Importance and Process
- 1.2 Legal Aspects of Financial Planning
- 1.3 Importance of Risk Management in Financial Planning

**Unit 2**

**(10 Hours)**

**Risk Analysis**

- 2.1 Return on Investment and Risk Profiling
- 2.2 Assessment of Risk in different Financial Instruments

**Unit 3**

**(10 Hours)**

**Investment Planning**

- 3.1 Needs and Benefits of Investing
- 3.2 Sources of Financial Information
- 3.3 Investment Options for Individual Investors – Bonds, Shares, Mutual Funds, Fixed Deposits and other Investments
- 3.4 Operational Constraints while Investing

**Unit 4**

**(10 Hours)**

**Planning of Personal Finance**

- 4.1 Personal Financial Goals and Life Cycle Approach
- 4.2 Elements and Structure of Personal Financial Plan
- 4.3 Estimation of Savings using Time Value Concepts

## Unit 5

(12 Hours)

### Retirement Planning

- 5.1 Retirement Planning - Need Analysis
- 5.2 Investment Schemes for Retirement
- 5.3 Development of Retirement Plan

### BOOK FOR STUDY

Kapoor, J R, Dlabay & Hughes R, *Personal Finance*, McGraw Hill.

### BOOKS FOR REFERENCE

Rachel, Siegel & Carol Yacht, *Personal Finance*, Saylor Foundation, Flat World Knowledge,  
Madura, Jeff, *Personal Finance*, Pearson,  
Bajtelsmit, Vickie L. & Rastelli Linda G., *Wiley Pathways Personal Finance*,

### JOURNALS

Journal of Wealth Management  
The Insurance and Investment Journal  
Journal of Individual Financial Management

### WEB RESOURCES

<http://www.saylor.org/site/textbooks/PersonalFinance.pdf>  
[www.bogleheads.org/wiki/Financial\\_planning](http://www.bogleheads.org/wiki/Financial_planning)  
[www.planningalt.com](http://www.planningalt.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
(To be converted to 25)

**Theory :**      **Marks: 35**

Section A –  $6 \times 2 = 12$  Marks (from a choice of 8)

Section B –  $2 \times 4 = 8$  Marks (from a choice of 4)

Section C –  $1 \times 15 = 15$  Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
(To be converted to 75)

**Theory :**      **Marks: 70**

Section A –  $10 \times 2 = 20$  Marks (no choice)

Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)

Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical**      **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.VOC. DEGREE: BANKING, FINANCIAL SERVICES and INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**STOCK TRADING SIMULATION**

**CODE: 19VB/VM/ST44**

**CREDITS : 4**

**L T P : 2 0 2**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To expose students to stock trading
- To provide an understanding of the complexities of the markets
- To acquaint students with the investment strategies

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the characteristics of different financial assets
- Buy and sell stock and bonds in financial markets.
- Make their own decisions with their investment in stock market
- Identify the risks associated with stock

**Unit 1 (9 Hours)**

**Stock Investing**

- 1.1 Stocks - Meaning, Stock Indexes, Exchange Traded Funds, Stocks Trading Process, Bid/Ask Prices
- 1.2 Liquidity, Market versus Limits Orders
- 1.3 Drivers of Stock Movements, Stocks Valuation, Price to Earnings Ratios, Dividend Yields

**Unit 2 (10 Hours)**

**Bond Investing**

- 2.1 Bonds - Meaning, Types of Bonds
- 2.2 Bond yields, Credit Rating Agencies,
- 2.3 Investment-Grade and Junk Bonds, Call Provisions, Yield to Worst

**Unit 3 (12 Hours)**

**Stock Options**

- 3.1 Call versus put options
- 3.2 Black-Scholes Model

**Unit 4 (10 Hours)**

**Financial Crisis**

- 4.1 Mortgage-Backed Securities - Meaning
- 4.2 Credit Default Swaps - Meaning
- 4.3 Financial Crisis - Regulators, Investment Banks, Homeowners, Mortgage Lenders, Rating Agencies

**Unit 5 (11 Hours)**

**Investment Strategies**

- 5.1 Simple Investment Strategies - Buy and Hold

- 5.2 Fundamental Analysis - Dividend Yield, Earnings Per Share, P/E Ratio, Current Ratio, Debt Ratio
- 5.3 Technical Analysis - Basic Concepts

### BOOKS FOR STUDY

Rustagi R.P., *Investment Analysis and Portfolio Management*, New Delhi: Sultan Chand and Sons

Bhalla, V.K. Tuteja, S.K., *Investment Management*, New Delhi: Sultan Chand and Sons, 2005

### BOOKS FOR REFERENCE

Fisher, Donald, E. and Jordan, Ronald, J., *Security Analysis of Portfolio Management*, New Delhi: Prentice Hall, 2006

Grinold, Richard, Khan, Ronald, N., , *Active Portfolio Management – Quantitative Theory and Applications*, New Delhi: S. Chand, 2006

Ibbotson, Roger, G., *Investment Markets*, New Delhi: Tata McGraw Hill, 2006

Shah, Kishor and Others, *How to Invest Well – A Guide to the Share Market and Personal Investments*, New Delhi: Tata McGraw Hill Publishing Co., 2006

Singhi, Preethi, *Investment Management – Security Analysis and Portfolio Management*, Mumbai: Himalaya Publishing House, 2005

### JOURNALS

Journal of Commodity Markets

Asian Journal of Management Research

International Journal of Commerce and Management

### WEB RESOURCES

<https://commodity.com/>

[www.finance.uni-freiburg.de/object/pdfs/syllabus-stock-market-analysis.pdf](http://www.finance.uni-freiburg.de/object/pdfs/syllabus-stock-market-analysis.pdf)

[www.business.illinois.edu/finance\\_dev/Lesson20.asp](http://www.business.illinois.edu/finance_dev/Lesson20.asp)

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(To be converted to 25)

**Theory :**      **Marks: 35**  
Section A –  $6 \times 2 = 12$  Marks (from a choice of 8)  
Section B –  $2 \times 4 = 8$  Marks (from a choice of 4)  
Section C –  $1 \times 15 = 15$  Marks (from a choice of 2)

**Practical**      **Marks: 15**  
Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
(To be converted to 75)

**Theory :**      **Marks: 70**  
Section A –  $10 \times 2 = 20$  Marks (no choice)  
Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)  
Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical**      **Marks: 30**  
Case Study/ Application based Questions





**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC. DEGREE: BANKING, FINANCIAL SERVICES & INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**BUSINESS STATISTICS**

**CODE: 19VB/VE/BS45**

**CREDITS : 5**

**L T P : 2 0 3**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with statistical tools used in business
- To expose students to the application of statistical tools in business decisions
- To educate on the effective and efficient application of various statistical tools associated with research in business fields.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the different statistical tools
- Apply the tools and techniques and arrive at rational decisions
- Report the trend using secondary data
- Analyse the application of statistical tools associated with research in business

**Unit 1 (15 Hours)**

**Introduction**

- 1.1 Statistics – Meaning, Definition, Functions, Scope & Limitations
- 1.2 Measures of Central Tendency – Mean, Median, Mode
- 1.3 Measures of Dispersion – Standard Deviation, Variance

**Unit 2 (10 Hours)**

**Correlation and Regression**

- 2.1 Introduction - Types of Correlation
- 2.2 Correlation Co-efficient - Computation
- 2.3 Simple Linear Regression Analysis
- 2.4 Multiple Regression

**Unit 3 (15 Hours)**

**Analysis of Time Series**

- 3.1 Utility and Components of Time series
- 3.2 Methods of Measuring Trend
- 3.3 Measurement of Seasonal Variations

**Unit 4** **(15 Hours)**

**Testing of Hypothesis**

- 4.1 Procedure for testing hypothesis
- 4.2 Test of significance
- 4.3 For large samples
- 4.4 For small samples
- 4.5 Limitations of Test of Significance

**Unit 5** **(10 Hours)**

**Chi Square Test and Goodness of Fit**

- 5.1 Meaning and condition for applying chi- square test
- 5.2 Application of chi square test - Test of Goodness of fit and Test of Independence
- 5.3 Yates Correction
- 5.4 Uses and limitations of chi square

**BOOKS FOR STUDY**

Levin, Richard, David S. Rubin, Rastogi, and Siddiqui. Statistics for Management. Pearson Education.

Berenson and Levine. Basic Business Statistics: Concepts and Applications. Pearson Education.

**BOOKS FOR REFERENCE**

Siegel Andrew F. Practical Business Statistics. McGraw Hill.

Vohra N. D., Business Statistics, McGraw Hill.

Spiegel M.D. Theory and Problems of Statistics. Schaum's Outlines Series. McGraw Hill Publishing Co.

Gupta, S.P., and Archana Gupta. Statistical Methods. Sultan Chand and Sons, New Delhi.

Gupta, S.C. Fundamentals of Statistics. Himalaya Publishing House.

Anderson Sweeney and William, Statistics for Students of Economics and Business, Cengage Learning.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks:50** **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :** **Marks: 35**

Section A –  $6 \times 2 = 12$  Marks (from a choice of 8)

Section B –  $2 \times 4 = 8$  Marks (from a choice of 4)

Section C –  $1 \times 15 = 15$  Marks (from a choice of 2)

**Practical** **Marks: 15**

Case study / Application based Questions

**Other Components:** **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**(To be converted to 75)**

**Theory :**

**Marks: 70**

Section A –  $10 \times 2 = 20$  Marks (no choice – 5 theories and 5 problems)

Section B –  $5 \times 4 = 20$  Marks (from a choice of seven – 2 theories and 5 problems)

Section C –  $2 \times 15 = 30$  Marks (from a choice of four – all problems)

**Practical**

**Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 800 086**

**B.VOC. DEGREE: BANKING, FINANCIAL SERVICES & INSURANCE**

**SYLLABUS**

(Effective from academic year 2019- 2020)

**CUSTOMER RELATIONSHIP MANAGEMENT**

**CODE : 19VB/VE/CR45**

**CREDITS : 5**

**L T P : 2 0 3**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To expose students to the concepts and importance of customer relationship management in business
- To acquaint students with the customer relationship management process
- To enable students to understand the recent trends in customer relationship management

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the relevance of customer relationship management in today's competitive business world
- Understand customer relationship management practices in industries
- Analyse customer relationship management practices in financial services

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Definition and Concepts of Customer Relationship Management
- 1.2 Understanding Customer Buying Decision Making process
- 1.3 Customer Life Cycle
- 1.4 Elements of Customer Relationship Management

**Unit 2 (15 Hours)**

**Customer Relationship Management Process and Planning**

- 2.1 Phases and Objectives of CRM process
- 2.2 Phases of CRM cycle
- 2.3 Customer knowledge and Relationship Policy

**Unit 3 (15 Hours)**

**Customer Relationship Management and Marketing**

- 3.1 Evaluation of Customer Relationship Marketing
- 3.2 Types of CRM – Win Back , Prospecting , Cross Selling , Up Selling
- 3.3 Brand Loyalty and Brand Equity in Customers

**Unit 4 (15 Hours)**

**Customer Relationship Management and Implementation**

- 4.1 CRM Implementation – Structure, Choice of Technology, Reporting
- 4.2 Data Storage and Data Mining and Retrieval
- 4.3 Market Intelligence and Information systems for Effective CRM

**Unit 5 (10 Hours)**

**Recent Trends in Customer Relationship Management**

- 5.1 Managing Customer Retention in Retail Industry
- 5.2 Technology changes – Call Centre, Information Centres, Social Media in CRM
- 5.3 CRM in New Industries

**BOOKS FOR STUDY**

Mark Godson, Relationship Marketing, 2008 edition, Oxford University Press.

Thorsten Hening-Thurau, Ursula Hansen, Relationship Marketing, April 2004, Publisher: Spring (May 2000)

**BOOKS FOR REFERENCE**

Roberts Graham-Phelps, 2006, 1st edition, Customer Relationship Management, Pvt. Ltd., New Delhi.

Jaiswal, M.P., Anjali Kaushik, e-CRM: Business and System Frontiers, 1st edition New Delhi, Asian Books Pvt. Ltd., 2002.

Kristin Anderson and Carol Kerr, Customer Relationship Management, 1st edition, New Delhi, Tata McGraw Hill, 2002.

Madhavi Garikaparthi, CRM in Financial Services, 1st edition, Hyderabad, The ICFAI University Press, 2006.

Peter Duchessi, Crafting Customer Value – The Art and Science, 1st edition, Mumbai, Jaico Publishing House, 2006.

Shahjahan S., Relationship Marketing – Text and Cases, New Delhi, Tata McGraw Hill Publishing Co., 2006.

**JOURNALS**

International Journal of Research in Marketing

Indian Journal Of Marketing

Journal of Marketing Theory and Practice

**WEBSITES**

<http://www.forbes.com/>

<http://www.nielsen.com/>

[www.marketing-trends-congress.com](http://www.marketing-trends-congress.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
(To be converted to 25)

**Theory :**      **Marks: 35**

Section A –  $6 \times 2 = 12$  Marks (from a choice of 8)

Section B –  $2 \times 4 = 8$  Marks (from a choice of 4)

Section C –  $1 \times 15 = 15$  Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
(To be converted to 75)

**Theory :**      **Marks: 70**

Section A –  $10 \times 2 = 20$  Marks (no choice)

Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)

Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical**      **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 800 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from academic year 2019- 2020)

**TIME MANAGEMENT**

**CODE : 19VB/US/TM43**

**CREDITS : 3**

**L T P : 1 0 2**

**TOTAL TEACHING HOURS : 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the need for effective presentation
- To acquaint students with the different types of presentation
- To expose students to design a presentation

**COURSE LEARNING OUTCOMES**

At the end of the course, students will be able to

- Communicate ideas and facts verbally in a clear and organized way
- Adjust style, tone, and level of verbal communication to fit the audience and situation
- Recognise the need to deliver impressive presentations
- Understand the preparation that is required for an effective presentation

**Unit 1 (13 Hours)**

**Introduction**

- 1.1 Meaning, Need, Importance, Objectives and Concepts in Time Management
- 1.2 Pre-Requisites, Process and tools in Time Management
- 1.3 Principles of Time Management
- 1.4 Planning & Goal Setting, Managing Yourself, Dealing with other People, Your Time, Getting Results

**Unit 2 (13 Hours)**

**Time Mapping**

- 2.1 Employee Absence- Types, Overtime and Substitution
- 2.2 Delegation of work- Need and Significance of effective Delegation
- 2.3 Maintaining Time Data
  - 2.3.1 Methods, Annual, Monthly, Weekly Calendars and Shifting Plans
- 2.4 Focus is on time and resources, Pre-analysis of performance
- 2.5 Drafting of action plan/ scheduling

**Unit 3 (13 Hours)**

**Time Evaluation**

- 3.1 Meaning and Importance of Time Evaluation
- 3.2 Complete Target Plan, Editing Actual Plan, Cross Application Time Sheet (CATS)



- 3.3 Pre Requisites, Process and Steps
- 3.4 Busy vs. Productive, Indecision & Delay, Overwork, Urgency vs. Importance, Prioritization

### **BOOKS FOR STUDY**

Brian Tracy. *Time Management*. Amacom Publisher, 2014

Jha P.K., *Time Management: The Art of Stress-Free Productivity*, Global Publications Pvt. Ltd., 2008

### **BOOKS FOR REFERENCE**

Vivek Bindra, *Effective Planning and Time Management*, Bloomsberg Publishing, 2018

Dr. Sudhir Dixit, *Time Management*, Manjul Publishing House, 2018

### **JOURNALS**

Journal of Business Communication

International Journal of Management

Journal of Education for Business

### **PATTERN OF ASSESSMENT**

#### **Other Component**

**Total Marks: 50**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

#### **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.VOC DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**PRINCIPLES OF INSURANCE**

**CODE: 19VB/VM/PI56**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the basic concepts in insurance contracts
- To expose students to the risks covered under insurance business
- To educate students on the types of insurance policies

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Comprehend the concepts of insurance
- Understand the principles of insurance and its significance
- Analyse various constituents of the insurance market
- Understand the behavioural aspects of customers

**Unit 1 (9 Hours)**

**Introduction to Insurance**

- 1.1 Nature and Importance of insurance
- 1.2 Evolution of Insurance
- 1.3 Different Classes of Insurance
- 1.4 Recent Trends in Insurance Industry

**Unit 2 (20 Hours)**

**Insurance Contract**

- 2.1 Terms of an Insurance Contract
- 2.2 Principles of Insurance - Insurable Interest, Indemnity, Subrogation, Contribution – Disclosure of all Relevant Information - Utmost Good Faith - the Relevance of Proximate Cause

**Unit 3 (20 Hours)**

**Insurance Terminology**

- 3.1 Life Insurance – First Premium, Renewal – Mode – Limited Payment, Policies Single Premium, Convertible, Days of Grace, Lapse, Paid Up Policy, Revival, Deferment Period, Nomination, Assignment, Bonus, With Profit, Participating, Non-Participating or Without Profit, Surrender Value
- 3.2 Non-Life Insurance – Market Agreements, Cover Notes, Certificates of Insurance, Open Policy, Floater, Excess, Franchise, Claims, Salvage, Coinsurance, Loss, Total Loss, Actual or Constructive Loss, Bonus, Valued Policy, Agreed Value, Full Value, First Loss, Increased Value, Arbitration

**Unit 4** (20 Hours)

**Insurance Market**

- 4.1 Various Constituents of the Insurance Market
- 4.2 Operations of Insurance Companies
- 4.3 Operations of Intermediaries
- 4.4 Specialist Insurance Companies – Insurance Specialists

**Unit 5** (9 Hours)  
**The Insurance Customer**

- 5.1 Understanding Insurance Customers
- 5.2 Different Customer Needs
- 5.3 Importance of Customers – Customer Satisfaction - Customer Behaviour at Purchase Point - Customer Behaviour when Claims Occur - Importance of Ethical Behaviour

**BOOKS FOR STUDY**

A, M. (n.d.). *Elements of Insurance*. Chennai: Margham Publications.  
E.Gordon, and Gupta P.K. (n.d.). *Banking and Insurance*. New Delhi: Himalaya Publishing House.

**BOOKS FOR REFERENCE**

K.B., A., & Singh, V. (n.d.). *Insurance Law in India*. Chennai: Wolters Kluwer.  
Mishra, M. (n.d.). *Principles and Practices of Insurance*. New Delhi: S. Chand and Sons.  
P.K., G. (n.d.). *Insurance and Risk Management*. Delhi: Himalaya Publishing House.  
Periasamy, P. (n.d.). *Principles & Practices of Insurance*. Delhi: Himalaya Publishing House.  
Premavathy. (n.d.). *Insurance Law & Practice*. Chennai: Margham Publications.  
V., M., & Mona, M. (n.d.). *Life & General Insurance*. New Delhi: Himalaya Publishing House.  
Vaughan, E. a. (n.d.). *Fundamentals of Risk and Insurance*. New York: Wiley & Sons.

**WEB SOURCES:**

History of Insurance – From IRDA's Website  
Insurance Regulatory and Development Authority (IRDA) [www.irda.gov.in](http://www.irda.gov.in)  
Insurance Information Bureau (IIB) [www.iib.gov.in](http://www.iib.gov.in)  
IRDA Agency Licensing Portal [www.irdaonline.org](http://www.irdaonline.org)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :**      **Marks: 35**  
Section A – 6 x 2 = 12 Marks (from a choice of 8)  
Section B – 2 x 4 = 8 Marks (from a choice of 4)  
Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical**      **Marks: 15**  
Case study / Application based Questions

**Other Components:** **Total Marks: 50 (to be converted to 25)**  
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**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
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Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical** **Marks: 30**  
Case Study/ Application based Questions

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**B.VOC DEGREE: BANKING, FINANCIAL SERVICES and INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**INSURANCE REGULATIONS**

**CODE: 19VB/VM/IR56**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the significance of the Regulatory Environment of the Insurance Business in India
- To expose students to the procedure for registration of insurance companies
- To educate students on the role and regulations of insurance intermediaries

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- Understand the provisions of the Insurance Regulatory and Development Authority Act regulating insurance business
- Relate to the procedure for claims
- Understand the role and functions of insurance intermediaries
- Comprehend the importance of insurance ombudsman

**Unit 1 (9 Hours)**

**Introduction**

- 1.1 Need for Regulation
- 1.2 Structure of Insurance Regulation Authority
- 1.3 Development and Growth of Life and Non-Life Insurance Industry
- 1.3 Nationalisation of Insurance Industry
- 1.4 Privatisation of Insurance

**Unit 2 (20 Hours)**

**Insurance Regulatory and Development Authority (IRDA) Act 1999**

- 2.1 Mission and Composition of IRDA
- 2.2 Duties, Powers and Functions of IRDA
- 2.3 Operation of IRDA

**Unit 3 (20 Hours)**

**IRDA Regulations on Registration and Licensing**

- 3.1 Insurance Intermediaries – Meaning, Role and Growth
- 3.2 Procedure for Registration of Insurance Companies
  - 3.2.1 General and Capital Requirements
  - 3.2.2 Renewal and Suspension of Registration
  - 3.2.3 Cancellation of Registration
- 3.3 Provisions relating to Registration, Renewal, Revocation and Cancellation of Licence for Intermediaries

**Unit 4 (20 Hours)**

**IRDA Regulations on Micro Insurance**

- 4.1 Micro Insurance: Concept and Origin
- 4.2 Role and Importance of Micro Insurance in Rural and Social Sector
- 4.3 Micro Insurance Agents – Life and Non-life Micro Insurers
- 4.4 Government Strategies for Micro-insurance on Social Protection

**Unit 5 (9 Hours)**

**IRDA Regulation on Protection of Policy Holders**

- 5.1 Life and General Insurance Policy – Regulations
- 5.2 Grievance Redressal, Complaint Handling, Policy Holders Servicing
- 5.3 Claim Procedures for Life and General Insurance Policies
- 5.4 Insurance Ombudsman

**BOOKS FOR STUDY**

M.N. Mishra, *Insurance Principles and Practice*, Sultan Chand and Company Ltd., 21st Edition, 2014

G.L.Banka, *Innovative theory of Risk Management and Insurance*, Shreenivas Publications

**BOOKS FOR REFERENCE**

P.Periyasamy, *Principles and Practice of Insurance*, Himalaya Publishing Delhi

G.S Panda, *Principles and Practice of Insurance*, Kalyani Publishing House, Edition, 2006

S.Arunajatesan, T.R. Viswanathan, *Risk management and Insurance*, Maemillan publishers, 2009

Myneni, S. (n.d.). *Law of Insurance*. Hyderabad: Asia Law House

**WEB RESOURCES:**

Governing Body of Insurance Council (GBIC) [www.gbic.co.in](http://www.gbic.co.in)

General Insurance Council [www.gicouncil.in](http://www.gicouncil.in)

Life Insurance Council [www.lifeinscouncil.org](http://www.lifeinscouncil.org)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks:50 Duration:90 minutes  
(To be converted to 25)**

**Theory : Marks: 35**

Section A – 6 x 2 = 12 Marks (from a choice of 8)

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Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical Marks: 15**

Case study / Application based Questions

**Other Components: Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination: Total Marks: 100 Duration: 3 hours  
(To be converted to 75)**

**Theory : Marks: 70**

Section A – 10 x 2 = 20 Marks (no choice)

Section B – 5 x 4 = 20 Marks (from a choice of seven)

Section C – 2 x 15 = 30 Marks (from a choice of three)

**Practical Marks: 30**

Case Study/ Application based Questions

**B.VOC DEGREE: BANKING, FINANCIAL SERVICES and INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**PRACTICES OF LIFE INSURANCE**

**CODE: 19VB/VM/LI56**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To familiarise students with an understanding of the significance of life insurance business in India
- To enable students to understand different types of life insurance policies
- To educate students about policy claims

**COURSE LEARNING OUTCOMES**

On successful completion of the course the students will be able to

- Understand the types of life insurance policies
- Appear for Licentiate Examination of insurance
- Discuss the trends in life insurance distribution channels
- Comprehend adoption of technology in the insurance sector

**Unit 1 (9 Hours)**

**Introduction**

- 1.1 Meaning, Evolution, Growth of Life Insurance
- 1.2 Scope and Importance of Life Insurance
- 1.3 Life Insurance Organisations in India – Challenges and Competition

**Unit 2 (20 Hours)**

**Types of Life Insurance**

- 2.1 Term, Whole Life, Endowment, Unit Linked Insurance Policies – Features, Benefits
- 2.2 Group and Pension Insurance Policies, Special Features
- 2.3 Evaluation of Policies from Customers' Point of View
- 2.4 Premium – Meaning, Computation, Premium Loading, Rider Premium, Surrender Value and Paid up Value, Procedure relating to Premium Payment
- 2.5 Annuities – Meaning, Types

**Unit 3 (20 Hours)**

**Linked Insurance Plans**

- 3.1 Linked Policy – Equity Funds , Debt Funds , Money Market Funds , Liquid Funds, Balanced Funds, Flexibility, Top-Up, Premium Holiday, Net Assets Value (NAV), Annuities and Pensions
- 3.2 Policy Documents
- 3.3 Computation of Premium for Linked Insurance Plans

**Unit 4 (20 Hours)**

**Policy Claims, Loan and Foreclosure**

- 4.1 Types – Maturity Claim, Early and Non-Early Claim, Survival Benefit Payment, Death Claim

- 4.2 Claims Concession, Settlement Options and Precautions
- 4.3 Claim Procedure – By the Insurer, By the Nominee
- 4.4 Loan against Insurance Policies
  - 4.4.1. Features, Eligibility
  - 4.4.2. Mortgage Loan
- 4.5 Foreclosure – Meaning, Features, Reinstatement

## Unit 5

(9 Hours)

### E-Services in Insurance

- 5.1 Registration for E-Services
- 5.2 Online Payment Facilities, Policy Schedule, Policy Status, Bonus Status and Claim Status
- 5.3 Call Centres and Short Messaging Services

## BOOKS FOR STUDY

Karve, S. L. (n.d.). *Principles of Life Insurance*. Delhi: Himalaya Publishing House.  
 Mishra, K. (n.d.). *Fundamentals of Life Insurance: Theories and Applications*. Delhi: PHI Learning.

## BOOKS FOR REFERENCE

Gopal, A. (n.d.). *How to be a Successful Insurance Agent*. Delhi: Diamond Books.  
 Gulati, N. C. (n.d.). *Principles of Insurance Management: A Special Focus on Developments in Indian Insurance Sector*. Noida: Excel Books.  
 Kutty, S. K. (n.d.). *Managing Life Insurance*. New Delhi: Prentice Hall of India Pvt. Ltd.  
 R, H. (n.d.). *Life Insurance in India*. Chennai: New Century Publications.  
 Raman.B. (n.d.). *Selling Life Insurance - The Practical Way*. Chennai: Laxmi Publications.  
 Rana, J. (n.d.). *Life Insurance in Digital India*. Chennai: Notion Press.  
 Satya Sudha, M., & Rajamunri, V. (n.d.). *Practice of Life Insurance*. Delhi: Himalaya Publishing House.

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :**      **Marks: 35**

Section A – 6 x 2 = 12 Marks (from a choice of 8)

Section B – 2 x 4 = 8 Marks (from a choice of 4)

Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :**      **Marks: 70**

Section A – 10 x 2 = 20 Marks (no choice)

Section B – 5 x 4 = 20 Marks (from a choice of seven)

Section C – 2 x 15 = 30 Marks (from a choice of three)

**Practical**      **Marks: 30**

Case Study/ Application based Questions



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC. DEGREE: (BANKING, FINANCIAL SERVICES and INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**TAXATION**

**CODE: 19VB/VM/TN56**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS :78**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the provisions of the Income Tax Act 1961 and computation of income under different heads
- To educate students on the computation of taxable income and tax liability
- To provide students with an understanding of GST Law

**COURSE LEARNING OUTCOMES**

On completion of this course students will be able to

- Apply the provisions of the Income Tax Act relating to the computation of five heads of income
- Ascertain the taxable income of an individual
- Compute the tax liability of an individual
- Understand provisions relating to GST

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Meaning and Need for Taxation
- 1.2 Cannons of Taxation
- 1.3 Tax Planning and Tax Evasion
- 1.4 Types of Tax- Direct Tax and Indirect Tax
- 1.5 Residential Status and Incidence of Tax

**Unit 2 (20 Hours)**

**Computation of Heads of Income - I**

- 2.1 Salary - Basis of Charge – Allowances , Perquisites, Provident Fund and Computation of Salary Income (Simple problems)
- 2.2 House Property - Basis of Charge- Computation of Self-Occupied and Let Out House, House Property Income (Simple problems)

**Unit 3 (15 Hours)**

**Computation of Heads of Income – II**

- 3.1 Profits and Gains of Business and Profession – Computation of Professional and Business Income (Simple Problems)
- 3.2 Capital Gains - Computation of Short Term and Long Term Capital Gain
- 3.3 Income From Other Sources – Casual and General Incomes

**Unit 4**  
**Computation of Taxable Income and Tax Liability (15 Hours)**

- 4.1 Set Off and Carry Forward Losses - Meaning
- 4.2 Clubbing of Income
- 4.3 Deductions
- 4.4 Assessment of Individual Income
- 4.5 Computation of Tax Liability

**Unit 5**  
**Introduction to Goods and Service Tax (GST) (18 Hours)**

- 5.1 Evolution of GST, Structure and Benefits of its Implementation
- 5.2 Advantages of GST for State and Central Government
- 5.3 Advantages of GST for Business, Traders and Consumers
- 5.4 Levy and Collection of Tax, Rates of GST

**BOOKS FOR STUDY**

Balachandran, V. *Indirect Taxes*. New Delhi: Sultan Chand, 2015  
Gaur, V.P. and D.B Narang. *Income Tax Law and Practice*. Kalyani, 2015  
Monish Bhalla (2015) ; *Commercial GST – The Game Changer* ; Commercial Law Publishers (India) Pvt. Ltd, New Delhi

**REFERENCES**

Ahuja, Girish and Gupta Ravi. *Practical Approach to Income Tax*.  
Mehrothra, H.C. *Income Tax Law and Practice*. Sahithya Bhavan.  
Singhania, Vinod K. *Student's Guide To Income Tax*. Taxmann.  
B, V. (n.d.). *GST in India*. New Delhi: New Century Publications.  
Choudhry, V., Dalmia, A., and Girdharwal, S. (n.d.). *GST - A Practical Approach*. New Delhi: Taxmann.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks:50** **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :** **Marks: 35**  
Section A – 6 x 2 = 12 Marks (from a choice of 8)  
Section B – 2 x 4 = 8 Marks (from a choice of 4)  
Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical** **Marks: 15**  
Case study / Application based Questions

**Other Components:** **Total Marks: 50 (to be converted to 25)**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :** **Marks: 70**  
Section A – 10 x 2 = 20 Marks (no choice – 5 theories and 5 problems)  
Section B – 5 x 4 = 20 Marks (from a choice of seven – 2 theories and 5 problems)  
Section C – 2 x 15 = 30 Marks (from a choice of four – 1 theory and 3 problems)

**Practical** **Marks: 30**  
Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 800 086**

**B. VOC DEGREE: (BANKING, FINANCIAL SERVICES AND INSURANCE)**

**SYLLABUS**

(Effective from academic year 2019- 2020)

**PRESENTATION SKILLS**

**CODE : 19VB/US/PS53**

**CREDITS : 3**

**L T P : 0 0 3**

**TOTAL TEACHING HOURS : 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the need for effective presentation
- To acquaint students with the different types of presentation
- To expose students to design a presentation

**COURSE LEARNING OUTCOMES**

At the end of the course, students will be able to

- Communicate ideas and facts verbally in a clear and organised manner
- Adjust style, tone, and level of verbal communication to fit the audience and situation
- Recognise the need to deliver impressive presentations
- Understand the preparation that is required for an effective presentation

**Unit 1 (12 Hours)**

**Presentation - Introduction**

- 1.1 Presentation – Meaning, Elements and Principles of Effective presentation
- 1.2 Types of Presentation
- 1.3 Salient steps to Develop Presentations
- 1.4 Causes of Ineffective Presentation

**Unit 2 (10 Hours)**

**Designing a Presentation**

- 2.1 Slide Design & Layout
- 2.2 Inserting Pictures, Charts and Tables
- 2.3 Setting up a Presentation – Custom Animation

**Unit 3 (17 Hours)**

**Skills for Presentation**

- 3.1 Meaning of Presentation skills and Ways to improve the Presentation Skills
- 3.2 Thumb rule in making Presentation
  - 3.2.1 10-20-30 Rule
  - 3.2.2 6X6 Rule
- 3.3 Features and Techniques of Good Presentation

## **BOOKS FOR STUDY**

Ishita Bhowan. *Improve Your Presentation Skills*. V & S Publisher, 2014

Torben Lage Frandsen, *Microsoft Office Powerpoint 2007*, Bookboon Publication

## **BOOKS FOR REFERENCE**

Shelly Fishel, *Powerpoint 2016*, Bookboon Publication

Garr Reynolds, *presentationzen*, New Riders Publication, 2015

## **JOURNALS**

Journal of Business Communication

International Journal of Management

Journal of Education for Business

## **PATTERN OF ASSESSMENT**

### **Other Component**

**Total Marks: 50**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

### **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC DEGREE: BANKING, FINANCIAL SERVICES and INSURANCE**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**RISK MANAGEMENT**

**CODE: 19VB/VM/RM66**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To expose students to the concepts of Risk Management
- To educate students on the methods of handling risk
- To assess students in assessing risk in different areas of business

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the approaches to risk management
- Understand operational risk and how to manage it
- Apply risk control techniques
- Analyse risks related to insurance
- Explore responsibilities relating to risks in an organisation

**Unit 1 (9 Hours)**

**Introduction**

- 1.1 Importance of Risk Management
- 1.2 The Concept of Risk
- 1.3 Business Risks – Meaning, Nature, Causes and Types
- 1.4 Methods of Handling Risks
- 1.5 Enterprise Risk Management

**Unit 2 (20 Hours)**

**Risk Assessment**

- 2.1 Sources and Measurement of Risk
- 2.2 Risk Identification and Risk Analysis
- 2.3 Risk Evaluation, Prediction, Retention and Transfer

**Unit 3 (20 Hours)**

**Risk Management Standard**

- 3.1 General Risk Management Standards and Risk Management Frameworks
- 3.2 Alternative Risk Management Approaches

**Unit 4 (20 Hours)**

**Risk Response and Risk Treatment**

- 4.1 Introduction to Risk Treatment and Risk Response
- 4.2 The 4Ts and Risk Control Techniques
- 4.3 Control of Financial Risks
- 4.4 Control of Operational Risk
- 4.5 Insurance and Risk Transfer

**Unit 5****(9 Hours)****Risk Management Responsibilities**

- 5.1 Allocation of Risk Management
- 5.2 Range of Risk Management
- 5.3 Statutory Responsibilities of Management

**BOOKS FOR STUDY**

Niehaus, Harrington (2007), Risk Management and Insurance, Tata McGraw-Hill  
Ghosh, Amalendu "Managing Risks in Commercial and Retail Banking" Wiley Publications

**BOOKS FOR REFERENCE**

George, E. Rejda, Principles of Risk Management and Insurance, Pearson Education.  
Dorfman, Marks S., Introduction to Risk Management and Insurance, Pearson  
All the three modules of Insurance and Risk Management by Institute of Chartered Accountants of India  
Gupta. P.K, Insurance and Risk Management, Himalaya Publishing House. 5. Mishra, M. N., Principles and Practices of Insurance, S. Chand and Sons.  
Dinsdale, W.A., Elements of Insurance, Pitaman.  
Black, K. and H.D. Skipper, Life and Health insurance, Pearson Education  
Crane, F., Insurance Principles and Practices, John Wiley and Sons, New York.  
Vaughan, E. J. and T. Vaughan, Fundamentals of Risk and Insurance, Wiley and Sons  
Hansell, D.S., Elements of Insurance, Macdonald and Evans Ltd.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
**(To be converted to 25)**

**Theory :**      **Marks: 35**

Section A –  $6 \times 2 = 12$  Marks (from a choice of 8)

Section B –  $2 \times 4 = 8$  Marks (from a choice of 4)

Section C –  $1 \times 15 = 15$  Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :**      **Marks: 70**

Section A –  $10 \times 2 = 20$  Marks (no choice)

Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)

Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical**      **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.VOC DEGREE: (BANKING, FINANCIAL SERVICES, INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**HEALTH INSURANCE**

**CODE: 19VB/VM/HI66**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the evolution and growth of health insurance sector in India
- To provide an insight into the different types of health insurance products
- To expose students to health care financing

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Assess health insurance pricing and the regulatory and legal aspects of health insurance
- Know the importance of reinsurance in health insurance
- Identify the different types of health insurance products
- Understand the regulatory aspects relating to customer protection

**Unit 1 (9 Hours)**

**Introduction to Health Insurance**

- 1.1 Health Insurance-Evolution and Growth of Health Insurance in India
- 1.2 Understanding the Health Care System in India – Constitutional Provisions in Areas of Public Health Care, Government Health Departments including District and Local Levels
- 1.3 Infrastructure of the Health Care System: Public and Private Health Centers and Health Care Providers

**Unit 2 (20 Hours)**

**Health Care Financing in India and Health Insurance Products in India**

- 2.1 Financing of Health Care in India - National Rural Health Mission, Challenges of Access to Health Care and Service Quality
- 2.2 Health Insurance Mechanisms and Financial Protection
- 2.3 Health Insurance Products in India – Basic Terms in Health Insurance
- 2.4 Investment Products in Health Insurance and Health Savings Components - Products for Senior Citizens, Micro-Insurance Products, Other Specialized Health Insurance Products

**Unit 3 (20 Hours)**

**Health Insurance Underwriting**

- 3.1 Health Insurance Underwriting, Basic Principles of Underwriting
- 3.2 Documents used for Underwriting
- 3.3 Underwriting Process - Methods of Underwriting
- 3.4 Types of Underwriting Decisions
- 3.5 Group Health Insurance - General and Standard Exclusions

**Unit 4 (20 Hours)**

**Regulatory and Legal Aspects of Health Insurance**

- 4.1 Principles and Practice of Health Insurance Regulations, Need for Health Insurance, Various Kinds of Risks in Health
- 4.2 Licensing and Registration, Types of Regulations, Enforcement of Regulations Monitoring Activity by Regulators, Prevention of Mis-Selling
- 4.3 Health Insurance Regulations in India: Policy holder's Regulation and Grievance Redressal System, Health Insurance for Rural and Informal Sector Workers
- 4.4 Role of IRDA in Initiatives for Standardization - Pre-Existing Diseases (PED's) - Renewability of Health Insurance Policies

**Unit 5 (9 Hours)**

**Customer Service in Health Insurance and Re Insurance**

- 5.1 Consumer Protection and Policy –Holder's Protection
- 5.2 Claim Servicing, Types of Cashless Claims, Grievance Redressal, Survey on Grievance Redressal
- 5.3 Classification of Frauds - Health Insurance Frauds Vs General Insurance Frauds Types of Frauds by the Consumers, Stages of Insurance Frauds
- 5.4 Definition of Reinsurance, Utility of Reinsurance, Products Supported by Reinsurers, White Labeling, Social Reinsurance

**BOOKS FOR STUDY**

Gupta, R. P. (n.d.). *Health Care Reforms in India*. New Delhi: Elsevier.  
K, S. R. (n.d.). *Do we care? India's Health System*. Delhi: Oxford University Press.

**BOOKS FOR REFERENCE**

Khan, M. S. (n.d.). *Reinsurance for Beginners*. Chennai: Create Space Independent Publishers.  
L.P.Gupta. (n.d.). *Health Insurance for Rich and Poor in India*. Delhi: Gupta Publishers.  
Mishra, K. (n.d.). *Fundamentals of Insurance Theory and Application*. Delhi: PHI Learning P. Ltd.  
P.C.James. (n.d.). *Understanding Insurance of Health*. Bangalore: PCJ Value Media Pvt. Ltd.  
Patukale, K. (n.d.). *Mediclaim and Health Insurance*. Delhi: Prabhat Prakashan.

**WEB SOURCES**

IRDA Consumer Education Website [www.policyholder.gov.in](http://www.policyholder.gov.in)  
Insurance Information Bureau (IIB) [www.iib.gov.in](http://www.iib.gov.in)  
IRDA Agency Licensing Portal [www.irdaonline.org](http://www.irdaonline.org)  
Integrated Grievance Management System (IGMS) [www.igms.irda.gov.in](http://www.igms.irda.gov.in)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks:50 Duration:90 minutes**  
**(To be converted to 25)**

**Theory :** **Marks: 35**  
Section A – 6 x 2 = 12 Marks (from a choice of 8)  
Section B – 2 x 4 = 8 Marks (from a choice of 4)  
Section C – 1 x 15 = 15 Marks (from a choice of 2)

**Practical** **Marks: 15**  
Case study / Application based Questions



**Other Components:** **Total Marks: 50 (to be converted to 25)**  
Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
**(To be converted to 75)**

**Theory :** **Marks: 70**  
Section A –  $10 \times 2 = 20$  Marks (no choice)  
Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)  
Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical** **Marks: 30**  
Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC. DEGREE: (BANKING, FINANCIAL SERVICES and INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**HUMAN RESOURCES MANAGEMENT**

**CODE: 19VB/VM/HR66**

**CREDITS : 6**

**L T P : 3 0 3**

**TOTAL TEACHING HOURS : 78**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the concepts and emerging trends in human resource management
- To educate the students on the managerial, operative and maintenance aspects of the human resources in an organization.
- To familiarise students with the processes and mechanism of managing Human Resources.

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- Understand the roles and responsibilities of HR Managers and the challenges faced
- Analyse the concepts and factors affecting human resource planning, Recruitment and Selection
- Measure the effectiveness of Training methods of employees and managers and the techniques involved
- Examine the strengths and weaknesses of different performance management system

**Unit 1 (9 Hours)**

**Introduction**

- 1.1 Scope and Objectives of Human Resource Management
- 1.2 Significance and Functions of Human Resource Management
- 1.3 Emerging Challenges of Human Resource Management- Workforce Diversity, Downsizing, Work Life Balance
- 1.4 Recent Trends in Human Resource Management

**Unit 2 (20 Hours)**

**Acquisition of Human Resources**

- 2.1 Objectives, Characteristics and Process of HR Planning
- 2.2 Job Analysis, Job Description, Job Specification
- 2.3 Recruitment – Concept, Sources
- 2.4 Selection Procedure, Testing, Placement and Induction

**Unit 3 (20 Hours)**

**Training and Development**

- 3.1 Concept and Importance, Identifying Training and Development Needs, Designing Training Programme
- 3.2 Training and Development Methods
- 3.3 Evaluating Training Effectiveness

**Unit 4 (20 Hours)**

**Performance Appraisal**

- 4.1 Nature and Importance of Performance Appraisal
- 4.2 Process and Methods of Performance Appraisal
- 4.3 Performance Management, Performance Counseling

**Unit 5 (9 Hours)**

**Compensation and Maintenance**

- 5.1 Compensation – Factors, Types – Monetary and Non-Monetary
  - 5.1.1 Wage and Salary Compensation
  - 5.1.2 Incentives and Benefits
- 5.2 Employees Welfare– Health, Safety and Social Security
- 5.3 Grievance Handling and Redressal – Vigil Mechanism and Prevention of Sexual Harrassement

**BOOKS FOR STUDY**

Aswathappa K. *Human Resource Management*, Text and Cases 8<sup>th</sup> Edition New Delhi: Tata Mc Graw Hill 2017.

Gupta, C.B. *Human Resource management*. Text and Cases 19<sup>th</sup> Edition New Delhi: Sultan Chand, 2017.

**BOOKS FOR REFERENCE**

Flippo V. Edwin. *Personnel Management*. New Delhi: Mc Graw Hill, 2017.

Mamoria, C.B. *Personnel Management*. Mumbai: Himalaya, 2017.

Prasad, L.M. *Human Resource management*. New Delhi: Sultan Chand, 2017.

John Bratton and Jeffery Gold *Human Resource management Theory and Practice* Macmillan

**WEB RESOURCES:**

<https://nptel.ac.in/downloads/110105031/>

[https://www.tutorialspoint.com/international\\_finance/international\\_finance\\_introduction.htm](https://www.tutorialspoint.com/international_finance/international_finance_introduction.htm)

<http://www.businessmanagementideas.com/financial-management/international-finance/significance-of-international-finance/17285>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**      **Total Marks:50**      **Duration:90 minutes**  
(To be converted to 25)

**Theory :**      **Marks: 35**

Section A –  $6 \times 2 = 12$  Marks (from a choice of 8)

Section B –  $2 \times 4 = 8$  Marks (from a choice of 4)

Section C –  $1 \times 15 = 15$  Marks (from a choice of 2)

**Practical**      **Marks: 15**

Case study / Application based Questions

**Other Components:**      **Total Marks: 50 (to be converted to 25)**

Seminars / Quiz / Group discussion / Assignments / Class Presentation

**End Semester Examination:**      **Total Marks: 100**      **Duration: 3 hours**  
(To be converted to 75)

**Theory :**      **Marks: 70**

Section A –  $10 \times 2 = 20$  Marks (no choice)

Section B –  $5 \times 4 = 20$  Marks (from a choice of seven)

Section C –  $2 \times 15 = 30$  Marks (from a choice of three)

**Practical**      **Marks: 30**

Case Study/ Application based Questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.VOC DEGREE (BANKING, FINANCIAL SERVICES and INSURANCE)**

**SYLLABUS**

(Effective from the academic year 2019 -2020)

**PROJECT**

**CODE: 19VB/VM/PR615**

**CREDITS : 15**

Project should be the independent work of the student. Each student will choose a topic of her interest and the student will be assigned to a supervisor.

The student can use Quantitative or Qualitative/Descriptive or both methods.

➤ **Page Limit :**

The Dissertation report should be submitted in the prescribed format having a maximum of 100 pages, typed in font Times New Roman -size 12, with 1½ line spacing on A4 Size paper.

➤ **Contents of the Report:**

- Contents Page
- The report copy will include Certificate of the Supervisor, Declaration, and Acknowledgement
- Four or five chapters
- Presentation of the Report – format
  - Chapter 1 - Introduction - to include background of the study, objectives , Methodology, limitation of the study and chapter scheme
  - Chapter 2 – Review of literature
  - Chapter 3 – Theoretical aspects of the study
  - Chapter 4 – Data analysis
  - Chapter 5 – Suggestion and conclusion
- At the end of the project ‘Bibliography’ must be given in alphabetical/chronological order and necessary appendix may be added.

➤ **Submission:**

Each student may prepare two soft bound copies of the report, one for her and one copy to be submitted to the Head of the Department duly signed by the supervisor, on the scheduled date.

➤ **Guidelines for Evaluation:**

There will be double valuation for the Dissertation by the supervisor and an external examiner. The student will appear for viva -voce before a panel comprising External Examiner, Supervisor and Head of the Department.

The maximum marks for the project is 100

80 marks External - 60 marks for the project report and 20 marks for the viva- voce

20 marks Internal

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19UV/US/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To engage students in self-understanding and its influence in the formation of their personality
- To make students become conscious of the importance of self, other and the Divine
- To recognise and respect the commonality and differences of the religions of India
- To prepare students to take ownership of their choices in career and family

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand their emotional, psychological and spiritual well-being and an appreciation of self
- recognise their role in family & society as empowered women
- make prudent choices for career and family
- manage work life balance

**Unit 1**

**Spiritual Self**

**(10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family**

**(17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation
- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic

- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion’s vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one’s past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)



## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**DEPARTMENT OF B.A. ECONOMICS**

**PROGRAMME DESCRIPTION**

The programme provides a solid foundation in economic theory, statistics and econometrics so as to develop a thorough understanding of both theoretical and empirical approaches to economics. It provides a strong grounding in critical thinking and analytical skills that will facilitate students to carry out applied economics research. Students will be able to evaluate economic issues and formulate informed opinions on policy issues and recognise the validity of opposing viewpoint.

The programme will promote Co-Curricular activities like research, internships, certificate courses etc. It will focus on achieving high academic standards so as to strengthen student's competitiveness.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of the Programme, the students will be able to:

- Develop the ability to explain core economics terms, concepts and theories
- Demonstrate the ability to employ the “economic way of thinking”
- Demonstrate awareness of global, historical and institutional forces in shaping economies
- Apply economic theories and concepts to economic issues as well as formulation and analysis of policy
- Recognise the role of ethical values in economic decisions
- Demonstrate quantitative reasoning skills
- Present an economic argument in quantitative terms
- Conduct economic analysis.
- Demonstrate computer proficiency within economics.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. DEGREE : BRANCH IV-ECONOMICS**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
<b>SEMESTER-I</b>										
19EC/MC/ME14	Microeconomics I	4	4	1	0	3	50	50	100	
19EC/MC/IE13	Indian Economic Development	3	3	1	0	3	50	50	100	
19EC/AC/SE15	Statistics for Economics	5	5	0	0	3	50	50	100	
19EC/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
19EC/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	
<b>Allied Core Offered to the Department of Commerce(General - Shift I and II)</b>										
19EC/AC/BE15	Business Economics	5	5	0	0	3	50	50	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
<b>SEMESTER-II</b>										
19EC/MC/ME24	Microeconomics II	4	4	1	0	3	50	50	100	
19EC/MC/TN24	Tamil Nadu Economy	4	4	1	0	3	50	50	100	
19EC/AC/MM25	Mathematical Methods for Economics	5	5	0	0	3	50	50	100	
<b>Allied Core Offered to the Department of Commerce(Corporate Secretaryship)</b>										
19EC/AC/EB25	Economic Environment of Business	5	5	0	0	3	50	50	100	
<b>Allied Core Offered to the Department of Commerce(Accounts and Finance)</b>										
19EC/AC/FM25	Money, Financial Markets and International Trade	5	5	0	0	3	50	50	100	
	Life Skills:Personality Development(EL)	3	3	0	0	-	50	-	100	
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100	
<b>SEMESTER-III</b>										
19EC/MC/EE34	Environmental Economics	4	4	1	0	3	50	50	100	
19EC/MC/BE33	Behavioural Economics	3	3	1	0	3	50	50	100	
19EC/AC/WW35	Women, Work and Economics	5	5	0	0	3	50	50	100	
19EC/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100	
<b>SEMESTER-IV</b>										
19EC/MC/MA44	Macroeconomics I	4	4	1	0	3	50	50	100	
19EC/MC/MO44	Monetary Economics	4	4	1	0	3	50	50	100	
19EC/AC/EM45	Introductory Econometrics	5	5	0	0	3	50	50	100	
	Major Elective-I									
<b>SEMESTER-V</b>										
19EC/MC/MA54	Macroeconomics II	4	4	1	0	3	50	50	100	
19EC/MC/PF54	Public Finance	4	4	1	0	3	50	50	100	
19EC/MC/DE54	Development Economics	4	4	1	0	3	50	50	100	
19EC/MC/DA53	Data Analytics and Economic Analysis	3	0	0	5	3	50	50	100	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. DEGREE : BRANCH IV-ECONOMICS**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>Interdisciplinary Core Courses (EC and PH) to students of Economics and Physics</b>									
19ID/IC/RE55	Renewable Energy and Energy Economics	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100
<b>SEMESTER-VI</b>									
19EC/MC/PP64	Public Policy	4	4	1	0	3	50	50	100
19EC/MC/IN65	International Economics	5	5	1	0	3	50	50	100
19EC/MC/ET65	History of Economic Thought	5	5	0	0	3	50	50	100
19EC/MC/RS61	Data Analytics using 'R'	1	0	0	2	2	50	0	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective-II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19EC/ME/MT45	Marketing	5	5	0	0	3	50	50	100
19EC/ME/MF45	Monetary and Financial Economics	5	5	0	0	3	50	50	100
19EC/ME/RA45	Economic Research and Analysis	5	2	0	3	3	50	50	100
19EC/ME/AG45	Agricultural Economics	5	5	0	0	3	50	50	100
19EC/ME/PR45	Project	5	0	0	5	-	-	100	100
<b>General Elective Courses</b>									
19EC/GE/EI22	Economic Issues	2	2	0	0	-	50	-	100
19EC/GE/MM22	Money Matters	2	2	0	0	-	50	-	100
19EC/GE/PP22	Public Policy	2	2	0	0	-	50	-	100
19EC/GE/WW22	Women and Work	2	2	0	0	-	50	-	100
19EC/GE/EF22	Ecofeminism	2	2	0	0	-	50	-	100
<b>Independent Elective Courses</b>									
19EC/UI/MG23	Managerial Economics	3	0	0	0	3	-	100	100
19EC/UI/NL23	Nobel Laureates in Economics	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH IV -ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MICROECONOMICS - I**

**CODE:19EC/MC/ME14**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To offer a comprehensive view of the price theory emphasising the interaction between the households and business firms
- To study consumer behaviour in relation to demand for products
- To understand the behaviour of firms in perfect and in monopoly market.

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- comprehensive understanding other branches of economics
- application of theory to day to day to life
- ability to understand the markets.
- help to apply principles of economics to the decision of individuals
- understand the behaviour of consumers and producers

**Unit 1**

**Introduction**

**(12 Hours)**

- 1.1 Basic Economic Issue- Resource Allocation
- 1.2 The Simple theory of demand of households –the demand function –Elasticity of Demand and its significance
- 1.3 The Simple Theory of supply of firms –the supply function –Elasticity of supply – Marshall's classification of time and elasticity of supply
- 1.4 The elementary theory of price determination –Static, Comparative static and dynamic explanations, Lagged Adjustment of supply and demand to price changes
- 1.5 Application: Analysis using current and temporal Indian agricultural data

**Unit 2**

**Demand Analysis and Consumer Behaviour**

**(13 Hours)**

- 2.1 Cardinal Utility Approach –Conceptual Framework
- 2.2 Ordinal Utility Approach –Assumptions, Properties
- 2.3 Budget Constraint and consumer equilibrium
- 2.4 Income, Substitution and Price Effects – Slutsky's Theorem, Derivation of demand curve
- 2.5 Application: Empirical estimation of demand

**Unit 3**  
**Production and Cost** (16 Hours)

- 3.1 Production function –meaning and kinds
- 3.2 The law of variable proportions
- 3.3 Cobb-Douglas Production function
- 3.4 Isoquants and Iso-cost lines
- 3.5 Laws of Returns
- 3.6 Producers choice of least cost combination of inputs
- 3.7 Production function and cost function –Interrelationship
- 3.8 The theory of costs- cost concepts, long run and short run cost curves
- 3.9 Application: Fitting production function using Indian Industrial/Agricultural data base

**Unit 4**  
**Equilibrium of the Firm** (8 Hours)

- 4.1 TR and TC functions
- 4.2 Conditions for equilibrium of a profit maximising firm
- 4.3 Revenue functions and their relation to demand and elasticity
- 4.4 Application –Calculation of cost using Industrial data

**Unit 5** (16 Hours)  
**Market Structure and Competitive Strategy**

- 5.1 Classification of markets –Meaning of perfect and imperfect competition
- 5.2 Price and Output determination in Perfect competition
- 5.3 Short Run equilibrium of firm and industry
- 5.4 Long run equilibrium of firm and industry –Concepts of normal price and normal profit
- 5.5 Equilibrium of the monopolist
- 5.6 Price discrimination –Equilibrium of a discriminating monopolist
- 5.7 Application: Study of the current market scenario using both primary and secondary data (market survey and presentation)

**BOOKS FOR STUDY**

Pindyck, Robert. S. and Rubinfeld. L. Daniel. *Microeconomics*. 9<sup>th</sup>ed. Boston: Pearson, New Delhi, 2018.

Nicholson, Walter & Christopher. Snyder. M. *Microeconomic Theory. Basic Principles and Extensions*. 11<sup>th</sup>ed. Ohio: South Western, 2011.

Ahuja, H.L, *Advanced Economic Theory: Microeconomic Analysis*, S. Chand, New Delhi, 2017.

**BOOKS FOR REFERENCE**

Koutsoyiannis, A, *Modern Microeconomics*. Second edition, Macmillan Press, New Delhi, 2018

Maddala, G.S and E Miller, *Microeconomics*. McGraw-Hill International edition, New York, 1989.

Varian, Hal R. *Intermediate Microeconomics*. Affiliated East West Press, New Delhi, 1997.

**JOURNALS**

Journal of Applied Economics  
Studies in Microeconomics

## **WEB RESOURCES**

<http://www.stern.nyu.edu/networks/micnotes/micnotes.pdf>

<http://ocw.mit.edu/courses/economics/14-01-principles-of-microeconomics-fall-2007/lecture-notes/>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $5 \times 2 = 10$  marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B –  $2 \times 10 = 20$  marks (2 out of 3 questions to be answered in 400 words each)

Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered in 1000 words)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Problem solving/Case studies

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B –  $5 \times 8 = 40$  marks (5 out of 8 questions to be answered in 400 words each)

Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A DEGREE: BRANCH IV - ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDIAN ECONOMIC DEVELOPMENT**

**CODE:19EC/MC/IE13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To develop in the students, an awareness of the basic issues and problems pertaining to the Indian Industrial Economy
- To inculcate knowledge on the process of industrialisation and the growth of Indian industrial economy
- To motivate the students to take an active interest in the current economic policies operating in India

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- understanding of various aspects of Indian Economy
- trace the Growth of the Indian Industrial Sector and develop a perspective of various challenges faced by them
- visualize the issues and problems faced by the labour community in India
- critically evaluate the existing labour legislations and social security schemes available for labour in India
- exposure to growth of trade and its impact on the country
- recognize, interpret and analyse economic policies operating in India

**Unit 1 (8 Hours)**

**Indian Economy at the Time of Independence**

- 1.1 An overview of the Indian economy at the time of Independence.
- 1.2 Features of a developing economy – India as an emerging economy.
- 1.3 Major Issues facing the Indian economy – Poverty, Unemployment Inflation and Growth.
- 1.4 Overview of Planning in India from 1951 to 2017 – Role of NITI Aayog

**Unit 2 (10 Hours)**

**Place of Agriculture in the Indian Economy**

- 2.1 Role of Agriculture - Agriculture and Economic Growth
- 2.2 Causes for low productivity in Indian Agriculture
- 2.3 Institutional Reforms - Land Reforms and Technological Reforms - Green Revolution –Need for a second Green Revolution.
- 2.4 Agricultural Price Policy – Objectives and Instruments
- 2.5 The Agrarian Crisis and Farmer's Distress



**Unit 3 (14 Hours)**

**Indian Industrial Sector**

- 3.1 Industrial Policy – Industrial Policy since 1991 – Legal framework for Industry – Industrial (Development and Regulation) Act (IDRA) 1951 – Competition Act 2002 – Foreign Exchange Management Act (FEMA) 1999
- 3.2 Industrial Growth – Performance of the Indian Industrial Sector 1991
- 3.3 Public Sector Enterprises – Meaning – Role and Performance of Public Sector Enterprises, Disinvestment.
- 3.4 MSME – Growing Importance and Policy Issues
- 3.5 Small Scale Industries – Case for Small Scale Industries – Problems of Small Scale sector – Policy for the Small Scale sector.

**Unit 4 (10 Hours)**

**Service Sector in India**

- 4.1 Role and Performance of the Service Sector.
- 4.2 Contribution of the Service Sector to Economic Growth.
- 4.3 Sectorwise Analysis- IT, Transport, Telecom, Power, Overview of Social Service(Health & education)
- 4.4 Trends in Performance of Service Sector in India.

**Unit 5 (10 Hours)**

**India's External Sector**

- 5.1 Foreign trade – Structure, Direction and Trends
- 5.2 Balance of Payments – Structure and Components
- 5.3 Trends in India's Balance of Payment
- 5.4 New Economic Policy – Globalization, Liberalisation and Privatisation- An overview

**BOOKS FOR STUDY**

Agrawal, A.N, Agrawal M.K. *Indian Economy: Problems of Development and Planning*, New Delhi: New Age International Publishers. 2017

Kapila, U. *Indian economy: Economic development and policy in India*. New Delhi: Academic Foundation. 2018.

Puri, V. K., & Misra, S. K. *Indian economy*. Mumbai: Himalaya Publishing House. 2018.

Ishwar C. Dhingra, *Indian Economy, Environment and Policy*, New Delhi: Sultan Chand & Sons 2010.

**BOOKS FOR REFERENCE**

Datt, Ruddar and K.P.M. Sundaram, *Indian Economy*, New Delhi: S. Chand and Co., 2010

Dhar P.K., *Indian Economy*, Ludhiana: Kalyani Publishers, 2010

Jhingan M.L. *The Economics of Development and Planning*, New Delhi: Vrinda Publications (P) Ltd., 2007.

Kuchhal, S.C. and Puri, *The Industrial Economy of India*, New Delhi: Chaitanya Publishing House, 1996.

Misra S.K. and V.K. Puri, *Development and Planning: Theory and Practice*, New Delhi: Himalaya Publishing House, 2006.

Parikh, Kirit., *India Development Report* (ed.), New Delhi: Indira Gandhi Institute of Research and development, Oxford University Press, 2004.

**REPORTS:**

1. *Economic Survey* – Various issues since 2000
2. *Tamil Nadu Economic Appraisal* since 2000

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 1 ½ Hours**Section A –  $5 \times 2 = 10$  marks (Any 5 out of 6 questions to be answered in 50 words each)Section B –  $2 \times 10 = 20$  marks (2 out of 3 questions to be answered in 400 words each)Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered in 1000 words)**Other Components:**

Seminars, Quiz, Assignments, Article review

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A –  $10 \times 2 = 20$  marks (Any 10 out of 12 questions to be answered in 50 words each)Section B –  $5 \times 8 = 40$  marks (5 out of 8 questions to be answered in 400 words each)Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A DEGREE: BRANCH IV -ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**STATISTICS FOR ECONOMICS**

**CODE:19EC/AC/SE15**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide a solid foundation in statistics alongside economic applications
- To demonstrate application of a range of statistical tools to economic data
- To provide an understanding of statistical tools and statistical inference

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- explore data
- demonstrate skills in describing, analysing data appropriately, interpret and draw conclusions from the analysis
- empirically verify simple economic laws/theory
- recognize how to use scientific methods in economics
- conduct simple economic analysis using equations and hypothesis

**Unit 1**

**Summary Statistics**

**(10 Hours)**

- 1.1 Measures of Central Tendency
- 1.2 Measures of Dispersion
- 1.3 Measures of deviation from normality –Skewness and Kurtosis
- 1.4 Frequency distributions
- 1.5 Exploring data with graphs

**Unit 2**

**Simple Linear Correlation and Regression Analysis**

**(15 Hours)**

- 2.1 Introduction to correlation analysis
- 2.2 Types of correlation
- 2.3 Methods to estimate correlation
- 2.4 Testing the significance of correlation coefficient
- 2.5 Introduction to regression analysis
- 2.6 Methods of least squares – estimation
- 2.7 Goodness of fit measures
- 2.8 Testing overall significance of the model –ANOVA

- Unit 3**  
**Theory of Probability** (15 Hours)
- 3.1 Introductory concepts
  - 3.2 Additive and Multiplicative theorems, Conditional probability, Baye's theorem
  - 3.3 Random variables and Probability distribution – Concepts
  - 3.4 Theoretical probability distribution – Binomial, Poisson and Normal Distribution
- Unit 4**  
**Testing of Hypothesis** (15 Hours)
- 4.1 Introduction to statistical hypothesis testing
  - 4.2 Comparing two means – 't' test
  - 4.3 Comparing several means – one-way ANOVA
  - 4.4 Large sample test – Standard Error
- Unit 5**  
**Time Series Analysis** (10 Hours)
- 5.1 Concepts and Components of time series data
  - 5.2 Measurement of trends – Graphical, Moving Average Method, Least Square Method, Fitting of Linear Trend Curves

#### **BOOKS FOR STUDY**

Gupta, S.P. *Statistical Methods*, 43<sup>rd</sup> edition. New Delhi: Sultan Chand.  
Gupta, S.C. & V.K. Kapoor. *Fundamentals of Applied Statistics*. New Delhi: Sultan Chand, 2014.  
A.L. Nagar & R.K. Da. *Basic Statistics*, 2nd Edition. New Delhi: Oxford University Press.

#### **BOOKS FOR REFERENCE**

Salvatore, D. *Mathematics and Statistics, Schaum's Series*. New Delhi: Tata McGraw Hill.  
Padmalochan, Hazarika. *Essential Statistics for Economics and Commerce*. New Delhi: Akansha Publishing House, 2006.  
Monga, G.S. *Mathematics and Statistics for Economics*, Second revised edition. Vikas Publishing House.

#### **WEB RESOURCES**

<http://www.economics.utoronto.ca/jfloyd/stats/ecstats.pdf>  
<http://ocw.mit.edu/courses/economics/14-30-introduction-to-statistical-method-in-economics-spring-2006/lecture-notes/>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

### **Other Components:**

**Total Marks: 50**

Quiz /Minor Project (Unit 1)/ Problem solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**Unit 1 Not to be tested**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19EC/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- articulate the interdisciplinary context of environmental issues
- adopt sustainable alternatives that integrate science, humanities and social perspectives
- appreciate the importance of biodiversity and a balanced ecosystem
- calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda
- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods,  
earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas  
Tragedy and Chernobyl Nuclear Disaster

- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si'*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

### WEB RESOURCES

[www.emn.com](http://www.emn.com)

[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19EC/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.



## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**Allied Core offered by the Department of Economics for**  
**B.Com(General-Shift I and II) Degree Programme**

**SYLLABUS**  
(Effective from the academic year 2019-2020)

**BUSINESS ECONOMICS**

**CODE:19EC/AC/BE15**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce basic concepts in micro and macro economics.
- To help in the analysis and logical working of principles underlying economic decision making
- To enable students understand how macro imbalances influence economic activity.

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- provide coherent arguments on the critical role economics plays in decision making of the firm
- understand how macroeconomic factors influence the business environment
- enable students to apply the standard analytical tools of applied economic analysis to business situations
- discuss the important role of monetary and fiscal policy and the need for coordination between the two
- Understand how and why business cycles occur and measures to mitigate the same

**Unit 1**

**Introduction**

**(18 Hours)**

- 1.1 Basic Economic problems-Role of price mechanism
- 1.2 Tools for Economic Analysis-Indifference Curves, Isoquants, Budget Line  
Production Possibility Frontier
- 1.3 Law of demand, determinants of demand, change in demand and amount demanded
- 1.4 Elasticity of demand –Types – Price elasticity –factors influencing elasticity of demand, importance of price elasticity of demand, Income and Cross elasticity. Applications of elasticity of demand
- 1.5 Estimating demand –Importance and Scope of demand forecasting –Techniques of demand forecasting -complete enumeration survey, sample survey, Delphi Technique, Statistical methods –trend analysis, regression:

**Unit 2**

**Supply and Production**

**(10 Hours)**

- 2.1 Law of Supply and its determinants
- 2.2 Elasticity of supply
- 2.3 Short and Long run Production Functions- Law of diminishing returns- Returns to scale
- 2.4 Producers Equilibrium-Least cost combination of factors

**Unit 3**  
**Cost and Revenue** (12 Hours)

- 3.1 Concepts of Cost and Revenue
- 3.2 Relation between average and marginal cost curves
- 3.3 Long run Average Cost Curves and Marginal Cost Curves
- 3.4 Economies of scale (internal and external economies and diseconomies)
- 3.5 Break-Even Analysis –An Overview

**Unit 4**  
**Objectives of the Firm and Market Structure** (12 Hours)

- 4.1 Profit, Growth, Sales, Utility Maximization (Brief Knowledge)
- 4.2 Perfect Competition, Monopoly, Monopolistic Competition, Oligopoly-Features
- 4.3 Equilibrium and price determination under Oligopoly-Kinked Demand, Price Leadership, Cartels
- 4.4 Importance of advertising and selling costs

**Unit 5**  
**Business Cycles and Policies** (13 Hours)

- 5.1 Business Cycles-Meaning, Characteristics, Types, Causes
- 5.2 Inflation-Types of Inflation
- 5.3 Causes and Effects of Inflation
- 5.4 Measures to Correct Economic Fluctuations-Monetary and Fiscal Policy

**BOOKS FOR STUDY**

Ahuja H.L. *Business Economics Micro*, New Delhi: S. Chand and Co, 2010.  
Gregory, N. Mankiw. *Principles of Macroeconomics*: New York, Worth Publishers Press 2009

**BOOKS FOR REFERENCE**

Robert, S. Pindyck, Daniel and L. Rubinfeld, Prem L. *Micro Economics*. New Delhi: Pearson Education, 2005  
Richard. T. Froyen. *Macroeconomics-Theories and Policies*. New Delhi: Pearson  
Samuelson, Paul. A. and Nordhaus William D. *Economics*, New York: McGraw Hill.  
Sundharam K.P.M and E.N Sundharam. *Micro Economics*. New Delhi: Sultan Chand, 2009.  
Seth, M.L. *Micro Economics*, Agra: Lakshmi Narain Agarwal Educational Publishers, 2009.

**JOURNALS**

Journal of Economics and Business  
Journal of Microeconomics

**WEB RESOURCES**

<http://home.manhattan.edu/~fiona.maclachlan/costcurves.pdf>  
<http://www.nber.org/chapters/c2662.pdf>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open book tests/Group discussion/Assignments/Case studies

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.A.DEGREE: BRANCH IV-ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MICROECONOMICS - II**

**CODE:19EC/MC/ME24**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To comprehend issues related to product pricing
- To analyse the interrelation between the product and the factor markets and understand the nature of factor pricing
- To give an insight into the functioning of all markets and their interaction, with a brief exposition of the general equilibrium analysis

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Comprehensive understanding other branches of economics
- Application of theory to day to day to life
- Ability to understand the different types of markets.
- Explain functions of the markets and price as allocation mechanism

**Unit 1**

**Product Pricing under Imperfect Competition (11 Hours)**

- 1.1 A critique of perfect completion –Meaning of Imperfect Competition
- 1.2 Monopolistic Competition –Meaning and Features
- 1.3 Price and Output Determination in the short run and in the long run
- 1.4 Selling Costs, Product Differentiation and their impact on demand curves
- 1.5 Wastes of Monopolistic Competition
- 1.6 Application: Applying the Market Model to the current Indian Market situation through market survey

**Unit 2**

**Oligopoly (15 Hours)**

- 2.1 Features of Oligopoly
- 2.2 Price determination under non-collusive Oligopoly: Cournot, Edgeworth
- 2.3 Kinked Demand Curve
- 2.4 Price determination under collusive Oligopoly: Cartels and Price Leadership
- 2.5 Game Theory: An elementary concept exposition –Nash, Dominant, Maximin strategies
- 2.6 Application: Applying the different market models to the current Indian Market Situation through market survey

**Unit 3**

**The Factor Market and the Theory of Factor Pricing (12 Hours)**

- 3.1 Four fold classification of factors
- 3.2 The demand for factors – Marginal Productivity Theory
- 3.3 The supply of factors

- 3.4 Determination of factor pricing under Perfect and Imperfect Competition in Factor and Product Markets
- 3.5 Adding-up problem

#### **Unit 4**

##### **Wages, Rent, Interest and Profits**

**(15 Hours)**

- 4.1 Wage determination under perfect competition
- 4.2 Wage determination with Trade unions –role of collective bargaining
- 4.3 Wage differentials
- 4.4 Economic rent, scarcity and differential rent
- 4.5 Transfer earnings and quasi rent
- 4.6 Interest rate
- 4.7 Profits – innovation, dynamic changes, uncertainty and risk theories
- 4.8 Application: study of the Indian government's intervention in the betterment of Labour in India through wage legislations and policies

#### **Unit 5**

##### **Information, Market failure and role of Government**

**(12 Hours)**

- 5.1 General Equilibrium and economic efficiency
- 5.2 Markets with Asymmetric information
- 5.3 Market failure – Externalities
- 5.4 Application: Analysis of the Indian Markets

#### **BOOKS FOR STUDY**

Pindyck, Robert. S. and Rubinfeld. L. Daniel. *Microeconomics*. 9<sup>th</sup>ed. Boston: Pearson, 2018.  
 Nicholson, Walter & Christopher. Snyder. M. *Microeconomic Theory. Basic Principles and Extensions*. 11<sup>th</sup>ed. Ohio: South Western, 2011.  
 Ahuja, H.L, *Advanced Economic Theory: Microeconomic Analysis*, S. Chand, New Delhi, 2017.

#### **BOOKS FOR REFERENCE**

Koutsoyiannis, A, *Modern Microeconomics*. Second edition, Macmillan Press, New Delhi, 2018  
 Maddala, G.S and E Miller, *Microeconomics*. McGraw-Hill International edition, New York, 1989.  
 Varian, Hal R. *Intermediate Microeconomics*. New Delhi: Affiliated East West Press, 1997.

#### **JOURNALS**

Studies in Microeconomics  
 Applied Economics

#### **WEB RESOURCES**

<http://www.slideshare.net/salasvelasco/microeconomics-production-theory>  
<http://www.slideshare.net/MrRed/ap-micro-monopolistic-competition-and-oligopoly>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Problem solving/ Case studies

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH IV –ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TAMIL NADU ECONOMY**

**CODE:19EC/MC/TN24**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To under the relevance of regional economics
- To become familiar with Tamil Nadu economic and development issues.
- To understand the critically the development issues in a larger context

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Have a clear perspective of the Tamil Nadu economics
- Help them to take up competitive exams.
- Pursue research with emphasis on regional economics

**Unit 1**

**Introduction**

**(13 Hours)**

- 1.1 Tamil Nadu – Salient features – Geographical features
- 1.2 Economic and Social Indicators – Human Development Index Rank – Gender Disparity Index – Poverty Index –Work participation rate – Unemployment rate – Literacy Rate – Life expectancy
- 1.3 Population and demography – Occupational pattern

**Unit 2**

**Agriculture**

**(15 Hours)**

- 2.1 Agriculture – land use pattern – cropping pattern –irrigation pattern
- 2.2 Agricultural marketing – defects and remedial measures;
- 2.3 Agricultural finance – policy and issues – crop insurance

**Unit 3**

**Industry**

**(15 Hours)**

- 3.1 Industrial Scenario in Tamil Nadu
- 3.2 Production trend — Large industries, MSME – Khadi and Village industries; Export contribution of top 5 major industries
- 3.3 Industrial financial institution – TIIC, SIDCP, SIPCOT; Industrial estates in Tamil Nadu – DIC, EPZ, SPZ, SEZ

**Unit 4**

**State Finance and Developing Programmes**

**(10 Hours)**

- 4.1 State finance – revenue and expenditure of the state – TN's recent budget
- 4.2 Poverty Alleviation programme



- 4.3 Education and health care -related government schemes
- 4.4 Unemployment programme

## **Unit 5**

### **General Performance of the State**

**(12 Hours)**

- 5.1 Tourism and medical tourism
- 5.2 Women development programme
- 5.3 Environmental protective measure in TN
- 5.4 Political economy of TN

## **BOOKS FOR STUDY**

- A.G. Leonard, S.J. "Tamil Nadu Economy", Macmillan India Ltd., New Delhi, 2006  
M. Naganathan, "Tamil Nadu Economy – Trends and Prospects", (ed.), University of Madras, 2002.  
N. Rajalakshmi, 'Tamil Nadu Economy' Business Publishers, Bombay, 1999.

## **BOOKS FOR REFERENCE**

- Tamil Nadu – An Economic Appraisal, Department of Evaluation and Applied Research.  
Panorama of Indian Economy – S. Manickam, 2010  
Madras Institute of Development Studies, 'Tamil Nadu Economy' – Performance and Issues, Oxford and IBH Publishing Company Pvt. Ltd., New Delhi , 1988.

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

**Other Components:** **Total Marks: 50**

Quiz/Group Presentation/ Discussion/Assignment

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A–10 x 2= 20 marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A DEGREE: BRANCH IV - ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICAL METHODS FOR ECONOMICS**

**CODE:19EC/AC/MM25**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To familiarise the use of mathematical techniques in the field of Economics
- To train the students in basic mathematical tools of Linear Algebra and Calculus
- To enable better understanding of the optimization techniques and apply this knowledge to problems relating to economic theory

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- acquire computational skills- calculation of derivatives, solve problems in optimization
- identify the tools required to solve specific economic issues or problems using analytical skills
- acquire broad understanding of maximisation and minimisation techniques
- apply optimization techniques for economic analysis
- integrate theory with techniques

**Unit 1**

**Analytical Geometry (15 Hours)**

- 1.1 Definition of the Cartesian system of coordinates, distance formula, coordinates of the point dividing the line joining two points in a given ratio, coordinates of the mid-point.
- 1.2 Equations of straight lines in slope intercept form, slope and a given point form, X and Y intercept form, two point form.
- 1.3 Angle between straight lines and conditions for parallelism and perpendicularism point of intersection of two straight lines
- 1.4 Linear demand and supply curves, savings and investment curves, equilibrium of demand and supply.
- 1.5 Equation of parabola and identification of vertex, focus directrix, axis and latus rectum and problems on the application of parabola. Equation of rectangular hyperbola. Unitary elasticity of demand and average fixed cost

**Unit 2**

**Matrix and Determinants (10 Hours)**

- 2.1 Various types of matrices. Matrix operations- addition, subtraction and multiplication
- 2.2 Determinants, properties of determinants, solving equations using Cramer's Rule.
- 2.3 Matrix inversion and solving equations using inverse of a matrix
- 2.4 Structure of input-output table, Static Leontief system
- 2.5 Solving open input output models and Hawkin-Simon Condition

**Unit 3**  
**Differential Calculus** (15 Hours)

- 3.1 Variables, constants and functions
- 3.2 Concept of limits, Continuous and Discontinuous functions
- 3.3 Definition of derivatives and rules of differentiation. Derivatives of  $y=x^n$ ,  
 $y = e^x$ ,  $y = \log x$
- 3.4 Function of a function rule, logarithmic, parametric and implicit differentiation
- 3.5 Partial Derivatives

**Unit 4**  
**Calculus – Economics Application** (15 Hours)

- 4.1 Application to elasticity of demand and supply
- 4.2 Derivation of marginal and average cost and revenue functions
- 4.3 Inter-relationship among total, marginal and average functions
- 4.4 Cross elasticity of demand and MC, MR, MP with two or more inputs
- 4.5 Production Function, homogenous functions and Euler's Theorem

**Unit 5**  
**Maxima and Minima** (10 Hours)

- 5.1 Increasing and Decreasing functions, interpretation of slope as the first derivative
- 5.2 Unconstrained maxima and minima with single explanatory variable
- 5.3 Application to cost minimization, revenue maximization
- 5.4 Profit maximization and equilibrium of firm

**BOOKS FOR STUDY**

Chiang, A.C. and Kevin Wain Weight, *Fundamentals Methods of Mathematical Economics*. Indian edition: McGraw Hill International, New Delhi, 2017  
Mehta, B.C. and Madnani, G.M. *Mathematics for Economists*. New Delhi: Sultan Chand, 2000.

**BOOKS FOR REFERENCE**

Allen, R.G.D. *Mathematical Economics*, Madras: English Language Book Society and Macmillan Press, 1973.  
Basal, Anjali. *Mathematical Methods for Economics*. New Delhi: Nath Enterprises, 1995.  
Monga. G.S. *Mathematics for Management and Economics*, Vikas Publishing House Pvt. Ltd., New Delhi, 1996  
Narayanan, S. and Manicavachagam. Pillay T.K. *Calculus*. Madras: Viswanthan Printers and Publishers, 1995.  
Natarajan and Manicavachagam Pillay. *A Text Book of Analytical Geometry*, Madras: S. Viswanthan Printed and Publishers, 1981.  
Sancheti, D.C. and V.K. Kapur, *Business Mathematics*, New Delhi: Sultan Chand, 1981.  
Sydsaetar, Knut and Peter. Hammond. *Mathematics for Economic Analysis*. Singapore: Pearson Education, 2005.

**JOURNALS**

Journal of Mathematical Economics and Finances

**WEB RESOURCES**

<http://www.econ2.uni-bonn.de/mitarbeiter/downloads/mathnotes.pdf>

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions)

Section B – 2 x 10 = 20 marks (2 out of 3 questions)

Section C – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:****Total Marks: 50**

Quiz/Assignments/Problem solving

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Any 10 out of 12 questions)

Section B – 5 x 8 = 40 marks (5 out of 8 questions)

Section C – 2 x 20 = 40 marks (2 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core offered by the Department of Economics for the  
B.Com. (Corporate Secretaryship) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ECONOMIC ENVIRONMENT OF BUSINESS**

**CODE:19EC/AC/EB25**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand concepts in Economics and thereby enable a comprehensive application of such concepts in the current business scenario
- To help grasp the various nuances that connect Business with Economics.

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- understand the working of various Economic systems.
- Identify the relevant market structures in business decisions.
- Have a broad understanding of basic concepts in Public and International Economics
- analyse the impact of macroeconomic policies on business
- analyse local and global business environment

**Unit 1**

**Economic systems**

**(9 Hours)**

- 1.1 A brief overview of the concept of economic systems –Capitalism, Socialism, Mixed.
- 1.2 The trend in economic ideologies over the years: free market laissez faire – capitalism to planned development –role of the government –to liberalization and globalization
- 1.3 India as a mixed economy - Problems of development

**Unit 2**

**Market structures**

**(15 Hours)**

- 2.1 Concepts of Cost and Revenue – Total Cost, Average Cost, Marginal Cost, Total Revenue, Average Revenue and Marginal Revenue
- 2.2 Breakeven analysis – concept and users
- 2.3 Perfect competition and Monopoly – Features, Equilibrium and price determination, price discrimination.
- 2.4 Monopolistic Competition – Features, importance of selling and advertising costs
- 2.5 Oligopoly – Features, Concept of ‘Kinky Demand’ Curve, price leadership and cartels

**Unit 3**  
**Political Economy and Role of the Government (13 Hours)**

- 3.1 Market Failure and Need for Government -Public versus private goods and Externalities and asymmetric information-failure arising out of government intervention
- 3.2 Fiscal Policy - Fiscal budgetary developments- Preparation, Enactment, Execution and Parliamentary control over finance
- 3.3 An analysis of the recent Indian central government Budget.

**Unit 4**  
**International Trends and Issues (13 Hours)**

- 4.1 Free trade versus protection –tariffs and non-tariff barriers
- 4.2 Globalisation and the Indian Economy
- 4.3 A brief overview of GATT and WTO –TRIPS,TRIMS,AOA, Sanitary And Phytosanitary Measures

**Unit 5**  
**Business Cycles and Policies (15 Hours)**

- 5.1 Business Cycles – Types, Phases, Causes and Effects
- 5.2 Inflation – Causes and effects
- 5.3 Methods to control Inflation – Monetary Policy – Objectives and Instruments
- 5.4 Application – Choose a country and any major issue and study its impact on its economic growth.

**BOOKS FOR STUDY**

- John Sloman and Elizabeth Jones. *Essential Economics for Business*. 5<sup>th</sup> Edition. Pearson Education Ltd. New Delhi, 2017
- Boadway. R, Shah. A, *Fiscal Federalism, Principles and Practice of Multiorder Governance*, Cambridge University Press. UK, 2009
- Carbaugh. R.J. *International Economics*. UK: Cenage Learning, 2008.
- Andrew B. Abel, Ben S. Bernanke. *Macroeconomics* 9<sup>th</sup> edition. Pearson Education, New Delhi, 2016
- Tyagi. B.P., *Public Finance*, 5<sup>th</sup> edition, Jai Prakash Nath and Co., Meerut, 2013

**BOOKS FOR REFERENCE**

- Browning. E.K. *Public Finance and the Price System*. New Delhi:Pearson, 1994.
- Cherunilam, Francis. *International Economics*, New Delhi: Tata McGraw Hill, 2012
- Das Gupta S. & Ray Kiely (eds.). *Globalization and After*. New Delhi: Sage,2006.
- Steger. M. B., *Globalization: The New Market Ideology*. New Delhi:Rawat Publications, 2004.

**JOURNALS**

- Economic and Political Weekly
- International Journal of Sustainable Development & World Ecology
- Journal of Social and Development studies
- The Economist
- International Journal of Human Resource Development and Management

## **WEB RESOURCES**

<http://www.in.undp.org/>

[www.imf.org](http://www.imf.org)

[www.worldbank.org](http://www.worldbank.org)

[www.wto.org](http://www.wto.org)

[www.unctad.org](http://www.unctad.org)

[www.un.org](http://www.un.org)

[www.rbi.org.in](http://www.rbi.org.in)

<http://mhrd.gov.in/>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Case studies

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core offered by the Department of Economics for  
B.Com. (Accounts and Finance) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MONEY, FINANCIAL MARKETS AND INTERNATIONAL TRADE**

**CODE:19EC/AC/FM25**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide the student with an overview of Money, Banking and International trade from the Indian Context.
- To enable the students to understand the macro policies.
- To enable the students to have a understanding of the working of the open economy.

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- acquire the skills required to trade with financial markets
- have a good understanding of how the financial markets functions
- analyse the various macro-economic policies of India and its relevance.
- identify the difference in the working of the open and closed economy
- understand the working of the commercial and central bank

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Money - Definition , Evolution , Types and Functions
- 1.2 Value of Money - Measurement - Index numbers
- 1.3 Demand for Money- Determinants
- 1.4 Money Supply - Determinants
- 1.5 Measurement of money supply - Indian Context

**Unit 2**

**Financial markets**

**(15 Hours)**

- 2.1 Structure of Financial Markets
- 2.2 Money Market - Instruments
- 2.3 Capital Market - Instruments
- 2.4 Forex - Definition - Types of Markets

**Unit 3**

**Banking**

**(12 Hours)**

- 3.1 Central Bank - Functions
- 3.2 Commercial Banks - Functions
- 3.3 Credit Creation - Monetary base and Money Multiplier
- 3.4 Credit Control - Qualitative and Quantitative



**Unit 4**  
**International Trade** (13 Hours)

- 4.1 BOP and BOT - Concept and Balance Sheet
- 4.2 Disequilibrium - Causes and Measures to correct Disequilibrium
- 4.3 Exchange rate - Fixed and Flexible
- 4.4 Free trade Vs protectionism - Ad Valorem , Specific Tariff and Quota  
- Effect (Production, Consumption, Terms of Trade)

**Unit 5**  
**Policies** (15 Hours)

- 5.1 Monetary Policy - Objectives and Instruments
- 5.2 Monetary Policy in India - Post Reforms (Since 1991)
- 5.3 Trade Policy - EXIM Policy

**BOOKS FOR STUDY**

Hajela T N, Money, Banking and International Trade, ANE Books, New Delhi, 2009.  
Mishkin F S and A Serletis, Economics of Money Banking and Financial Markets , New York, Springer Publication, 2009.  
Sundaram, K P M, Money, Banking and International Trade, New Delhi, Sultan Chand and Co., 2006.

**BOOKS FOR REFERENCE**

Khan M Y, Indian Financial System, 9<sup>th</sup> edition, New Delhi, McGraw Hill, 2000.  
Mankiw, N, Gregory, Principles of Macroeconomics, 9<sup>th</sup> Ed, New York, Worth Publishers, 2009  
Appleyard, Field Cobb, International Economics, 7<sup>th</sup> Ed, McGraw Hill Education (India), Pvt., Ltd., 2009.

**WEB RESOURCES**

[www.mospi.gov.in](http://www.mospi.gov.in)  
[www.rbi.org.in](http://www.rbi.org.in)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Case studies

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A.DEGREE: BRANCH IV -ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL ECONOMICS**

**CODE:19EC/MC/EE34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the theoretical basis and implications of Environmental Economics
- To grasp all nuances involved in adopting the sustainable path to development

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- have a better understanding of Environment-Economy linkages
- have better perspective of sustainable development
- conserve, recycle and reuse environmental resources
- understand the historical development of Environmental Economics
- enable students to understand why Economics under values the environment

**Unit 1**

**Fundamentals of Environmental Economics**

**(12 Hours)**

- 1.1 Definition, scope and significance.
- 1.2 Environment – economy linkages – material balance approach
- 1.3 Malthusian and neoclassical perspective of environment
- 1.4 Sustainable development
- 1.5 Environment Kuznet Curve

**Unit 2**

**Economics of Natural Resources**

**(15 Hours)**

- 2.1 Classification of natural resources
- 2.2 Scarcity and measurement
- 2.3 Economics of exhaustible resources – Hotelling Rule
- 2.4 Economics of renewable resources –Static model of fishing.

**Unit 3**

**Market Failure**

**(12 Hours)**

- 3.1 Environment as a public good
- 3.2 Externalities
- 3.3 Pigovian fee and Coase theorem on Property rights
- 3.4 Tragedy of commons

**Unit 4**  
**Valuing Environment** (14 Hours)

- 4.1 Total Economic value
- 4.2 Contingent valuation method – stated preference
- 4.3 Travel cost model and hedonic pricing
- 4.4 Economics of sustainable development.
- 4.5 Green accounting – ecological footprint, carbon footprint, ecological shadow

**Unit 5**  
**Economics of Pollution control** (12 Hours)

- 5.1 Optimal level of pollution
- 5.2 Regulation of pollution through economic instruments
- 5.3 Command and Control

**BOOKS FOR STUDY**

Kolestad, Charles D. *Environmental Economics*, New York: Oxford University Press, 2000.  
Barry C. Field. *Environmental Economics: An Introduction*, Singapore, McGraw-Hill, 1994  
Nick Hanley, Jason Shogren and Ben White, *Introduction to Environmental Economics*, second edition, Oxford University Press, Oxford, 2013.

**BOOKS FOR REFERENCE**

Hussen, Ahmed.M. *Principles of Environmental Economics: Economics, Ecology and Public Sector*. London: Routledge, 1999.  
Singh, Katar. And Shishodia. Anil. *Environmental Economics: An Indian Perspectives*. New Delhi: Oxford University Press, 2007.  
Hodge Ian, *Environmental Economics: Individual Incentives and Public Choices*, MacMillan Press. New Delhi, 1995.  
Yuema James, McGilbray, Michael Common Perman, Roger, *Natural Resource and Environmental Economics*, Pearson Education, New Delhi: 2003.

**JOURNALS**

Annual Review of Resource Economics  
Environmental and Resource Economics

**WEB RESOURCES**

<http://www2.econ.iastate.edu/classes/econ380/zhao/lecnotes-index.htm>  
<http://ocw.mit.edu/courses/economics/14-42-environmental-policy-and-economics-spring-2011/lecture-notes/>  
<https://dutraeconomicus.files.wordpress.com/2014/01/roger-perman-yue-ma-michael-common-david-maddison-james-mcgilvray-natural-resource-and-environmental-economics-3rd-edition-2003.pdf>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A –  $5 \times 2 = 10$  marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B –  $2 \times 10 = 20$  marks (2 out of 3 questions to be answered in 400 words each)

Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered in 1000 words)

**Other Components:** **Total Marks: 50**

Quiz/Group Presentation/Assignment

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A –  $10 \times 2 = 20$  marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B –  $5 \times 8 = 40$  marks (5 out of 8 questions to be answered in 400 words each)

Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

**(Effective from the academic year 2019 -2020)**

**BEHAVIOURAL ECONOMICS**

**CODE: 19EC/MC/BE33**

**CREDITS : 3**

**L T P : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To provide students with an introduction to the principles and methods of Behavioural Economics
- To identify and evaluate evidences for systematic departures of economic behaviour from the predictions of the standard economic models
- To enable students to examine evidences that shows some departure from assumptions made in the mainstream economic model
- To enable students to analyze how people make economic decisions under various constraints and influence.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- reflect empirical established behaviour of economic subjects against the backdrop of mainstream economic theoretical approaches
- demonstrate how standard assumptions in economics translates into predicted behaviour
- explain behavioural concepts in individual decision making and strategic interaction

**Unit 1**

**Nature of Behavioural Economics**

**(7 Hours)**

- 1.1 Mainstream Economics and Rationality
- 1.2 History and Evolution of Behavioural Economics
- 1.3 Behavioural Economics and Bounded Rationality
- 1.4 Concept in Behavioural Economics – Targeting/ Satisficing: Limits to Selfishness: Framing Effects

**Unit 2**

**Foundations of Behavioural Economics**

**(16 Hours)**

- 2.1 Values, Preference and Choice; Axioms, Assumptions and Define - Types of utility - The neuroscience base of Utility
- 2.2 Hueristics and Biases: Status-quo bias : Self Evaluation bias- Projection Bias - Cause of Irrationality
- 2.3 Mental Accounting : Nature and components of mental accounting- Framing and Editing; Budgeting and Fungibility; Choice Bracketing and Dynamics

- Unit 3**  
**Decisions under Risk and Uncertainty** (12 Hours)
- 3.1 Conventional approaches to modifying Expected Utility theory
  - 3.2 Prospect theory and Endowment effect
  - 3.3 Reference points and Loss Aversion
  - 3.4 Shape of the utility function
  - 3.5 Decision -weighting
- Unit 4**  
**Intertemporal Choice Models** (10 Hours)
- 4.1 Features and anomaly of the Discounted Utility Model
  - 4.2 Time Inconsistent Preferences and Limited Self-Control
  - 4.3 Exponential Discounting Versus Hyperbolic discounting
- Unit 5**  
**Social Preferences** (7 Hours)
- 5.1 Selfishness and Altruism: Public goods provision and Altruistic behaviour
  - 5.2 Fairness : Holding firms accountable in a competitive market place
  - 5.3 Trust and Reciprocity: Trust in the marketplace, trust and distrust, Reciprocity – Dictator and Ultimatum Games
  - 5.4 Behaviourial Economics and Libertarian Paternalism

### BOOKS FOR STUDY

Nick Wilkinson and Matthias Klaes . *An Introduction to Behavioural Economics* 2<sup>nd</sup> Edition, Palgrave Macmillan, London, 2012

David R. Just, *Introduction to Behavioural Economics*, Wiley Publication, New Jersey, 2014

Colin F.Camerer, George Loewenstein and Matthew Rabin, *Advances in Behavioural Economics*, Princeton University Press, New Jersey, 2003

### BOOKS FOR REFERENCE

Frank Robert H, *Microeconomics and Behaviour*, McGraw Hill Education, New York, 2015

Thaler, Richard H, *The Making of Behavioural Economics - Misbehaving*, WW Norton & Co, Penguin, London, 2016

Kahneman Daniel and Tversky. *Choices, Values and Frames* eds., Cambridge University press and Russell Sage Foundation, England, 2000

Erik Angner, *A Course in Behavioral Economics*, Palgrave MacMillan, New York 2012

## ARTICLES

Loewenstein (1987) "Anticipation and the Valuation of Delayed Consumption". Economic Journal, 97 (387):666-684

Kahneman and Tversky(1979) "Prospect theory: An Analysis of Decision Under Risk", Econometrica, 47 (2): 263-291

Thaler, Richard. 1999. "Mental Accounting Matters." Journal of Behavioral Decision Making12: 183-206.

## WEB RESOURCES

<https://www.behavioraleconomics.com>

## JOURNALS

The Journal of Behavioral and Experimental Economics

Journal of Behavioral Economics for Policy

Journal of Behavioral Economics

## PATTERN OF ASSESSMENT

### Continuous Assessment:

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $5 \times 2 = 10$  marks (Any 5 out of 6 questions to be answered in 50 words each)

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Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered in 1000 words)

### Other Components:

Seminars/Quiz/Group discussion/Assignments/Case studies

### End Semester Examination:

**Total Marks:100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B –  $5 \times 8 = 40$  marks (5 out of 8 questions to be answered in 400 words each)

Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH IV –ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WOMEN, WORK AND ECONOMICS**

**CODE:19EC/AC/WW35**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To present an overview of issues related to women and economy
- To sensitise students on issues related to gender
- To help the students to identify the marginalisation of women in economic theory and in the economy.

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- have a clear perspective on economic and non-economic contribution of women to the economy
- help them to analyse economic theories with the gender perspective
- reinforce analytical and critical approach to the subject
- acknowledge women's work as economic contribution
- document women's work

**Unit 1**

**Introduction**

**(12 Hours)**

- 1.1 Gender Analysis – purpose and scope
- 1.2 Patriarchy, Feminism and Gender
- 1.3 Feminist Perspective in Economics

**Unit 2**

**Economic Theory: A critique of methods and Concepts in**

**(15 Hours)**

- 2.1 Classical Economics
- 2.2 Neoclassical Economics
- 2.3 Post-Keynesian Economics
- 2.4 Economic measurement – empirical challenges

**Unit 3**

**Economic Development: A Gender Perspective**

**(10 Hours)**

- 3.1 Development versus Anti-Development
- 3.2 Women and Development (WID), Women and Development (WAD) and Gender and Development (GAD)
- 3.3 Women and the Environment – Women, Environment and Development
- 3.4 Ecofeminism – concept and trends



- Unit 4**  
**Marginalisation of Women** (13 Hours)  
4.1 Marginalisation of women, their invisibility in the labour market  
4.2 Sexual division of labour and wage differentials – feminization of work  
4.3 Impact of globalization on Women – feminization of poverty

- Unit 5**  
**Policy Issues** (15 Hours)  
5.1 Gender Budgeting  
5.2 Women, Health – Reproductive and Occupational Health  
5.3 Women's Education and Economic Development  
5.4 Micro finance and SHG

### BOOKS FOR STUDY

Loutfi, M. F (ed.), *Women, Gender and Work*. New Delhi: Rawat, 2002  
Kuiper, Edith and Joande.Sap (eds.), *Out of Margin: Feminist Perspectives in Economics*. London: Routledge, 1995

### BOOKS FOR REFERENCE

Krishnaraj, Maithreyi and Joy, P Deshmukh. *Gender in Economics*. New Delhi: Ajantha, 1991.  
Custer, Peter. *Capital Accumulation and Women's Labour in Asian Economics*. New Delhi: Vistar, 1997  
Sanjari, Kumkum and Uma Chakravarthi. *From Myths to Markets: Essays on Gender*. New Delhi: Manohar, 1999  
John, Florence. (Ed.) *Gender Matters*. Chennai: Semmoodhai, 2013

### JOURNALS

Gender and development  
Feminist Economies  
Special Issues of Signs

### WEB RESOURCES:

<http://www.tlrp.org/rcbn/capacity/journals/issue3.pdf>  
<http://www.inc.com/larry-kim/after-shattering-glass-ceiling-female-ceos-fall-off-the-glass-cliff.html>  
<http://socpro.oxfordjournals.org/content/39/3/253.abstract>

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**  
Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)  
Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)  
Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

**Other Components:** **Total Marks: 50**  
Seminars /Quiz/Group discussion/Assignments/Problem solving/Case studies

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
Section A – 10 x 2 = 20 marks (Any 10 out of 12 questions to be answered in 50 words each)  
Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)  
Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19EC/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-20)

**MACROECONOMICS-I**

**CODE:19EC/MC/MA44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To understand the macroeconomic concepts involving the functioning of the economy
- To understand the concepts and measurement of national income, employment and output.
- To compare classical and Keynesian models

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- understand the concepts of national income and the measurement of national income and the various other macroeconomic activities.
- Acquire knowledge in determining income, output and employment
- Have an insight of Keynesian and Classical models and its relevant policy issues.
- examine, interpret and study the relationships of the various macroeconomic variables
- interpret the models and empirically test the models with relevant analytical tools.

**Unit 1**

**Introduction to Macro Economics (10 Hours)**

- 1.1 Definition, nature, scope of macroeconomics, Distinction between micro and macroeconomics
- 1.2 National Income - Concept, real and nominal income
- 1.3 Measuring the value of economic activity: Measuring GDP, Measuring Cost of Living –The Consumer Price Index and Measuring Unemployment Rate.
- 1.4 Circular Flow of Income
- 1.5 Social Accounting – Concept of Net Economic Welfare

**Unit 2**

**Classical Theory (13 Hours)**

- 2.1 Classical Theory of Output and Employment:  
Production  
Employment: Demand and Supply of Labour  
Equilibrium: Output and Employment
- 2.2 Classical Theory of Money, Prices and Interest  
Quantity theory of money  
Classical theory of interest rate
- 2.3 Policy implication of Classical Equilibrium Model

### **Unit 3**

#### **Keynesian Theory**

**(14 Hours)**

- 3.1 Keynesian model of income and employment determination: aggregate demand and supply
- 3.2 Concept of Effective Demand
- 3.3 Under employment equilibrium
- 3.4 Classical vs. Keynesian
- 3.5 Relevance of Keynesian Economics to India

### **Unit 4**

#### **Consumption and Saving Function**

**(16 Hours)**

- 4.1 Meaning, attributes, factors affecting, consumption
- 4.2 Theories of consumption - Absolute, Relative, Permanent, and Life cycle hypothesis
- 4.3 Saving Function – its attributes

### **Unit 5**

#### **Investment Function, Multiplier and Accelerator**

**(12 Hours)**

- 5.1 Investment function- Nature of investment, factors affecting invest- MEC, MEI, and rate of interest
- 5.2 Multiplier – definition, types, operation
- 5.3 Acceleration Principle
- 5.4 Interaction between multiplier and accelerator

### **BOOKS FOR STUDY**

Froyen, Richard T. *Macroeconomics: Theories and Policies*. New Delhi: Pearson Education, 2012.

Mankiw N. Gregory *Macroeconomics*. New York : Worth Publishers, 2009

### **BOOKS FOR REFERENCE**

Case, Karl E and Ray C. Fair, *Principles of Economics*, New Delhi, Pearson Education, Inc, 2007

Duilo, E. *Schaum Series. Macroeconomic Theory*. New York: McGraw Hill Company, 1974.

Errol D'Souza. *Macroeconomics*. Delhi: Pearson Education, 2008.

Gardner, Ackley. *Macroeconomics Theory and Policy*, New York: Macmillan Publishing, 1992.

Gupta, R.D. *Keynes and Post Keynesian Economics*. New Delhi : Kalyani Publisher, 1980.

Hubbard, Glenn R. and Anthony. Patrick O' Brien. *Macroeconomics*. New Delhi: Pearson, 2012.

Jha, Raghabendra. *Contemporary Macroeconomic Theory and Policy*. Wiley Eastern, 2009.

Rana, Verma. *Macroeconomic Analysis*. 10<sup>th</sup> ed. Jalandhar: Vishal Publishing, 2013.

Sikdar, Shoumyen, *Principles of Macroeconomics*, New Delhi, Oxford University Press, 2<sup>nd</sup> edition.

## **JOURNALS**

Journal of Macroeconomics

Cambridge Journals –Macroeconomics Dynamics

## **WEB RESOURCES**

[www.rbi.org.in](http://www.rbi.org.in)

[www.mospi.nic.in](http://www.mospi.nic.in)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $5 \times 2 = 10$  marks (Answer any 5 out of 6 questions in 50 words each)

Section B –  $2 \times 10 = 20$  marks (Answer any 2 out of 3 questions in 400 words each)

Section C –  $1 \times 20 = 20$  marks (Answer any 1 out of 2 questions in 1000 words)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open book tests/Group discussion/Assignments/Case studies

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 2 = 20$  marks (Answer any 10 out of 12 questions in 50 words each)

Section B –  $5 \times 8 = 40$  marks (Answer any 5 out of 8 questions in 400 words each)

Section C –  $2 \times 20 = 40$  marks (Answer any 2 out of 4 questions in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-20)

**MONETARY ECONOMICS**

**CODE:19EC/MC/MO44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide a comprehensive picture of the evolution and development of monetary theories
- To enable students understand the critical role of money in the development of an economy.
- To give an insight into the integration between Monetary Theory and Practice

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Discuss the critical role money plays in economic development
- Test the validity of the various theories empirically using relevant analytical tool
- Students should be give coherent arguments in support of the role that both money demand and supply plays in monetary control
- Able to integrate theory with policy
- Understand the functioning of the money economy

**Unit 1**

**Introduction**

**(12 Hours)**

- 1.1 Evolution of Money- Definition, Classification and Functions-Role of Money
- 1.2 Monetary Standards: Metallic standard-Gold standard- functioning, rules and Collapse of Gold Standard
- 1.3 Paper standard: Definition, Features, Merits and Demerits
- 1.4 Note Issue System-Principles and Methods of Note Issue

**Unit 2**

**Demand for Money**

**(16 Hours)**

- 2.1 Value of Money: - Relationship between Value of Money and General Price level, Measurement of Money-Index Numbers
- 2.2 Demand for Money: - Determinants of Demand for Money
- 2.3 Classical Approach: Quantity Theory of Money- Transactions approach-Fisher Cambridge approach ( Marshal, Pigou and Robertson)
- 2.4 Keynesian Theory: Liquidity Preference Theory

**Unit 3**

**Post Keynesian Theories of Demand for Money**

**(12 Hours)**

- 3.1 Baumol's Inventory Theoretic Approach
- 3.2 Tobin's Portfolio Balance Approach
- 3.3 Friedman's Restatement of the Quantity Theory of Money



## **Unit 4**

### **Supply of Money**

**(12 Hours)**

- 4.1 Money Supply: Definition, Determinants of Money Supply
- 4.2 Monetary Aggregates – Measurement of Money Stock in India: First, Second and Third Working Group of RBI
- 4.3 High-powered money and the money multiplier
- 4.4 Credit Creation

## **Unit 5**

### **Theories of Money Supply**

**(13 Hours)**

- 5.1 Monetary Base Theory
- 5.2 Behavioural Theory
- 5.3 The Complete Money Supply Model

## **BOOKS FOR STUDY**

Mishkin, S. Frederic. *Economics of Money, Banking and Financial Market*: New York ; Harper Collins College Publisher, 2007.  
Sethi, T.T. *Monetary Economics*. New Delhi: Sultan Chand, 2003.

## **BOOKS FOR REFERENCE**

Friedman, Milton. *Studies in the Quantity Theory of Money*. London: Ed, Chicago: The University of Chicago Press, 1956.  
Ghosh, B.N. and Ghosh. Rama, *Fundamentals of Monetary Economics*. Mumbai: Himalaya Publishing House, 2007.  
Hajela T.N. *Money, Banking and International Trade*. New Delhi: Konark Publishers, 2002  
Jadhav, Narendra. *Monetary Economics for India* . New Delhi: Macmillan Education Limited, 2000.  
Paul, R.R. *Monetary Economics*. New Delhi: Kalyani Publishers, 2005  
Reddy, Y.V. *Lectures on Economic and Financial Sector Reform in India*. New Delhi: Oxford University Press, 2002.  
Suraj, B. Gupta. *Monetary Economics, Institutions, Theory and Policy*. New Delhi: Sultan Chand, 2000.  
Vaish, M.C. *Monetary Theory*, New Delhi: Ratan Prakashan Mandi, 2004.

## **JOURNALS**

RBI Bulletins

## **WEBSITES**

[www.rbi.org.in](http://www.rbi.org.in)  
[www.mospi.nic.in](http://www.mospi.nic.in)

## **PATTERN OF ASSESSMENT**

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Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Concept Test/Group discussion/Assignments/ Case studies

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

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Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-20)

**INTRODUCTORY ECONOMETRICS**

**CODE:19EC/AC/EM45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To provide an elementary but comprehensive introduction to the subject
- To provide with a rigorous introduction to univariate and multivariate regression and its uses in economics

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- understand how to use regression analysis to infer causal relations from economic data
- understand the relevance of these tools required to formulate simple econometric models
- use basic econometric techniques and their applications and equip them with the broad knowledge of regression analysis relevant for analyzing economic data
- be able to make use of basic econometric models in any kind of academic work
- interpret and critically evaluate the outcomes of empirical analysis by using properties of OLS and Statistical Testing of Hypothesis

**Unit 1**

**Introduction**

**(5 Hours)**

1.1 Econometrics – Definition

1.2 Classical Econometric Methodology – Analysis of an economic problem

**Unit 2**

**Two Variable Linear Regression Model**

**(22 Hours)**

2.1 PRF and SRF

2.2 Methods of OLS, Assumptions

2.3 Derivation of OLS estimator and its properties

2.4 Standard Error

2.5 Gauss Markov Theorem- Derivation

2.6 Coefficient of determination

2.7 Hypothesis testing

2.8 Estimation of a two variable by model

- Unit 3**  
**Three Variable Linear Regression Model** (15 Hours)  
 3.1 Introduction to the model  
 3.2 Estimation of the model by OLS method  
 3.3 Hypothesis Testing  
 3.4 Coefficient of determination  
 3.5 Functional form of regression models: Double Log, Semi Log, Reciprocal models
- Unit 4**  
**Econometric Model with Quantitative Independent Variables** (15 Hours)  
 4.1 Introduction to Dummy Variables  
 4.2 Regression using Dummy Variables  
 4.3 Testing for structural stability of regression models  
 4.4 Interaction Effects  
 4.5 Seasonal Analysis
- Unit 5**  
**Simultaneous Equation Models** (8 Hours)  
 5.1 Introduction to simultaneous equation models  
 5.2 Simultaneous equation bias- Simple Keynesian model of income determination

### BOOKS FOR STUDY

Damodar N, Gujarati. *Basic Econometrics*, 5<sup>th</sup> edition. New Delhi: McGraw Hill International edition, 2011.  
 Ramu Ramanathan. *Introductory Econometrics with Applications*, 5<sup>th</sup> edition. Harcourt College Publishers.

### BOOKS FOR REFERENCE

Jeffrey M. Woolridge. *Introductory Econometrics*, 6<sup>th</sup> edition, Cengage Learning.Inc, 2016.  
 James H. Stock and Mark W.Watson. *Introduction to Econometrics*, 3<sup>rd</sup> edition, Pearson India, 2017.  
 Christopher, Dougherty. *Introduction to Econometrics*, 4<sup>th</sup> edition, London: Oxford University Press, Indian edition 2011.  
 Damodar N, Gujarati. & Sangeetha. S. *Basic Econometrics*, 4<sup>th</sup> edition. New Delhi: McGraw Hill Publications, 2007.  
 Dominick, Salvatore. & Derrick. Reagle. *Statistics and Econometrics, Schaum's Outlines* 2<sup>nd</sup> edition. New York: McGraw Hill,2011.

### JOURNALS

The Econometrics Journal – Royal Economic Society  
 Journal of Quantitative Economics

## WEB RESOURCES

<http://egei.vse.cz/english/wp-content/uploads/2012/08/Basic-Econometrics.pdf>

<http://www.ssc.wisc.edu/~bhansen/econometrics/Econometrics.pdf>

## PATTERN OF ASSESSMENT

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**Total Marks: 50**

Quiz/Problem Solving

### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-20)

**MACROECONOMICS - II**

**CODE:19EC/MC/MA54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To help in analysing the macroeconomic goals and methods of achieving stabilization
- To study the short-run and long run equilibrium
- To understand major economic issues relating to economic growth, inflation, unemployment and business cycles.

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Acquire fundamental knowledge of major themes of basic macroeconomics equilibrium theory in the long and short run.
- Identify the phases of the business cycles and the problems caused by cyclical fluctuation in the economy.
- Define economic growth and identify the sources of economic growth.
- Students will be able to measure inflation, unemployment and bring out the relationship between inflation and unemployment.
- Identify the issues in the external economy and interpret the policy impact.

**Unit 1**

**Neo- Classical Keynesian Synthesis**

**(13 Hours)**

- 1.1 Hicks-Hansen IS-LM functions
- 1.2 General Equilibrium
- 1.3 Effectiveness of Monetary and Fiscal policy
- 1.4 IS-LM in open economy

**Unit 2**

**Economic Growth**

**(14 Hours)**

- 2.1 Economic growth and development: factors affecting economic growth- capital, labour and technology.
- 2.2 Growth Models : Harrod – Domar, instability equilibrium
- 2.3 Neo-classical growth models – Solow and Meade, Joan Robinson's model
- 2.4 Policies to promote growth

### **Unit 3**

#### **Business Cycles**

**(13 Hours)**

- 3.1 Definitions, characteristics, Types of business cycle & Phases of business cycle
- 3.2 Theories of Business cycle: Hobson; Hawtrey, Keynes, Samuelson, Hicks & Kaldor
- 3.3 Real Business Cycle
- 3.4 Measures of Stabilisation

### **Unit 4**

#### **Inflation**

**(12 Hours)**

- 4.1 Definition, Types, Causes and Effects.
- 4.2 Theories of Inflation- Excess DD –Inflationary gap; Bent Hansen Excess Demand, Cost push – Wage Push, Profit Push
- 4.3 Control of Inflation- Monetary, fiscal and General Control
- 4.4 Stagflation
- 4.5 Phillips Curve- Augmented Phillips Curve
- 4.6 Inflation in India: Recent Experience

### **Unit 5**

#### **Macroeconomic Policy**

**(13 Hours)**

- 5.1 Objectives, Techniques, Instruments
- 5.2 Achievements of internal and external balance
- 5.3 Application- Macro Economic objectives of Indian economy

### **BOOKS FOR STUDY**

Froyen, T. Richard. *Macroeconomics Theories and Policies*. New Delhi: Pearson Education, 2002.

Mankiw. N. Gregory, *Macroeconomics*. New York: Worth Publishers, 2009

### **BOOKS FOR REFERENCE**

Duilo, E. *Macroeconomic Theory. Schaum Series*. New York: McGraw Hill Company, 1974.

Errol D'Souza. *Macroeconomics*. New Delhi: Pearson Education, 2008.

Heijdra, Ben.J. *The Foundation of Modern Macroeconomics*. Oxford University Press, 2009.

Jha, Raghavendra. *Contemporary Macroeconomic Theory and Policy*. Wiley Eastern, 2009.

Rana, Verma. *Macroeconomic Analysis*. 10<sup>th</sup> ed., Jalandhar: Vishal Publishing, 2013.

Snowdon, Brian. and Vane, Howard R. A, *Macroeconomic Reader*. London: Routledge.

Thirlwal. A.P, *Growth and Development*, London: MacMillan, 1999.

### **WEB RESOURCES**

[www.rbi.org.in](http://www.rbi.org.in)

[www.mospi.nic.in](http://www.mospi.nic.in)

### **REPORTS**

RBI Bulletins

## **JOURNALS**

Journal of Macroeconomics

Cambridge Journals – Macroeconomic Dynamics

South Asian Journal of Macroeconomics and Public Finance

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-20)

**PUBLIC FINANCE**

**CODE:19EC/MC/PF54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To understand the theoretical aspects of fiscal instruments supported by empirical evidences
- To help critically analyse the fiscal operations of the Indian Fiscal system

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- equip students with an understanding of the nuances of the theories in the subject
- enable students draw up a connect with happenings in the public finance economic scenario
- enable students critique the fiscal system
- equip students fill in gaps with respect to federalism
- enable students to read further and assimilate information regarding Fiscal Policy

**Unit 1**

**Introduction**

**(8 Hours)**

- 1.1 Definition Private and Public Finance
- 1.2 Nature and scope of Public Finance- Classical Vs Keynesian

**Unit 2**

**Scope of Government Activity**

**(11 Hours)**

- 2.1 Types of goods and bad – Private, Public – Merits – Demerits – Club goods
- 2.2 Pareto Optimality
- 2.3 Theoretical arguments for the Public Sector
- 2.4 Theory of Second Best
- 2.5 Pricing Theory of the Public Sector – MC and AC pricing
- 2.6 Role and Performance of the Public Sector in India

**Unit 3**

**Public Expenditure**

**(16 Hours)**

- 3.1 Classification and Principles of Public Expenditure
- 3.2 Growth of Public Sector – Wagner, Wiseman and Peacock, Colin Clark  
Growth of Public Expenditure in India
- 3.3 Principle of Maximum Social Advantage
- 3.4 Effects of Public Expenditure

**Unit 4**  
**Public Revenue** (20 Hours)

- 4.1 Sources of Public Revenue
- 4.2 Types of Taxes – Direct and Indirect - their merits and demerits
- 4.3 Theories of Taxation – Cost of Service Theory, Benefit Principle, and Ability to Pay Theory
- 4.4 Taxable Capacity – Definition and measurement – Taxable capacity in India
- 4.5 Tax shifting and Incidence of taxation – Theories of incidence -
- 4.6 Effects of Taxation
- 4.7 Role of taxation in a developing economy.

**Unit 5**  
**Indian Fiscal System** (10 Hours)

- 5.1 Structure of Tax and Non tax revenues- centre and state
- 5.2 Development and Non Development expenditure of Centre and State
- 5.3 Recent Tax Reforms (since 1991)
- 5.4 The application of the various theories and concepts to the Indian Fiscal set up – growth of public expenditure, nationalization – disinvestments – Liberalization, Privatization and Globalization

**BOOKS FOR STUDY**

Lekhi, R.K. *Public Finance*. New Delhi: Kalyani Publishers, 2017 -2018.  
Tyagi, B.P. *Public Economics*. Meerut (U.P.): Jai Prakash Nath, 2017-2018.

**BOOKS FOR REFERENCE**

Bhargava, R.N. *The Theory & Working of Union Finance in India*. London: George Allen and Unwin, 1956.  
Bhatia, H. L. *Public Finance*, New Delhi: Vikas Publishing House, 1988.  
Chelliah, Raja. *Fiscal Policy in Underdeveloped Countries*. London: George Allen and Unwin, 1969.  
Herber, Bernard, P. *Modern Public Finance, The Study of Public Sector Economic*, Illinois: Richard D. Irwin, 1975.  
Singh, S.K. *Public Finance in Development and Developing Countries*. New Delhi: S.Chand, 1991.  
Tripathy, R.N. *Public Finance in Underdeveloped Countries*. Calcutta: The World Press, 1991.

**JOURNALS**

South Asian Journal of Macroeconomics and Public Finance  
Public Finance – World Bank  
Public Finance Review

**WEB RESOURCES**

<https://prezi.com/nqadt5-xobnq/m2-analyse-the-effects-of-fiscal-and-monetary-policies-for-a/>  
<https://economics.stanford.edu/courses/public-finance-and-taxation-ii>  
[http://www.andrew.cmu.edu/user/rs9f/pf04\\_9\\_12\\_04\\_vol\\_1.pdf](http://www.andrew.cmu.edu/user/rs9f/pf04_9_12_04_vol_1.pdf)  
<http://ocw.mit.edu/courses/economics/14-471-public-economics-i-fall-2012/lecture-notes/>  
[http://obs.rc.fas.harvard.edu/chetty/public\\_economics\\_lectures.pdf](http://obs.rc.fas.harvard.edu/chetty/public_economics_lectures.pdf)

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**Total Marks: 50**

Quiz/Open book tests/Assignment/Seminar Presentation/Viva Voce

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A.DEGREE: BRANCH IV-ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DEVELOPMENT ECONOMICS**

**CODE:19EC/MC/DE54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce the major issues that affects economic development.
- To trace the historical trajectories of development theory.
- To critically and analytically examine the theoretical foundations of economic development and to evaluate the theories from contemporary perspective.

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Enable the students to critically articulate the theories of economic development
- Students will be able to understand the dynamics of various developmental problems such as poverty, inequality, unemployment, migration, human development, sustainability etc.
- To enlighten the students on the causality of various developmental issues and their interconnectedness.
- Students would acquire concrete skills to carry out research and work directly in these areas with government agencies, NGOs, policy making teams leading to their professional development.
- Apply development theories and concepts to formulate and analyse development policies

**Unit 1**

**Economics of Development - Introduction**

**(12 Hours)**

- 1.1 Definition of Development – Difference between Growth and Development – Core values of Development
- 1.2 Role of Institutions in Economic Development.
- 1.3 Measures of Development – GDP and Per Capita Income as a measure of Development – GNH – Development as Freedom
- 1.4 Factors affecting Economic Development and Characteristics of Underdevelopment – Development Gap

**Unit 2**

**Poverty and Inequality**

**(13 Hours)**

- 2.1 Definition of poverty – Measuring Absolute Poverty and Inequality
- 2.2 Measures of Poverty and Inequality – Head Count Ratio, Poverty Gap, Lorenz Curve, Human Poverty Index, Multidimensional Poverty Index

- 2.3 Economic and Social dimensions of Poverty – Rural Poverty – Women and Poverty – Ethnic Minorities, Indigenous populations and poverty
- 2.4 Policy options – Areas of Intervention

**Unit 3**  
**Process of Development – Theoretical Perspective (15 Hours)**

- 3.1 Theories of Transition - Rostow's stages of economic Growth,
- 3.2 Theories of Structural Change - Clark and Fisher, Kuznet
- 3.3 Nurkse's poverty trap and Big Push theory

**Unit 4**  
**Agriculture and Surplus labour (10 Hours)**

- 4.1 Role of agriculture in development
- 4.2 Backward and forward linkages - Interdependence of Agriculture and industry
- 4.3 Concept of Dualism – Rural-Urban Migration - Lewis' Model of Economic Development – Unlimited Supply of Labour.

**Unit 5**  
**Capital and Technology (15 Hours)**

- 5.1 Capital: Difference between Physical and Human Capital - Role of capital accumulation in economic development
- 5.2 Significance of capital-output ratio
- 5.3 Technology: Role of technological progress
- 5.4 Choice of Technology - Capital Saving and Labour Saving Technical Progress

**BOOKS FOR STUDY**

- Todaro, M. P., & Smith, S. C. *Economic development*. Noida: Pearson. 2017
- Thirwall A.P. *Economics of Development*. New York: Palgrave MacMillan. 2011.
- Taneja, M.L & Myer. R.M. *Economics of Planning and Development*. Jalandhar: Vishal Publishers.2017.

**BOOKS FOR REFERENCE**

- Alain de Janury and Elisa Sadovlet. *Development Economics: Theory and Practice*. Routledge. 2016
- Ghatak, Surata. *Introduction to Development Economics*. London: Routledge, 2007.
- Hirschman, A. O. *Strategy of Economic Development*. New York, WW Norton & Co. 1980.
- Meier, G. M., & Rauch, J. E. *Leading issues in economic development*. New York: Oxford University Press. (2005).
- Mishra & Puri. *Economics of Development and Planning*. New Delhi: Himalaya, 2017.
- Roger LeRoy Miller, Daniel K Benjamin and Douglass C North. *Economics of Public Issue*, 20<sup>th</sup> edition, London, Pearson. 2017
- Sen, A. *Development as freedom*. Oxford: Oxford University Press. (2013)

**JOURNALS**

- Journal of Development Economics
- Journal of Economics and Development Studies
- Indian Journal of Economics and Development
- The Journal of Social and Economic Development

## WEB RESOURCES

[www.hdr.undp.org](http://www.hdr.undp.org)

[www.worldbank.org/en/publication/wdr/wdr-archive](http://www.worldbank.org/en/publication/wdr/wdr-archive)

[http://www.sagepub.in/upm-data/29044\\_Nederveen\\_Pieterse\\_chapter\\_One.pdf](http://www.sagepub.in/upm-data/29044_Nederveen_Pieterse_chapter_One.pdf)

[https://www.google.com/url?sa=t&source=web&cd=19&ved=2ahUKEwip09-](https://www.google.com/url?sa=t&source=web&cd=19&ved=2ahUKEwip09-c79jcAhUX4o8KHTmzCAc4ChAWMAh6BAgEEAE&url=https%3A%2F%2Fwww.ejpe.org%2Fjournal%2Farticle%2Fdownload%2F101%2F98%2F&usg=AOvVaw0LwKz53aLMil0-jJpqG_RR)

[c79jcAhUX4o8KHTmzCAc4ChAWMAh6BAgEEAE&url=https%3A%2F%2Fwww.ejpe.org%2Fjournal%2Farticle%2Fdownload%2F101%2F98%2F&usg=AOvVaw0LwKz53aLMil0-jJpqG\\_RR](https://www.google.com/url?sa=t&source=web&cd=19&ved=2ahUKEwip09-c79jcAhUX4o8KHTmzCAc4ChAWMAh6BAgEEAE&url=https%3A%2F%2Fwww.ejpe.org%2Fjournal%2Farticle%2Fdownload%2F101%2F98%2F&usg=AOvVaw0LwKz53aLMil0-jJpqG_RR)

[https://www.economicsonline.co.uk/Global\\_economics/Structural\\_change\\_theory.html](https://www.economicsonline.co.uk/Global_economics/Structural_change_theory.html)

<https://www.brookings.edu/opinions/the-economics-of-marriage-and-family-breakdown/amp/>

<https://wmbranchout.files.wordpress.com/2011/12/the-myth-of-catching-up-development-maria-mies.pdf>

<http://vivienneelanta.blogspot.com/2007/08/myth-of-catching-up-development.html?m=1>

[https://en.m.wikipedia.org/wiki/The\\_Colonizer\\_and\\_the\\_Colonized](https://en.m.wikipedia.org/wiki/The_Colonizer_and_the_Colonized)

<https://socialissuesindia.wordpress.com/2013/09/06/what-is-amartya-sens-capability-approach-to-development/>

<https://www.npr.org/2014/05/05/309840501/remembering-economist-gary-becker-who-described-marriage-market>

[http://www.aw-bc.com/info/todaro\\_smith/Chapter4.pdf](http://www.aw-bc.com/info/todaro_smith/Chapter4.pdf)

<http://www.yale.edu/leitner/resources/docs/ssrn-id551645.pdf>

<https://www.rienner.com/uploads/47e2d55b15183.pdf>

[http://novella.mhhe.com/sites/dl/free/0073370428/666687/Crandell9e\\_ch02.pdf](http://novella.mhhe.com/sites/dl/free/0073370428/666687/Crandell9e_ch02.pdf)

## PATTERN OF ASSESSMENT

### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

### Other Components:

**Total Marks: 50**

Quiz/Seminar Presentation/Assignments/Book/Article Review/Case Study

### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH IV - ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**DATA ANALYTICS AND ECONOMIC ANALYSIS**

**CODE:19EC/MC/DA53**

**CREDITS:3**

**L T P:0 0 5**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- Emphasis on skill based learning and focus on how to use Excel software to conduct statistical analysis of data
- To introduce some of the statistical and econometric techniques that are widely used in empirical studies in economics
- To teach students how to apply relevant econometric methods to analyse data and interpret the results from such analysis
- To understand the economic implications and relevance of these tools required to formulate simple econometric models
- To keep up with increasingly data-driven world

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Will provide skills to describe, interpret, explore and analyse data
- introduce some of the statistical and econometric techniques that are widely used in empirical studies in economics
- teach students how to apply relevant econometric methods to analyse data and interpret the results from such analysis
- understand the economic implications and relevance of these tools required to formulate simple econometric models
- demonstrate computer proficiency within economics

**Unit 1 (5 Hours)**

**Introduction to data analytics**

1.1 Importance of data analytics in economics research

**Unit 2 (15 Hours)**

**Descriptive Statistics**

2.1 Grouping data: Frequency distributions

2.2 Summary statistics – Mean, median, mode, standard deviation, variance, Skewness

2.3 Diagrammatic presentation of data.

**Unit 3 (20 Hours)**

**Correlation and Regression analysis**

3.1 Estimating correlation and regression coefficients

3.2 Testing the significance of correlation and regression coefficients: Test of significance and confidence interval approach

- 3.3 Estimating non-linear regression models: Double-log, Semi-log, Reciprocal  
3.3 Simple regression models using dummy variables

**Unit 4 (15 Hours)**

Inferential Statistics:

- 4.1 Introduction to hypothesis-testing  
4.2 Large sample tests  
4.3 Small sample tests

**Unit 5 (10 Hours)**

Presentation of research report

- 5.1 Research report: Meaning, types  
5.2 Contents of a research report  
5.3 Presentation of a report

**BOOKS FOR STUDY**

Damodar Gujarati, *Econometrics by Example*, 2<sup>nd</sup> editions, Palgrave Macmillan, London, 2014

Nargundkar Rajendra, Marketing Research-Text and Cases, 2<sup>nd</sup> edition, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2004.

SPSS Manual

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Answer any FIVE questions out of 7 questions. ( $5 * 10 = 50$ )

**Other Components:**

**Total Marks: 50**

Problem assignments / minor projects / simple article for paper presentations

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**(Only Practical)**

Answer any TEN questions out of 12 questions. ( $10 * 10 = 100$ )



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Interdisciplinary Core Course Offered by the Departments of Economics and Physics to  
B.A. Economics and B.Sc. Physics Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**RENEWABLE ENERGY AND ENERGY ECONOMICS**

**CODE:19ID/IC/RE55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To understand the importance of renewable energy with special reference to solar and wind energy
- To understand various concepts in utilization of Solar energy
- To acquire knowledge about the principle of wind energy production
- To study the consumer and producer preference for renewable energy
- To understand and evaluate the energy policies adopted in India.

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- analyze solar radiation on earth's surface
- evaluate the wind energy production at a site
- evaluate the demand and supply of renewable energy
- calculate the cost and benefits of alternative energy
- critically analysis the energy policies adopted in India

**Unit 1**

**Energy Resources**

**(15 Hours)**

- 1.1 Energy routes for non- renewable energy resources – age renewables and alternatives – moving towards renewable energy sources- energy conservation practices.
- 1.2 Types of energy sources- Renewable and Non –Renewable sources.
- 1.3 Energy developments – energy requirements and future prospects.
- 1.4 Energy consumption - energy consumption (per capita) & economic growth
- 1.5 Global energy consumption - energy demand - primary energy demand and cumulative energy demand

**Unit 2**

**Solar Energy**

**(17 Hours)**

- 2.1 Fundamentals of solar radiation – nature of solar radiation – radiation on earth's surface – sun path chart.
- 2.2 Photovoltaics – principles – physics and operation of solar cells – solar panels- solar power plants.
- 2.3 Fundamentals of solar collectors – conversion of solar energy to heat energy – applications - solar cooking- solar water heaters.

- Unit 3**  
**Wind energy** (16 Hours)  
3.1 Introduction – basic principles of wind energy conversion.  
3.2 Nature of wind – power in the wind -, forces on the blades and wind energy conversion – site selection  
3.3 Classification of wind energy conversion systems – advantages and limitations.
- Unit 4**  
**Micro Foundation** (15 Hours)  
4.1 Demand and supply and elasticity of renewable energy  
4.2 Consumer theory - preference and utility - Budget Constraints - Consumer Surplus  
4.3 Producers theory -Producers equilibrium  
4.4 Cost and revenue and pricing  
4.5 Market Structure - Different Types of markets in renewable industry
- Unit 5**  
**Energy Decision Policies** (15 Hours)  
5.1 Energy used by households and individuals - energy consumption - energy calculation  
5.2 Alternative energy - cost and benefits  
5.3 Price regulations, deregulation and market - world oil markets & energy security  
5.4 Public Policies - Indian environmental policies - National Solar policies & Wind (national wind-solar hybrid policy 2018)- social movements - energy efficiency policies - renewable energy policies - regulation- emission trading  
5.5 Global climate change issues and responses - greenhouse gas emission and potential effects - effect on ecology and biodiversity - responses to CO<sub>2</sub> - Carbon tax - Command and Control

### **BOOKS FOR STUDY**

Banks F.E Energy Economics ; A Modern Introduction, Kluwer Academic Publishers Dordrecht 2000.

G.D Rai, Solar Energy Utilization, 5<sup>th</sup> edition Khanna Publishers, 2010.

Griffin J H and H B Steel Energy Economics and Policy Academic Orlando 1986

Ramesh R. Kumar K.U Renewable Energy Technologies , Narosa Publishing House, New Delhi, 1997.

Thipse. S.S. Nonconventional and Renewable energy sources, Narosa Publishing House, New Delhi, 2014.

Samuelson Paul A, William D Nordhaus ; Economics; 19<sup>th</sup> edition, McGraw Hill Education 2006

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Economics (25 marks)

Physics (25 marks)

Students should answer for minimum of 20 / 40 marks from each of the subjects.

Section A – 5 x 3 = 15 marks (Answer all questions in 50 words each)

Section B – 3 x 5 = 15 marks (Answer any 3 out of 5 questions in 250 words each)

Section C – 1 x 20 = 20 marks (Answer any 1 out of 2 questions in 1000 words)

### **Other Components:**

**Total Marks: 50**

Seminars/Concept test/Quiz/Assignments/Case studies/Project

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Economics (50 marks)**

**Physics (50 marks)**

Section A – 10 x 3 = 30 marks (Answer all questions in 50 words each)

Section B – 6 x 5 = 30 marks (Answer any 6 out of 9 questions in 250 words each)

Section C – 2 x 20 = 40 marks (Answer any 2 out of 4 questions in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A.DEGREE: BRANCH IV-ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PUBLIC POLICY**

**CODE:19EC/MC/PP64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- This course provides an introduction to the field of public policy and the exciting and complex work of policy analysis
- Introduces key concepts, issues, process and analysis of public policy
- To help analyse policies across a range of issues and cases, including several generated by students in the class

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Understand the factors that influence government action towards public issues
- Gain deep knowledge of the key concepts, issues, process, elements and tools of public policy
- Develop analytical skills in evaluating various public policies
- Writing effective policy memos
- Identify factors that cause policy failure

**Unit 1**

**Nature of Public Policy**

**(15 Hours)**

- 1.1 Public Policy – Definition, Nature and Scope
- 1.2 Origin of Public Policy – Policy orientation in Lasswell's context
- 1.3 Brief review of the official and unofficial actors and their roles in public policy – legislature, Government and Bureaucracy, Judiciary, individual, interest group, political parties and media
- 1.4 Brief introduction to the types of policies – Distributive policies, Regulatory policies and Redistributive policies

**Unit 2**

**Policy Decision Making**

**(12 Hours)**

- 2.1 Rational Choice Theory
- 2.2 Simon's Bounded Rationality and public policy processes, Principle of Intended Rationality, Principle of Adaptation, Principle of Uncertainty and Principle of trade-offs
- 2.3 Behavioural Economics and Public Policy – Lessons from the Nudge theory.

**Unit 3**

**Policy Design and techniques**

**(15 Hours)**

- 3.1 Elements of Policy Design

- 3.2 Quantitative Techniques – Cost Benefit Analysis, Economic Forecasting, Operations Research and Systems Analysis
- 3.3 Qualitative Techniques –Nature of Qualitative Research, Interpretive methods - Ethnography, Action Research, Case Study, Grounded Research, Strengths and Weaknesses of Qualitative Research.
- 3.4 Impact Assessment – Environment, Social and Technological assessment

**Unit 4**  
**Implementation (10 Hours)**

- 4.1 Approaches to implementation – Top Down, bottom up and synthesis – A third generation of implementation research
- 4.2 Policy failure and learning from it – Conceptual, Political and Administrative problems
- 4.3 Conditions for Successful Implementation

**Unit 5**  
**Policy Evaluation and Memo-Writing (13 Hours)**

- 5.1 Criteria for Policy Evaluation
- 5.2 Approaches to Policy Evaluation
- 5.3 Memo - Guidelines to memo-writing
- 5.4 Ethics in Public Policy
- 5.5 Application: Students to evaluate any one current public policy and frame three short policy memos

**BOOKS FOR STUDY**

Alan R. Sadovnik., *Qualitative Research and Public Policy*. In F. Fisher et al (ed) Handbook of Public Policy Analysis Theory, Politics, and Methods., CRC Press, Florida, 2007.

Birkland Thomas A., *An Introduction to the Policy Process: Theories, Concepts and Models of Public Policy Making*, 2<sup>nd</sup> Edition Armonk: M.E Sharpe, New York, 2005

Michael.E.Kraft and Scott.R Furlong., *Public Policy: politics, Analysis and Alternatives*, 6<sup>th</sup> edition, Sage Publications, California, 2018

Sapru R. K., *Public Policy – Art and Craft of Policy Analysis*, PHI Publications, New Delhi, 2015

**BOOKS FOR REFERENCE**

Anderson, J.E. *Public Policy – Making : An Introduction*. Boston: Houghton, 2006

Dreze, Jean. and Amartya. Sen. *India: Development and Participation*. New Delhi: Oxford University Press, 2002.

Dye, Thomas. *Understanding Public Policy*. Singapore: Pearson Education, 2008

Eugene, Bardach's. *A Practical Guide for Policy Analysis: the Eightfold Path to More Effective Problem Solving* (C Q press; any edition is acceptable), Washinton.

Kingdon. *Agendas, Alternatives and Public Policies*, 2<sup>nd</sup> updated edition, Longman, London, 2011

Kraft and Furlong. *Public Policy: Politics, Analysis and Alternatives*, 4<sup>th</sup> edition, Sage Publications, 2013.

Stella Z. Theodoulou and Matthew. A. Cahn, eds. *Public Policy: The Essential Readings*. New York: Prentice Hall, 1995.

RE. Goodin(ed) *The Oxford Handbook of Public Policy*, Oxford.

Kaushik, Basu. *The New Oxford Companion to Economics*, London: Oxford University Press, 2012.

Reetika, Khera, “*India’s Public Distribution System: Utilisation and Impact*”, Journal of Development Studies, 2011.

## JOURNALS

International Journal of Public Policy  
Public Policy and Administration

## WEB RESOURCES

<http://www.beinformed.com/BeInformed/webdav-resource/binaries/pdf/public-policy-making.pdf?webdav-id=/Be%20Informed%20Bibliotheek/0000%20WEBDAV/WebDAV%20StatContent.bixml>  
[http://www.uoguelph.ca/omafra\\_partnership/ktt/en/worktogether/resources/understandingandapplyingbasicpublicpolicyconcepts.pdf](http://www.uoguelph.ca/omafra_partnership/ktt/en/worktogether/resources/understandingandapplyingbasicpublicpolicyconcepts.pdf)  
[http://www.untag-smd.ac.id/files/Perpustakaan\\_Digital\\_2/PUBLIC%20POLICY%20\(Public%20Administration%20and%20public%20policy%20125\)%20Handbook%20of%20Public%20Policy%20Analysis%20Th.pdf](http://www.untag-smd.ac.id/files/Perpustakaan_Digital_2/PUBLIC%20POLICY%20(Public%20Administration%20and%20public%20policy%20125)%20Handbook%20of%20Public%20Policy%20Analysis%20Th.pdf)  
<https://www.e-education.psu.edu/drupal6/files/geog432/images/American%20Public%20Policy%20Chapter%201.pdf>  
<http://www.jsgp.edu.in/content/india-public-policy-report-ipp>

## ADDITIONAL READING LIST

Bhargava.S and Loewenstein.Gv(2015)., Behavioural economics and Public Policy 102: beyond Nudging., *The American Economic Review*,105(5) pp (396 – 401)

Bryan.D.Jones, Bounded Rationality and Public Policy: Herbert A. Simon and the decisional foundation of collective choice, *Policy Science*, Sept 2002, Vol 35, Issue 3 pp 269 -284, SpringerLink

Martin Lodge and Kal Wegrich., Rational tools of government in a world of bounded rationality, *Discussion paper no 75, (Dec2014), The London School of Economics and Political Science*.

Richard Thaler and Cass. R. Sunstein, *Lessons from “Nudge”* Yale University Press (2008)

## PATTERN OF ASSESSMENT

### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Answer any 5 out of 6 questions in 50 words each)

Section B – 2 x 10 = 20 marks (Answer any 2 out of 3 questions in 400 words each)

Section C – 1 x 20 = 20 marks (Answer any 1 out of 2 questions in 1000 words)

### Other Components:

**Total Marks: 50**

Writing policy memos/Open Book Tests/Group Discussion/Assignments/Class Participation/Case Studies/Project/Seminar

### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A–10 x 2 = 20 marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A.DEGREE: BRANCH IV –ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTERNATIONAL ECONOMICS**

**CODE:19EC/MC/IN65**

**CREDITS:5**

**L T P:5 1 0**

**TOTALTEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To provide a thorough grounding in the evolution and growth of trade theories
- To enable students to understand the critical role foreign trade plays in economic development
- To understand the working of international organisations related to trade

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Discuss critically key trade theories
- To test the validity of the various theories empirically using relevant analytical tools
- Present a coherent argument on topics in international trade
- Demonstrate a familiarity with range of policy issues in international trade
- Understand the welfare consequences of international trade

**Unit 1**

**Introduction**

**(16 Hours)**

- 1.1 Basis of trade –Mercantilist argument: Zero Sum Game –a critique: Positive Sum Game- David Hume
- 1.2 Classical theories of International Trade: Adam Smith,David Ricardo, J.S Mill
- 1.3 Terms of Trade-Offer Curves-Factors which affect Terms of Trade
- 1.4 Haberler- Opportunity Cost Theory

**Unit 2**

**The Endowment Theory**

**(18 Hours)**

- 2.1 The Heckscher-Ohlin Theory
- 2.2 Factor prices and Factor Reversals test
- 2.3 Samuelson –Stolper Theory
- 2.4.Leontief Paradox-Secular Deterioration In Terms of Trade- A Critique of Heckscher-Ohlin Theory

**Unit 3**

**Economic Growth and Trade Policy**

**(16 Hours)**

- 3.1 Johnson's Model
- 3.2 Bhagwati's Immiserizing Growth
- 3.3 Free trade vs. Protection: Kinds of protection –Tariff, Non- tariff, Dumping
- 3.4 Economic Integration: Meaning, Forms, Problems, Theories of Customs Union-Viner, Linder

#### Unit 4

##### **Balance of Payments and the Foreign Exchange Market (15 Hours)**

- 4.1 Concepts – equilibrium and disequilibrium. Factors that affect BOP – Adjustment mechanism – Devaluation-Depreciation
- 4.2 Foreign Exchange Market – Determination of the Foreign Exchange Rate: Purchasing Power Parity Theory and the Demand and Supply Theory
- 4.3 Classification of Exchange Rates, Types and Exchange Control
- 4.4 Application – Country specific study of trade policy and the relevance of regional groupings

#### Unit 5

##### **International Institutions, Interdependence and Policies (13 Hours)**

- 5.1 IMF- Objective, Functions, India and the IMF
- 5.2 The World Bank – Objective, Functions, India and the World Bank
- 5.3 UNCTAD & GATT – A brief overview
- 5.4 WTO – Objectives, Functions and Impact on trade, India and the WTO, EU-Brexit

#### **BOOKS FOR STUDY**

Appleyard, D.R. and Field. A.J. *International Economics*, New York: Irwin McGraw Hill, 2016.

Cherunilam, Francis. *International Economics*. New Delhi: Tata- McGraw, 1988

#### **BOOKS FOR REFERENCE**

Bo Sodersten, *International Economics*. New Delhi: Macmillan Press, 2003

Dasgupta, B. *Globalisation – India's Adjustments Experience*, New Delhi: Sage, 2005

Krugman, P.R. *International Economics*. New Delhi: Pearson, 2017.

Robert, J. Carbaugh. *International Economics*, New Delhi: Akash Press, 2011

Salvatore, D. *International Economics*. Singapore: John Wiley & Sons, 2002.

#### **JOURNAL**

The Journal of International Trade & Economic Development

International Journal of Trade, Economics and Finance

#### **WEB RESOURCES**

<http://www.saylor.org/site/textbooks/International%20Trade%20%20Theory%20and%20Policy.pdf>

[https://www.wto.org/english/res\\_e/statis\\_e/its2014\\_e/its2014\\_e.pdf](https://www.wto.org/english/res_e/statis_e/its2014_e/its2014_e.pdf)

[http://unctad.org/en/PublicationsLibrary/itcdtab57\\_en.pdf](http://unctad.org/en/PublicationsLibrary/itcdtab57_en.pdf)

#### **PATTERN OF ASSESSMENT**

##### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Answer any 5 out of 6 questions in 50 words each)

Section B – 2 x 10 = 20 marks (Answer any 2 out of 3 questions in 400 words each)

Section C – 1 x 20 = 20 marks (Answer any 1 out of 2 questions in 1000 words)

##### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Open book tests/Group discussion/Assignments/Case studies

##### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Answer any 10 out of 12 questions in 50 words each)

Section B – 5 x 8 = 40 marks (Answer any 5 out of 8 questions in 400 words each)

Section C – 2 x 20 = 40 marks (Answer any 2 out of 4 questions in 1000 words each)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A DEGREE: BRANCH IV –ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HISTORY OF ECONOMIC THOUGHT**

**CODE:19EC/MC/ET65**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- The course is comprehensive and aims to help students gain an overall perspective of the subject
- To trace the evolution of economic science and evaluate the contributions of various thinkers and schools of thought
- To analyse the impact of prevailing circumstances on the evolution of economic thought.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- conceptualise the evolution of economic ideas
- identify the ideology of different schools of thought
- think critically and present a contextual analysis of theories and its relevance
- acquire writing and presentation skills
- engage in academic exercises and present arguments in coherent manner

**Unit 1**

**Introduction**

**( 10 Hours)**

- 1.1 Economic Thought – Meaning, Need for study of Economic Thought
- 1.2 Origin of Modern Economic Thought –Mercantilism –Physiocracy
- 1.3 Application –Relevance of mercantilism in the globalised world

**Unit 2**

**The Classical Political Economy**

**(14 Hours)**

- 2.1 Adam Smith
- 2.2 David Ricardo
- 2.3 Thomas Robert Malthus
- 2.4 J.S.Mill
- 2.5 Application –Comparison of current capitalism with 18<sup>th</sup> century capitalism

**Unit 3**

**Alternative Schools of Thought**

**(14 Hours)**

- 3.1 Marxian Socialism
- 3.2 Institutional School –Thorstein Bunde Veblen
- 3.3 German Historical School –Critical and Positive ideas

- 3.4 Marginal Revolution –William Stanley Jevons –Carl Menger –Leon Walras
- 3.5 Keynesian Economics- Main Features of Keynesian Revolution –Contributions of Lord Keynes to Macro Economics
- 3.6 Application –Collapse of the communist regime in the 90's

#### **Unit 4**

##### **Neo Classical Economics and Welfare Economics (14 Hours)**

- 4.1 Neo Classical Economics –Main Features –Alfred Marshall –Critique of Neoclassical School
- 4.2 Welfare Economics –Old Welfare School –A.C. Pigou
- 4.3 New Welfare School –Vilfred Pareto
- 4.4 J .R.Hicks
- 4.5 Paul A Samuelson
- 4.6 Kenneth K Arrow
- 4.7 Application –Market Failure

#### **Unit 5**

##### **Indian Economic Thought (13 Hours)**

- 5.1 Dadabhai Naoroji
- 5.2 Mahadev Govind Ranade
- 5.3 Gopalakrishna Gokhale
- 5.4 M. K. Gandhi
- 5.5 Amartya Sen
- 5.6 Application – ‘Limiting Wants’

#### **BOOKS FOR STUDY**

- Dasgupta, Ajit. *A History of Indian Economic Thought*. London & New York: Routledge, 1993.
- Gide, Charles. and Rist. Charles. *A History of Economic Doctrines*. London: George G. Harrp, 1967.
- Haney, Lewis H. *History of Economic Thought*. New York: University of Michigan Library, 2009.
- Lokanathan V. *A History of Economic Thought*. 10th Edition, New Delhi: S. Chand, 2018.

#### **BOOKS FOR REFERENCE**

- Brue, Stanley L & Grant. Randy. *The Evolution of Economic Thought*, 8<sup>th</sup> Ed. Ohio: South Western, 2013.
- Roll, Eric. *History of Economic Thought*. London: Faber & Faber, 2006.
- Blaug, Mark. *Economic History and The History of Economics*. Sussex:Wheatsheaf Books, 1986.
- Deane, Phyllis. *The Evolution of Economic Ideas*. London:Cambridge University Press, 1978.
- Seligman B. *Main Current Trends In Modern Economics*. New York: The Press of Golencoe, 1963.

#### **JOURNALS**

- Journal of the History of Economic Thought
- The European Journal of the History of Economic Thought

## WEB RESOURCES

<https://www.etcases.com/media/clnews/14214979671707593998.pdf>  
<http://digamo.free.fr/backhaus122.pdf>  
<http://modernecon.org/wp-content/uploads/2012/12/history-of-thought-Final-print-book-3.pdf>  
[http://cobe.boisestate.edu/lreynol/WEB/PDF\\_HET/CHAPTER1INTRO.pdf](http://cobe.boisestate.edu/lreynol/WEB/PDF_HET/CHAPTER1INTRO.pdf)  
[http://mises.org/sites/default/files/Austrian%20Perspective%20on%20the%20History%20of%20Economic%20Thought\\_Vol\\_2\\_2.pdf](http://mises.org/sites/default/files/Austrian%20Perspective%20on%20the%20History%20of%20Economic%20Thought_Vol_2_2.pdf)  
[http://economics.uwo.ca/people/laidler\\_docs/theroleof.pdf](http://economics.uwo.ca/people/laidler_docs/theroleof.pdf)  
[http://is.vsfs.cz/el/6410/zima2013/BA\\_ETD/um/4176060/-An-Outline-of-the-History-of-Economic-Thought-Screpanti-and-Zamagni-Oxford-2005-2nd-Ed.pdf](http://is.vsfs.cz/el/6410/zima2013/BA_ETD/um/4176060/-An-Outline-of-the-History-of-Economic-Thought-Screpanti-and-Zamagni-Oxford-2005-2nd-Ed.pdf)

## PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Answer any 5 out of 6 questions in 50 words each)

Section B – 2 x 10 = 20 marks (Answer any 2 out of 3 questions in 400 words each)

Section C – 1 x 20 = 20 marks (Answer any 1 out of 2 questions to in 1000 words)

**Other Components:** **Total Marks: 50**  
Seminars/Quiz/Open book tests/Group Discussion/Assignments

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Answer any 10 out of 12 questions in 50 words each)

Section B – 5 x 8 = 40 marks (Answer any 5 out of 8 questions in 400 words each)

Section C – 2 x 20 = 40 marks (Answer any 2 out of 4 questions in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DATA ANALYTICS USING ‘R’**

**CODE:19EC/MC/RS61**

**CREDITS:1**

**LTP:0 0 2**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To introduce the students to the key concepts and ideas of statistical computing environment.
- To train students in programming tools using R computing environment

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Recognize and make appropriate use of different types of data structures
- Access online resources for R and import new function packages into the R workspace
- Import, review, manipulate and summarize data sets in R
- Explore data- sets to test and identify appropriate statistical tests
- Perform appropriate statistical tests using R
- Create and edit visualizations with R

**Unit 1**

**Introduction**

**(8 Hours)**

- 1.1 Introduction to Programming
- 1.2 R Studio - Interface, Syntax Packages
- 1.3 Reading Data into R
- 1.4 Cleaning the data
- 1.5 Manipulating the structure of the data
- 1.6 Filtering based on a factor
- 1.7 Functions in R
- 1.8 Conditional Statements
- 1.9 Looping and Debugging

**Unit 2**

**Analysis**

**(18 Hours)**

- 2.1 Descriptive Statistics
- 2.2 Data Visualization
- 2.3 Cross Tabulation
- 2.4 ANOVA
- 2.5 Correlation
- 2.6 Regression
- 2.7 Inference

**BOOKS FOR STUDY**

Teetor, Paul; R Cookbook, O'Reilly Media Inc., California, 2011

**WEB RESOURCES**

<http://www.rstudio.com/products/rstudio/download/#download>

<https://www.datacamp.com/courses/foundations-of-inference>

<https://www.datacamp.com/courses/forecasting-using-r>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

**Practical Session**

Section A - 5 x 10 = 10 marks (Any 5 out of 7 questions)

**Other Components:**

**Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Case studies

**No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self (10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family (17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**  
**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-20)

**MARKETING**

**CODE:19EC/ME/MT45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To analyse the overall functions of marketing
- To understand the use of appropriate marketing strategies

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Understand the fundamental marketing concepts, theories and principles in areas of marketing policy, of market and consumer behavior, of product decision, pricing and distribution
- Students will acquire the necessary skills in marketing and designing and promoting a product
- Students will build applicable skills through a variety of case studies and projects
- Apply the knowledge, concept, tools necessary to understand challenges and issues of marketing in a growing international and global context
- Evaluate marketing ethics in the present day scenario

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Evolution of marketing, meaning, definition, classification and significance
- 1.2 Role of marketing in developed and less developed economies
- 1.3 Micro and Macro environment in marketing
- 1.4 Marketing Mix
- 1.5 Market Segmentation

**Unit 2**

**Product Decision**

**(15 Hours)**

- 2.1 Individual Product decisions – Attributes, Branding, Packaging, Labelling
- 2.2 Product mix and Product line
- 2.3 New Product Development
- 2.4 Product Life Cycle

**Unit 3**

**Product Pricing**

**(10 Hours)**

- 3.1 Product Pricing – Definition, objectives and types
- 3.2 New Product Pricing
- 3.3 Pricing Strategy



**Unit 4**  
**Distribution** (15 Hours)

- 4.1 Factors affecting choice of channel
- 4.2 Classification of Channel members
- 4.3 Functions of Retailer
- 4.4 Elimination of middlemen

**Unit 5**  
**Promotion and Marketing Ethics** (15 Hours)

- 5.1 Objectives of marketing communication
- 5.2 Promotional Mix, Advertising, Sales Promotion, Sales force, Publicity
- 5.3 Marketing Ethics
- 5.4 Consumerism
- 5.5 Consumer Protection

**BOOKS FOR STUDY**

Philip Kotler and Gary Armstrong. Principles of Marketing, 1988, Prentice Hall of India Pvt., Ltd., New Delhi.

Philip Kotler. Marketing Management and Analysis, Planning Implementation and Control, Prentice Hall of India Pvt., Ltd., New Delhi, 1993.

**BOOKS FOR REFERENCE**

Cundiff Edward & Still Richard. Fundamentals of Modern Marketing, 1995, Prentice Hall of India Pvt., Ltd., New Delhi.

Ramaswamy, V.S. and S. Namakumari. Marketing Management: The Indian Context, Macmillan India Ltd., New Delhi, 2009.

William J. Staton, Michael J. Etzel, Bruce J. Walker. Fundamentals of Marketing, 1994, McGraw Hill International.

**JOURNALS**

Quantitative Marketing and Economics  
Journal of Economics and Business

**WEB RESOURCES**

<http://www.behavioraleconomics.com/BEGuide2014.pdf>

<http://dash.harvard.edu/bitstream/handle/1/2962609/behavioral%20economics%20and%20marketing.pdf?sequence=2>

**PATTERN OF ASSESSMENT**

**Continuous Assessment:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

**Other Components:**

Seminars /Field trips/Case studies /Article review

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Any 10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**  
**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MONETARY AND FINANCIAL ECONOMICS**

**CODE:19EC/ME/MF45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL EACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To understand the basic models and concepts in monetary and financial economics.
- To give students an overview of a country's banking system.
- To help students comprehend the working of monetary policy

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Have a good understanding of how interest rates and returns to financial assets are calculated
- Understand the functioning of the Banking system
- Describe the channels of monetary transmission and various strategies of Monetary Policy
- An understanding of the structure and functions of the money market
- An exposure to the various monetary policy strategies

**Unit 1**

**Interest Rate Theories**

**(12 Hours)**

- 1.1 The Neo Classical Theory of Interest rates
- 1.2 Knut, Wicksell Theory of Interest rate
- 1.3 Measures of Interest rates – Present Value, Yield on maturity, Rate of interest and Returns, Real and Nominal interest rates.

**Unit 2**

**Money Markets**

**(12 Hours)**

- 2.1 Money Market – Definition and Structure
- 2.2 Instruments of the Money market
- 2.3 Indian Money market

**Unit 3**

**(16 Hours)**

**Financial Market Asset Pricing**

- 3.1 Bond Valuation – Features of a Bond, Bond values and Yields. Theories of the term structure of Interest rates, Yield curves.
- 3.2 Share Valuation – Dividend Capitalisation and Earnings Capitalisation. Linkages between Share Price, Earnings and Dividend

- 3.3 Efficient Market Hypothesis – Beating the Market, Weak, Semi Strong and Strong form Market Analysis.
- 3.4 Markowitz model
- 3.5 Capital Asset Pricing Model (CAPM) – Systemic Risk, CAPM assumptions and expression, Security Market Line and Asset Valuation.

#### **Unit 4**

##### **Theory and Tools of Monetary Policy (13 Hours)**

- 4.1 Central Banking – Functions, Objectives and Techniques of Credit Control
- 4.2 Monetary Policy - Transmission Mechanisms – Interest Rate Channel, Asset Price Channel, Credit Channel, Exchange Rate Channel and Expectation Channel
- 4.3 Monetary Policy – Operating Procedure - Instruments, Indicators and Lags
- 4.4 Monetary Policy in India.

#### **Unit 5**

##### **Monetary Policy Strategies (12 Hours)**

- 5.1 A Model for Intermediate Targeting
- 5.2 Monetary Targeting, Inflation Targeting and Nominal Income Targeting
- 5.3 The Taylor Rule
- 5.4 Monetary Conditions Index

#### **BOOKS FOR STUDY**

- Erickson .K.H, *Financial Economics: A Simple Introduction*, CreateSpace Publishers, California, 2014.
- Mishkin.F.S and Serletis. A. , *Economics of Money banking and Financial Markets*, Pearson Publication, New Delhi, 2011
- Nelke.A and Polleit.T., *Monetary Economics in Globalised Financial Markets*, Springer Publication, 2009.
- Pandey .I. M, *Financial Management*, Vikas Publishing House, New Delhi, 2010
- Paul, R.R. *Monetary Economics*. New Delhi: Kalyani Publishers, 2005.

#### **BOOKS FOR REFERENCE**

- Sethi,T.T. *Monetary Economics*. New Delhi: Sultan Chand,2003.
- Sundharam, K.P.M. *Money Banking Trade and Finance*. New Delhi: Sultan Chand, 2004.
- Hajela, T.N. *Money, Banking and International Trade*. New Delhi: Konark Publishers, 2002.
- Jadhav, N. *Monetary Policy- Financial Stability and Central Banking in India*. New Delhi: MacMillan, 2006.
- Khan, M.Y. *Indian Financial System*, 7<sup>th</sup> Ed. New Delhi: Tata McGraw Hill,2011.
- Kunjukunju, Benson and Mohanan S, *Financial Markets and Financial Services in India*. New Delhi: New Century Publication, 2012.
- Majumdar, N.A *Financial Sector reforms and India's Economic Development*. Vol 1. New Delhi: Academic Foundation,2002.
- Mishkin, F.S. and S.G. Eakins, *Financial Markets and Institutions*. 6<sup>th</sup> Ed. Pearson Education Asia, 2009.
- Rakesh, Mohan. *Growth with Financial Stability – Central Banking in an Emerging Market*. New Delhi: Oxford University Press, 2011.

Reddy, Y.V. *Lectures on Economic and Financial Sector Reform in India*. New Delhi: Oxford University Press, 2002.

Suraj, B Gupta. *Monetary Economics, Institutions, Theory and Policy*. New Delhi: Sultan Chand, 2000.

Vaish, M.C. *Monetary Theory*. New Delhi: Ratan Prakashan Mandir, 2004.

Wilson, J.S.G. *Monetary Policy and the Development of the Money Market*. London: Kindle Publishing House, 2008.

## WEB RESOURCES

[www.rbi.org.in](http://www.rbi.org.in)

[www.mospi.nic.in](http://www.mospi.nic.in)

<https://prezi.com/nqadt5-xobnq/m2-analyse-the-effects-of-fiscal-and-monetary-policies-for-a/>

## JOURNALS

RBI Bulletins

## PATTERN OF ASSESSMENT

### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

### Other Components:

**Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Case studies/  
Article Review

### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (10 out of 12 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 400 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.A DEGREE: BRANCH IV - ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ECONOMIC RESEARCH AND ANALYSIS**

**CODE:19EC/ME/RA45**

**CREDITS:5**

**L T P:2 0 3**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to take the first step into the world of research
- To introduce them to empirical research
- To enable students to explore the data
- To comprehend the application of statistical and econometric techniques in analysing economic data

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Students will be able to undertake simple research study
- Develop an understanding of statistics, econometrics and research methods and their application in applied economic research
- Students will be able to analyse data, interpret results and make evidence-based decisions
- Provide critical thinking ability and sharp analytical skills
- Demonstrate computer proficiency within economic using standard software packages

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Meaning, Objectives & Significance of research
- 1.2 Meaning, Objectives & Significance of social science research, Significance and Problems of scientific social research
- 1.3 Research Types

**Unit 2**

**Research Process**

**(20 Hours)**

- 2.1 Research Problem – Meaning, statement of a research problem
- 2.2 Literature Review – Meaning, Purpose of literature review, Kinds of sources, Documenting sources, Writing Literature review
- 2.3 Hypothesis testing – Introduction, Procedure and Approaches
- 2.4 Research Design –Meaning and types
- 2.5 Sampling techniques
- 2.6 Type of data
- 2.7 Data Collection Techniques
- 2.8 Sources of Data – Data base
- 2.9 Processing of data –Descriptive analysis, Core analysis

**Unit 3**  
**Logic** (10 Hours)

- 3.1 Logic of Reasoning
- 3.2 Propositions, Arguments, Premises
- 3.3 Deduction and Induction
- 3.4 Validity and Truth, Fallacies Syllogism

**Unit 4**  
**Qualitative Methods** (10 Hours)

- 4.1 Defining Qualitative Methods – Meaning of Knowledge – Epistemology Modern (Cartesian) – A Critique – Standpoint Epistemology – Ontology –Ontological Assumptions
- 4.2 Four major Qualitative Approaches –Ethnography, Phenomenology, Field Research, Grounded Theory
- 4.3 Methods of Qualitative measurements –Participant Observation, Direct Observation, Interview method, Case Studies, Vignettes

**Unit 5**  
**Data Analysis - Practical Session** (15 Hours)

- 5.1 Measure of Central Tendency
- 5.2 Measure of Dispersion
- 5.3 Measures of deviation from normality –Skewness and Kurtosis
- 5.4 Frequency distributions
- 5.5 Exploring data with graphs
- 5.6 Correlation and Regression –Simple, Partial, Multiple
- 5.7 Non-Linear relationships –Alternate Functional form specifications
- 5.8 Regression using Dummy Variable Techniques
- 5.9 Comparing two means –‘t’ Test
- 5.10 Comparing several means -ANOVA: One way and Two way

**BOOKS FOR STUDY**

Ramu Ramanathan. *Introductory Econometrics with Applications*, 5<sup>th</sup> edition. Harcourt College Publishers.  
Kothari, C.R. *Research Methodology*. New Delhi: Wiley Eastern Ltd. 1991.

**BOOKS FOR REFERENCE**

Cochran, W.G. *Sampling Techniques*. New York: John Wiley & Sons, 1977.  
Earl R. Babbie. *The Practice of Social Research*, 13<sup>th</sup> Edition. London: Wadsworth Cengage Learning, 2013.  
Goode, W.J and Hatt P.K, *Methods in Social Research*. New York: McGraw Hill, 1952.  
Neuman, W.L. *Social Research Methods: Qualitative and Quantitative Approach*. Washington: Pearson Education, 2009.  
Wilkinson, T.S. & Bhandarkar. P.L. *Methodology and Techniques of Social Research*, 24<sup>th</sup> Edition. New Delhi: Himalaya Publishing House, 2013.

**JOURNALS**

International Journal of Social Research Methodology  
International Journal of Qualitative Methods

## **WEB RESOURCES**

[http://www.seu.ac.lk/public\\_access/Research\\_Methodology.pdf](http://www.seu.ac.lk/public_access/Research_Methodology.pdf)

<http://www.cles.org.uk/wp-content/uploads/2011/01/Research-Methods-Handbook.pdf>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**  
**(Practical Exam only)**

**Total Marks: 50**

**Duration: 90 minutes**

Answer any FIVE questions out of 8 questions(5 \* 10=80)

### **Other Components:**

**Total Marks: 50**

Problem solving, Presentation of Article Summaries: - Article Summary to answer the following questions:

1. What is the central economic issue in the article?
2. What hypothesis/ objective were tested?
3. Discussion of the conceptual model
4. Empirical Model
5. Description of the variables, functional form, summary of findings
6. How to improve the study or follow up this study

### **End-Semester Examination:**

**Total Marks: 50**

Students are expected to submit a Minor research Project.

An external examiner along with the respective internal examiners will conduct the Viva Voce exam for the students who register for this course.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**  
**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-20)

**AGRICULTURAL ECONOMICS**

**CODE:19EC/ME/AG45**

**CREDITS:5**

**L T P:3 0 2**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To provide an elementary but comprehensive introduction to the subject
- To provide detailed treatment of issues in agricultural economics
- To familiarize students with policy issues relevant to agricultural economics

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Highlights the importance of agriculture in the economic development of India
- Understand the current developments in agricultural sector
- Gain understanding on policy matters relevant to Indian agriculture
- understand concepts and problems of rural development

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Definition, scope and nature of agricultural economics
- 1.2 Need for a separate study of agricultural economics
- 1.3 Agricultural Linkages with other sectors
- 1.4 Role of agriculture in economic development
- 1.5 Declining importance of agriculture in economic development
- 1.6 Nutrition sensitive agriculture

**Unit 2**

**Agricultural Production Function**

**(12 Hours)**

- 2.1 Production Function Analysis Factor-Product
- 2.2 Factor-Factor and Product-Product relationships
- 2.3 Types of farm organisations and their comparative production efficiency

**Unit 3**

**Transformation of Agriculture**

**(13 Hours)**

- 3.1 Transformation of Agriculture- Schultz thesis of transformation of traditional agriculture
- 3.2 Green Revolution and its Impact on Indian Agriculture
- 3.3 Need for second Green revolution
- 3.4 New Agriculture Policy, WTO and Indian Agriculture



**Unit 4****Agriculture Credit****(15 Hours)**

- 4.1 Importance of Agriculture credit
- 4.2 Need for Government intervention
- 4.3 Agricultural credit system in India
- 4.4 Role of NABARD in agriculture credit
- 4.5 Land Development Bank, Regional Rural Banks, Commercial banks.
- 4.6 Problems of small and medium farmers in getting agricultural finance

**Unit 5****Agriculture Price Policy****(15 Hours)**

- 5.1 Need, Objectives, and Instruments of agricultural price policy
- 5.2 Shortcomings of price policy, Suggestions for improvement in price policy
- 5.3 Agricultural price policy in India

**BOOKS FOR STUDY**

Soni R.N. Leading Issues in Agricultural Economics, 2015, Vishal Publishing Co., New Delhi.

Heady, E O , Economics of Agricultural Production and Resource use.; 1964, Prentice-Hall of India Pvt. Ltd., New Delhi.

**BOOKS FOR REFERENCE**

Metacalf, D, The Economics of Agriculture; 1969, Penguin Modern Economics, New York

Sadhu and Singh: Agricultural Economics. 2016, Himalaya Publishing House, Chennai.

**JOURNALS**

Working papers of IGIDR

Working papers of WTO studies, Indian Institute of Foreign Trade

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – 5 x 2 = 10 marks (Any 5 out of 6 questions to be answered in 50 words each)

Section B – 2 x 10 = 20 marks (2 out of 3 questions to be answered in 400 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1000 words)

**Other Components:****Total Marks: 50**

Seminars/Field trips/Case studies/Article review

**No End-Semester Examination:****Total Marks: 100**

Submission of a Term Paper with the paper related research study. Topic to be approved by the course teacher.

Total marks 100 (to be reduced to 50 marks)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**B.A DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic Year 2019-2020)

**PROJECT**

**CODE:19EC/ME/PR45**

**CREDITS:5**

**Guidelines**

➤ **Page Limit :**

The Project shall be within a space of about 50 – 75 pages  
Font size 12, Line spacing 1½, Font Style: Times New Roman

➤ **Title of the Project :**

Each Project should contain the following

‘Project submitted to Stella Maris College (Autonomous), Chennai in partial fulfillment of the requirement for the Degree of Bachelor of Arts in Economics by Name of the candidate, Department of Economics, Place, Month, Year’

➤ **The Project shall contain :**

- Contents Page
- The Project Copy will include Certificate of the Supervisor, Declaration, and Acknowledgement.
- Four or Five Chapters
- Introductory chapter comprising of scope & significance, objectives, hypothesis, methodology, limitations, review of literature/background of the study (can be a separate chapter also) Chapterisation, definitions and concepts if any.
- The student can use Quantitative or Qualitative/Descriptive or both methods.
- The final chapter shall contain “Summary and Conclusions”,
- At the end of the Project ‘List of References’ must be given in alphabetical/chronological order and necessary appendix may be added.

➤ **Submission:**

Each student may prepare two soft bound copies of the project, one for her and one copy to be submitted to the Department duly signed by the Supervisor, 15 days before the commencement of the End Semester Examination.

➤ **Guidelines for Evaluation:**

- |   |           |
|---|-----------|
| • Style, format and neatness in presentation  | 15        |
| • Methodology: Database/Data Source, Variable description, Sampling techniques, Tools of analysis | 10        |
| • Review of Relevant Literature/background of the study   | 10        |
| • Presentation of the Research problem, Objectives, Hypothesis, Significance of the study         | 10        |
| • Creativity, analysis, reasoning, and conclusion   | 20        |
| • Project (Total marks)   | <b>65</b> |

• Viva Voce	20
• Research-in-Progress (Planning, Presentation & Execution)	15
• Total	<b>100</b>

There will be double valuation for the project by the guide and an external examiner, who will also conduct the viva- voce.

The viva voce marks are given only by the external examiner.

The norms for valuation will be the same as applicable for theory papers

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**General Elective Course offered by the Department of Economics for the  
B.A / B.Sc. / B.Com. /B.V.A /B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ECONOMIC ISSUES**

**CODE:19EC/GE/EI22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To develop an awareness of the basic issues and problems pertaining to the Indian Economy
- To help identify the various causes of current economic issues

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Understanding of the framework of the Indian Economy
- Understanding concepts related to national income
- Be aware of some of the economic problems pertaining to the Indian economy
- Analyse the development of India's Agricultural and Industrial Sector.
- Identify the problems of small scale sectors

**Unit 1**

**India as a developing Economy**

**(8 Hours)**

- 1.1. Meaning of Development.
- 1.2. Features of Indian Economy as a developing economy
- 1.3. National Income of India - Problems in computing national income in India.
- 1.4. An overview of Infrastructure development – Problems of Transport development – Status of Health care and Education in India.

**Unit 2**

**Poverty and Unemployment**

**(8 Hours)**

- 2.1. Meaning of Poverty – Types of poverty - Causes of poverty and measures to reduce poverty.
- 2.2. Inequalities in income distribution.
- 2.3. Unemployment – Types of unemployment – Causes – Measures

**Unit 3**

**Agriculture and Industrial Development**

**(10 Hours)**

- 3.1. Role of agriculture in India – Causes for low productivity
- 3.2. An overview of Green Revolution – Success and Failures
- 3.3. Industrial development in India – Major problems faced by the Indian industries.
- 3.4. Problems of Small Scale and Cottage Industries in India

### **BOOKS FOR STUDY**

Agarwal, A.N. *Indian Economy: Problems of Development and Planning*. New Delhi:Wishwa Prakashan Publishing House. 2010  
Gupta ,K. R. *Studies in Indian Economy*. New Delhi: Atlantic Publishers & Distributors. 2005.

### **BOOKS FOR REFERENCE**

Dhar P.K. *Indian Economy*. Ludhiana: Kalyani Publishers, 2010.  
Jhingan M.L. *The Economics of Development and Planning*, New Delhi :Vrinda Publications, 2007.  
Misra, S.K. and V.K. Puri. *Structure and Problems of Indian Economy*, Bombay: Himalaya Publishing House.,1993.

### **JOURNALS**

Journal of Economic Issues  
International Journal of Economics and Financial issues

### **WEB RESOURCES**

[http://finmin.nic.in/workingpaper/EGES\\_impact\\_indiatrade\\_policyissue.pdf](http://finmin.nic.in/workingpaper/EGES_impact_indiatrade_policyissue.pdf)  
<http://aida.econ.yale.edu/~srinivas/Indian%20Economy%20Current%20Problems%20and%20Future%20Prospects.pdf>  
<http://www.kaushikbasu.org/Italian%20Economic%20Association%20Lecture.pdf>

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (Answer any 5 out of 7 questions in 50 words each)

Section B – 2 x 10 = 20 marks (Answer any 2 out of 4 questions in 300 words each)

Section C –1 x 15 = 15 marks (Answer any 1 out of 2 questions in 800 words)

### **Other Components:**

Seminars/Quiz/Concept Test/Group discussion/Assignments/Article Review

### **No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of Economics for the  
B.A /B.Sc. /B.Com. /B.V.A /B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MONEY MATTERS**

**CODE:19EC/GE/MM22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To understand the concept of money and its role in the functioning of an economy
- To understand how governments use various policy instruments to correct imbalances that occur in an economy

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- Understand the role and functions of money in an economy.
- Understanding some of the monetary problems and measures to correct it.
- Knowledge of the causes and effects of inflation
- Describe the different credit control techniques used by the central bank
- Knowledge of index numbers

**Unit 1**

**Introduction of Money**

**(8 Hours)**

- 1.1 Definition and Functions of Money
- 1.2 Aggregates of money
- 1.3 Measurement of money – Index numbers

**Unit 2**

**Inflation**

**(8 Hours)**

- 2.1 Inflation – Definition and Types
- 2.2 Causes and Impact of inflation

**Unit 3**

**Policy Instruments**

**(10 Hours)**

- 3.1 Types of Interest Rates
- 3.2 Quantitative Instruments
- 3.3 Qualitative Instruments

**BOOKS FOR STUDY**

Sundharam, K.P.M. *Money Banking Trade and Finance*. New Delhi: Sultan Chand, 2004.

### **BOOKS FOR REFERENCE**

Crowther G. *An Outline of Money*, Revised, London: Thomas Nelson, 1958.  
Friedman, Milton. *Studies in the Quantity Theory of Money* (Ed.) Chicago, London: The University of Chicago Press, 1956.  
Reddy, Y.V. *Lectures on Economic and Financial Sector Reform in India*. New Delhi: Oxford University Press, 2002.  
Suraj, B. Gupta. *Monetary Economics, Institutions, Theory and Policy*. New Delhi: S Chand, 2002.  
Vaish, M.C. *Monetary Theory*, New Delhi: Ratan Prakashan Mandir, 2004.

### **NEWSPAPER**

Economic Times  
Business Line  
Financial Express

### **WEB RESOURCES**

[www.rbi.org.in](http://www.rbi.org.in)

### **JOURNALS**

Journal of Money, Banking and Finance

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (Answer any 5 out of 7 questions in 50 words each)

Section B – 2 x 10 = 20 marks (Answer any 2 out of 4 questions in 300 words each)

Section C – 1 x 15 = 15 marks (Answer any 1 out of 2 questions in 800 words)

### **Other Components:**

Seminars/Quiz/Concept Test/Group discussion/Assignments/Article Review

### **No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of Economics for the  
B.A /B.Sc. /B.Com. /B.V.A /B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PUBLIC POLICY**

**CODE:19EC/GE/PP22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- This course provides an introduction to the field of public policy and the exciting and complex work of policy analysis
- Introduces key concepts, issues, process and analysis of public policy
- To help analyse policies across a range of issues and cases, including several generated by students in the class

**COURSE LEARNING OUTCOMES**

On Successful completion of the course, students will be able to

- An understanding of the factors that influence government action towards public issues
- Gain deep knowledge of the key concepts, issues, process, elements and tools of public policy
- Writing effective policy memos
- Develop analytical skills in evaluating various public policies
- Identify factors that cause policy failure

**Unit 1**

**Nature of Public Policy**

**(9 Hours)**

- 1.1 Public Policy - Definition
- 1.2 Policy studies as a science
- 1.3 Brief review of the official and unofficial actors and their roles in public policy legislature, Government and Bureaucracy, Judiciary, individual, interest group, political parties and media
- 1.4 Case Study- Normative and Empirical Analysis in the Abortion Debate

**Unit 2**

**Policymaking**

**(8 Hours)**

- 2.1 Brief introduction to the types of policies – Distributive policies, Regulatory policies and Redistributive policies
- 2.2 Elements of Policy Design
- 2.3 Case Study: Women's Reservation Bill /Right to Education Act

**Unit 3**

**Implementation and Memo writing**

**(9 Hours)**

- 3.1 Approaches to implementation – Top Down, bottom up and synthesis – A third generation of implementation research



- 3.2 Policy failure and learning from it
- 3.3 Guidelines to memo-writing
- 3.4 Case Study: Analysis of the implementation and failures of the Public Distribution System

## **BOOKS FOR STUDY**

Birkland Thomas A., *An Introduction to the Policy Process: Theories, Concepts and Models of Public Policy Making*, 2<sup>nd</sup> Edition Armonk: M.E Sharpe 2005

## **BOOKS FOR REFERENCE**

Anderson, J.E. *Public Policy – Making : An Introduction*. Boston: Houghton, 2006  
 Dreze, Jean. and Amartya. Sen. *India: Development and Participation*. New Delhi: Oxford University Press, 2002.  
 Dye, Thomas. *Understanding Public Policy*. Singapore: Pearson Education, 2008  
 Eugene, Bardach's. *A Practical Guide for Policy Analysis: the Eightfold Path to More Effective Problem Solving* (C Q press; any edition is acceptable)  
 Kingdon. *Agendas, Alternatives and Public Policies*, 2<sup>nd</sup> updated edition, 2011  
 Kraft and Furlong. *Public Policy: Politics, Analysis and Alternatives*, 4<sup>th</sup> edition, 2013.  
 Stella Z. Theodoulou and Matthew. A. Cahn, eds. *Public Policy: The Essential Readings*. New York: Prentice Hall, 1995.

## **Additional Reading list**

Kaushik, Basu. *The New Oxford Companion to Economics*, London: Oxford University Press, 2012.  
 Reetika, Khera, "India's Public Distribution System: Utilisation and Impact", Journal of Development Studies, 2011.

## **JOURNALS**

International Journal of Public Policy  
 Public Policy and Administration

## **WEB RESOURCES**

<http://www.beinformed.com/BeInformed/webdav-resource/binaries/pdf/public-policy-making.pdf?webdav-id=/Be%20Informed%20Bibliotheek/0000%20WEBDAV/WebDAV%20StatContent.bixml>  
[http://www.uoguelph.ca/omafra\\_partnership/ktt/en/worktogether/resources/understandingandapplyingbasicpublicpolicyconcepts.pdf](http://www.uoguelph.ca/omafra_partnership/ktt/en/worktogether/resources/understandingandapplyingbasicpublicpolicyconcepts.pdf)  
[http://www.untag-smd.ac.id/files/Perpustakaan\\_Digital\\_2/PUBLIC%20POLICY%20\(Public%20Administration%20and%20public%20policy%20125\)%20Handbook%20of%20Public%20Policy%20Analysis%20Th.pdf](http://www.untag-smd.ac.id/files/Perpustakaan_Digital_2/PUBLIC%20POLICY%20(Public%20Administration%20and%20public%20policy%20125)%20Handbook%20of%20Public%20Policy%20Analysis%20Th.pdf)  
<https://www.e-education.psu.edu/drupal6/files/geog432/images/American%20Public%20Policy%20Chapter%201.pdf>  
<http://www.jsdp.edu.in/content/india-public-policy-report-ipprr>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (Answer any 5 out of 7 questions in 50 words each)

Section B – 2 x 10 = 20 marks (Answer any 2 out of 4 questions in 300 words each)

Section C – 1 x 15 = 15 marks (Answer any 1 out of 2 questions in 800 words)

### **Other Components:**

Critical review of a current public policy

Three short policy memos

Quiz

### **No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of Economics for the  
B.A /B.Sc. /B.Com. /B.V.A /B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WOMEN AND WORK**

**CODE:19EC/GE/WW22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To present an overview of issues related to women and economy.
- To understand the economic and non-economic contribution of women to the economy
- To identify the contribution of women to the economy

**COURSE LEARNING OUTCOMES:**

On Successful completion of the course, students will be able to

- Become inclusive policy makers
- enable the students to understand the women's role in the economy
- acknowledge women's work
- empower students to do research on issues related to women.
- Identify violence faced by women

**Unit 1**

**Introduction to Women and Economy**

**(6 Hours)**

- 1.1 Gender, Patriarchy, Feminism
- 1.2 Development Models: WID, WAD and GAD
- 1.3 Gender Analysis
- 1.4 Gender and violence

**Unit 2**

**Women and Work**

**(10 Hours)**

- 3.1 Definition of work –paid and unpaid work
- 3.2 Invisibility of women
- 3.3 Gender Stereotypes – Feminisation of work
- 3.4 Glass Ceiling

**Unit 3**

**Policy Issues**

**(10 Hours)**

- 5.1 Health and Education
- 5.2 Gender Budgeting
- 5.3 Micro Finance and SHG
- 5.4 Role of State and NGO's

## **BOOKS FOR STUDY**

Poonacha, Veena. *Understanding Women's Studies*. Mumbai: RCWS, SNDT University, 1999.

## **BOOKS FOR REFERENCE**

Bhasin, Kamala. *Patriarchy*. New Delhi: Kali for Women, 1991.

Bhasin, Kamala. *Feminism*. New Delhi: Kali for Women, 1991.

Geetha, V. *Gender*. Kolkata: StreeSamya, 2002.

John, Florence, (ed.). *Gender Matters*. Chennai: Semmoodhai, 2013.

## **JOURNALS**

Gender Perspective on International Development

Gender & Development

Feminist Economics

## **WEB RESOURCES**

[http://www.ilo.org/wcmsp5/groups/public/---dgreports/---dcomm/documents/publication/wcms\\_067595.pdf](http://www.ilo.org/wcmsp5/groups/public/---dgreports/---dcomm/documents/publication/wcms_067595.pdf)

<http://www.vanneman.umd.edu/papers/Cotter01.pdf>

<http://library.fes.de/pdf-files/iez/global/06399.pdf>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 1x10 = 10 marks (Answer 10 objective questions)

Section B – 4 x 5 = 20 marks ( Answer any 4 out of 6 in about 100 words each)

Section C – 2 x 10 =20 marks ( Answer any 2 out of 4 in about 1000 words each)

**Other Components:**

Quiz/Project/Assignments

**No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of Economics for the  
B.A / B.Sc. /B.Com. /B.V.A /B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ECOFEMINISM**

**CODE:19EC/GE/EF22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To introduce the meaning and relevance of the subject matter of Ecofeminism
- To understand the interdependence of the environment, women and the economy
- To explore the connections between ecofeminism, environmental ethics and ecology

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- sensitise students on issues pertaining to environment and women
- be motivated to pursue research
- understand the philosophy of ecofeminism
- integrate the principles of respect for all life into their lives

**Unit 1**

**Introduction to concepts in Economics and Environmental Economics**

**(6 Hours)**

- 1.1 Meaning of Ecofeminism – Ecofeminism vs Environmentalism
- 1.2 Meaning of Economics - Defining Economic Development and Economic Growth
- 1.3 Economics and the Environment

**Unit 2**

**Introductory concepts of Women's Studies and Role of Women in the Economy**

**(11 Hours)**

- 2.1 Defining and conceptualizing - Patriarchy, Feminism, Sexism
- 2.2 Gender –Meaning, Concepts, Definition
- 2.3 Gender Stereotypes –Gender based hierarchical dualisms: man/woman, nature/nurture, nature/culture, outside/inside
- 2.4 Development vs. Anti-Development
- 2.5 Impact of globalization on women - Impoverishment of the Environment – Women and environment

**Unit 3**

**Ecofeminism and Deep Ecology**

**(9 Hours)**

- 3.1 The Myth of Catching up Development Model - Maria Mies
- 3.2 Deep vs Shallow Ecology - Arnie Naess

- 3.3 Gaia –The Revenge of Gaia –Relationship between Growth and Gaia  
3.4 The Need for a new vision –An Ecologically sound, non-exploitative, self-sustaining society

### **BOOKS FOR REFERENCE**

Agarwal, Bina. *Capabilities, Freedom and Equality: Amartya Sen's Work from a Gender Perspective* ed. London: Asia Cambridge University Press, 2006.  
Bhasin, Kamala. *Patriarchy*. New Delhi: Kali for Women., 1991.  
Bhasin, Kamala. *Feminism*. New Delhi: Kali for Women, 1991.  
John, Florence, (ed.) *Gender Matter*. Chennai: Semmoodhai, 2013.  
Mies, M & Vandana Shiva. *Eco feminism*, London: Zed Books, 1989.  
Shiva, V. *Staying Alive*. New Delhi: Kali for Women, 1988.

### **JOURNALS**

European American Journal

### **WEB RESOURCES**

[http://uaf.edu.pk/faculties/social\\_sci/courses/gender\\_and\\_development/09.pdf](http://uaf.edu.pk/faculties/social_sci/courses/gender_and_development/09.pdf)  
[http://www.uvm.edu/rsenr/nr6/Readings/Warren\\_ecofeminism\\_article.pdf](http://www.uvm.edu/rsenr/nr6/Readings/Warren_ecofeminism_article.pdf)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (Answer any 5 out of 7 questions in 50 words each)

Section B – 2 x 10 = 20 marks (Answer any 2 out of 4 questions in 300 words each)

Section C – 1 x 15 = 15 marks (Answer any 1 out of 2 questions in 800 words)

### **Other Components:**

Seminars/Quiz/Concept Test/Group discussion/Assignments/Article Review

### **No End-Semester Examination**

**STELLAMARISCOLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH IV -ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MANAGERIAL ECONOMICS**

**CODE:19EC/UI/MG23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To understand the basic concepts and equip them with tools to analyze economic quantities
- To impart the use of evaluative and forecasting techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the economic goals of the firms and optimal decision making
- To understand the challenges faced by managers
- To understand the critical role played by managers in decision making
- Enable students to apply theory to solve issues related to decision making of the firm with the help of analytical/statistical tools
- Knowledge of evaluated and forecasting techniques

**Unit 1**

**Introduction and Demand Analysis**

- 1.1 Nature, meaning and scope of managerial economics
- 1.2 Decision making and the role of a managerial economist
- 1.3 Demand Distinctions
- 1.4 Demand Forecasting
- 1.5 Problems and case studies

**Unit 2**

**Cost Decisions and Profit Planning**

- 2.1 Cost Concepts
- 2.2 Cost output relationship
- 2.3 Cost control and cost reduction
- 2.4 Profit planning and Break even analysis
- 2.5 Problems and case study

**Unit 3**

**Pricing and Market Promotion**

- 3.1 Objectives of pricing
- 3.2 Pricing Practices – Cost Oriented pricing. Competition oriented pricing and Pricing based on other economic consideration
- 3.3 Peak load pricing and Pricing over the life cycle of a product

## Unit 4

### Linear Programming

- 4.1 Linear programming: Applications and Assumptions
- 4.2 Constrained Profit Maximization and Constrained Cost minimization – Structuring the problem, the feasible region, graphic and algebraic solution
- 4.3 Special problems in Linear Programming – Multiple Solutions, redundant constraints with no feasible solution
- 4.4 The Dual Problem – Structuring the Dual problem, solving the dual problem
- 4.5 Problems and case study

## Unit 5

### Capital Budgeting

- 5.1 Cost of Capital
- 5.2 Investment evaluation – Project Appraisal methods
- 5.3 Capital Rationing
- 5.4 Problems and Case Study

## BOOKS FOR STUDY

Dean, Joel. *Managerial Economics*. New Delhi: Prentice Hall of India, 1951.  
Mehta, P.L. *Business and Management Economics*. New Delhi: Sultan Chand, 1996.  
Petersen, H. Craig and Lewis, W. Chris. *Managerial Economics*. New Delhi: Prentice Hall of India, 1995.  
Varshney, R.L and Maheswari, K.L. *Managerial Economics*. New Delhi: Sultan Chand, 1996.

## BOOKS FOR REFERENCE

Ibrahim I.B, Seo K.K and Vlachos P.G. *Readings in Managerial Economics*. Winston: Holt Rinehart, 1971.  
Julian, Simon L. *Applied Managerial Economics*. New Jersey: Prentice, 1975  
Spencer, Milton H. *Managerial Economics – Text Problems and Short Cases*, USA: Richard Irwin, 1968.

## JOURNALS

Journal of Managerial Economics  
Managerial and Decision Economics

## WEB RESOURCES

<http://www.saylor.org/site/textbooks/Principles%20of%20Managerial%20Economics.pdf>  
<http://financephd.typepad.com/files/managerial-economics-lecture-notes.pdf>

## PATTERN OF ASSESSMENT

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Answer any 10 out of 12 questions in 50 words each)

Section B – 5 x 8 = 40 marks (Answer any 5 out of 8 questions in 400 words each)

Section C – 2 x 20 = 40 marks (Answer any 2 out of 4 questions in 1000 words each)



**STELLAMARISCOLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH IV – ECONOMICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NOBEL LAUREATES IN ECONOMICS**

**CODE:19EC/UI/NL23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To provide a deeper understanding of the contributions made by select Economists in the field of economic theory and policy
- To facilitate a better comprehension of the relevance of the contributions of select Nobel Laureates, Women Economists and Indian Economists to the current economic issues

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Will enable the students to survey the discipline of economics through the lens of these eminent scholar's contributions and their applications
- explore the building blocks on which today's economics stands
- learn a great deal of intellectual history
- Provide knowledge about the contribution made by the following noble laureates
- Appreciate the relevance of their contribution in the context of the current scenario

**Unit 1**

**Amartya Sen**

- 1.1 Work for which Nobel Prize was awarded
- 1.2 Analysis
- 1.3 Relevance of the work to the current economic scenario

**Unit 2**

**George Akerlof**

- 2.1 Work for which Nobel Prize was awarded
- 2.2 Analysis
- 2.3 Relevance of the work to the current economic scenario

**Unit 3**

**John Nash**

- 3.1 Work for which Nobel Prize was awarded
- 3.2 Analysis
- 3.3 Relevance of the work to the current economic scenario

**Unit 4**

**Paul Krugman**

- 4.1 Work for which Nobel Prize was awarded
- 4.2 Analysis
- 4.3 Relevance of the work to the current economic scenario

## Unit 5

### Ronald Coase

5.1 Work for which Nobel Prize was awarded

5.2 Analysis

5.3 Relevance of the work to the current economic scenario

### BOOKS FOR REFERENCE

Akerlof, George A & Yellen. Janet. *Efficiency Wage Models of the Labor Market*, Orlando: Academic Press, 1986.

Brue, Stanley L & Grant. Randy. R. *The Evolution of Economic Thought*, 8<sup>th</sup> Ed., Ohio: South Western, 2013.

Boudreaux Donald. J. *The Coase Theorem and Strategic Bargaining in (ed)3 (Advances in Austrian Economics, Vol.3)*, Emerald Group Publishing, 1996.

Fudenberg, Drew & Tirole. Jean. *Game Theory*. Cambridge: MIT Press, 1991.

Krugman, Paul R. Elhanan, Helpman, *Market Structure and Foreign Trade: Increasing Returns, Imperfect Competition and the International Economy*, Cambridge: MIT Press, 1985.

Krugman Paul R. *Rethinking International Trade*. Cambridge: MIT Press, 1990.

Lindbeck Assar (ed.). *Nobel Lectures in Economic Sciences 1969-1980*, London: World Scientific, 1992.

Maler Karl-Goram (ed.). *Nobel Lectures in Economic Sciences 1981-1990*, London: World Scientific, 1992.

Myerson Roger.B. *Game Theory- Analysis of Conflict*, Harvard University Press, 1997

Puttaswamaiah. *Nobel Economists, Vol. 2 1975-85*. New Delhi: Indus Publishing., 1995.

Amartya Sen. *Choice, Welfare and Measurement*. Basil Blackwell Oxford, 1982

### WEB RESOURCES

[www.nobelprize.org](http://www.nobelprize.org)

### PATTERN OF ASSESSMENT

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Answer any 10 out of 12 questions in 50 words each)

Section B – 5 x 8 = 40 marks (Answer any 5 out of 8 questions in 400 words each)

Section C – 2 x 20 = 40 marks (Answer any 2 out of 4 questions in 1000 words each)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CEHNNAI – 600 086**

**DEPARTMENT OF ENGLISH**

**PROGRAMME DESCRIPTION**

The Bachelor's Programme in English is designed to acquaint students with a range of literatures written in, or translated into, English from across the world. The first two semesters of study train students to identify and appreciate the genres and subgenres of literature. These introductory courses also equip students to analyse and interpret texts with reference to the features, devices and techniques unique to each genre/subgenre. The programme then moves on to courses aimed at introducing students to various schools of thought and critical/theoretical movements. These give students a conceptual grounding and equip them with tools for analysis and interpretation. These courses are also designed to sensitise students to issues pertaining to marginalisation and plurality through an engagement with literary texts and to encourage them to question dominant narratives. They also prepare students to engage with literatures from various regions of the world, the focus of the courses in the last three semesters of the programme. The courses in the last three semesters build, in students, an awareness of social, cultural, economic and political conditions, specific to the regions, that are intertwined with the process of literary production. The programme is also designed with the twin objectives of nurturing creativity and imparting skills leading to employability in areas such as education and journalism.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of the BA English programme, the students will be able to

- critically analyse literatures written originally in English and in English translation from around the world using critical and theoretical tools specific to the discipline of literary studies.
- identify and analyse generic features of different literary texts
- comprehend and use reading methods from various schools of criticism and theory in the reading of literary texts.
- study the varied relationships between literary texts and the social, political, economic and cultural realities that produced these texts.
- study and empathetically analyse literatures produced from marginal positions.
- study literary texts as part of the ecological and environmental realities from which they are produced and disseminated.
- study the varied inter-relationships between textual and other forms of representations of literary texts such as visual and audio-visual representations

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. DEGREE : BRANCH XII-ENGLISH**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
<b>SEMESTER-I</b>										
19EL/MC/PR13	Prose	3	3	1	0	3	50	50	100	
19EL/MC/PT13	Poetry	3	3	1	0	3	50	50	100	
19EL/AC/LG15	Introduction to Linguistics	5	5	0	0	3	50	50	100	
19EL/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
19EL/SS/HC13	Life Skills:Health,Energy and Computer Basics	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
<b>SEMESTER-II</b>										
19EL/MC/DR23	Drama	3	3	1	0	3	50	50	100	
19EL/MC/IL25	Indian Literatures – I	5	5	1	0	3	50	50	100	
19EL/AC/SW25	Subaltern Writing	5	5	0	0	3	50	50	100	
19EL/SS/PD13	Life Skills:Personality Development	3	3	0	0	-	50	-	100	
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100	
<b>SEMESTER-III</b>										
19EL/MC/FN33	Fiction	3	3	1	0	3	50	50	100	
19EL/MC/LC34	Literary Criticism – I	4	4	1	0	3	50	50	100	
19EL/AC/LI35	Literature and Ideas	5	5	0	0	3	50	50	100	
19EL/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100	
<b>SEMESTER-IV</b>										
19EL/MC/LC44	Literary Criticism – II	4	4	1	0	3	50	50	100	
19EL/MC/IL45	Indian Literatures – II	5	5	1	0	3	50	50	100	
19EL/AC/GD45	Literature and Gender	5	5	0	0	3	50	50	100	
	Major Elective I									
<b>SEMESTER-V</b>										
19EL/MC/WA55	West Asian Literature	5	5	1	0	3	50	50	100	
19EL/MC/ES55	Literature of East and South Asia	5	5	1	0	3	50	50	100	
19EL/MC/BL55	British Literature:Sixteenth Century to Twenty First Century	5	5	1	0	3	50	50	100	
<b>Interdisciplinary Core Course (EL and FA) to students of English</b>										
19ID/IC/WA55	Writing and Art for Picture Books	5	3	0	3	-	50	50	100	
<b>Interdisciplinary Core Course (EL and FA) to students of Visual Arts</b>										
19ID/IC/CA55	Colonial Art and Literature	5	5	1	0	3	50	50	100	
	General Elective III	2	2	0	0	-	50	-	100	
	SAP / SL	2	2	0	0	-	50	-	100	

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**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-VI										
19EL/MC/AL65	American Literature	5	5	1	0	3	50	50	100	
19EL/MC/CA65	Literatures of Australia, Canada and New Zealand	5	5	1	0	3	50	50	100	
19EL/MC/AC65	African and Carribean Literatures	5	5	1	0	3	50	50	100	
	Major Elective II									
	General Elective IV	2	2	0	0	-	50	-	100	
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	2	2	0	0	-	50	-	100	
Major Elective Courses										
19EL/ME/LT45	English Language Teaching	5	5	0	0	3	50	50	100	
19EL/ME/CW45	Introduction to Children's Literature	5	5	0	0	-	50	50	100	
19EL/ME/JW45	Journalistic Writing	5	5	0	0	-	50	50	100	
19EL/ME/TW45	Travel Writing	5	5	0	0	-	50	50	100	
19EL/ME/PR45	Project	5	0	0	5	-	50	50	100	
General Elective Courses										
19EL/GE/FF22	Fiction and Film	2	2	0	0	-	50	-	100	
19EL/GE/GN22	The Graphic Novel	2	2	0	0	-	50	-	100	
19EL/GE/TS22	Basic Theatre Skills	2	2	0	0		50	-	100	
19EL/GE/PC22	Popular Culture	2	2	0	0	-	50	-	100	
19EL/GE/EA22	English for Advertising	2	2	0	0	-	50	-	100	
19EL/GE/EE22	English for Competitive Examinations	2	2	0	0	-	50	-	100	
Independent Elective Courses										
19EL/UI/CM23	Novel of Courtship and Marriage	3	0	0	0	3	-	100	100	
19EL/UI/PR23	Poetry of the Romantic Age	3	0	0	0	3	-	100	100	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PROSE**

**CODE:19EL/MC/PR13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To train students to critically analyse prose texts
- To train students in reading for ideas
- To hone academic writing skills in students

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of the generic features of prose forms
- identify the themes of varied prose texts
- identify rhetorical devices in prose texts
- critically analyse a variety of texts
- organise their thoughts and ideas in a logical manner while writing essays

**Unit 1**

**Essays**

**(15 Hours)**

1.1 Kinds of Essays

1.2 Joseph Addison

1.3 Sam Roberts

Ladies' Headdress

Celebrating The Semicolon in a Most

Unlikely Location, *The New York Times*, 18  
Feb. 2008

1.4 Ramchandra Guha

The Locality and the Nation, *The Hindu, Sunday  
Magazine*, 31 August 2003

1.5 George Mikes

Tea

**Unit 2**

**Speeches & Letters**

**(8 Hours)**

2.1 Features of Speeches and Letters

2.2 Abraham Lincoln

2.3 J. K. Rowling

2.4 Charles Dickens

The Gettysburg Address

Commencement Address at Harvard  
University, June 2008

Letter to his Wife

**Unit 3**

**Life Writing**

**(9 Hours)**

3.1 Introduction to Biography, Autobiography, Memoirs, Diaries

3.2 Rajmohan Gandhi

3.3 Maya Angelou

from *The Good Boatman* (pp 179-187)

*I Know Why the Caged Bird Sings*,  
Chapters 1-5



3.4 Tamsula Ao

*Once Upon a Life: Burnt Curry and Bloody Rags, Part III*, "Evening College", "A New Identity"

#### Unit 4

##### Travel Writing

(12 Hours)

4.1 Kinds of Travel Writing and their features

4.2 Pico Iyer

Falling off the Map (Bhutan)

4.3 Hugh and Colleen Gantzer

Lapland Tales: Saga of the Shaman's Stone, *The Hindu*, 21 Feb 2015.

#### Unit 5

##### Practical Application Tasks

(8 Hours)

5.1 Essay: Organisation; Beginning, Emphasis, Transition, Ending

#### Unit 5: Not for Testing

#### BOOKS FOR REFERENCE

Cooley, Thomas. *The Norton Sampler*. W W Norton & Co., 2005.

Gandhi, M.K. *The Story of My Experiments with Truth*. Trans. Mahadev Desai. Navjivan Publishing House, 1948.

Jamison, Leslie. *The Best American Essays 2017*. Houghton Mifflin, 2017.

Obama, Barack. *Dreams from my Father: A Story of Race and Inheritance*. Times Books, 1995.

Ozick, Cynthia. *The Best American Essays 1998*. Houghton Mifflin, 1998.

Shelston, Alan. *Biography*. Methuen, 1977.

Walker, Hugh. *The English Essays and Essayists*. S. Chand & Co. 1966.

Winkler, Antony C. *Readings for Writers*. Harcourt Brace Jovanovich, 1988.

#### WEB RESOURCES

<http://www.grammarcheck.net/how-write-essay-like-pros/>

[http://www.bucks.edu/media/bcccmedialibrary/pdf/howtowritealiteraryanalysisessay\\_10.15.07\\_001.pdf](http://www.bucks.edu/media/bcccmedialibrary/pdf/howtowritealiteraryanalysisessay_10.15.07_001.pdf)

#### PATTERN OF ASSESSMENT:

##### Continuous Assessment Test:

Total marks: 50

Duration: 90 minutes

Section A – Two out of four 150-word essays

2 x 10 = 20 marks

Section B – One out of two 300-word essays

1 x 15 = 15 marks

Section C – Passage analysis from prescribed texts

1 x 15 = 15 marks

##### Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis etc / Quiz/Panel Discussion/Group Presentation

##### End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A – Four out of six 150-word essays

4 x 10 = 40 marks

Section B – Two out of four 400-word essays

2 x 20 = 40 marks

Section C – Passage analysis from prescribed texts

1 x 20 = 20 marks

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**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**POETRY**

**CODE:19EL/MC/PT13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**COURSE OBJECTIVES**

- To enable students to learn how to read poetry with reference to form and context
- To train students to identify features related to poetic forms and issues related to contexts
- To train students to critically appreciate a variety of poems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- read and appreciate different kinds of poetry
- identify poetic forms
- identify poetic devices
- critically analyse a variety of poems
- demonstrate an understanding of the contexts

**Unit 1**

**Poetic Forms and Devices**

**(22 Hours)**

1.1 The Sonnet

William Shakespeare

Sonnet 18

1.2 The Ode

John Keats

Ode to a Nightingale

1.3 The Elegy

Thomas Gray

Elegy Written in a Country Churchyard

1.4 The Lyric

Robert Burns

A Red, Red Rose

1.5 The Dramatic Monologue

Robert Browning

My Last Duchess

1.6 Song Lyrics

John Lennon

Imagine

1.7 Simile

1.8 Metaphor

1.9 Image

1.10 Symbol

1.11 Synecdoche

1.12 Metonymy

<b>Unit 2</b>	<b>Poetry of the British Isles</b>	<b>(8 Hours)</b>
2.1 Jackie Kay	In My Country	
2.2 Seamus Heaney	Digging	
2.3 Carol Ann Duffy	Standing Female Nude	
2.4 John Donne	A Valediction of Weeping	
<b>Unit 3</b>	<b>American Poetry</b>	<b>(8 Hours)</b>
3.1 T.S. Eliot	The Preludes	
3.2 Joy Harjo	Remember	
3.3 Maya Angelou	Phenomenal Woman	
3.4 William Carlos Williams	The Red Wheel Barrow	
<b>Unit 4</b>	<b>Postcolonial Poetry</b>	<b>(8 Hours)</b>
4.1 Anita Heiss	The Colours of Aboriginality	
4.2 Wole Soyinka	Telephone Conversation	
4.3 Derek Walcott	A Far Cry From Africa	
4.4 Allen Curnow	House and Land	
<b>Unit 5</b>	<b>Practical Application Tasks</b>	<b>(6 Hours)</b>
Analysis of poems not prescribed on the syllabus – handouts to be given to students by course instructor		

### BOOKS FOR REFERENCE

- Eagleton, Terry. *How to Read a Poem*. Blackwell Publishing Ltd., 2007.
- Erdrich, Heid.E. *New Poets of Native Nations*. Greywolf Press, 2018.
- Heaney, Seamus. *Collected Poems: 1988-2013*. Farrar, Straus and Giroux. 2014.
- Matterson, Stephen and Darryl Jones. *Studying Poetry*. OUP, 2000.
- Perkins, David. *Modern American Poetry 1945-2000 - An Introduction*. Blackwell Publishers, 2006.
- Rosenthal, M.L. *The New Poets: American and British Poetry since World War II*. OUP, 1967.
- Thwaite, Anthony. *Poetry Today: A Critical Guide to British Poetry 1960-1984*. Longman Inc., 1985.

### JOURNALS

- Journal of Commonwealth Literature*
- ARIEL: A Review of International English Literature (online)*
- Wasafiri*
- Postcolonial Studies*

### WEB RESOURCES

- [www.poets.org](http://www.poets.org)
- [www.poetryfoundation.org](http://www.poetryfoundation.org)
- [www.literarydevices.org](http://www.literarydevices.org)
- <http://criticalflame.org/>(online)
- <https://www.aprweb.org/>(online)

**PATTERN OF ASSESSMENT:****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A—One out of two 150 word essays on poetic forms  
(prescribed poems from Unit 1)

1 x 10 = 10 marks

Section B—Two out of four 75 word essay on poetic devices  
(unseen poems)

2 x 5 = 10 marks

Section C—Two out of four 300 word essays  
on content, form, tone & style (Units 2, 3 & 4)

2 x 15 = 30 marks

**Other Components:****Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –  
Passage Analysis /Quiz/Panel Discussion/Group Presentation

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – three out of five 150 word essays  
on poetic forms (prescribed poems from Unit 1)

3 x 10 = 30 marks

Section B – two out of four 75 word essays each  
on poetic devices (unseen poems)

2 x 5 = 10 marks

Section C –four out of six 300 word essays  
on content, form, tone & style (Units 2, 3 & 4)

4 x 15 = 60 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INTRODUCTION TO LINGUISTICS**

**CODE:19EL/AC/LG15**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce students to the fundamental concepts of linguistics
- To inculcate in students a scientific approach to language
- To equip them with tools to analyse linguistic units
- To introduce them to the relationship between language, culture and society

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand issues related to the structure and functioning of language
- analyse sounds and identify patterns of sounds in languages
- compare and contrast language in terms of phonetics, phonology, morphology, syntax and semantics
- understand how language, society and culture are related

**Unit 1**

**Language as Communication**

**(15 Hours)**

1.1 Characteristics of Human Language

1.2 Human Language as a Signifying System

Saussure: Langue and Parole, Syntagm and Paradigm, Arbitrary Nature of Sign,  
Linear Nature of the Signifier

1.3 Varieties of Language – Dialect, Idiolect, Register

**Unit 2**

**Phonology**

**(15 Hours)**

2.1 Segmental Phonemes

2.1.1 Cardinal Vowel Scale

2.1.2 Classification of Vowels and Consonants in English

2.2 Supra-Segmental Features

2.2.1 Word and Sentence Stress

2.2.2 Intonation

**Unit 3**

**Morphology**

**(10 Hours)**

3.1 Morphemes

3.1.1 Bound and Free Morphemes

3.1.2 Derivatives – Root and Affix

3.1.3 Zero and Empty Morph

<b>Unit 4</b>	
<b>Grammar</b>	<b>(15 Hours)</b>
4.1 Traditional Grammar	
4.2 Five Basic Sentence Patterns	
4.3 I.C. Analysis	

<b>Unit 5</b>	
<b>Semantics</b>	<b>(10 Hours)</b>
5.1 Synonymy, Antonymy, Polysemy	
5.2 Hyponymy and Homonymy	

### BOOKS FOR REFERENCE

Balasubramanian, T. *A Text Book of English Phonetics for Indian Students*. Macmillan India Ltd., 1981.

Crystal, David. *The Cambridge Encyclopaedia of the English Language* Cambridge UP, 2003.

Palmer, Frank. *Semantics: A New Outline*. Cambridge UP, 1977.

---. *Grammar*, second ed. Penguin, 1971.

Yule, George. *The Study of Language – An Introduction*. Oxford UP, 1970.

Piller, Ingrid. *Linguistic Diversity and Social Justice: An Introduction to Applied Sociolinguistics*. Oxford UP, 2016.

Pullum, Geoffrey K. *Linguistics: Why it Matters*. Wiley, 2018

### PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A		20 marks
Phonemic transcription	5x1 =5 marks	
IC analysis,	2x2.5=5 marks	
Identifying sentence patterns	5x1 = 5 marks	
Morphemic analysis –no choice	5x1=5 marks	
<b>(Alternative questions, to replace Phonemic transcription and IC analysis, to be set for differently-abled students.)</b>		
Section B - Three out of five 75-word essays		3x5 = 15 marks
Section C – One out of three 300-word essay		1x15= 15 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>	
Oral test on phonetics		20 marks
Transcription		10 marks
I.C. Analysis		10 marks
Identifying Sentence Patterns		10 marks

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – Phonemic transcription of ten words		10x1= 10 marks
Section B – Identifying sentence pattern of five sentences		5x2=10 marks
Morphemic analysis of ten words		10x1=10 marks
IC Analysis of two sentences		2x2½=5 marks
Section C – Four out of six 75 word-essays		4x5=20 marks
Three out of five 300 word-essays		3x15=45 marks
<b>(Alternative questions, to replace phonemic transcription and IC analysis, to be set for differently-abled students.)</b>		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19EL/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.emn.com](http://www.emn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19EL/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DRAMA**

**CODE:19EL/MC/DR23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To introduce drama as a social product and a literary form
- To familiarise students with representative samples of genres and sub-genres
- To facilitate a close reading of plays
- To train students to use concepts and techniques in the critical analysis of drama

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the various dramatic forms, techniques and devices
- employ analytical skills for a critical interpretation and appreciation of drama
- apply literary concepts pertaining to drama, with regard to canonical as well as contemporary plays

<b>Unit 1</b>	<b>Aspects of Drama</b>	<b>(7 Hours)</b>
	1.1 Plot	
	1.2 Characterisation	
	1.3 Setting	
	1.4 Structure	
	1.5 The Unities	
<b>Unit 2</b>	<b>Types of Drama</b>	<b>(7 Hours)</b>
	2.1 Comedy	
	2.2 Tragedy	
	2.3 Tragicomedy	
<b>Unit 3</b>	<b>3.1 Shakespeare</b>	<b>(10 Hours)</b>
	<i>As You Like it</i>	
<b>Unit 4</b>	<b>4.1 Henrik Ibsen</b>	<b>(20 Hours)</b>
	<i>A Doll's House</i>	
	<b>4.2 Bertolt Brecht</b>	<i>Caucasian Chalk Circle</i>
<b>Unit 5</b>	<b>Practical Application Tasks</b>	<b>(8 Hours)</b>

## BOOKS FOR REFERENCE

- Van Es, Bart. *Shakespeare's Comedies: A Very Short Introduction.*, OUP, 2016.
- Ellis-Fermor, Una. *The Frontiers of Drama*. Routledge, (1964) 2013.
- Esslin, Martin. *Theatre of the Absurd*. Vintage, 2004.
- Evans, Bertrand. *Shakespeare Comedies*. OUP, 1967.
- Gascoigne, Bamber. *Twentieth Century Drama*. Hutchinson Uni. Library, 1967.
- Gray, Ronald. *Brecht the Dramatist*. CUP, 1977.
- Halliday, F. E. *Shakespeare in His Age*. Oaktree Publications, 1971.
- Hazlitt, William. *Characters of Shakespeare's Plays*. Handpress Publishing, 2010.
- Leech, Clifford. *Tragedy: The Critical Idiom*. Routledge, 1969.
- Merchant, Moelwyn. *Comedy: The Critical Idiom Series*. Routledge, 1972.
- Pettet, E. C. *Shakespeare and the Romance Tradition*. Haskell House Publishers, 1975.
- Wiles, David. *Shakespeare's Clown: Actor and Text in the Elizabethan Playhouse*. CUP, 2005.
- Williams, Raymond. "Introduction.," *Drama from Ibsen to Eliot*. Chatto and Windus, 1952, pp 11–38.

## WEB SOURCES

[www.dramaonlinelibrary.com](http://www.dramaonlinelibrary.com)  
[www.writers theatre.org](http://www.writers theatre.org).

## PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A –two out of four 150-word essays		2 x 10 = 20 marks
Section B - one out of two 300-word essay		1 x 15 = 15 marks
Section C – Passage analysis from prescribed plays (no choice)		1 x 15 = 15 marks

## **Other Components:** **Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –  
Passage Analysis etc/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation  
Creative Writing

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A –two out of four 150-word essays		2 x 10 = 20 marks
Section B – three out of five 400-word essays		3 x 20 = 60 marks
Section C – Passage analysis from prescribed plays		1 x 20 = 20 marks

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2019-2020)

INDIAN LITERATURES - I

CODE: 19EL/MC/IL25

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To introduce students to Indian Literatures written in various languages from the classical age to the pre-independence era
- To introduce students to various genres of literature from different regions across India
- To trace the interrogation of and change from classical to the pre-independence era in Indian Literature
- To enable students to understand the multiplicity of historical, social, cultural and political milieux of India as reflected in literature

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- appreciate, analyse, interpret and critique Indian Literatures written in various languages from the classical age to the pre-independence era
- critically engage with various genres of Indian Literatures written during this period
- relate Indian Literatures to important historical, social, cultural and political developments that influenced it
- appreciate and engage critically with polyphonic discourses in Indian Literatures

Unit 1

Indian Aesthetics and Thought

(15 Hours)

- 1.1 Ananda Coomaraswamy
- 1.2 A.K. Ramanujan
- 1.3 Arundhati Subramaniam

That Beauty is a State  
Afterword to *Poems of Love and War*  
Introduction to *Eating God: A Book of Bhakti Poetry*

Unit 2

Upto the 6<sup>th</sup> Century AD

(15 Hours)

- 2.1 A.K. Ramanujan
- 2.2 Bhasa
- 2.3 Sangam Poetry
  - 2.3.1 Akam
  - 2.3.2 Puram
- 2.4 Charles Hallissey (trans.)

Flowering Tree (from *The Flowering Tree and Other Oral Tales from India*)  
*Urubhangam*  
Kuruntokai 25. Only a thief was there  
Narainai 179. If a calving Cow  
Puranuru 235. If he found a little liquor  
Purananuru 69. Dear Singer  
(from A. K. Ramanujan. *Poems of Love and War*)  
*Therigatha* - Punna or Punnika, Ambapali

<b>Unit 3</b>	
<b>7<sup>th</sup> Century to 18<sup>th</sup> Century</b>	<b>(15 Hours)</b>
3.1 Bulle Shah	I have been pierced by the arrow of love, what shall I do?
3.2 Chokhamela	They thrash me Vithu
3.3 Soyra Bai	You say some bodies (from <i>Eating God. A Book of Bhakti Poetry</i> , pp 49)
3.4 Meera Bai	These eyes: like... (from <i>Three Bhakti Voices</i> , pp 112-113)
3.5 Devara Dasimayya	Poem 120 from <i>Speaking of Siva</i>
3.6 Salabega	Get lost, you dirty flirt (from <i>Eating God</i> , pp 127)
3.7 Ramprasad Sen	What a Joke. (from <i>Singing to the Goddess: Poems to Kali and Uma from Bengal</i> , pp 22-23)
3.8 Babur	Description of Kabul (from <i>Baburnama</i> , pp 199-207)

<b>Unit 4</b>	
<b>19<sup>th</sup> Century to 1947</b>	<b>(20 Hours)</b>
4.1 Toru Dutt	The Tree of Life
4.2 Chandu Menon	<i>Indulekha</i> (Trans. Anitha Bevasia)
4.3 Rabindranath Tagore	<i>Chitra</i>
4.4 Munshi Premchand	Wife into Husband (from <i>Oxford India Premchand</i> )
4.5 Ammani Ammal	Expectation and the Event (from <i>The Tamil Short Story: Through the Times, Through the Tides</i> , pp 1-4)

<b>Unit 5</b>	
<b>Practical Application Tasks</b>	<b>(13 Hours)</b>

#### BOOKS FOR REFERENCE

- Afterword. *The Flowering Tree and Other Oral Tales from India*. Ed. Stuart Blackburn and Alan Dundes. Penguin Books, 1997.
- Bhat, G.K. "Two plays of Tragic Design and Tragic Intent," *Tragedy and Sanskrit Drama*. Bhandarkar Oriental Institute, 1976.
- Chakravarthy, Uma. "The Rise of Buddhism as Experienced by Women." *Manushi*, 8.
- Devy G N. *After Amnesia*. Orient Longman, 1994.
- Naik, M K. *A History of Indian Literature*. Sahitya Akademi, 2005. Print.
- Pollock, Sheldon I. *A Rasa Reader: Classical Indian Aesthetics*. Columbia University Press, 2018.
- Ramanujan A.K. Afterword. *Poems of Love and War*. Oxford University Press. 1996

#### JOURNALS

- Indian Literature*
- Kavya Bharathi*
- The Little Magazine*
- The Journal of Commonwealth Literature*
- Literary Criterion*

## **WEB RESOURCES**

[www.sawnet.com](http://www.sawnet.com)

[www.ntm.org.in](http://www.ntm.org.in)

[www.indianruminations.com](http://www.indianruminations.com)

[ccrtindia.gov.in/literaryarts.php](http://ccrtindia.gov.in/literaryarts.php)

## **PATTERN OF ASSESSMENT:**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A- two out of four 300-word essays

2x15=30 marks

Section B- one out of two 400-word essays

1x20=20 marks

### **Other Components:**

**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work-Passage Analysis etc/Quiz/Panel Discussion/Group Presentation/Role – Play/Dramatisation  
Creative Writing

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A- four out of six 300-word essays

4x15=60 marks

Section B- two out of four 400-word essays

2x20=40 marks



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**SUBALTERN WRITING**

**CODE:19EL/AC/SW25**

**CREDITS:5**

**LTP:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the concept of subalternity
- To help them position subaltern identities in texts
- To sensitise students to experiences of marginalisation
- To enable students to critically analyse literary texts with reference to subalternity

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of the issues related to marginalised sections of the society
- display a sensitive approach to marginalised sections of society
- identify and understand the causes and consequences of oppression
- apply subaltern concepts and theories to the interpretation and analysis of texts
- extend their understanding of the issues discussed through the texts to the real world

<b>Unit 1</b>			
	<b>Background Reading</b>		<b>(20 Hours)</b>
	1.1 Paulo Freire	Introduction, <i>Pedagogy of the Oppressed</i> .	
	1.2 Frantz Fanon	On Violence (from <i>The Wretched of the Earth</i> , pp 1-13)	
<b>Unit 2</b>			<b>(15 Hours)</b>
	2.1 Saeed Akhtar Mirza	“The First Lady and the Terrorist: A Film Script in Five Acts.” (from <i>Ammi: Letter to a Democratic Mother</i> , pp. 250-307)	
<b>Unit 3</b>			<b>(10 Hours)</b>
	3.1 Maheswata Devi	Kunti and the Nishadin (from <i>After Kurukshetra</i> )	
<b>Unit 4</b>			<b>(15 Hours)</b>
	4.1 Nellie Wong	When I was Growing up	
	4.2 Cherrie Moraga	The Welder	
	4.3 S. Sukirtharani	A Faint Smell of Meat	
<b>Unit 5</b>	<b>Practical Application Tasks</b>		<b>(5 Hours)</b>

## BOOKS FOR REFERENCE

- Anazaldua, Gloria. *This Bridge Called My Back: Writing by Radical Women of Color*. SUNY Press, 1983, pp 165-173.
- Fanon, Frantz. *Black Skin, White Mask*. Grove, 1967.
- Gail Omvedt "Chapter 11: Sita's Curse and Shambuk's Silence." *Dalit Visions* : Orient Longman, 2006.
- Gramsci, Antonio. "History of the Subaltern Classes", *Prison Notebooks Vol. II*, Ed. &Tr. Joseph A. Buttigieg, 1996, 24-25.
- Milner, Andrew and Jeff Browitt. *Race and Ethnicity in Black and Latino Cultural Studies: Contemporary Critical Theory*. III Ed. Rawat, 2003.
- Nilsen, Alf Gunvald and Srila Roy, eds. *New Subaltern Politics. Reconceptualizing Hegemony and Resistance in Contemporary India*. OUP, 2015.
- Spivak, Gayatri Chakrabarti. "Subaltern Studies: Deconstructing Historiography". Ed. Ranajit Guha, *Writings on South Asian History and Society* Vol IV. OUP, 1985, pp 330-363.

## PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 150-word essays		2x10=20 marks
Section B – one out of two 300-word essays		1x15=15 marks
Section C – Passage analysis from prescribed texts		1x15= 15 marks

### Other Components

### Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Quiz  
Panel Discussion/Group Presentation/Role-Play/Dramatisation/Creative Writing

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – three out of five 300-word essays		3x15= 45marks
Section B – two out of four 400-word essays		2x20=40 marks
Section C – Passage analysis from prescribed texts		1x15=15 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**Soft Skills Course Offered by the Department of English to  
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LIFE SKILLS: PERSONALITY DEVELOPMENT**

**CODE:19EL/SS/PD13**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- develop a healthy respect for the self
- interact with people confidently
- function effectively in a team
- organise and prioritise activities
- follow their goals with clarity
- think laterally and solve problems creatively

**Unit 1**

**Self Awareness**

**(13 Hours)**

- 1.1 Self esteem
- 1.2 Strengths and Weaknesses
- 1.3 Accepting oneself
- 1.4 Giving/receiving compliments
- 1.5 Giving/receiving constructive criticism

**Unit 2**

**Personal Effectiveness**

**(13 Hours)**

- 2.1 Interpersonal skills – Communication and Listening Skills
- 2.2 Creative Thinking
- 2.3 Dealing with stress
- 2.4 Adapting to change
- 2.5 Team work and Group dynamics
- 2.6 Leadership skills

## **Unit 3**

### **Charting the Future**

**(13 Hours)**

3.1 Time management

3.2 Goal setting

3.3 Choice of career/vocation

3.4 Career mapping

### **BOOKS FOR REFERENCE:**

Khera, Shiv. *You Can Win*. Macmillan, 1998.

Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.

Alex, K. *Soft Skills: Know Yourself and Know the World*. S.Chand, 2009.

Covey, Stephen R. *The 7 Habits of Highly Effective People*. FranklinCovey Co., 2016.

### **WEB SOURCES**

<http://www.macmillanenglish.com/life-skills/>

<https://www.lifeskillsgroup.com.au/>

[https://onlinecourses.nptel.ac.in/noc17\\_hs31/](https://onlinecourses.nptel.ac.in/noc17_hs31/)

### **PATTERN OF ASSESSMENT:**

#### **Continuous Assessment Test:**

Two Classroom Tasks

**Total Marks:50**

2x25=50 marks

#### **List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

### **No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FICTION**

**CODE:19EL/MC/FN33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To help students identify and analyse the generic aspects of fiction
- To trace the broad developments in fiction since the eighteenth century
- To train students to identify the changes in form and narrative techniques from the eighteenth to the twentieth centuries
- Identify, interpret, and compare and contrast specific leitmotifs and character types of different genres of fiction

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the student will be able to

- display a knowledge of the different aspects of the novel and how they contribute to the effectiveness of the novel
- trace the development of the novel and the short story with reference to political, cultural and literary movements
- critically appreciate the different genres of fiction with reference to their distinctive features
- relate aesthetically to fiction from various regions
- identify the characteristic features of Modernist and Postmodern fiction

**Unit 1**

**Introduction to Fiction**

**(10 Hours)**

**1.1 Aspects of the Novel**

**1.1.1 Plot**

**1.1.2 Characterisation**

**1.1.3 Point of View / Focalisation**

**1.1.4 Theme**

**1.2. Sub-genres of the Novel**

**1.2.1 The Epistolary Novel**

**1.2.2 The Picaresque Novel**

**1.2.3 The Gothic Novel**

**1.2.4 The Historical Novel**

**1.2.5 The Bildungsroman**

**1.3 Features of the Short Story**

<b>Unit 2</b>		
<b>Novel</b>		<b>(12 Hours)</b>
2.1 Jane Austen	<i>Pride and Prejudice</i>	
<b>Unit 3</b>		
<b>Novel</b>		<b>(12 Hours)</b>
3.1 John Fowles	<i>The French Lieutenant's Woman</i>	
<b>Unit 4</b>		
<b>The Short Story</b>		<b>(10 Hours)</b>
4.1 Anton Chekov	Vanka	
4.2 Virginia Woolf	The Mark on the Wall	
4.3 William Faulkner	A Rose for Ms. Emily	
4.4 Haruki Murakami	The Shinagawa Monkey	
<b>Unit 5</b>		
<b>Practical Application Tasks</b>		<b>(8 Hours)</b>

### BOOKS FOR REFERENCE

- Bardbury, Malcolm, ed. *The Novel Today*. Fontana Press, 1961.
- Brantlinger, Patrick and William Thesing, eds. *A Companion to the Victorian Novel*. Wiley-Blackwell, 2005.
- Correa, Delia Da Sousa, ed. *The Nineteenth Century Novel*. Routledge, 2000.
- David, Deirdre. *The Cambridge Companion to the Victorian Novel*. Cambridge University Press, 2012.
- Eagleton, Terry. *The English Novel: An Introduction*. Blackwell Publishing, 2005.
- Forster, E.M. *Aspects of the Novel*. Penguin, 2005. (Chapters II, III, IV, V.)
- Goonaratne, Yasmine. *Jane Austen*. Cambridge UP, 1970.
- Hale, Dorothy J., ed. *The Novel: An Anthology of Criticism and Theory: 1900-2000*. Wiley-Blackwell, 2005.
- Hutcheon, Linda. "Historiographic Metafiction" *Metafiction*, ed. Mark Currie. Longman, 1995.
- Kettle, Arnold. *An Introduction to the English Novel*. Hutchinson and Co., 1951.
- Lodge, David. *The Art of Fiction*. Penguin Books, 1992.
- Matthews, Steven, ed. *Modernism: A Source Book*. Palgrave Macmillan, 2009.
- Matz, Jesse. *The Modern Novel: A Short Introduction*. Wiley-Blackwell, 2004.
- Nicholls, Peter. *Modernisms: A Literary Guide*. Palgrave Macmillan, 1995.
- Patea, Viorica. *Short Story Theories. A Twenty-First-Century Perspective*. Brill, 2015.
- Waugh, Patricia. *Metafiction: The Theory and Practice of Self-Conscious Fiction*. Routledge, (1984) 2002.

### WEB RESOURCES

- Schorer, Mark. "Technique as Discovery". *The Hudson Review*. Vol. 1, No. 1 (Spring, 1948), pp. 67-87. <<http://www.jstor.org/stable/3847209>>

## **PATTERN OF ASSESSMENT:**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – three out of four 100-word essays		3x5=15 marks
Section B – one out of two 500-word essays		1x20=20 marks
Section C – Passage analysis from Units 2 and 3		1x15=15 marks

<b>Other Components</b>	<b>Total Marks: 50</b>
Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis etc/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation Creative Writing	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out six 100-word essays from Unit 1		4x5=20 marks
Section B – three 500-word essay with internal choice from Units 2, 3 and 4		3x20=60 marks
Section C – Analysis of one out of two passages from Units 2 and 3		1x20= 20 marks

**STELLAMARISCOLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LITERARY CRITICISM - I**

**CODE: 19EL/MC/LC34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce students to Literary Criticism and its relevance to Literature
- To acquaint students with the development of modern criticism
- To acquaint them with the basic principles of various schools of criticism
- To help students apply critical concepts to literary texts

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the continued relevance of literary criticism
- identify and discuss theoretical and philosophical texts important to literary criticism
- understand key concepts from both Indian and Western perspectives
- interpret and critically analyse literary texts
- apply these concepts to study new texts

**Unit 1 (10 Hours)**

1.1 Introduction to Literary Criticism

M.H Abrams “Orientation of Critical Theories” *The Mirror and the Lamp: Romantic Theory and the Critical Tradition* pp 3-26

**Unit 2 (10 Hours)**

2.1 Aristotle

*Poetics*

Chapters 1,2,4,5,6,7,8

(Penguin Translation)

**Text for Analysis**

2.2 Sophocles

*Oedipus Rex*

2.3 Plato

*Ion*

**Unit 3 (15 Hours)**

3.1 Philip Sidney

Extract from *Apology for Poetry*

from V.S. Sethuraman : Among the Roman...to teach and delight. (46 –49)

3.2 Samuel Johnson

Extracts from *Preface to Shakespeare*

from V.S. Sethuraman : Nothing can please many and please long...progress of the passion. (247 – 249)



<b>Unit 4</b>		<b>(15 Hours)</b>
4.1 Samuel Taylor Coleridge	<i>Biographia Literaria</i> <i>Chapter XIII</i> (section on Fancy and Imagination) And <i>Chapter XIV</i> (The poet in ideal perfection...)	
4.2 Mathew Arnold	<i>The Study of Poetry</i> (Indeed there can be no more useful help...high poetic seriousness are absent from his substance and matter)	
4.3 T.S Eliot	Tradition and Individual Talent	

<b>Unit 5</b>		<b>(15 Hours)</b>
<b>Practical Application Tasks</b>		
Practical Analysis of Literary Texts / Passages Applying Relevant Critical Concepts		

### BOOKS FOR REFERENCE

- Habib, M.A.R. *A History of Literary Criticism and Theory: From Plato to the Present*. Wiley-Blackwell, 2005.
- Holland, Owen and Piero. *Introducing Literary Criticism: A Graphic Guide*. Icon Books. 2016.
- Ramanujan, A.K. "On Ancient Tamil Poetics". *Indian Literary Criticism*. Orient Longman, 2006.
- Robinson, Dave. *Introducing Plato: A Graphic Guide*. Icon Books, 2011.
- Sethuraman, V.S. *Indian Aesthetics*. Macmillan India Ltd., 1977.
- Wimsatt, William and Cleanth Brooks. *Literary Criticism: A Short History*. Oxford & IBH Publishing Co., 1957.
- Woodfin, Rupert and Judy Groves. *Introducing Aristotle: A Graphic Guide*. Icon Books, 2012.
- Wordsworth, William. "Preface to the Lyrical Ballads." *English Critical Texts*. Eds. Enright and Chickera, OUP, 1962.

### PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks:50</b>	<b>Duration:90 minutes</b>
Section A – three out of five 100-word essays		3x5=15 marks
Section B – two out of four 200-word essays		2x10=20 marks
Section C – Passage analysis applying critical concepts		1x15=15 marks

<b>Other Components:</b>	<b>Total Marks:50</b>
Analysis of unseen passages applying critical concepts learnt	
Analysis of movies based on Aristotle's criteria	
Oral presentations on texts of literary criticism (not prescribed in the syllabus) from the period covered in the syllabus	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – Three out of five 400-word essays		3x15= 45 marks
Section B – Two out of four 500-word essays		2x20=40 marks
Section C – One analysis – with concepts given		
Or		
One analysis – choosing any concept		1x15=15 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LITERATURE AND IDEAS**

**CODE: 19EL/AC/LI35**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the major schools of thought that have impacted literature
- To guide students to an understanding of the major shifts in schools of thought
- To train students to analyse literary texts using these ideas as frames of reference

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the concepts of major schools of thought, and place them in the appropriate context
- critically analyse literary texts using these concepts
- engage with canonical texts as well as contemporary literature
- extend the analysis to other media as well as real life
- understand the interrelationship between different schools of thought

**Unit 1 (14 Hours)**

**Romanticism**

- |                                 |   |
|---------------------------------|---|
| 1.1 Jean Jacques Rousseau       | The Social Contract - General Will, Particular Will, Noble Savage, Sovereign, State of Nature, Civil State and The Social Contract            |
| 1.2 Immanuel Kant               | Critique of Pure Reason - a priori, a posteriori, Analytic, Synthetic, Noumena, Phenomena and Transcendental Deduction of Knowledge           |
| 1.3 G.W.F. Hegel                | Phenomenology of the Mind - Absolute Consciousness, Totality, Negative Dialectics, Hegelian Triad, Self-Consciousness, Master-Slave Dialectic |
| <b>Text:</b> William Wordsworth | <i>The Prelude Book I</i> (Lines: 147-249)  |

**Unit 2 (13 Hours)**

**Marxism and Psychoanalysis**

- |                              |  |
|------------------------------|--|
| 2.1 Freud and Jung           | Id, Ego and Superego; Collective Unconscious |
| 2.2 Karl Marx                | Base and Superstructure                      |
| <b>Text:</b> Charles Dickens | <i>Hard Times</i> (Chapters 1-5)             |
| Sylvia Plath                 | <i>Mirror</i>                                |

**Unit 3 (15 Hours)**

**Existentialism**

3.1 Schopenhauer

The World as Will

3.2 Nietzsche

Apollonian and Dionysian Principles

3.3 Sartre

Awful Freedom

**Texts:** Ted Hughes

Tiger Psalm

Franz Kafka

*Metamorphosis*

**Unit 4 (13 Hours)**

**Feminist Thought**

4.1 Toril Moi

Feminine, Feminist, Female

4.2 bell hooks

Black Women - Shaping Feminist Theory

**Text:** Makbula Manzoor

On the Road (from Galpa; Short Stories by  
Women from Bangladesh)

**Unit 5 (10 Hours)**

**Practical Application Tasks**

**BOOKS FOR REFERENCE**

Bhandari, D. R. *History of European Political Philosophy*. Bangalore Printing and Publishing, 1994.

Beauvoir, Simone De. *The Second Sex*. Vintage Books, 1949.

Copplestone, F. *A History of Philosophy*. Burn and Odes, 1959.

Durant, Will. *The Story of Philosophy*. Simon and Schuster, 1926.

Howells, Christina, ed. *The Cambridge Companion to Sartre*. Cambridge UP, 1992.

Lavine, T.S. *From Socrates to Sartre: The Philosophical Quest*. Bantam Books, 1984.

Millet, Kate. *Sexual Politics*. Doubleday, 1970.

Russell, Bertrand. *History of Western Philosophy*. Unwin, 1979.

Zima, V., Peter. *Subjectivity and Identity: Between Modernity and Postmodernity*. Bloomsbury, 2015.

**PATTERN OF ASSESSMENT:**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – three out of five 100-word essays

3x5=15 marks

Section B – one out of three 400-word essays

1x15=15 marks

Section C – Passage Analysis (unseen literary text)

1x20=20 marks

**Other Components:**

**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –  
Passage Analysis etc/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation  
Creative Writing

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – four out of six 100-word essays on concepts

4x5=20 marks

Section B – three out of five 500-word essays

3x20=60 marks

Section C – Passage analysis (unseen literary text)

1x20=20 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19EL/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LITERARY CRITICISM – II**

**CODE: 19EL/MC/LC44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the development of modern criticism and theory
- To train them to relate criticism and theory to praxis
- To introduce them to the interrelationship between different schools of criticism

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of the development of modern criticism and theory
- critically analyse literary texts
- interpret texts using different schools of thought
- understand the various concepts and place them in the right context
- understand the interrelationship between different schools of criticism

<b>Unit 1</b>		<b>(15 Hours)</b>
1.1 Cleanth Brooks	Keats' Sylvan Historian	
1.2 I.A. Richards	Four Kinds of Meaning	
<b>Unit 2</b>		<b>(20 Hours)</b>
2.1 Tzvetan Todorov	The Typology of Detective Fiction	
2.2 Roland Barthes	Myth as a Semiological System	
	For mythology ...it imposes it on us (from <i>Mythologies</i> )	
2.3 M.H. Abrams	How to do Things with Texts	
<b>Unit 3</b>		<b>(10 Hours)</b>
3.1 Stanley Fish	Is There a Text in This Class?	
<b>Unit 4</b>		<b>(10 Hours)</b>
4.1 Arne Naess and George Sessions	The Basic Principles of Deep Ecology	
<b>Unit 5</b>		<b>(10 Hours)</b>
<b>Practical Application Tasks</b>		

## BOOKS FOR REFERENCE

- Barthes, Roland. *Mythologies*. Trans. Annette Lavers. Vintage, 1993.
- Guerin Wilfred et al. *A Handbook of Critical Approaches to Literature*. Oxford UP, 1992.
- Habib, M.A.R. *A History of Literary Criticism and Theory: From Plato to the Present*. Wiley-Blackwell, 2005.
- Lodge, David. *Modern Criticism & Theory*. Longman, 1991.
- Naess, Arne. *The Ecology of Wisdom: Writings by Arne Naess*. Penguin Books Ltd, 2016.
- Selden and Widdowson. *Contemporary Critical Theory*. The UP of Kentucky, 1993.
- Selden, Raman. *The Theory of Criticism*. Longman, 1998.

## PATTERN OF ASSESSMENT:

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

- Section A – three out of five 100-word essays 3x5=15 marks
- Section B – two out of four 200-word essays 2x10=20 marks
- Section C – Analysis of an unseen passage 1x15=15 marks
- using any critical/theoretical perspective prescribed for study

**Other Components:** **Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Passage Analysis/Quiz/  
Panel Discussion/Group Presentation/Role-Play/Dramatization/Creative Writing

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

- Section A – Three 400-word essays with internal choice 3x15=45 marks
- Section B – Two out of four 500-word essay 2x20=40 marks
- Section C – Analysis of an unseen passage 1x15=15 marks
- using any critical/theoretical perspective prescribed for study

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INDIAN LITERATURES - II**

**CODE:19EL/MC/IL45**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To introduce students to various genres of literature from different regions across India
- To enable students to understand the historical, social, cultural and political milieu of post-independent India through its literature
- To sensitise them to the plurality of voices and experiences in post-Independent India

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- critically engage with Indian Literatures written in various languages from Independence to contemporary times
- relate post-Independence Indian Literatures to important historical, social, cultural and political developments of the times

**Unit 1 (13 Hours)**

**Indian Thought and Aesthetics**

1.1 Sharankumar Limbale

Dalit Literature and Aesthetics (from *Dalit Aesthetics* pp 103-121)

1.2 A K Ramanujan

Is there an Indian Way of Thinking?

1.3 Ranjit Hoskote

Reasons for Belonging

**Unit 2 (13 Hours)**

**1947 to 1980**

2.1 R K Narayan

Fifteen Years

2.2 Nissim Ezekiel

Background, Casually

2.3 Jayaprabha

Burn this Sari (from *The Oxford Anthology of Modern Indian Poetry*, ed. Vinay Dharwadkar and A K Ramanujan.)

2.4 Imtiaz Dharker

Purdah I (from *The Oxford Anthology of Modern Indian Poetry*, ed. Vinay Dharwadkar and A K Ramanujan)

2.5 Kamala Das

The Old Playhouse

2.6 Sujatha Bhatt

The Stare



<b>Unit 3</b>	<b>(20 Hours)</b>
<b>1980 to 2000</b>	
3.1 Kaifi Azmi	The Last Night (from <i>Selected Poems</i> , Kaifi Azmi, trans. Pavan K Varma)
3.2 Indira Goswami	Under the Shadow of Kamakhya
3.3 Amrita Pritam	The Annunciation (from <i>Selected Poems of Amrita Pritam</i> )
3.4 Na Muthuswamy	<i>Man in the Chair</i> (from <i>Four Tamil Plays</i> , ed. K Latha et al)
3.5 Urvashi Butalia	Honour (from <i>The Other Side of Silence</i> )
<b>Unit 4</b>	<b>(22 Hours)</b>
<b>2000 to the Present</b>	
4.1 Arundhati Roy	<i>The Ministry of Utmost Happiness</i>
4.2 Thangjam Ibopishak	The Land of the Half Humans (from <i>Anthology of Contemporary Poetry from the Northeast</i> )
4.3 Monalisa Changkija	Of a People Unanswered (from <i>Anthology of Contemporary Poetry from the Northeast</i> )
4.4 Arun Kolatkar	Jaratkaru Speaks to her Son (from <i>Sarpa Satra</i> pp 27-36)
4.5 Mahesh Dattani	<i>Final Solutions</i>
<b>Unit 5</b>	<b>(10 Hours)</b>
<b>Practical Application Tasks</b>	

### BOOKS FOR REFERENCE

- Bruce King, *Modern Indian Poetry in English*. Rev ed, Oxford UP, 2005.
- Ciocca, Rossella et al. *Indian Literature and the World: Multilingualism, Translation, and the Public Sphere*. Palgrave Macmillan, 2017.
- de Souza, Eunice. *Talking Poems: Conversations with Poets*. Oxford UP, 1999.
- Devy G N. *After Amnesia*. Orient Longman, 1994.
- Kakkar, Sudhir and Katharina Kakkar. *The Indians: Portrait of a People*. Penguin, 2007.
- Mehrotra, Arvind Krishna, ed. *An Illustrated History of Indian Literature in English*. Permanent Black, 2003.
- Mukherjee, Meenakshi. *The Twice-Born Fiction: Themes and Techniques of the Indian Novel in English*. Heinemann, 1971.
- Naik, M K. *A History of Indian Literature*. Sahitya Akademi, 2005.
- Radha Ramaswamy, "Towards a Multicultural Theatre: Mahesh Dattani and the Changing Audience for Contemporary Indian Drama in English," *Mahesh Dattani's Plays: Critical Perspectives*. Ed. Angelie Multani, Pencraft International, 2007.
- Ranjit Hoskote, "Introduction." *Reasons for Belonging: Fourteen Contemporary Indian Poets*. Ed. Hoskote, Penguin, 2004.
- Vinay Dharwadker, "Afterword: Modern Indian Poetry and its contexts," *The Oxford Anthology of Modern Indian Poetry*. OUP, 2008.

## **JOURNALS**

*Indian Literature*

*Kavya Bharathi*

*The Little Magazine*

*The Journal of Commonwealth Literature*

*Literary Criterion*

*Indian Journal of English Studies*

## **WEB RESOURCES**

[www.sawnet.com](http://www.sawnet.com)

[www.ntm.org.in](http://www.ntm.org.in)

[www.indianruminations.com](http://www.indianruminations.com)

[ccrtindia.gov.in/literaryarts.php](http://ccrtindia.gov.in/literaryarts.php)

## **PATTERN OF ASSESSMENT:**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A- two out of four 400-word essays

2x15=30 marks

Section B- one out of two 500-word essay

1x20=20 marks

### **Other Components:**

**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work-Passage Analysis etc/Quiz/Panel Discussion/Group Presentation/Role – Play/Dramatisation  
Creative Writing

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A- four out of six 400-word essays

4x15=60 marks

Section B- two out of four 500-word essays

2x20=40 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LITERATURE AND GENDER**

**CODE: 19EL/AC/GD45**

**CREDITS:5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to explore literary texts with reference to gender relations and gendered ways of thinking
- To help students understand gender construction and perpetuation in society
- To enable students to use critical concepts and theoretical frameworks to analyse literary texts and extend this understanding to real life contexts

**COURSE LEARNING OUTCOME**

On successful completion of the course, the students will be able to

- display a knowledge of the history of Women's Movements and the development of Gender and Queer Studies
- apply appropriate concepts and critical frameworks for a gendered reading of canonical texts as well as contemporary literature
- respond sensitively to the construction of gender in other media and real life contexts
- understand the intersectionality of race, class and gender
- extend the critical tools to their engagement with textual as well as real life contexts

<b>Unit 1</b>		<b>(10 Hours)</b>
<b>Introduction</b>		
1.1 Virginia Woolf	<i>A Room of One's Own</i>	
<b>Unit 2</b>		<b>(15 Hours)</b>
<b>Poetry and Fiction</b>		
2.1 Adrienne Rich	Snapshots of a Daughter-in-law	
2.2 Grace Nichols	The Fat Black Woman Goes Shopping	
2.3 Shashi Deshpande	<i>Small Remedies</i>	
<b>Unit 3</b>		<b>(12 Hours)</b>
<b>Autobiography</b>		
3.1 Revathi	<i>Truth About My Life</i>	
<b>Unit 4</b>		<b>(13 Hours)</b>
<b>Drama</b>		
4.1 Caryl Churchill	<i>Top Girls</i>	

**Unit 5**  
**Practical Application Tasks**

**(15 Hours)**

**BOOKS FOR REFERENCE**

- Bhasin, Kamla. *Understanding Gender*. Kali for Women, 2000.
- Bhuthalia, Urvashi. "Confrontation and Negotiation: The Women's Movement's Response to Violence Against Women," *The Politics of Gender, Identity and Social Equality in India*. Kali for Women, 2002. pp. 207-33.
- Cann, Victoria. *Girls Like This, Boys Like That: Understanding the (Re)Production of Gender in Contemporary Youth Cultures*. I.B Tauris, 2018.
- Foran, John. "Alternatives to Development: Of Love, Dreams and Revolution," *Feminist Futures: Reimagining Women Culture and Development*. Ed. Kumkum Bhavnani, John Foran and Priya Kurian, Zubaan, 2003. pp. 268-274.
- Mackinnon, Catherine. "Towards a Feminist theory of State" *Feminisms*. Ed. Sandra Kemp and Judith Squires, 1997, pp. 351-358.
- Mies, Maria and Vandana Shiva. *Ecofeminism*. Zed Books, 1993.
- Rich, Adrienne. "When We Dead Awaken: Writing as Re-vision." *Adrienne Rich's Poetry*, Ed. Barbara Charles and Albert Gelpi, Norton, 1995, pp. 90-98.
- Sen, Amartya. "Gender and Co-operative Conflicts." *Capabilities, Freedom and Equality*, Ed. Bina Agarwal, Jane Humphries and Ingrid Robeyns, 2006, pp. 458-84.

**JOURNALS**

- Indian Journal of Gender Studies (Sage)*  
*A Journal of Feminist Cultural Studies*  
*Feminist Review*  
*A Journal of Women Studies*

**WEBSITES**

- <http://www.feministreview.org/>  
<http://ftv.sagepub.com>  
<http://dukeupress.edu/cameraobscura>

**PATTERN OF ASSESSMENT:**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 200-word essays		2x10=20 marks
Section B – two out of four 400-word essays		2x15=30 marks
<b>Unit 1 is not for testing.</b>		

**Other Components:**

**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Passage Analysis/Quiz  
Panel Discussion/Group Presentation/Role-Play/Dramatisation

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A - two out four 500-word essays	2x20=40 marks
Section B - three out of five 400-word essays	3x15=45 marks
Section C - Passage analysis (from prescribed texts)	1x15=15 marks
<b>Unit 1 is not for testing.</b>	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH XII- ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WEST ASIAN LITERATURE**

**CODE:19EL/MC/WA55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To introduce students to writing from the West Asian region
- To acquaint them with the socio-political contexts that inform the content and the form of texts from the region
- To help them engage with issues related to the interplay of gender, religion and politics
- To sensitise students to the writing that emerges from conflict zones

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- engage with writing from conflict zones across the world
- identify and appreciate the dynamics between political, social and cultural contexts and literary texts
- display a sensitive understanding of the geo-political dynamics of the region
- empathise with the conditions of the refugee and the alienation of the exile
- respond ethically to the issues of gender, religion and environment that emerge from such texts

<b>Unit 1</b>	<b>Introduction</b>	<b>(10 Hours)</b>
	1.1 Margot Badran	Islamic Feminism: What's in a Name?
	1.2 Edward Said	Reflections on Exile
<b>Unit 2</b>	<b>2.1 Palestine</b>	<b>(23 Hours)</b>
	2.1.1 Mahmoud Darwish	The Passport
	2.1.2 Falastine Dwikat	Beit Byout (Play House)
		Alignment
	<b>2.2 Israel</b>	
	2.2.1 Yehuda Amichai	It's a Long Time Since Anybody's Asked
		Why I Am Big and Fat
	2.2.2 Amos Oz	<i>A Tale of Love and Darkness</i>
<b>Unit 3</b>	<b>3.1 Iran</b>	<b>(23 Hours)</b>
	3.1.1 Marjane Satrapi	<i>Persepolis</i>
	3.1.2 Goli Taraghi	A House in Heaven

3.2 Iraq	
3.2.1 Hassan Blasim	The Reality and the Record
3.2.2 Dunya Mikhail	I Was In a Hurry
3.3 Saudi Arabia	
3.3.1 Mohammad Hassan Alwan	Oil Field

**Unit 4 (12 Hours)**

4.1 Lebanon	
4.1.1 Emily Nasrallah	The Green Bird
4.2 Jordan	
4.2.1 Hisham Bustani	Freefall in a Shattered Mirror
4.3 Syria	
4.3.1 Adonis	The Days Underground

**Unit 5 Practical Application Tasks (Texts only for Continuous Assessment) (10 Hours)**

5.1. Palestine	
5.1.1 Liana Badr	Colours
5.2 Iran	
5.2.1 Forugh Farrokhzad	The Captive Face to Face with God
5.2.2 Behjat Malek-Kiani	O, Baba! O, Baba!
5.3 Iraq	
5.3.1 Mahdi Isa al-saqr	Morning Exercises
5.3.2 Dunya Mikhail	Excerpt from Diary of a Wave Outside the Sea
5.4 Jordan	
5.4.1 Amjed Nasser	Seven Bridges
5.4.2 Ibrahim Nasrallah	Days Homeland
5.5 Israel	
5.5.1 David Grossman	Horse Walks into a Bar

**BOOKS FOR REFERENCE**

- Amiry, Suad. *Menopausal Palestine: Women at the Edge*. Women Unlimited, 2010.
- Ansari, Hamid. *Travelling through Conflict: Essays on the politics of West Asia*. Pearson, 2008.
- Best, Anthony et al. *International History of the Twentieth Century and Beyond*. Routledge, 2008.
- Cooke, Miriam. "Talking Democracy". *Women and the War Story*. University of California, 1996.
- Dabashi, Hamid. *The Arab Spring: The End of Postcolonialism*. Zed Books, 2012.
- Dawisha, Adeed. *Arab Nationalism in the Twentieth Century: From Triumph to Despair*. Princeton UP, 2016.
- Keylor, William. *The Twentieth Century World: An International History*. OUP, 1984.
- Notes on West Asia*. Department of English, Stella Maris College, 2007.
- Said, Edward W. *Reflections of Exile and Other Literary and Cultural Essays*. Penguin Books, 2001.
- Singh, Karan. *History, Culture and Society in India and West Asia*. Shipra, 2003.
- Sisodia, N. S. *West Asia in Turmoil*. Academic Foundation, 2007.

## JOURNALS

*IJAPS - International Journal of Asia Pacific Studies*

*Wasafiri*

## WEB RESOURCES

[electronicintifada.net/](http://electronicintifada.net/)

Fayad, Mona. "Reinscribing Identity: Nation and Community in Arab Women's Writing". *College Literature*, vol. 22, no. 1, Feb. 1995, pp. 147-60. John Hopkins University Press. [www.jstor.org/stable/25112170](http://www.jstor.org/stable/25112170).

## PATTERN OF ASSESSMENT:

### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A –two out of four 250-word essays

2x10=20 marks

Section B – one out of three 600-word essays

1x20=20 marks

Section C – Passage analysis from units 2, 3 and 4

1x10=10 marks

**Units 1 & 5 not for testing**

### Other Components

**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis etc/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation Creative Writing

### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A – four out of six 250-word essays

4x10=40 marks

Section B – two out of four 600-word essays

2x20=40 marks

Section C – Passage Analysis from units 2, 3 and 4

1x20=20 marks

**Units 1 & 5 not for testing**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A DEGREE: BRANCH XII- ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LITERATURES OF EAST AND SOUTH ASIA**

**CODE:19EL/MC/ES55**

**CREDITS:5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To introduce students to a selection of literatures from the East Asian and South Asian region
- To train students to explore the similarities and differences across literatures and cultures in this region
- To equip students with the analytical tools to deconstruct the geo-political contexts of the region through literature
- To help them engage with issues related to the interplay of gender, caste, class, religion and politics
- To sensitise students to the writing that emerges from conflict zones

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- discern the similarities and differences among literatures of East and South Asian region
- critically engage with representative texts from these regions addressing the universal and unique factors of social reality and cultural traditions exemplified in other media of representations as well
- engage in dialogue and discussion across cultures with sensitivity and critical appreciation

**Unit 1**

**Pakistan, Afghanistan & Tibet**

**(25 Hours)**

1.1 Sadat Hasan Manto

Khol Do

1.2 Khaled Hosseini

*The Kite Runner*

1.3 Tenzin Tsundue

Refugee

**Unit 2**

**Bangladesh, Myanmar & Vietnam**

**(10 Hours)**

2.1 Khaleda Salahuddin

Relief Camp

2.2 Khin Myo Chit

Her Infinite Variety

2.3 Tran Khac

An Altar for Young Gion



<b>Unit 3</b>	<b>Sri Lanka, Malaysia &amp; Indonesia</b>		<b>(20 Hours)</b>
	3.1 Shanmugalingam	<i>Land of our Parents</i>	
	3.2 Muhammad Haji Salleh	<i>The Teller of Tales</i>	
	3.3 Titis Basino	<i>Her</i>	
<b>Unit 4</b>	<b>China, Japan &amp; Korea</b>		<b>(13 Hours)</b>
	4.1 Xue Mo	<i>Old Man Xingjang</i>	
	4.2 An Su-Gil	<i>The Green Chrysanthemum</i>	
	4.3 Anonymous	<i>Hagoromo (The Feather Mantle)</i> (from <i>Nō Plays</i> ed. & trans. Royall Tyler)	
<b>Unit 5</b>	<b>Practical Application Tasks</b>		<b>(10 Hours)</b>
	Writings from Nepal, Mongolia, Thailand, Singapore, Philippines, Mauritius		

## BOOKS FOR REFERENCE

- Bhasin, Kamala, et al. *Against All Odds*. Kali for Women, 1994.
- Bhuthalia, Urvashi. *The Other Side of Silence*. Penguin, 1998.
- de Silva, K. M. "Language, Ethnicity and Politics in South Asia". *Ethnic Studies Report*. Vol. XIV No.1, January 1996. International Centre for Ethnic Studies, 1996. pp. 1-10.
- Goonasekere, Savitri, ed. *Violence, Law and Women's Rights in South Asia*. Sage Publications, 2004.
- Hasan, Mushirul. *Inventing Boundaries*. Oxford University Press, 2000. Print.
- Nongkynrih, Kynpham Sing and Ngangom, Robin S. ed. *Anthology of Contemporary Poetry from the North East*. NEHU Publications, 2003.
- Riaz, Ali. *Religion and Politics in South Asia*. Routledge, 2010.
- Shamsie, Muneza, ed. *And the World Changed*. Women Unlimited, 2005.
- Shanmugalingam. *Three Plays*. Trans. S. Pathmanathan. Kumaran Book House, 2007.
- Tickell, Alex. editor. *South-Asian Fiction in English: Contemporary Transformations*. Springer, 2016.
- Trivedi, Harish. "South Asian Literature: Reflections in a Confluence." *Indian Literature*. pp. 186-194.
- Wijesinha Rajiva, ed. *Bridging Connections: An Anthology of Sri Lankan Short Stories*. National Book Trust, 2007.
- Zaman, Niaz and Azim, Fidous. *Galpa: Short Stories by Women from Bangladesh*. Ed. Stanza, 2007.

**PATTERN OF ASSESSMENT:****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – three out of five 125-word essays

3x5=15 marks

Section B – two out of four 250-word essays

2x10=20 marks

Section C – Passage analysis from prescribed texts

1x15=15 marks

**Other Components:****Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –  
Passage Analysis etc/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation  
Creative Writing

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – three out of five 500-word essays

3x15 = 45 marks

Section B – two out of four 600-word essays

2x20= 40 marks

Section C – Passage analysis from prescribed texts

1x15=15 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B. A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BRITISH LITERATURE: SIXTEENTH CENTURY TO TWENTY FIRST CENTURY**

**CODE:19EL/MC/BL55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To equip students with the critical skills to engage with the British literary tradition
- To train them to interpret and interrogate texts with respect to the socio-cultural and political background of the times
- To introduce students to the complexities of literary production in the context of the changing socio-political milieu of Britain

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of the diverse socio-cultural aspects and multiplicities of expression in British Literature
- display analytical skills appropriate to reading British Literature as an outcome of its traditions and cultures
- display adequate knowledge and understanding of the trajectory of British Literature
- engage with the dynamics of narratives in the context of the changing socio-political milieu of Britain
- engage with literary forms and analyse themes of major literary periods from the sixteenth to the twenty-first centuries

<b>Unit 1</b>		
<b>Sixteenth and Seventeenth Centuries</b>		<b>(10 Hours)</b>
1.1 Edmund Spenser	Sonnet 75 (from <i>Amoretti</i> )	
1.2 Francis Bacon	Of Friendship	
1.3 George Herbert	The Collar	
<b>Unit 2</b>		
<b>Eighteenth Century</b>		<b>(11 Hours)</b>
2.1 Daniel Defoe	<i>Robinson Crusoe</i>	
2.2 Alexander Pope	<i>The Rape of the Lock</i>	
2.3 William Blake	The Chimney Sweeper	
<b>Unit 3</b>		
<b>Nineteenth Century</b>		<b>(13 Hours)</b>
3.1 William Wordsworth	Upon Westminster Bridge	
3.2 Charlotte Bronte	<i>Jane Eyre</i>	
3.3 G. M. Hopkins	God's Grandeur	

**Unit 4**  
**Twentieth and Twenty-first Centuries** (19 Hours)

4.1 J. M. Synge	<i>Riders to the Sea</i>
4.2 D. H. Lawrence	<i>Snake</i>
4.3 Harold Pinter	<i>The Birthday Party</i>
4.4 Julian Barnes	<i>The Sense of an Ending</i>
4.5 Ian Russell McEwan	<i>On Chesil Beach</i>

**Unit 5**  
**Practical Application Tasks** (25 Hours)  
 Group Discussions  
 Seminars  
 Analysis

**BOOKS FOR REFERENCE**

Alexander, Michael. *A History of English Literature*. Palgrave, 2000. .  
 Blackwell, Wiley. *Reading the Eighteenth Century Novel*. Wiley Blackwell, 2017.  
 Bowra, C. M. *The Romantic Imagination*. Oxford University Press, 1973.  
 Esslin, Martin. *Theatre of the Absurd*. Penguin, 1991.  
 Gilbert, Sandra and Susan Gubar. *Mad Woman in the Attic: The Woman Writer and the Nineteenth Century Literary Imagination*. 1979. 2<sup>nd</sup> ed. Yale University Press, 1986. .  
 Lodge, David. *The Modes of Modern Writing*. Edward Publishers, 1977.  
 Martines, Lauro. *Society and History in English Renaissance Verse*. Basil Blackwell, 1985.  
 Mathews, Greg J. *Literary Research and Irish Literature*. Scarecrow Press, 2008.  
 Prince, Martin. "The Restoration and the Eighteenth Century." *The Restoration and the Eighteenth Century*. Oxford University Press, 1973.  
 Steane, J. B. *Marlow: A Critical Study*. University Press, 1964.  
 Thwaite, Anthony. *Poetry Today: A Critical Guide to British Poetry*. Longman Group, 1985.

**JOURNALS**

*Journal of Commonwealth Literature*  
*ARIEL: A Review of International English Literature*  
*Wasafiri*  
*Postcolonial Studies*

**WEBSITES**

<http://www.bartleby.com/224/index.html#9>  
<http://www.janeausten.org>  
<http://www.poetryfoundation.org/poems&poets>  
<http://criticalflame.org/>  
<https://www.aprweb.org/>

**PATTERN OF ASSESSMENT:**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A –two out of four 250-word essays		2x10=20 marks
Section B – two out of four 600-word essays		2x15=30 marks
<b>Other Components:</b>	<b>Total Marks: 50</b>	
Assignment/Seminar/Presentation/Open Book Test/Class Assignment – Passage Analysis etc. Quiz/Panel Discussion/Group Presentation/Dramatisation		
<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out of six 250-word essays		4x10=40 marks
Section B – three out of six 600-word essays		3x20=60 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Departments of English and Fine Arts  
to the students of B.A. English Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WRITING AND ART FOR PICTURE BOOKS**

**CODE: 19ID/IC/WA55**

**CREDITS: 5**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce the students to theoretical concepts in the production of Picturebooks
- To help students appreciate the diversity of themes and presentation in Picturebooks
- To visualise and develop illustrations for Picturebooks
- To develop illustration skills using varied media
- To train them to produce a picture book using appropriate word choice, dialogue, narration, story structure, layout, images and colours

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- read and respond aesthetically and critically to a variety of Picturebooks
- understand the dynamics of Picturebook building
- explore different media and styles of illustration for Picturebooks
- ideate and develop a strategy using effective language and art for a Picturebook
- build a Picturebook integrating illustrations and text

**Unit 1**

**(12 hrs)**

**Introduction to Picture Books**

- 1.1 Kinds of Picture Books : board books, concept books, novelty books, Picturebooks
- 1.2 History of Picture Book Illustration—an overview
- 1.3 Picturebooks – definition, features
- 1.4 Kinds of Picturebooks : wordless Picturebooks, Picturebooks for the differently abled, postmodern Picturebooks

**Unit 2**

**(15 hrs)**

**Picturebook Building**

- 2.1 Interplay of Text, Design and Illustration
- 2.2 Picture-Text Dynamics
- 2.3 Kinds of relationship between pictures and written text
- 2.4 Types of writing for Picturebooks : Prose and Verse, Cumulative Tales, Nonsense Verse, Metafiction

**Unit 3**

**(12 hrs)**

**Media Exploration and Techniques**

- 3.1 Drawing Media
- 3.2 Painting Media
- 3.3 Mixed Media

**Unit 4** **(19 hrs)**  
**Narrative Strategies**

- 4.1 Narrative Perspectives- Verbal and Visual
- 4.2 Intertextuality- Verbal and Visual
- 4.3 Intraiconic Texts
- 4.4 Sylleptic Texts/ Running Stories

**Unit 5** **(20 hrs)**  
**Illustrating a Picturebook**

- 5.1 Character Development
- 5.2 Thumbnails and Concept Sketches
- 5.3 Composition and Layout

**BOOKS FOR REFERENCE**

Bossert, Jill. *Children's Book Illustration: Step by Step Techniques*. RotoVision, 1998.  
Butler, Catherine, and Kimberley Reynolds, eds. *Modern Children's Literature: An Introduction*. Palgrave, 2005.  
Cullingford, Cedric. *Children's literature and its Effects: The Formative Years*. Cassel, 1998.  
Flieshman, Michael. *Exploring Illustration*. Thomsan Delmar Learning, 2004.  
Harrison, Hazel. *The Encyclopedia of Drawing Techniques*. Search, 2004.  
Haviland, Virginia, ed. *Children and Literature: Views and Reviews*. Bodley Head, 1973.  
Kakar, Sudhir. *Indian Chidhood: Cultural Ideals and Social Reality*. OUP, 1979.  
Lewis, David. *Reading Contemporary Picturebooks: Picturing Text*. Routledge, 2001.  
Nikolajeva, Maria, and Carole Scott. *How Picturebooks Work*. Routledge, 2001.  
Slade, Catharine. *The Encyclopedia of Illustration Techniques*. Quarto, 1997.

**PATTERN OF ASSESSMENT**

**There will be no End Semester Examination**

**Continuous Assessment:** **Total Marks: 50**

Analysis of a Picturebook (Department of English)	25 marks
Ideation and Development of Illustration (Department of Fine Arts)	25 marks

<b>Continuous Assessment Test</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – Short essays- four out of six		4x5=20 marks
Section B – Analysis - Picturebook (extract)		1x15=15 marks
Section C –Illustration – Ideation/Techniques		1x15=15 marks

<b>End Semester Evaluation by both course teachers:</b>	<b>Total Marks: 100</b>
Creation of a Picturebook	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Departments of English and Fine Arts  
to the students of Bachelor of Visual Arts Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COLONIAL ART AND LITERATURE**

**CODE: 19ID/IC/CA55**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce students to painting and architecture of colonial India
- To introduce them to writing from and about colonial India
- To train them to critically analyse colonial literature using the framework of Postcolonialism

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand how colonialism changed the nature of painting in India
- understand how colonialism changed the nature of architecture in India
- identify colonial influence in the architecture of the British Raj
- read and respond aesthetically to literature from and about the colonial period
- engage with colonial literature critically and identify the discourses of power that informed their production and reception

**Unit 1**

**(13 Hours)**

**Introduction**

- 1.1 Introduction to Colonial Art and Architecture
  - 1.1.1 East India Company
  - 1.1.2 European Academic Naturalism
- 1.2 Introduction to Colonial Literature
  - 1.2.1 Occident-Orient
  - 1.2.2 Mimicry, Ambivalence
  - 1.2.3 Diaspora, Identity, Belonging
  - 1.2.4 Historiography – traditional, postmodern

**Unit 2**

**(15 Hours)**

**Painting the Raj**

- 2.1 Company painting
- 2.2 British Artists in India
  - 2.2.1 Amateur artists: Sir Charles D'Oyly, Colin MacKenzie
  - 2.2.2 Official and Professional artists: William Hodges, Thomas and William Daniell, Tilly Kettle, Johan Zoffany, George Chinnery
- 2.3 Establishment of Art Schools and Societies
- 2.4 Raja Ravi Varma
- 2.5 Bazaar art
  - 2.5.1 Kalighat painting
  - 2.5.2 Popular prints

**Unit 3 (20 Hours)**

**Building the Raj**

- 3.1 Colonial beginnings: Fort St George and St Mary's Church, Chennai
- 3.2 Indo-Saracenic Style: Victoria Terminus (Chhatrapati Shivaji Terminus) Mumbai; University Senate House, Chennai; Madras High Court, Chennai
- 3.3 Neo-Classical Style: Viceroy's House (Raj Bhavan), Kolkata; Victoria Memorial Hall, Kolkata; Viceroy's Palace (Rashtrapati Bhavan), New Delhi

**Unit 4 (20 Hours)**

**Writing the Raj**

- 4.1 Anna Maria: Adieu to India
- 4.2 Emily Eden: *Up the Country* (Chapter III)
- 4.3 George Orwell: Shooting an Elephant
- 4.4 Rudyard Kipling: The Ballad of the East and West

**Unit 5 (10 Hours)**

**Rewriting the Raj**

- 5.1 William Dalrymple: *White Mughals*

**BOOKS FOR REFERENCE**

- Archer, Mildred. *British Drawings in the India Office Library*, 2 volumes. HMSO, 1969.
- Archer, Mildred. *Natural History Drawings in the India Office Library*, 2 volumes. HMSO, 1962.
- Ashcroft, Bill et al. *Key Concepts in Post-Colonial Studies*. Routledge, 1998.
- Chawla, Rupika. *Raja Ravi Varma: Painter of Colonial India*. Mapin, 2010.
- Clarke, Robert, editor. *The Cambridge Companion to Postcolonial Travel Writing*. Cambridge UP, 2018.
- Edwards, Justin D., and Rune Graulund, editors. *Postcolonial Travel Writing: Critical Explorations*. Palgrave Macmillan, 2011.
- Irving, Robert Grant. *Indian Summer: Lutyens, Baker and Imperial Delhi*. Yale University, 1981.
- Jain, Jyotindra. *Indian Popular Culture: The Conquest of the World as Picture*, 2<sup>nd</sup> edition, Apeejay Press, 2011.
- Kalpana, K. and Frank Schiffer. *Madras: The Architectural Heritage* (INTACH Guide). EastWest Books, 2003.
- Loomba, Ania. *Colonialism/Postcolonialism*. Routledge, 1998.
- Mehrotra, Arvind Krishna. *A History of Indian Literature in English*. Hurst & Co., 2003.
- Metcalf, Thomas, R. *An Imperial Vision: Indian Architecture and Britain's Raj*. Faber and Faber, 1989.
- Mitter, Partha. *Art and Nationalism in Colonial India, 1850-1922*. Cambridge University Press, 1994.
- Mohanty, Sachidananda, ed. *Travel Writing and the Empire*. Katha, 2003.
- Moore-Gilbert, Bart J., ed. *Writing India, 1757-1990: The Literature of British India*. Manchester U P, 1986.



Morris, Jan, Simon Winchester. *Stones of Empire: The Buildings of the Raj*. Oxford University Press, 2005.

Muthiah, S. *Madras Rediscovered*, 6<sup>th</sup> edition, Westland, 2008.

Neumayer, Erwin, and Christine Schelberger. *Popular Indian Art: Raja Ravi Varma and the Printed Gods of India*. Oxford University Press, 2003.

Neumayer, Erwin, Christine Schelberger, editors. *Raja Ravi Varma: Portrait of an Artist, The Diary of C Raja Raja Varma*. Oxford University Press, 2005.

Said, Edward. *Orientalism*. Pantheon, 1978.

Thomson, Carl. *Travel Writing*. Routledge, 2011.

### Online resources

<http://www.victorianweb.org>

## PATTERN OF ASSESSMENT

### Continuous Assessment

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

#### Section A

- |                               |                   |
|-------------------------------|-------------------|
| a. One out of three questions | 1 x 10 = 10 marks |
| b. One out of two questions   | 1 x 15 = 15 marks |

#### Section B

- |                               |                   |
|-------------------------------|-------------------|
| a. One out of three questions | 1 x 10 = 10 marks |
| b. One out of two questions   | 1 x 15 = 15 marks |

**Other Components: Total Marks: 50 2 x 25 = 50 marks**

Assignment, seminar, presentation, take home test, open book test, scheduled class work, passage analysis, quiz, panel discussion, group presentation

**End Semester Examination: Total Marks: 100 Duration: 3 hours**

#### Section A

- |                                |                   |
|--------------------------------|-------------------|
| a. Three out of five questions | 3 x 10 = 30 marks |
| b. One out of two questions    | 1 x 20 = 20 marks |

#### Section B

- |                                |                   |
|--------------------------------|-------------------|
| c. Three out of five questions | 3 x 10 = 30 marks |
| d. One out of two questions    | 1 x 20 = 20 marks |

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – English**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**AMERICAN LITERATURE**

**CODE:19EL/MC/AL65**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To train students to identify, understand and appreciate the trajectory of the evolution of American Literature
- To introduce students to the diverse socio-cultural aspects, and multiplicities of expression in American Literature
- To help students understand American Literature as an outcome of its traditions and cultures
- To equip students with the requisite technical and ideological tools to interrogate literary expressions produced by the different ethnic communities of America
- To train students to understand and deconstruct the notion of American nationhood

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- display adequate knowledge and understanding of the trajectory of the evolution of American Literature
- demonstrate an understanding of the diverse socio-cultural aspects and multiplicities of expression in American Literature
- display analytical skills appropriate to reading American Literature as an outcome of its traditions and cultures
- critically analyse and interrogate literary expressions produced by the different ethnic communities of America
- deconstruct the notion of American nationhood through a critical engagement with literary texts.

<b>Unit 1</b>		
<b>Prose</b>		<b>(10 Hours)</b>
1.1. Emerson	<i>Self-Reliance</i>	
<b>Unit 2</b>		
<b>Poetry</b>		<b>(20 Hours)</b>
2.1. Robert Frost	Fire and Ice Birches	
2.2. e.e. cummings	next to of course god america	
2.3. Langston Hughes	The Negro Speaks of Rivers Dream Deferred	
2.4. Joy Harjo	Equinox	
2.5. Nikki Giovanni	Nikki-Rosa	
2.6. Elizabeth Bishop	The Fish	

<b>Unit 3</b>		
<b>Drama</b>		<b>(15 Hours)</b>
3.1. Arthur Miller	<i>Death of a Salesman</i>	
<b>Unit 4</b>		
<b>Fiction</b>		<b>(25 Hours)</b>
4.1. Mark Twain	<i>The Adventures of Huckleberry Finn</i>	
4.2. Hemingway	<i>The Old Man and the Sea</i>	
4.3. Amy Tan	<i>Two Kinds</i>	
<b>Unit 5</b>		
<b>Practical Application Tasks</b>		<b>(8 Hours)</b>

### BOOKS FOR REFERENCE

Bigsby, C.S. *A Critical Introduction to Twentieth Century American Drama Vol II*. Cambridge University Press, 1984.

Hoffman, Daniel. *Harvard Guide to American Writing*. Harvard University Press, 1979

Jarret, Gene Andrew. *The Wiley-Blackwell Anthology of African American Literature: Vol I and II*. Wiley Blackwell, 2014.

---. *Companion to African American Literature*. Wiley Blackwell, 2013.

Miller, Arthur. "Introduction", *Collected Plays of Arthur Miller*. Allied Publishers, 1973.

Mitchell, Angeline. *The Cambridge Companion to African American Women's Literature*. Cambridge University Press, 2009.

Perkins, David. *Modern American Poetry 1945-2000 –An Introduction*. Blackwell Publishers, 2006.

Porter, Joy and Kenneth M. Roemer. *The Cambridge Companion to Native American Literature*. Cambridge University Press, 2005.

Wagner-Martin, Linda. *History of American Literature*. Wiley Blackwell, 2016.

### JOURNALS

[americanliterature.dukejournals.org/](http://americanliterature.dukejournals.org/)

### WEBSITES

[www.wsu.edu/~campbelld/amlit/sites.htm](http://www.wsu.edu/~campbelld/amlit/sites.htm)

[www.library.rochester.edu/subject/.../web-resources](http://www.library.rochester.edu/subject/.../web-resources)

[americanliteratureassociation.org](http://americanliteratureassociation.org)

[www.lang.nagoya-u.ac.jp/~matsuoka/AmeLit-G.html](http://www.lang.nagoya-u.ac.jp/~matsuoka/AmeLit-G.html)

### PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 250-word essays		2x10=20 marks
Section B – two out of four 500-word essays		2x15=30 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis etc/Quiz/Panel Discussion/Group Presentation	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out of six 250-word essays		4x10=40 marks
Section B – three out of six 600-word essays		3x20=60 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LITERATURES OF AUSTRALIA, CANADA AND NEW ZEALAND**

**CODE:19EL/MC/CA65**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To help develop an awareness of issues—social, economic, political, and cultural—of Canada, Australia and New Zealand
- To explore modes of writing and reading that interrogate the histories and the presence of colonial influence in these postcolonial locations
- To acquaint students with discourses of racial and ethnic differences and encourage dialogue on conditions of marginality and plurality

**COURSE LEARNING OUTCOMES**

On successful completion of the course students will be able to

- engage with historical discourses of race and ethnicity in a variety of colonial and postcolonial contexts
- identify how literature shapes our ideas about society and social identities in interaction with other discourses
- relate politically and aesthetically to literatures of ethnic communities like the Maori, Aboriginal and the First Nation
- engage with the significant presence of Nature in the writing from these regions
- respond to the social, political and cultural issues that inform texts that emerge from these locations

**Unit 1**

**Introduction-Key Concepts**

**(10 Hours)**

1.1 Ashcroft et al.

*The Empire Writes Back*

1.2 Padmini Mongia, Ed

*Contemporary Post-Colonial Theory: A Reader*

1.3 Ashcroft et al, Ed

*The Post Colonial Studies Reader*

**Unit 2**

**Canada**

**(20 Hours)**

2.1 Alice Munro

*A Wilderness Station*

2.2 Margaret Atwood

*Wilderness Tips*

2.3 Jeanette.C.Armstrong

*Indian Woman*

2.4 George Ryga

*The Ecstasy of Rita Joe*

2.5 Thomas King

*Truth and Bright Water*

<b>Unit 3</b>		
<b>Australia</b>		<b>(20 Hours)</b>
3.1 Lionel Fogarty	Remember Something like This	
3.2 Philip Mead	Melbourne or the Bush	
3.3 Jack Davis	<i>No Sugar</i>	
3.4 Peter Carey	American Dreams	
3.5 Oodgeroo Noonuccal (Kath Walker)	Integration – Yes!	
<b>Unit 4</b>		
<b>New Zealand</b>		<b>(20 Hours)</b>
4.1 Maurice Shadbolt	The Room	
4.2 Witi Ihimaera	<i>The Whale Rider</i>	
4.3 Vincent O’Sullivan	The Children	
<b>Unit 5</b>		
<b>Practical Application Tasks</b>		<b>(8 Hours)</b>

### BOOKS FOR REFERENCE

- Barker, Francis. et al. *Colonial Discourse, Post Colonial Theory*. Manchester UP, 1994.
- Bayard, Caroline. *New Poetics in Canada and Quebec: From Concretism to Post-Modernism*. University of Toronto Press, 1989.
- Bennett, Bruce. *Sense of Exile*. Western Australia: Centre for Studies in Australian Literature, 1988.
- Birns, Nicholas and Rebecca McNeer eds. *A Companion to Australian Literature since 1900*. Camden House, 2010.
- Howells, Coral Ann. *The Cambridge Companion to Margaret Atwood*. CUP, 2006.
- Irvine, Lorna L. *Sub/Version: Canadian Fiction by Women*. ECW Press, 1986.
- Juneja, Om P. *The Post Colonial Novel - Narratives of Colonial Consciousness*. Creation, 1995.
- King, Bruce. *New National and Post-colonial Literatures*. Clarendon Press, 1996.
- Kröller, Eva-Marie. *The Cambridge Companion to Canadian Literature*. CUP, 2017.
- Kudchedkar, Shirin and Jameela Begum, eds. *Canadian Voices*. Pencraft, 1996.
- Pandey, Sudhakar. *Perspectives on Canadian Fiction*. Prestige Books, 1994.
- Ray, Arthur J. *Aboriginal Rights Claims and the Making and Remaking of History*. McGill-Queen's Native and Northern Series, 2016.
- Ruddell, Nancy. *Raven's Village: The Myths, Arts and Traditions of Native People from the Pacific Northwest Coast*. Canadian Museum of Civilization, 1995.
- Schwarz, Henry and Sangeeta Ray. *A Companion to Postcolonial Studies*. Blackwell, 2000.
- Stafford, Jane and Mark Williams, ed. *Anthology of New Zealand Literature*. Auckland UP, 2013.
- Soyinka, Wole. *Art Dialogue and Outrage: Essays on Literature and Culture*. Methuen, 1993.
- Walder, Dennis. *Post-Colonial Literature in English, History, Language and Theory*. Blackwell, 1998.
- Wheeler, Belinda. *A Companion to Australian Aboriginal Literature*. Camden House, 2015.
- Wilde, William H. and Joy Hooton, eds. *The Oxford Companion to Australian Literature*. OUP 1995.
- Young, Robert J.C. *Postcolonialism: An Historical Introduction*. Blackwell, 2001.

## **JOURNALS**

*Journal of Commonwealth Literature*

*ARIEL: A Review of International English Literature*

*Wasafiri*

*Postcolonial Studies*

<http://criticalflame.org/>

<https://www.aprweb.org/>

### **PATTERN OF ASSESSMENT:**

#### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – one out of two 500-word essays

1x15 = 15 marks

Section B – one out of two 600-word essays

1x20 = 20 marks

Section C – Passage analysis from units 2/3/4

1x15=15marks

#### **Other Components:**

**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –

Passage Analysis etc/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation

Creative Writing

#### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – three out of five 500-word essays

3x15 = 45 marks

Section B – two out of four 600-word essays

2x20= 40 marks

Section C – Passage analysis from units 2/3/4

1x15=15marks

**Unit 1 is not for testing.**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**AFRICAN AND CARIBBEAN LITERATURES**

**CODE:19EL/MC/AC65**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To introduce students to the political, social and cultural trends in Africa and the Caribbean Islands
- To familiarise students with the most significant writers and their texts from these areas
- To acquaint students with the ways in which writers from these areas have engaged with the social, cultural and political conditions and changes in their countries

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- critically examine the relationships between literary works and the social and cultural trends in select countries from Africa and the Caribbean islands
- critically examine how significant writers from the region have engaged with the colonial past of their nations and the contemporary implications of this past
- critically examine how significant writers from the region have engaged with current political issues in their countries
- study significant texts by important writers produced in these areas using methods of postcolonialism, neocolonialism and indigenous theories/concepts
- place the select literary texts within the larger national, cultural and ethnic contexts

**Unit 1**

**Nigeria and Ghana**

**(20 Hours)**

1.1 Chinua Achebe

*Things Fall Apart*

1.2 Wole Soyinka

*The Lion and the Jewel*

1.3 Ama Ata Aidoo

*Anowa*

1.4 Chimamanda Adiche

The Thing Around Your Neck (from *The Thing Around Your Neck*)

**Unit 2**

**Egypt and Senegal**

**(10 Hours)**

2.1 Ahdaf Soueif

*Cairo: Memoir of a City Transformed*

2.2 Leopold Senghor

*Black Woman*

**Unit 3**

**Malawi and South Africa**

**(13 Hours)**

3.1 David Rubadiri

*Stanley Meets Mutesa*

3.2 Makhosazana Xaba

*Running (From Dinaane Short Stories by South African Women)*

<b>Unit 4</b>	<b>The Caribbean</b>	<b>(25 Hours)</b>
4.1 Edward Kamau Brathwaite	Limbo	
4.2 Derek Walcott	Crusoe's Island	
4.3 Cyril Dabydeen	Dubious Foreigner	
4.4 Jean Rhys	<i>Wide Sargasso Sea</i>	
4.5 David Dabydeen	The Counting House (from <i>Counting House</i> )	

<b>Unit 5</b>	<b>Practical Application Tasks</b>	<b>(10 Hours)</b>
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### BOOKS FOR REFERENCE

- Ashcroft Bill, Gareth Griffiths and Helen Tiffin. "Introduction." *The Empire Writes Back: Theory and Practice in Post-Colonial Literatures*. Routledge, 2006.
- Castle, Gregory. *Postcolonial Discourses: An Anthology*. Blackwell, 2001.
- Donnell, Alison and Sarah Lawson Welsh. *The Routledge Reader in Caribbean Literature*. Routledge, 2005.
- Fanon, Frantz, Trans, Constance Farrington *Black Skin, White Masks*. Grove Press, 1967.
- Gyasi, Yaa. *Home Going*. Viking, 2016.
- Ledent, Benedicte et al. *Madness in Anglophone Caribbean Literature*. Palgrave Macmillan, 2018.
- Newell, Stephanie. *West African Literatures: Ways of Reading*. OUP, 2006.
- O'Connor, Mark. Ed. *Two Centuries of Australian Poetry*. 2<sup>nd</sup> Edition, OUP, 2000.
- Schwarz, Henry and Sangeeta Ray. *A Companion to Post Colonial Studies*. Blackwell Publishing, 2005.
- Stuart Hall. "Cultural Identity and Diaspora" *The Post-Colonial Studies Reader*. 2nd ed. Ed. Bill Ashcroft, Gareth Griffiths and Helen Tiffin. Routledge, 2006. pp 199-202.
- Wa Thiong' O, Ngugi. *Decolonising the Mind: The Politics of Language in African Literature*. Heinemann Educational, 1986.

### JOURNALS

*Journal of Commonwealth Literature*  
*ARIEL: A Review of International English Literature*  
*Wasafiri*  
*Postcolonial Studies*

### WEB RESOURCES

<http://universitypublishingonline.org/cambridge/histories>  
<http://www.pmc.edu/african-american--caribbean-lit-subject-guide>

### PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – two out of four 250-word essays		2x10=20 marks
Section B – two out of four 500-word essays		2x15=30 marks
<b>Other Components:</b>	<b>Total Marks: 50</b>	
Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis etc/Quiz/Panel Discussion/Group Presentation/Role-Play/Dramatisation Creative Writing		
<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – four out of six 250-word essays		4x10 =40 marks
Section B – three out of six 600-word essays		3x20= 60 marks



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self (10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family (17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ENGLISH LANGUAGE TEACHING**

**CODE: 19EL/ME/LT45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to distinguish between language acquisition and language learning
- To acquaint the students with the psychology of language learning
- To equip students with the skills to identify the methods and approaches in language teaching.
- To train them to prepare materials for teaching the four skills of language.
- To train students in assessing the needs of learners and in preparing lesson plans for different levels of learners
- To familiarise students with the different components of curriculum
- To help students gain an understanding of the principles of language testing and the different kinds of tests

**COURSE LEARNING OUTCOMES**

On successful completion of the course the student will be able to

- gauge and use effectively the strategies identified by psychology with reference to language learning
- demonstrate awareness of appropriate teaching strategies
- demonstrate knowledge about language skills, and the different tasks that could be used to train learners in the use of the language
- assess learner needs, and plan and teach lessons which take into account learners' backgrounds, and needs
- plan and prepare lessons designed to develop their learners' overall language competence
- distinguish between the various kinds of tests and their purpose

**Unit 1**

**(10 Hours)**

**Language Acquisition**

**1.1 First Language Acquisition of the Child**

**1.1.1 Lateralisation of the Brain**

**1.1.2 Learning by Imitation**

**1.1.3 Language Acquisition Devices**

**1.1.4 Generalisation**

**1.2 Second Language Learning of the Adult**

**1.2.1 Mother tongue Interference**

**1.2.2 Psychological and Sociological Factors Influencing  
Second Language Learning**

**Unit 2 (15 Hours)**

**Psychology of Learning**

2.1 Behaviourism

- 2.1.1 Behaviourist Psychology
- 2.1.2 Stimulus–Response Learning
- 2.1.3 Reinforcement

2.2 Cognitive Learning

- 2.2.1 Cognitive Structure
- 2.2.2 Concept Formation
- 2.2.3 Theory of Subsuming
- 2.2.4 Theory of Forgetting
- 2.2.5 Bloom’s Taxonomy

2.3 Humanistic Approach to Learning

- 2.3.1 The Teacher–Student Relationship

**Unit 3 (15 Hours)**

**Approaches, Methods and Techniques in Language Teaching**

3.1 A survey of the Grammar Translation Method, the Situational Method and the Audio-Lingual Method

3.2 Communicative Approach

- 3.2.1 Communicative Competence as different from Linguistic Competence
- 3.2.2 The Teacher's Role—The Student's Role
- 3.2.3 Task- based activities in the class

3.3 Skills Approach

- 3.3.1 Teaching Reading Skills—Skimming, Scanning and Intensive Reading
- 3.3.2 Teaching Listening Skills—Listening for Specific Details, Keywords, Concepts
- 3.3.3 Teaching Speaking Skills—Expressing Ideas, Opinions, Presenting an Argument.
- 3.3.4 Teaching Writing Skills—Writing a Paragraph—Topic Sentence, Main Idea, Supporting Ideas, Concluding Sentence—Descriptive and Narrative Writing

**Note: 3.1 only for short answers (no essay questions)**

**Unit 4 (10 Hours)**

**Syllabus**

4.1 Definition of Syllabus and Curriculum

- 4.1.1 The Components of a Syllabus
- 4.1.2 Testing and Evaluation

4.2 Kinds of Tests

- 4.2.1 Placement Test
- 4.2.2 Diagnostic Test
- 4.2.3 Progress Test
- 4.2.4 Achievement Test
- 4.2.5 Proficiency Test

4.3 Criteria involved in Validity and Reliability

**Unit 5****(15 Hours)****Materials Production**

5.1 Use of Conventional Resources

5.2 Use of Audiovisual Aids and Computer Software

**BOOKS FOR REFERENCE**Fulcher, Glen and Fred Davidson. *Language Testing Assessment*. Routledge, 2007.Hall, Graham. *Exploring English Language Teaching: Language in Action*, 2<sup>nd</sup> ed. Routledge, 2017.Krashen, Stephen D. *Second Language Acquisition and Second Language Learning*. Pergamon Press, 1981.Lefrancois, Guy R. *Psychology for Teaching*. Wordsworth Publishing Co., 2000.Mc Whorter, Kathleen. *College Reading and Study Skills*. Little, Brown and Company, 1986.Prabhu, N.S. *Communicative Teaching Project*. Bulletin of the Regional Institute of English, 1981.Richards, Jack C. and Theodore S. Rodgers. *Approaches and Methods in Language Teaching*. Cambridge UP, 2001.Yule, George and Gillian Brown. *Teaching Spoken English*. Cambridge UP, 1983.**PATTERN OF ASSESSMENT:****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – three out of five-100 word essays

3x5=15 marks

Section B – one out of three-500 word essays

1x15=15 marks

Section C – Framing tasks for a given passage

1x20=20 marks

**Other Components:****Total Marks: 50**

Micro teaching (Teaching their own class mates)

30 marks

Lesson plan

20 marks

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A– five out of seven 100-word essays

5x6=30 marks

Section B –three out of five 500-word essays

3x15=45 marks

Section C – Framing tasks for a given passage

1x25=25 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII - ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INTRODUCTION TO CHILDREN'S LITERATURE**

**CODE:19EL/ME/CW45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce students to theoretical concepts in the field of children's literature
- To help students appreciate the diversity of children's literature
- To introduce students to the features of some of the sub-genres of children's literature
- To train them to deconstruct the use of word choice, dialogue, narration, story structure, and other elements of storytelling in contemporary children's books

**COURSE LEARNING OUTCOMES**

On completion of the course, the students will be able to

- identify key features of books classified as children's literature and understand how writers weave well-crafted stories
- deliberate on the role of the adult in books meant for children
- evaluate the use of peritexts in composite texts like the Picturebook
- appreciate the use of art and craft in published Picturebooks and explain its effectiveness
- use critical vocabulary necessary to discuss texts belonging to various sub-genres such as the Picturebook, Nonsense Verse, the Adventure Novel and the Autobiographical Novel

**Unit 1 (10 Hours)**

**Introduction to Children's Fiction**

- 1.1 Defining Children's Literature – Paradoxes, The Implied Reader, Double Address
- 1.2 Childhood – A Personal and Social Construct

**Unit 2 (15 Hours)**

**The Picture Book**

**2.1 Features of the Picturebook**

- |                             |   |
|-----------------------------|---|
| 2.1.1 Manjula Padmanabhan   | <i>Where's that Cat?</i>                          |
| 2.1.2 Maurice Sendak        | <i>Where the Wild Things Are?</i>                 |
| 2.1.3 Christina Baldacchino | <i>Morris Micklewhite and the Tangerine Dress</i> |
| 2.1.4 Sandhya Rao           | <i>My Friend, the Sea</i>                         |
| 2.1.5 P. Anuradha           | <i>Under the Neem Tree</i>                        |
| 2.1.6 Sheila Dhir           | <i>Why are You Afraid to Hold My Hand?</i>        |

**Unit 3 (15 Hours)**

**Verse**

- |                                |   |
|--------------------------------|---|
| 3.1 Roald Dahl                 | <i>Cinderella from Revolting Rhymes</i> |
| 3.2 Features of Nonsense Verse |   |
| 3.2.1 Dr. Seuss                | <i>The Lorax</i>                        |
| 3.2.2 Anushka Ravishankar      | <i>Excuses Excuses</i>                  |

**Unit 4 (20 Hours)**

**The Novel**

- |                       |                                  |
|-----------------------|----------------------------------|
| 4.1 Eva Ibbotson      | <i>Journey to the River Sea</i>  |
| 4.2 Jacqueline Wilson | <i>The Story of Tracy Beaker</i> |

**Unit 5 (5 Hours)**

**Practical Application Tasks**

- 5.1 Other Sub-genres
  - 5.1.1 Comic Books/Strips
  - 5.1.2 Folk Tales
  - 5.1.3 Fairy Tales
  - 5.1.4 Fantasy
  - 5.1.5 Horror tales

**BOOKS FOR REFERENCE**

- Alston, Ann. *The Family in English Children's Literature*. Routledge, 2008.
- Cullingford, Cedric. *Children's Literature and its Effects: The Formative Years*. Cassel, 1998.
- Grenby, M. O., and Kimberley Reynolds. *Children's Literature Studies: A Research Handbook*. Palgrave, 2011.
- Haviland, Virginia, editor. *Children and Literature: Views and Reviews*. Bodley Head, 1974.
- Kakar, Sudhir. *The Inner World: A Psycho-Analytic Study of Childhood and Society in India*. 2nd ed., Oxford UP, 1981.
- Peter, Hunt, editor. *Understanding Children's Literature: Key Essays from the International Companion Encyclopaedia of Children's Literature*. Taylor & Francis e-Library, 1999. *BookFI*. en.bookfi.net.
- Reynolds, Kimberley. *Children's Literature in the 1890s and the 1990s*. Writers and Their Work Series, Northcote House in association with the British Council, 1994.
- . *Radical Children's Literature: Future Visions and Aesthetic Transformations in Juvenile Fiction*. Palgrave, 2007.
- Sipe, Lawrence R., and Sylvia Pantaleo, editors. *Postmodern Picturebooks: Play, Parody, and Self-Referentiality*. Routledge, 2008.
- Styles, Morag, and Eve Bearne, editors. *Art, Narrative and Childhood*. Trentham, 2003.
- Superle, Michelle. *Contemporary English-Language Indian Children's Literature: Representations of Nation, Culture, and the New Indian Girl*. Routledge, 2011.

**JOURNALS**

- Children's Literature Association Quarterly*
- The International Board on Books for Young People*

## WEB RESOURCES

Anstey, Michele. “‘It’s Not All Black and White’: Postmodern Picturebooks and New Literacies.” *Journal of Adolescent & Adult Literacy*, vol. 45, no. 6, 2002, pp. 444+. *Academic Search Elite*. [www.scribd.com/doc/91921813/Postmodern-Picture-Books](http://www.scribd.com/doc/91921813/Postmodern-Picture-Books).

Berry, Nita. “Social Change through Children’s Books – An Indian Perspective.” *Bookbird: A Journal of Children’s Literature* Vol 54, no.1, 2016, pp 48-54.

## PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A- two out of four 200-word essays		2x10=20 marks
Section B- one out of three 400-word essays		1x20=20 marks
Section C- Passage analysis – only one passage		1x10=10 marks

## Other Components: **Total Marks: 50**

Assignment/Seminar/Presentation/Open Book Test/Class Assignment – Passage Analysis, Quiz/Panel Discussion/Group Presentation/Dramatisation

## End Semester Evaluation: **Total Marks: 100**

Term Paper of 1500 words (Critical Analysis / Creative)

## No End-Semester Examination



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII - ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**JOURNALISTIC WRITING**

**CODE:19EL/ME/JW45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce students to different kinds of writing for the print media
- To enable students to identify news and enhance their research skills for news writing
- To familiarise students with the conventions and nuances of news writing
- To train students to write different kinds of news reports and feature stories

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify and gauge newsworthy stories
- comprehend the conventions and nuances of different kinds of journalistic writing
- research and use credible information from varied sources
- conduct effective interviews to gather information
- write well organized news reports, features and other kinds of journalistic writing

**Unit 1 (5 Hours)**

**Introduction**

1.1 Identifying News

1.1.1 News Determinants

1.2 Kinds of News

1.2.1 Hard News

1.2.2 Soft News

**Unit 2 (20 Hours)**

**Basics of Writing**

2.1 Gathering information- Library Sources, Surveys, Interviews

2.2 Developing the Story

2.2.1 Writing Headlines

2.2.2 Writing Leads

2.2.3 Quotation and Attribution

2.2.4 Writing captions for pictures

**Unit 3 (10 Hours)**

**Writing News Reports**

3.1 The Inverted Pyramid Format

3.2 Writing the Lead

3.3 Developing the Story

**Unit 4** (10 Hours)  
**Writing Features**  
4.1 The Hourglass format  
4.2 Writing the Lead  
4.3 Kinds of Features

**Unit 5** (20 Hours)  
**Other kinds of Journalistic Writing**  
5.1 Personality Profile  
5.2 Reviews- Movies, Books, Food, Travel  
5.3 Interviews- Q & A

### **BOOKS FOR REFERENCE**

Dominick, Joseph R. *The Dynamics of Mass Communication: Media in Transition*. McGraw-Hill, 2013.  
Froke, Paula, et al. *The Associated Press Stylebook 2018 and Briefing on Media Law*. Basic Books, 2018.  
Itule, Bruce D., and Douglas A. Anderson. *News Writing and Reporting for Today's Media*. McGraw Hill, 2008.  
Kovach, Bill, and Tom Rosenstiel. *The Elements of Journalism*. Three Rivers Press, 2014.

### **WEB RESOURCES**

oxfordre.com  
newsu.org  
learno.net/courses/mapping-for-journalists

### **PATTERN OF ASSESSMENT:**

**Continuous Assessment:** **Total Marks: 50**

One first-hand report	10 marks
One feature on any topic of the student's choice	15 marks
Portfolio- Classwork done over the semester	25 marks

**End-Semester Evaluation:** **Total Marks: 100**

Two features of 1000-1500 words each on separate topics

**No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII - ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**TRAVEL WRITING**

**CODE:19EL/ME/TW45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce students to travel writing, different types of travel literature, and the prominent tropes of the genre
- To enable students to discern those features that have evolved to keep the genre relevant and popular
- To train them to analyse travel texts and issues from multiple perspectives, with special concern for how cultural assumptions inform literatures of travel
- To sensitise them to the issues that arise in different contexts, and to the nuances of ethical travel writing

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the narrative techniques used in different kinds of travel writing
- appreciate the cultural and anthropological underpinnings of travel literature
- engage with the different strategies used by travel writers to deal with difference
- critique and appreciate a travel writing text from different perspectives
- respond empathetically to narratives that record difference and conflict

**Unit 1 (12 Hours)**

**Introduction to the Genre**

- |                   |   |
|-------------------|---|
| 1.1 Carl Thompson | Defining the Genre (from <i>Travel Writing</i> , pp 9–33) |
| 1.2 Pico Iyer     | Why We Travel (from salon.com)                            |

**Unit 2 (15 Hours)**

**Travel and Anthropology**

- |                   |   |
|-------------------|---|
| 2.1 Marco Polo    | Of the Great Island of Madagascar (Chapter xxxvi)<br>(from <i>Travels of Marco Polo the Venetian</i> , pp 302–04) |
| 2.2 Bruce Chatwin | <i>Songlines</i> . Chapters 5 and 6. pp 20–29   |
| 2.3 Zac O’Yeah    | Gateway to the World in <i>The Hindu</i> Magazine dated 12 March 2017   |
| 2.4 Vikram Seth   | <i>From Heaven Lake: Travels through Sinkiang and Tibet</i> , Chapter 13  |

**Unit 3 (15 Hours)**

## Travel and Socio-political Issues

- |                       |   |
|-----------------------|---|
| 3.1 William Dalrymple | The Daughters of Yellamma (from <i>Nine Lives</i> ) |
| 3.2 Eddy L. Harris    | <i>South of Haunted Dreams</i> , Chapter 7          |
| 3.3 Joe Sacco         | <i>Footnotes in Gaza</i>                            |

**Unit 4 (12 Hours)**

## Travel and Humour

- |                       |  |
|-----------------------|--|
| 4.1 Bill Bryson       | <i>Neither Here nor There: Travels in Europe</i><br>(Chapters on Paris, Brussels, Amsterdam, and Florence) |
| 4.2 Dervla Murphy     | <i>On a Shoestring to Coorg: A Travel Memoir of India</i> ,<br>Chapters 1, 2                               |
| 4.3 William Dalrymple | <i>In Xanadu</i> . pp 46–58; 68–71 (Penguin Edition)   |

## Unit 5 (11 Hours)

## Travel and Food

- |                         |  |
|-------------------------|--|
| 5.1 Anthony Bourdain    | Tokyo Redux (from <i>A Cook's Tour</i> )   |
| 5.2 Samanth Subramanian | On Hunting Hilsa and Mastering its Bones (from <i>Following Fish</i> )           |
| 5.3 Calvin Trillin      | Three Chopsticks ( <i>The New Yorker</i> dated 27 August 2007)                   |
| 5.4 Griffin Shea        | Cape Malay Food: South Africa's Cuisine Secret ( <i>CNN</i> dated 27 March 2017) |

## BOOKS FOR REFERENCE

- Buford, Bill. *The Best American Travel Writing*. Houghton Mifflin Harcourt, 2010.
- Burton, Stacy. *Travel Narrative and the Ends of Modernity*. Cambridge UP, 2014.
- Clarke, Robert, editor. *The Cambridge Companion to Postcolonial Travel Writing*. Cambridge UP, 2018.
- Dalrymple, William. *In Xanadu: A Quest*. Penguin Books, (1990) 2004.
- . *Nine Lives: In Search of the Sacred in Modern India*. Bloomsbury, 2009.
- Eco, Umberto. *How to Travel with a Salmon and other Essays*. Houghton Mifflin, 1994.
- Edwards, Justin D. and Rune Graulund editors. *Postcolonial Travel Writing: Critical Explorations*. Palgrave Macmillan, 2011.
- Frank, Søren. *Migration and Literature*. Palgrave Macmillan, 2008.
- Ghosh, Amitav, *In an Antique Land*. Granta, 1994.
- Holland, Patrick, and Graham Huggan. *Tourists with Typewriters: Critical Reflections on Contemporary Travel Writing*. U of Michigan P, 1998.
- Hulme, Peter and Tim Youngs, editors. *The Cambridge Companion to Travel Writing*. Cambridge UP, 2002.
- Iyer, Pico. "Where is Home?" *TED Talks*. 17 Jul 2013, [www.youtube.com/watch](http://www.youtube.com/watch).
- Knowles, Sam. *Travel Writing and the Transnational Author*. Palgrave Macmillan, 2014.
- Kuehn, Julia and Paul Smethurst, editors. *Travel Writing, Form and Empire: The Poetics and Politics of Mobility*. Routledge, 2009.
- Lisle, Debbie. *The Global Politics of Contemporary Travel Writing*. Cambridge UP, 2006.
- Mehta, Suketu, *Maximum City: Bombay Lost and Found*. Penguin, 2004.
- Mohanty, Sachidananda, editor. *Travel Writing and the Empire*. Katha, 2003.
- Speake, Jennifer. *Literature of Travel and Explorations: An Encyclopedia*. Fitzroy Dearborn, 2003.

Thompson, Carl. *Travel Writing*. Routledge, 2011.  
---, editor. *The Routledge Companion to Travel Writing*. Routledge, 2016.  
Youngs, Tim, editor. *Travel Writing in the Nineteenth Century: Filling the Blank Spaces*. Anthem Press, 2006.

**PATTERN OF ASSESSMENT:**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A: two out of four 200-word essays		2x10=20 marks
Section B: two out of three 400-word essays		2x15=30 marks

<b>Other Components:</b>	<b>Total Marks: 50</b>	
Seminar (on texts prescribed in the syllabus)		10 marks
Quiz (on texts prescribed in the syllabus)		20 marks
Practical Analysis (on texts outside the syllabus)		20 marks

<b>End-Semester Evaluation</b>	<b>Total marks: 100</b>
Term Paper (1500 words – open choice of text)	

**No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PROJECT**

**CODE:19EL/ME/PR45**

**CREDITS:5**

**OBJECTIVES OF THE COURSE**

- To provide students with the skills to undertake independent research on an area of their interest
- To inculcate in students the skillset required to carry out structured, ethical research
- To train students in writing a well-organised and well-documented short research paper

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the student will be able to

- identify a research area of their interest and the research gap in that area
- recognize the aspects of and need for ethical research
- differentiate between different kinds of research and identify the kind most suited to their research interest
- make optimal and ethical use of print and electronic resources in their area of research
- draft a well-organised and well-documented research paper

**Description:** Analysis/argument in the form of an extended research paper on a topic or aspect of a topic following the MLA (Eighth Edition) documentation and citation style.

**Length** : Around 3000-4000 words/10-20 pages, organised in 2 to 3 chapters

**Scope** : Students could work on

- a) an author/authors
- b) a particular theme or issue in the context of a literary work
- c) use a given theoretical approach to a particular text/group of texts

The above entails extensive reading of primary and secondary texts.  
(to be done in consultation with the supervisor)

**Requirement:** An abstract of 150-200 words

1. A clear thesis statement
2. Works Cited
3. Documentation and Bibliography using MLA (Eighth Edition) format
4. Drafting and revising process to be followed – with a percentage of the marks to be allotted to drafts as given below:

**PATTERN OF ASSESSMENT:**

Total marks: 100 marks

**Continuous Assessment:****Total Marks:50**

Annotated Bibliography

30 marks

Draft 1

20 marks

**End Semester Evaluation****Total Marks: 100****(Final Dissertation)**

Dissertation

75 marks

Viva voce

25 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**General Elective Course Offered by the Department of English to  
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FICTION AND FILM**

**CODE:19EL/GE/FF22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To equip learners with the skills to appreciate the narrative techniques in fiction and film
- To introduce learners to the cultural aspects of adaptation of fiction to film

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- discern narrative techniques in fiction and film
- understand the principles of adaptation
- engage with the different cultural aspects of film adaptation

**Unit 1 (8 Hours)**

**Narrative in Fiction and Film**

- 1.1 Point of view
- 1.2 Issues of cultural aspects of adaptation
- 1.3 Narrative techniques in Fiction and Films

**Unit 2 (9 Hours)**

**Novel**

- 2.1 Text *Harry Potter and the Philosopher's Stone*
- 2.2 Film *Harry Potter and the Philosopher's Stone*  
Directed by Chris Columbus

**Unit 3 (9 Hours)**

**One Text Two Visions**

- 3.1 Film *Sense and Sensibility* (Ang Lee)
- 3.2 Film *Kandukondain Kandukondain* (Rajiv Menon)

**BOOKS FOR REFERENCE**

Chatman, Seymour. *Story and Discourse: Narrative Structure in Fiction and Film*. Cornell University Press, 1978.

Corrigan, Timothy. *Film and Literature: An Introduction and Reader*. Pearson, 1998.

Giannetti, Louis. *Understanding Movies*. Pearson, 2008.

Lothe, Jakobs. *Narrative in Fiction and Film*. OUP, 2000.

Seeger, Linda. *The Art of Adaptation: Turning Fact and Fiction into Film*. Holt Paperback, 1992.

Synder, Mary. *Analyzing Literature to Film Adaptations*. Continuum, 2011.



**PATTERN OF ASSESSMENT:****Continuous Assessment Test:****Total marks: 25****Duration: 60 minutes**

Section A- (Definitions and concepts from Unit I, using examples from Unit II and III) three out of five 75-word answers

3x5=15 marks

Section B- (Comparison and Contrast between the different versions of prescribed texts) One out of two 150-word essay

1 x10=10 marks

**Other Components:****Total marks: 25**

Quiz/ Presentations / Analysis of narrative techniques in a passage from fiction or a clipping from a movie/ Analysis of cultural differences in film adaptations

25 marks

**No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**General Elective Course Offered by the Department of English to  
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**THE GRAPHIC NOVEL**

**CODE:19EL/GE/GN22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To encourage students to view graphic novels as a composite medium, like film, by examining both visual and textual elements
- To train students to appreciate the unique textures and 'language' of narration in graphic novels
- To introduce students to the complexities of storyboarding and sequential art

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- appreciate and critique graphic novels as literature
- comprehend the different levels of interaction between visual and textual elements in graphic novels
- empathise with the different perspectives shared through the conflict/witness literature

**Unit 1 (6 Hours)**

**Introduction to Graphic Novels**

1.1 Interaction between textual and visual elements of graphic novels

1.2 Narrative

1.2.1 Storyboarding

1.2.2 Dialogue

1.2.3 Setting

1.2.4 Characterisation

1.3 Genres: Humour, Politics, Memoir, Manga

1.4 Representation: Gender, Race, Sexuality

**Unit 2 (10 Hours)**

**Fiction**

2.1 Frank Miller, John Romita Jr.

*Daredevil: The Man Without Fear*

**Unit 3 (10 Hours)**

**Non-Fiction**

3.1 Malik Sajad

*Munnu: A Boy from Kashmir*

## **BOOKS FOR REFERENCE**

Adams, Jeff. *Documenting Graphic Novels and Social Realism*. Peter Lang Publishers, 2008

McCloud, Scott. *Understanding Comics: The Invisible Art*. HarperCollins Publishers, 1993.

Tabachnik, Stephen E., editor. *The Cambridge Companion to the Graphic Novel*. Cambridge University Press, 2017.

Wolk, Douglas. *Reading Comics: How Graphic Novels Work and What They Mean*. Da Capo Press, 2007.

## **PATTERN OF ASSESSMENT:**

### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A: three out of five 100 word essays

3x5=15 marks

Section B: one out of three 200 word essays

1x10 =10 marks

### **Other Components:**

**Total Marks: 25**

Quiz/ Presentation/ Textual Analysis

25 marks

## **No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**  
**General Elective Course Offered by the Department of English to**  
**B.A. / B.Sc. /B.Com/ B.S.W. / B.V.A./B.C.A Degree Programmes**

**SYLLABUS**  
**(Effective from the academic year 2019-2020)**

**BASIC THEATRE SKILLS**

**CODE: 19EL/GE/TS22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To introduce the learners to basic theatre skills
- To familiarize students with methods of character development
- To interpret works of fiction or poetry through theatre
- To explore voice, action-reaction and emotion in character enactment

**Course Learning Outcomes**

On successful completion of the course, students will be able to

- demonstrate an understanding of basic theatre skills
- provide a basic analysis of texts and their subtexts through enactment
- develop characters according to given contexts
- recognize the significance of practising voice, action-reaction and emotive exercises and use them effectively in performances
- explore the relationships amongst characters and between characters and spaces
- make use of varied spaces and create symbolic spaces for performances

**Unit 1 Creating Text and Subtext (10 hrs.)**

- 1.1 Improvisations
  - 1.2 Character development
  - 1.3 Staging directions
  - 1.4 Interpreting and enacting poems / excerpts from novels or short stories
- (Texts to be chosen by Course Teacher)**

**Unit 2 Actor and Action (8 hrs.)**

- 2.1 Voice (Workshop)
- 2.2 Chorus
- 2.3 Action-Reaction
- 2.4 Emotions
- 2.5 Relationships

**Unit 3 Creating and Using Spaces (8 hrs.)**

- 3.1 Using Spaces
- 3.2 Creating Spaces: Word Scenery, Symbolic Spaces
- 3.3 Presentation of a rehearsed piece

## **BOOKS FOR REFERENCE**

- Aston, Elaine, and Geraldine Harris, editors. *Feminist Futures? Theatre, Performance, Theory*. Palgrave Macmillan, 2006.
- Bleeker, Maaïke, Adrian Kear, Joe Kelleher, and Heike Roms, editors. *Thinking through Theatre and Performance*. Methuen, 2019.
- Read, Alan. *Theatre and Everyday Life: An Ethics of Performance*. Routledge, 1993.
- Styan, J. L. *Drama, Stage and Audience*. Cambridge University Press, 1975.
- Woodson, Stephani Etheridge and Tamara Underiner, editors. *Theatre, Performance and Change*. Palgrave Macmillan, 2018

## **PATTERN OF EVALUATION**

### **Continuous Assessment:**

**Total Marks: 25**

Creation of a play-script for a rehearsed reading

OR

Review of a performance

### **Other Components:**

**Total Marks: 25**

Final Presentation (Individual/ pair/ group)

### **No End Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**General Elective Course Offered by the Department of English to  
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**POPULAR CULTURE**

**CODE:19EL/GE/PC22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to arrive at a definition of what ‘popular culture’ means in the contemporary world
- To encourage students to think critically about popular culture
- To equip students to examine the contexts of most popular culture elements and the reasons behind their origin

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate a clear understanding of what pop culture is and what constitutes it
- find and examine examples of popular culture in different contexts with different kinds of representation
- interact with the different pop culture elements around them with a more analytical and critical perspective
- appreciate the value of pop culture in shaping our zeitgeist

**Unit 1 (6 Hours)**

**Introduction to Popular Culture**

- 1.1. Defining popular culture
- 1.2 ‘High’ vs. ‘Low’ Culture

**Unit 2 (10 Hours)**

**Popular Culture in the Indian Sub-Continent**

- 2.1 Song Why This Kolaveri
- 2.2 Advertisements Generation of Care (Vicks)
- 2.3 Hashtag Movements #MeToo
- 2.4 Street Art GuessWho (from Kochi Muziris Biennale)

**Unit 3 (10 Hours)**

**Popular Culture in the Global Context**

- 3.1 Song Childish Gambino This is America
- 3.2 Stand-up Hasan Minhaj Content Moderation and Free Speech (*Patriot Act*: Volume 1, Episode 1)
- 3.3 Advertisements Bodyform Fear Going to School Less
- 3.4 YouTube Lilly Singh A Geography Class for Racist People
- 3.5 TV Show Dan Goor, Michael Schur Game Night, Season 5, Episode 9 (*Brooklyn Nine-Nine*)

## BOOKS FOR REFERENCE

- Danesi, Marcel. *Popular Culture: Introductory Perspectives*. Fourth ed., Rowman & Littlefield, 2018.
- Gokulsing, K. Moti, and Wimal Dissanayake, editors. *Popular Culture in a Globalised India*. Routledge, 2009.
- Guins, Rainford, and Omayra Zaragoza Cruz, editors. *Popular Culture: A Reader*. Sage Publications, 2005.
- Kasbekar, Asha. *Pop Culture India! Media, Arts, and Lifestyle*. ABC-CLIO Inc., 2006.
- Miller, Toby. *The Routledge Companion To Global Popular Culture*. Routledge, 2017.

## PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 60 minutes</b>
Section A - three out of five 100-word essays		3x5=15 marks
Section B - one out of three 200-word essays		1x10 =10 marks

<b>Other Components:</b>	<b>Total Marks: 25</b>	
Quiz/ Presentation/ Analysis of Pop Culture Texts		25 marks

## No End-Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**General Elective Course Offered by the Department of English to  
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENGLISH FOR ADVERTISING**

**CODE: 19EL/GE/EA22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To introduce students to the basic concepts in advertising
- To enable students to understand the relationships between market forces and advertising
- To train students to think in creative ways to advertise for products
- To train students to use language creatively and appropriately to create advertisements in the print and broadcast mediums

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of some of the basic concepts related to advertising
- identify the relationships between advertising and market forces
- formulate creative ways in which to advertise a product/service based on its position in the market
- use English creatively and appropriately to produce advertisements in the print and broadcast mediums

**Unit 1**

**Introduction**

**(6 Hours)**

- 1.1 Classification of advertisements
- 1.2 Market segmentation
- 1.3 Product life-cycle and advertising

**Unit 2**

**Print Advertisements**

**(10 Hours)**

- 2.1 Parts of a print ad
  - 2.1.1 Kinds of headlines
  - 2.1.2 Kinds of body copy
- 2.2 Creating print ads

**Unit 3**

**Broadcast Advertisements**

**(10 Hours)**

- 3.1 Radio ads
  - 3.1.1 Components of radio ads
  - 3.1.2 Writing scripts for radio ads
- 3.2 Television ads
  - 3.2.1 Components of TV ads
  - 3.2.2 Creating storyboards for TV ads



## **BOOKS FOR REFERENCE**

Brierley, Sean. *The Advertising Handbook*. Routledge, 1995.

Goddard, Angela. *The Language of Advertising*. Routledge, 1998.

Ogilvy, David. *Ogilvy on Advertising*. Vintage, 1985.

Toth, Mike et al. *The Art of Advertising*. Aspatore Books, 2003.

Verlegh, Peter et al. Ed. *Advances in Advertising Research (Vol VI). The Digital, The Classic, The Subtle and the Alternative*. Gabler Verlagh, 2016.

Warwitz, Claudius. *Location Based Advertising*. Gabler Verlagh, 2016.

## **PATTERN OF ASSESSMENT:**

### **Continuous Assessment:**

**Total Marks: 25**

Creating a Print/Radio Ad

### **End Semester Evaluation:**

**Total Marks: 25**

Portfolio Submission

### **No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**General Elective Course Offered by the Department of English to  
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENGLISH FOR COMPETITIVE EXAMINATIONS**

**CODE: 19EL/GE/EE22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To train learners to identify errors in sentences and to rewrite them correctly
- To train learners in English language use
- To train learners in reading comprehension, and in writing skills

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify errors in language samples and correct them
- use appropriate vocabulary, idioms and phrases, thus demonstrating advanced skills in language use
- read and interpret various kinds of texts including tables, graphs and charts
- organise and convey ideas, thoughts, opinions and information through well-written paragraphs and essays

**Unit 1 (12 Hours)**

**Error Spotting and Correction**

- 1.1 Tenses
- 1.2 Subject-Verb Agreement
- 1.3 Articles, Prepositions and Conjunctions
- 1.4 Sentence Structure

**Unit 2 (6 Hours)**

**Language Use**

- 2.1 Idioms and Phrases
- 2.2 Phrasal Verbs
- 2.3 Antonyms and Synonyms
- 2.4 Vocabulary

**Unit 3 (8 Hours)**

**Reading and Writing Skills**

- 3.1 Reading Comprehension (Data Interpretation)
- 3.2 Essay Writing

## BOOKS FOR REFERENCE

Aggarwal, R S and Vikas Aggarwal. *Objective General English*. S Chand Publishers, 2016.  
Francoise, Grellet. *Developing Reading Skills*. Cambridge University Press, 1981.  
*General English for Competitive Exams*. Disha Publications, 2017.  
Gopalan, R. *General English for Competitive Exams*. Vijay Nicole Imprints, 2006.  
Kuberkar, Ranjeet. *Word Power*. McGraw Hill, 2011.  
Otto, Jespersen. *Essentials of English Grammar*. George Allen & Unwin, 1963 .  
Prasad, Hari. *Objective English for Competitive Exams*. Tata McGraw Hill, 2010.  
Pye, Glennis. *Vocabulary in Practice*. Cambridge University Press, 2005.  
Stephen, Mathew. *Guide to Synonyms and Antonyms*. Dominant, 2012.  
---. *Everyday Errors in English*. Dominant, 2012.  
Swan, Michael. *Practical English Usage*. 4<sup>th</sup> Edition Oxford University Press, 2017.  
Ur, Penny. *Grammar Practice Activities*. Cambridge University Press, 1988.  
Ur , Penny and S. Thornbury. *Vocabulary Activities*. Cambridge University Press, 2012.  
Wiley. *English: Exam Goalpost for Banking Exams*. Wiley India Pvt Ltd, 2016.

## PATTERN OF ASSESSMENT:

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration: 60 minutes</b>
Error correction		10 marks
Reading Comprehension		15 marks

<b>Other Components:</b>	<b>Total Marks: 25</b>	
Grammar/Language/Writing tasks		25 marks

## No End-Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH XII – ENGLISH**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NOVEL OF COURTSHIP AND MARRIAGE**

**CODE: 19EL/UI/CM23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To enable students to undertake independent learning and research
- To enable students to place the institutions of courtship and marriage within a social and historical context
- To facilitate students to study the fictional representation of courtship and marriage and related themes

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate an understanding of courtship and marriage as sociological and cultural phenomena
- study fictional representations of courtship and marriage by placing them within specific social and historical contexts

**Text:** Vikram Seth: *A Suitable Boy*

**Unit 1**

**Background**

- 1.1 European / Western Conventions of Courtship and Marriage – Its History and Contemporary Views on Them
- 1.2 Indian Conventions of Courtship and Marriage

**Unit 2**

**Socio-Economic And Religious Perspectives**

- 2.1 Role of Social Class in Marriages
- 2.2 Caste-Based and Religious Considerations
- 2.3 Arranged Marriages and Marriages by Personal Choice
- 2.4 Rebellion and Conformity

**Unit 3**

**Gender Perspectives**

- 3.1 Feminist Perspectives
- 3.2 Sexual / Gender Role

**Unit 4**

**Techniques**

- 4.1 Fictional Narrative Techniques

**Unit 5**

**Practical Analysis Tasks**

**BOOKS FOR REFERENCE**

Beauvoir, Simone de. *The Second Sex*. Vintage Books, 1949.

Brownstein, Rachel, M. *Becoming a Heroine*. The Viking Press, 1982.

Halwani, Raja. *Philosophy of Love, Sex and Marriage: An Introduction*. Routledge, 2018.

Kakar, Sudhir and Katherina Kakar. *The Indians: Portrait of a People*. Penguin India, 2009.

Lewis, C. S. *The Allegory of Love*. OUP , 1958.

Millet, Kate. *Sexual Politics*. Doubleday, 1970.

Uberoi, Patricia. Ed. *Family, Kinship and Marriage in India*. OUP, 1994.

**PATTERN OF ASSESSMENT:**

**End-Semester Examination:**

4 out of 6 600-word essays

**Total Marks: 100**

**Duration: 3 hours**

(4 x 25=100)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

**SYLLABUS**

(Effective from the academic year 2019-2020)

**POETRY OF THE ROMANTIC AGE**

**CODE:19EL/UI/PR23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To enable students to undertake independent learning and research
- To introduce students to the English Romantic Movement and its literature

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- trace the evolution of thought from the Pre-Romantics to the Romantics
- understand the key aspects of the English Romantic Movement
- read, analyse and appreciate poetry written by various Romantic poets

**Unit 1**

1.1 Introduction to the Romantic Movement

**Unit 2**

2.1 The Pre-Romantics

**Unit 3**

3.1 William Wordsworth	Ode on Intimations of Immortality from Early Recollections of Childhood
3.2 Samuel Taylor Coleridge	Dejection: An Ode

**Unit 4**

4.1 John Keats	Ode on a Grecian Urn
4.2 Percy Bysshe Shelly	To a Skylark

**Unit 5**

5.1 George Byron	Don Juan: Canto I (6-64)
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**BOOKS FOR REFERENCE**

Black, Joseph et al. *The Broadview Anthology of Romantic Poetry*. Broadview Press, 2016.  
Feldman, Paula. Ed. *British Women Poets of the Romantic Era: An Anthology*. John Hopkins Press, 1997.  
Hough, Graham. *The Romantic Poets*. Routledge, 2016.  
Simpson, David. *Irony and Authority in Romantic Poetry*. Macmillan Press, 1979.  
Wordsworth, Jonathan and Jessica Wordsworth. Eds. *The Penguin Book of Romantic Poetry*. Penguin Books, 2003.

**PATTERN OF ASSESSMENT:**

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Four out of six 600-word essays

4 x 25 = 100 marks

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities



**STELLA MARIS COLLEGE (AUTONOMOUS), CEHNNAI – 600 086**

**DEPARTMENT OF FINE ARTS**

**PROGRAMME DESCRIPTION**

In keeping with the commitment of Stella Maris College towards nurturing academic excellence, the Department of Fine Arts offers a teaching-learning-evaluation system that assures optimal educational benefits. The four year B.V.A. programme employs multiple teaching-learning methodologies with specialisation streams in art or design. The first four semesters are devoted to foundation courses in both disciplines. Core courses on drawing have been increased to strengthen skills required in both art and design practice. Specialisation courses are offered from the fifth semester onwards, culminating in an art/design project that is displayed at an annual exhibition.

While studio-based practical courses on art and design nurture the creativity of students, the study of art history provides a strong theoretical framework for their artistic expression. Art history courses are offered in all four years to build a comprehensive knowledge of theory. Additionally, an interdisciplinary course has been framed in collaboration with the Department of English. The combination of art theory and practice has remained unique to the curriculum and forms the strength of the department's pedagogy. Research is integral to the curriculum and several courses are dependent on critical enquiry.

The four years of study brings the B.V.A. Degree on par with similar programmes offered by other art institutions in India, thereby allowing students to pursue M.F.A. programmes. The fourth year of study in the B.V.A. programme also provides the extra credits required for admission into postgraduate programmes in several foreign universities.

Various curricular and co-curricular activities such as study tours, guest lectures, workshops, field visits, visits to galleries and museums, certificate courses, conferences, seminars, and collaborative projects with reputed institutions are organised or undertaken on a regular basis to enhance and complement the curriculum.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of the undergraduate programme it is intended that students of Visual Arts will:

- Demonstrate a broad understanding of knowledge in visual arts

- Be able to describe and define critical concepts in visual arts
- Be proficient as artists /designers who make a meaningful contribution to society
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate career and leadership readiness to move forward in their chosen field of Art and Design
- Show self-awareness and emotional maturity
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism
- Apply knowledge, theories, methods, and practices in Visual Arts to address real-world challenges and opportunities
- Demonstrate social and ethical responsibility in their academic, professional and personal lives

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.V.A. DEGREE : BRANCH X-VISUAL ART**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
19FA/MC/FA14	Fundamentals of Art History	4	4	1	0	3	50	50	100
19FA/MC/P113	Drawing I Practical	3	0	0	4	3	50	50	100
19FA/AC/P115	Perspective Drawing Practical	5	0	0	6	3	50	50	100
19FA/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
19FA/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
SEMESTER-II									
19FA/MC/IC23	Art of Indigenous Cultures	3	3	1	0	3	50	50	100
19FA/MC/AM24	Ancient to Medieval Art in the West	4	4	1	0	3	50	50	100
19FA/AC/P225	Drawing II Practical	5	0	0	6	3	50	50	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
SEMESTER-III									
19FA/MC/BA33	Buddhist Architecture and Sculpture in India	3	3	1	0	3	50	50	100
19FA/MC/AE34	Art in Europe (1280-1790)	4	4	1	0	3	50	50	100
19FA/AC/P335	Basic Painting Practical	5	0	0	6	3	50	50	100
19FA/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
SEMESTER-IV									
19FA/MC/AE43	Art in Europe (1780-1910)	3	3	1	0	3	50	50	100
19FA/MC/HA45	Hindu Architecture and Sculpture	5	5	0	0	3	50	50	100
19FA/MC/P245	Figure Drawing Practical	5	0	0	7	3	50	50	100
19FA/MC/P345	Design Fundamentals Practical	5	0	0	7	3	50	50	100
19FA/AC/P445	Digital Photography Practical	5	0	0	6	-	50	-	100
SEMESTER-V									
19FA/MC/IA54	Indo-Islamic Architecture	4	4	1	0	3	50	50	100
19FA/MC/AA54	Art of Asia	4	4	1	0	3	50	50	100
19FA/MC/P455	Drawing III Practical	5	0	0	5	3	50	50	100
19FA/ME/D155	Illustration Practical	5	0	0	7	-	50	-	100
OR									
19FA/ME/A155	Painting I Practical								
Interdisciplinary Core Course (FA and EL) for students of Visual Arts									
19ID/IC/CA55	Colonial Art and Literature	5	5	1	0	3	50	50	100
Interdisciplinary Core Course (FA and EL) for students of English									
19ID/IC/WA55	Writing and Art for Picturebooks	5	3	0	3	-	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
SEMESTER-VI									
19FA/MC/MP65	Modern and Postmodern Art in the West	5	5	0	0	3	50	50	100
19FA/MC/IP65	Indian Painting	5	5	0	0	3	50	50	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.V.A. DEGREE : BRANCH X-VISUAL ART**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
19FA/ME/D265	Textile Design I Practical	5	0	0	7	-	50	-	100
OR									
19FA/ME/A265	Figure Illustration Practical								
19FA/ME/D365	Graphic Design I Practical	5	0	0	7	-	50	-	100
OR									
19FA/ME/A365	Creative Expressions Practical								
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV	2	2	0	0	-	50	-	100
SEMESTER-VII									
19FA/MC/MI75	Modern Art in India	5	5	0	0	3	50	50	100
19FA/MC/CF75	Indian Craft and Folk Art Traditions	5	5	0	0	3	50	50	100
19FA/ME/D475	Textile Design II Practical	5	0	0	7	-	50	-	100
OR									
19FA/ME/A475	Painting II Practical								
19FA/ME/D575	Graphic Design II Practical	5	0	0	7	-	50	-	100
OR									
19FA/ME/A575	New Media Practical								
19FA/SL/AC72	Art for Children	2	2	0	0	-	50	-	100
SEMESTER-VIII									
19FA/MC/MA85	Modern Architecture	5	5	0	0	3	50	50	100
19FA/MC/AH85	Art and its Histories	5	5	0	0	3	50	50	100
19FA/ME/D689	Project-Design	9	0	0	15	-	50	50	100
OR									
19FA/ME/A689	Project-Art								
General Elective Courses									
19FA/GE/RA22	Recycled Art Practical	2	0	0	2	-	50	-	100
19FA/GE/CP22	Creative Printing Practical	2	0	0	2	-	50	-	100
19FA/GE/FA22	Fabric Art Practical	2	0	0	2	-	50	-	100
19FA/GE/CL22	Collage Practical	2	0	0	2	-	50	-	100
19FA/GE/JA22	Jewellery from Alternate Materials Practical	2	0	0	2	-	50	-	100
Independent Elective Courses									
19FA/UI/FC23	Fashion Concepts, Manufacture and Retail	3	0	0	0	3	-	100	100
19FA/UI/GD23	History of Graphic Design	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FUNDAMENTALS OF ART HISTORY**

**CODE: 19FA/MC/FA14**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide an orientation to art history as an academic discipline
- To introduce the fundamental methods of art history
- To learn the appropriate vocabulary and critical tools for discussing and writing about works of art
- To introduce the study of art history through formal and contextual analyses

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- View art history as an academic discipline
- Understand and use the vocabulary of art history
- Know the fundamental methods of art history
- Apply formal analysis as a method of study
- Comprehend the relevance of context, style and meaning in art history

**Unit 1 (08 hrs)**

**Introduction to Art History**

- 1.1 Vocabulary of art history – art, artist, aesthetics, subject, form, content
- 1.2 Art history and related disciplines

**Unit 2 (02 hrs)**

**Methods of Art History**

- 2.1 Formal Analysis
- 2.2 Contextual analysis

**Unit 3 (20 hrs)**

**Formal Analysis**

- 3.1 Elements of art – form, line, shape, value, texture, colour, space
- 3.2 Principles of organisation – contrast, emphasis, balance, scale, variety, harmony, rhythm
- 3.3 Mediums and methods – painting, graphic arts, photography, digital art, sculpture, assemblage, installation art, video and film, performance, kinetic sculpture, textiles and decorative arts

**Unit 4 (20 hrs)**

**Contextual Analysis**

- 4.1 Art in context – artist, patron, viewer
- 4.2 Style and meaning – period style, regional style, personal style

**Unit 5** **(15 hrs)**  
**Comparative studies - Organising a comparison – splitting, lumping**

**BOOKS FOR STUDY**

Barnet, Sylvan. *A Short Guide to Writing About Art*. 9<sup>th</sup> ed. New Jersey: Prentice Hall, 2007.

Ocvirk, Otto, G., et. al. *Art Fundamentals: Theory and Practice*, 8<sup>th</sup> ed. New York: McGraw Hill, 1998.

Kleiner, Fred S., and Christin J. Mamiya. *Gardners' Art through the Ages*. 13<sup>th</sup> ed. (Introduction only), Belmont: Wadsworth Publishing, 2009.

**BOOKS FOR REFERENCE**

Berger, John. *Ways of Seeing*. London: Penguin, 1972.

D'Alleva, Anne. *Look! The Fundamentals of Art History*. 3<sup>rd</sup> ed. New Jersey: Pearson Education, 2004.

Fichner-Rathus, Lois. *Understanding Art*, 6<sup>th</sup> ed. London: Thomson Wadsworth, 2001.

Gombrich, E H. *The Story of Art*. London: Phaidon, 2010.

Hudson, Suzanne, and Nancy Noonan-Morrissey, *The Art of Writing about Art*. Belmont: Thomson Wadsworth, 2002.

Janson, H.W., and Anthony F. Janson. *History of Art*. 5<sup>th</sup> ed. New York: Harry N. Abrams. 1997.

Myers, Bernard. *The Book of Art: How to Look at Art*. Canada: Grolier, 1965.

Pointon, Marcia. *History of Art: A Students' Handbook*, 4<sup>th</sup> ed. London: Routledge, 1997.

Pooke, Grant, and Diana Newall. *Art History: The Basics*, Oxon: Routledge, 2008.

**PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components: Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

**End Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DRAWING I PRACTICAL**

**CODE: 19FA/MC/P113**

**CREDITS: 3**

**L T P: 0 0 4**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To enable an understanding of free hand drawing through observation
- To enable an understanding of line and contour
- To provide an awareness of structural relationships in drawn forms
- To impart skills in using drawing media to render tone, texture and surfaces

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate skills in free hand drawing
- Understand the process of drawing from thumbnails to compositions
- Observe and express structural and spatial relationship in drawn forms
- Effectively use line, contour, tone and surface texture
- Compose and render still life and landscapes in drawing media

**Unit 1 (10 hrs)**

**The Drawing Process**

- 1.1 Seeing, visualizing, expressing
- 1.2 Qualities of line: expressive lines, modeling lines, calligraphic lines

**Unit 2 (10 hrs)**

**Contour Drawing**

- 2.1 Gesture drawing
- 2.2 Imitational drawing
- 2.3 Cross-contour drawing

**Unit 3 (10 hrs)**

**Structural Relationship**

- 3.1 Form
- 3.2 Positive and negative space
- 3.3 Thumbnails, grids and composition

**Unit 4 (12 hrs)**

**Tone and Value Patterns**

- 4.1 Basics of Light and Shadow
- 4.2 Rendering Techniques-Shading, Hatching, Squiggles, Stippling
- 4.3 Tonal value scale
- 4.4 High key, Medium key, Low key

## Unit 5

(10hrs)

### Texture and Surface Quality

- 5.1 Visual texture
- 5.2 Transparent, translucent, reflective surfaces

## BOOKS FOR REFERENCE

Ching, Francis D. K. *Drawing: A Creative Process*. New York: Van Nostrand Reinhold, 1990.

Curnow, Vera. *The Best of Coloured Pencil - Vol 5*. Massachusetts: Quarry – Rockport, 1999.

Douet, Valerie C., ed. *Drawing for Pleasure*. Kent: Search, 2001.

Gail, Angela. *Drawing: A Step-by-Step Guide to Drawing Techniques*. Twickenham: Tiger Books International, 1997.

Guptill, Arthur. *Freehand Drawing Self-Taught*. New York: Watson Guptill, 1984.

Mulick, Milind, *Sketckbook*. Pune: Jyotsna Prakshan, 2007.

Vebell, Victoria. *Exploring the Basics of Drawing*. New York: Thomson Delmar Learning, 2005.

Woods, Michael. *Pencil Drawing*. New York: Dover, 1987.

## PATTERN OF ASSESSMENT

### Continuous Assessment: 50 marks

Classwork	30 marks
Assignment	10 marks
Journal	10 marks

### End Semester Examination

**Total Marks: 100**

**Duration: 3 Hours**

Question Paper Pattern – **one** out of two questions on still life



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PERSPECTIVE DRAWING PRACTICAL**

**CODE: 19FA/AC/P115**

**CREDITS: 5**

**L T P: 0 0 6**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of the visual elements of form
- To enable an awareness of pictorial drawing
- To provide an in-depth knowledge in formal drawing systems and linear perspective
- To enable the exploration of various drawing media

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Observe and draw the visual elements of form
- Understand and apply methods of pictorial drawing
- Render rectilinear and curvilinear forms in linear perspective
- Draw from different view-points
- Use depth cues to establish depth and relationships in drawn forms

**Unit 1 (05 hrs)**

**Visual Elements of Form**

- 1.1 Point, line, plane, shape
- 1.2 Volume: space, depth, distance

**Unit 2 (23 hrs)**

**Approaches to Pictorial Drawing**

- 2.1 Projections: perpendicular, parallel, orthographic, isometric and oblique
- 2.2 True sizes and shapes: measuring techniques

**Unit 3 (20 hrs)**

**Linear Perspectives–Rectilinear & Curvilinear forms**

- 3.1 Vanishing points, Horizons
- 3.2 One-point perspective
- 3.3 Two-point perspective
- 3.4 Three-point perspective

**Unit 4 (15 hrs)**

**Drawing View Points**

- 4.1 Plan, elevation and section views
- 4.2 Dimensional views using crating

**Unit 5 (15 hrs)**

**Visual Depth Cues**

- 5.1 Proportions and scale

- 5.2     Overlapping
- 5.3     Aerial perspective
- 5.4     Fore-shortening

## **BOOKS FOR REFERENCE**

Ching, Francis D. K. *Drawing: A Creative Process*. New York: Van Nostrand Reinhold, 1990.

Cole, Rex Vicat. *Perspective for Artists*. New York: Dover Publications.

Coulin, Claudius. *Step-by-Step Perspective Drawing for Architects, Drafters and Designers*. New York: Van Nostrand Reinhold Company Inc. 1983.

Gail, Angela. *Drawing: A Step-by-Step Guide to Drawing Techniques*. Twickenham: Tiger Books International, 1997.

Sidaway, Ian and Hoggett, Sarah. *The practical Encyclopedia of Drawing*. London: Hermes House, 2012.

Vebell, Victoria. *Exploring the Basics of Drawing*. New York: Thomson Delmar Learning, 2005.

Wallschlaegar, Charles and Busic-Snyder, Cynthia. *Basic Visual Concepts and Principles*. United States of America. Wm. C. Brown Publishers. 1992.

## **PATTERN OF ASSESSMENT**

**Continuous Assessment:**                      **50 marks**

Classwork     40 marks

Assignment    10 marks

**End Semester Examination**

**Total Marks: 100**

**Duration: 3 Hours**

Question Paper Pattern – **one** out of two questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19FA/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)

[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19FA/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ART OF INDIGENOUS CULTURES**

**CODE: 19FA/MC/IC23**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To provide an awareness of prehistoric art and architecture
- To provide an awareness of the visual arts and artefacts of the indigenous arts of the Americas, Africa and Oceania
- To provide an insight into indigenous art expressions outside Asia
- To build an understanding of how indigenous artistic expressions inspired modern art movements

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the context of creation of prehistoric art and architecture
- Understand the context and style in art of indigenous cultures
- Relate to art of indigenous cultures of the Americas, Africa and Oceania
- Appreciate the visual language of indigenous art as a means of representation and expression
- Apply formal, contextual and comparative modes to analyse works of art

**Unit 1 (06 hrs)**

**Prehistoric Art**

- 1.1 Sculpture: Human with Feline Head; Nude Woman of Willendorf; Woman Holding a Bison Horn; Two Bison, cave at Le Tuc d'Audoubert; Bison with Turned Head, La Madeleine
- 1.2 Painting: Bison, Altamira; Spotted Horses, Pech-Merle; Hall of the Bulls, Lascaux; Aurochs, Horses and Rhinoceroses, Chauvet cave
- 1.3 Architecture: site of Jericho; Çatal Höyük; Stonehenge

**Unit 2 (20 hrs)**

**Meso- and South American cultures**

- 2.1 Meso America before 1300
  - 2.1.1 Olmec – Colossal head, Ceremonial axe, Drinker from Colima
  - 2.1.2 Teotihuacan – temple-pyramid-plaza layout; goddess mural from Tetitla complex
  - 2.1.3 Maya – Ball court and Stele D at Copan, Temple of the Giant Jaguar, Tikal; Ball player from Jaina Island, Bonampak murals, Castillo, Caracol and Chac-mool at Chichen Itza
  - 2.1.4 Toltec – Colossal atlantids, Tula



- 2.2 Meso America after 1300
  - 2.2.1 Mixteca-Puebla – Borgia codex
  - 2.2.2 Aztec – Great Temple and city plan, Tenochtitlan, Coyolxauhqui, Coatlicue
- 2.3 South America before 1300
  - 2.3.1 Chavin – Raimondi stele
  - 2.3.2 Paracas – Funerary mantle
  - 2.3.3 Nasca – Bridge spouted vessel, Nasca Lines
  - 2.3.4 Moche – Stirrup-spout vessel, ear ornament from Sipan
  - 2.3.5 Tiwanaku – Gateway of the Sun
  - 2.3.6 Wari – Lima Tapestry
- 2.4 South America after 1300
  - Inka – Machu Picchu; Temple of the Sun, Cuzco

**Unit 3 (10 hrs)**

**North American cultures**

- 3.1 Before 1300
  - 3.1.1 Eskimo – Ipiutak burial mask
  - 3.1.2 Woodlands – Adena pipe, Mississippian Serpent Mound, incised gorget with running warrior
  - 3.1.3 Southwest – Mimbres black and white bowl, Ancestral Puebloan Cliff Palace
- 3.2 After 1300
  - 3.2.1 Southwest – Navajo sand painting, Navajo weaving, Hopi katsina, Pueblo blackware pottery
  - 3.2.2 Northwest – Kwakiutl mask, Tlingit mask, Haida totem poles, Chilkat blanket

**Unit 4 (10 hrs)**

**Africa**

- 4.1 Before 1800
  - 4.1.1 Terracotta – Nok head, Lydenburg head, Jenne figures
  - 4.1.2 Metal – Equestrian figure, Igbo-Ukwu; King, Ile-Ife; Ikegobo, Benin
- 4.2 After 1800
  - 4.2.1 Wood and other materials – Reliquary guardian figures from Fang and Kota; Power images from Kongo; Seated couple, Dogon; Bush spirits, Baule; Benin altar; Akua’ba, Asante; Akure veranda post, Yoruba
  - 4.2.2 Masks and masquerades – Senufo, Mende, Dogon, Kuba

**Unit 5 (06 hrs)**

**Oceania**

- 5.1 Melanesia – Yam masks, Abelam; Bisj poles, Asmat; Hevehe masks, Elema
- 5.2 Micronesia and Polynesia – Men’s ceremonial house and Dilukai, Belau; Barkcloth, Head of a staff god, Feather cloak from Hawaii, Kuka’ilimoku, Moai figures, Easter Island
- 5.3 New Zealand and Australia – Maori meetinghouse, Aboriginal Dreaming bark paintings

## BOOK FOR STUDY

Kleiner, Fred S., and Christin J. Mamiya. *Gardners' Art through the Ages*. 13<sup>th</sup> ed., Belmont: Wadsworth Publishing, 2009.

## BOOKS FOR REFERENCE

Adam, Leonhard. *Primitive Art*. London: Cassell, 1963.

Burland, Cottie. *North American Indian Mythology*. Middlesex: Hamlyn, 1965.

Denis, Valentin, and T. E. de Vries. *The World's Art: Renaissance to Modern Art, Oriental and Primitive Art*. Vol. 2. London: Collins, 1962.

Huyghe, Rene, ed. *Larousse Encyclopaedia of Prehistoric and Ancient Art*. Art and Mankind series. London: Hamlyn, 1970.

Janson, H. W., and Anthony F. Janson. *History of Art*. 5<sup>th</sup> ed. New York: Harry N. Abrams. 1997.

Lommel, Andreas. *Prehistoric and Primitive Man*. Landmarks of the World's Art series. London: Paul Hamlyn, 1966.

Morphy, Howard, and Morgan Perkins, eds. *The Anthropology of Art: A Reader*. Oxford: Blackwell, 2006.

Nicholson, Krene. *Mexican and Central American Mythology*. London: Paul Hamlyn, 1967.

Osborne, Harold. *South American Mythology*. London: Paul Hamlyn, 1968.

Parrinder, Geoffrey. *African Mythology*. London: Paul Hamlyn, 1967.

Poignant, Roslyn. *Oceanic Mythology*. London: Paul Hamlyn, 1967.

## PATTERN OF ASSESSMENT

### Continuous Assessment: Total Marks: 50

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components: Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

### End-Semester Examination: Total Marks: 100

**Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ANCIENT TO MEDIEVAL ART IN THE WEST**

**CODE: 19FA/MC/AM24**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable a critical appreciation of art and architecture from the Ancient world and the Classical and Medieval periods of the west
- To provide a historical survey of Western art from the Ancient, Classical and Medieval periods with regard to artistic styles, structures and time periods
- To provide a general overview of the history and development of western visual art from the ancient through to the medieval period, and its historical, social, cultural, religious, and political contexts
- To develop an understanding and appreciation of the art forms, iconography, styles, and techniques of western visual art as expressed in painting, sculpture, and architecture

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the evolution of western art from ancient beginnings up to the medieval period
- Understand Ancient, Classical and Medieval art from the context of society and ideology
- Identify the artistic styles of the Ancient, Classical and Medieval West
- Understand the history of artistic expression in the Western artistic tradition, using as its basis both contextual and formalistic approaches
- Apply formal, contextual and comparative modes to analyse works of art

**Unit 1 (12 hrs)**

**Mesopotamian Art and Egyptian Art**

- 1.1 Mesopotamian Art
  - 1.1.1 Sumerian – Warka Vase, Uruk; Statuettes from Square Temple, Eshnunna; Standard of Ur; Ziggurat at Ur; Seated Gudea
  - 1.1.2 Babylonian – Stele of Hammurabi, Ishtar gate, Babylon
  - 1.1.3 Assyrian – Lamassu, Ashurbanipal hunting lions
- 1.2 Egyptian art
  - 1.2.1 Architecture: mastaba; Stepped Pyramid of Djoser, Saqqara; Great Pyramids, Gizeh; Pylon Temple of Amen-Re, Karnak
  - 1.2.2 Sculpture: Palette of King Narmer, Hierakonpolis; Khafre Enthroned, Gizeh; Ka-Aper, Saqqara; Seated Scribe, Saqqara; Akhenaton, Karnak; Nefertiti, Amarna
  - 1.2.3 Painting: Tomb of Nebamun – Fowling Scene, Musicians and Dancers

## **Unit 2**

**(20 hrs)**

### **Aegean and Greek Art**

- 2.1 Aegean art
  - 2.1.1 Cycladic – Woman from Syros, Lyre Player from Keros
  - 2.1.2 Minoan – Palace at Knossos, Bull Leaping fresco, Snake goddess, Harvester's vase
  - 2.1.3 Mycenaean – Corbelled gallery, Tiryns; Lion Gate, Mycenae; Treasury of Atreus
- 2.2 Greek art
  - 2.2.1 Vase painting: Geometric Krater, Dipylon Cemetery, Athens; Exekias – Achilles and Ajax Playing a Dice Game; Euphronios – Herakles wrestling Antaios
  - 2.2.2 Sculpture: Mantiklos Apollo, Thebes; Kouros, Metropolitan Museum; Kroisos, Anavysos; Peplos Kore; Kritios Boy; Charioteer, Sanctuary of Apollo, Delphi; Myron – Diskobolos; Polykleitos – Doryphoros; Parthenon sculptures; Praxiteles – Hermes and the Infant Dionysos, Aphrodite of Knidos; Lysippos – Apoxyomenos, Weary Herakles; Nike of Samothrace; Laocoön and his Sons
  - 2.2.3 Architecture: Doric, Ionic and Corinthian orders; temple plans; Parthenon

## **Unit 3**

**(15 hrs)**

### **Etruscan and Roman Art**

- 3.1 Etruscan art: Cerveteri sarcophagus, Tomb of the Leopards, Capitoline wolf, Chimera of Arezzo, Aule Metele
- 3.2 Roman art
  - 3.2.1 Architecture: concrete construction and arch system, Colosseum; Pantheon; Baths of Caracalla; Arch of Titus; Forum of Trajan
  - 3.2.2 Sculpture: Procession of the Imperial Family, Ara Pacis Augustae; Head of a Roman Patrician, Otricoli; Portrait of Augustus as General, Prima Porta; portraits of Vespasian, Hadrian, Caracalla; Equestrian Statue of Marcus Aurelius; Portraits of the Four Tetrarchs; Portrait of Constantine

## **Unit 4**

**(10 hrs)**

### **Early Christian and Byzantine Art**

- 4.1 Early Christian art
  - 4.1.1 Architecture: catacombs; rectilinear and central church plans; Old St. Peter's Basilica, Rome; Santa Constanza, Rome
  - 4.1.2 Mosaic: technique; The Parting of Abraham and Lot, Santa Maria Maggiore, Rome; Christ as the Good Shepherd, Mausoleum of Galla Placidia, Ravenna; Miracle of the Loaves and Fishes, Sant' Apollinare Nuovo, Ravenna
- 4.2 Byzantine art
  - 4.2.1 Architecture: Hagia Sophia, Istanbul; San Vitale, Ravenna
  - 4.2.2 Mosaics: apse mosaics from San Vitale, Ravenna; Crucifixion, Church of the Dormition, Daphne
  - 4.2.3 Painting: Vladimir Virgin, Tretyakov Gallery

## Unit 5

(08 hrs)

### Romanesque and Gothic Art

- 5.1 Romanesque art
  - 5.1.1 Architecture: structural innovations in church architecture; Saint-Sernin, Toulouse
  - 5.1.2 Portal sculpture: Gislebertus – Last Judgement, west tympanum of St. Lazare, Autun
- 5.2 Gothic art
  - 5.2.1 Architecture: structural innovations in church architecture; Chartres Cathedral, Salisbury Cathedral
  - 5.2.2 Sculpture: Royal Portal and Porch of Confessors, Chartres Cathedral
  - 5.2.3 Stained glass: technique; Notre Dame de la Belle Verrière, Chartres Cathedral

### BOOK FOR STUDY

Kleiner, Fred S., and Christin J. Mamiya. *Gardners' Art through the Ages*. 13<sup>th</sup> ed., Belmont: Wadsworth Publishing, 2009.

### BOOKS FOR REFERENCE

Cason, Lionel. *Ancient Egypt*. Great Ages of Man: A History of the World's Cultures. Amsterdam: Time-Life Books, 1982.

Elsner, Jaś. *Imperial Rome and Christian Triumph*. Oxford: Oxford University Press, 1988.

Janson, H.W., and Anthony F. Jansen. *History of Art*. New York: Harry N. Abrams, Inc, 1997.

Kramer, Samuel Noah. *Cradle of Civilisation*. Great Ages of Man: A History of the World's Cultures. Amsterdam: Time-Life Books, 1983.

Osborne, Robin. *Archaic and Classical Art*. Oxford: Oxford University Press, 1988.

Palmer, J. C. *Sir Banister Fletcher's A History of Architecture*. London: Athlone Press, 1975.

Tömöry, Edith. *A History of Fine Arts in India and the West*. Chennai: Orient Blackswan, 2009.

### PATTERN OF ASSESSMENT

#### Continuous Assessment: Total Marks: 50

**Continuous Assessment Test: Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:                      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

#### End Semester Examination:                      Total Marks: 100      Duration: 3 Hours

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DRAWING II PRACTICAL**

**CODE: 19FA/AC/P225**

**CREDITS: 5**

**L T P: 0 0 6**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To build on earlier inputs in drawing and enhance drawing skills
- To strengthen rendering skills in various media using various techniques
- To enable an in-depth understanding of light and colour
- To enable the drawing of complex compositions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate proficiency in academic drawing and rendering
- Understand and effectively render forms in colour and light
- Achieve competency in the use of drawing media and techniques
- Demonstrate skills in composition
- Draw compositions of static forms and forms in motion

<b>Unit 1</b>	<b>(15 hrs)</b>
<b>Colour studies &amp; Light</b> Direction, Intensity, Distribution, Radiance, Reflection, Cast Shadows	
<b>Unit 2</b>	<b>(05 hrs)</b>
<b>Media Exploration and Rendering Techniques</b>	
<b>Unit 3</b>	<b>(13 hrs)</b>
<b>Principles of Composition</b> Balance, emphasis, movement	
<b>Unit 4</b>	<b>(20 hrs)</b>
<b>Group Compositions</b> Overlapping, scaling, grouping	
<b>Unit 5</b>	<b>(25 hrs)</b>
<b>Complex Forms &amp; Drawing in Motion</b> Continuous movement, repetitive movement	

## GUIDELINES

- The prescribed media are graphite, charcoal, coloured pencil, oil pastel, dry pastel, pen and marker pen
- A drawing journal submitted monthly will be a mandatory component of the continuous assessment

## BOOKS FOR REFERENCE

Cerrier, Francisco Ascensio. *Pastels for Beginners*. Cologne: Konemann, 1999.

Ching, Francis D. K. *Drawing: A Creative Process*. New York: Van Nostrand Reinhold, 1990.

Curnow, Vera. *The Best of Coloured Pencil - Vol 5*. Massachusetts: Quarry – Rockport, 1999.

Douet, Valerie C., ed. *Drawing for Pleasure*. Kent: Search, 2001.

Gail, Angela. *Drawing: A Step-by-Step Guide to Drawing Techniques*. Twickenham: Tiger Books International, 1997.

Guptill, Arthur. *Freehand Drawing Self Taught*. New York: Watson Guptill, 1984.

Mulick, Milind, *Sketchbook*. Pune: Jyotsna Prakshan, 2007.

Rodwell, Jenny. *Drawing*. Middlesex: Hamlyn Publishing, 1988.

Tupe, Shivaji. *Sketchbook*. Pune: Jyotsna Prakashan, 2007.

Vebell, Victoria. *Exploring the Basics of Drawing*. New York: Thomson Delmar Learning, 2005.

Woods, Michael. *Pencil Drawing*. New York: Dover, 1987.

Yot, Richard. *Light for Visual Artists*. London: Laurence King Publishing Ltd. 2013

Sidaway, Ian and Hoggett, Sarah. *The Practical Encyclopedia of Drawing*. London: Hermes House, 2012.

## PATTERN OF ASSESSMENT

### Continuous Assessment: 50 marks

Classwork	30 marks
Assignment	10 marks
Journal	10 marks

### End-Semester Examination

**Total Marks: 100**

**Duration: 3 Hours**

Question Paper Pattern – **one** out of two questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUDDHIST ARCHITECTURE AND SCULPTURE IN INDIA**

**CODE: 19FA/MC/BA33**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To introduce the beginnings of Indian art and Vedic philosophy
- To enable an understanding of Buddhist philosophy and its impact on artistic expression
- To provide an understanding of the Indian origins of Buddhist art and study the stylistic variations in Hinayana and Mahayana Buddhist architecture and sculpture

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the beginnings of art in India
- Understand Vedic and Buddhist philosophies
- Understand the form, function and development of Buddhist architecture and sculpture
- Identify the salient characteristics of Buddhist art and the stylistic differences between the Hinayana and Mahayana phases
- Apply formal, contextual and comparative modes to analyse architecture and sculpture

**Unit 1 (07 hrs)**

**Beginnings of Indian Art**

- 1.1 Prehistoric cave paintings of Bhimbetka
- 1.2 Art of the Indus Valley
  - 1.2.1 Architecture: Great Bath, Granary, Mohenjodaro; Lothal Dock Layout
  - 1.2.2 Sculpture: Seals, Dancing Girl, Bearded Man

**Unit 2 (03 hrs)**

**Vedic and Buddhist philosophies**

- 2.1 Vedic age and its philosophy
- 2.2 Buddhist philosophy and symbolism

**Unit 3 (12 hrs)**

**Hinayana Phase**

- 3.1 Stupa: Stupa No.1, Sanchi, Amaravathi
- 3.2 Chaitya: Lomas Rishi, Bhaja, Nasik, Ajanta Caves 9 & 10
- 3.3 Vihara: Ajanta Caves 8, 12 & 13

**Unit 4 (10 hrs)**

**Mahayana Phase**

- 4.1 Chaitya: Ajanta Caves 19 & 26; Karle
- 4.2 Vihara: Ajanta Caves 1, 16, 17, 21; Cave No. 12, (Tin Thal), Ellora



## Unit 5

(20 hrs)

### Sculpture

- 5.1 Stambha: Ashoka Pillar, Bull capital, Rampurva; Lion capital, Lauriya Nandangarh; Lion capital, Sarnath
- 5.2 Yaksha, Parkham; Yakshi (Chulakoka Devata), Yaksha (Kubera), Bharhut; Yakshi, Didarganj
- 5.3 Vedika: Ruru jataka, Mahakapi jataka, Dream of Queen Maya, Purchase of Jetavanarama Monastery, Bharhut; Subduing of the Mad Elephant Nalagiri, Mandhata jataka, Veneration of the Begging Bowl, Amaravathi
- 5.4 Torana: Evolution of capitals, Sanchi Stupa No.1; The Enlightenment, Western gateway; The Great Departure, Conversion of Kashyap Brothers, Salabhanjika/Yakshi, Eastern gateway
- 5.5 Standing Buddha, Hoti Mardan, Standing Buddha, Sarnath, Seated Buddha, Katra, Seated Buddha, Sarnath

### BOOKS FOR STUDY

Brown, Percy. *Indian Architecture Vol. I: Buddhist and Hindu*. Bombay: D.B. Taraporevala Sons, 1971.

Harle, J.C. *The Art and Architecture of the Indian Subcontinent*. Middlesex: The Pelican History of Art Series, Penguin, 1986.

Tömöry, Edith. *A History of Fine Arts in India and the West*. Madras: Orient Longman, 1982.

### BOOKS FOR REFERENCE

Cunningham, A. *The Stupa at Bharhut*. Varanasi: Indological Book House, 1962.

Dehejia, Vidya. *Early Buddhist Rock Temples*. London: Thames and Hudson, 1972.

Dehejia, Vidya. *Indian Art*. London: Phaidon, 1997.

Fisher, Robert E. *Buddhist Art and Architecture*. London: Thames & Hudson, 2006.

Harle, J.C. *Gupta Sculpture*. Oxford: Clarendon, 1974.

Pant, Pushesh. *Ajanta and Ellora Cave Temples of Ancient India*. Holland: Roli, 2007.

Rao, S.R. *Lothal and the Indus Civilisation*. London: Asia Publishing House, 1973.

Talim, Meena. *Buddhist Art*. 2 Vols. Delhi: Buddhist World Press, 2014.

### PATTERN OF ASSESSMENT

**Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components: Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

**End-Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ART IN EUROPE (1280-1790)**

**CODE: 19FA/MC/AE34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of the concepts and characteristics of painting and sculpture of the Renaissance, Mannerist, Baroque and Rococo periods
- To provide awareness of the major stylistic developments in European art between the late thirteenth and eighteenth centuries and how they reflect trends and concerns in the societies in which they were made
- To create an awareness of the presence of successful women artists in a male-dominated era

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand developments in European art from the Renaissance up to the Rococo periods
- Begin developing skills in critical visual analysis based on the study of selected images of Renaissance and Baroque art
- Apply formal, contextual and comparative modes to analyse works of art
- Identify major artists and sculptors who contributed to developments in art
- Appreciate the contribution of women artists

**Unit 1 (05 hrs)**

**Movement Away from Medievalism in Art**

Cimabue, Giotto de Bondone, Duccio di Buoninsegna

**Unit 2 (10 hrs)**

**Early Renaissance**

2.1 Italian Renaissance: Lorenzo Ghiberti, Donatello, Masaccio, Sandro Botticelli, Piero della Francesca

2.2 Northern Renaissance: Jan van Eyck, Hieronymus Bosch

**Unit 3 (25 hrs)**

**High Renaissance and Mannerism**

3.1 High Renaissance: Italy: Leonardo da Vinci, Michelangelo, Raphael, Titian, Albrecht Dürer, Sofonisba Anguissola

3.2 Mannerism: Bronzino, El Greco

**Unit 4** **(20 hrs)**  
**Baroque**

- 4.1 Italy: Gianlorenzo Bernini, Caravaggio, Artemisia Gentileschi
- 4.2 Spain: Diego Velasquez
- 4.3 Flanders: Peter Paul Rubens
- 4.4 Holland: Rembrandt van Rijn, Jan Vermeer
- 4.5 France: Nicolas Poussin, Claude Lorrain

**Unit 5** **(05 hrs)**  
**Rococo and Taste for the 'Natural'**

- 5.1 Rococo: Antoine Watteau
- 5.2 Taste for the 'Natural': Jean-Baptiste Simeon Chardin, William Hogarth, Elisabeth Louise Vigee-Lebrun, Thomas Gainsborough

**BOOK FOR STUDY**

Kleiner, Fred S. *Gardners' Art Through the Ages*. 13<sup>th</sup> ed. Belmont: Wadsworth Publishing, 2009.

**BOOKS FOR REFERENCE**

Copplestone, Trewin. *Michelangelo*. United Kingdom: Grange Books. 2002.

Chadwick, Whitney. *Women, Art and Society*, 5<sup>th</sup> ed. World of Art series. London: Thames and Hudson, 2012.

Craske, Matthew. *Art in Europe 1700-1830*. New York: Oxford University Press. 1997.

Dewald, Ernest T. *Italian Painting 1200-1600*. New York: Holt, Rinehart and Winston, 1961.

Field, D. M. *Leonardo Da Vinci*. United Kingdom: Grange Books. 2002.

Gregory, Clive, and Sue Lyon, ed. *The High Renaissance*. Great Artists of the Western World series, New York: Marshall Cavendish, 1987.

Gregory, Clive, and Sue Lyon, ed. *The Early Renaissance*. Great Artists of the Western World series. New York: Marshall Cavendish, 1988.

Kitson, Michael. *The Age of Baroque*. Landmarks of the World's Art series. London: Paul Hamlyn, 1967.

Muntz, Eugene. *Leonardo Da Vinci: Artist, Thinker and Man of Science*. vol. 1. Kent: Grange Books. 2006.

Shearman, John. *Mannerism*. Harmondsworth: Penguin, 1967.

Tömöry, Edith. *History of Fine Arts in India and the West*. Madras: Orient Swan, 2009.

Welch, Evelyn. *Art and Society in Italy 1350-1500*. New York: Oxford University Press. 1997.

## **PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test:      Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

**End Semester Examination:      Total Marks: 100      Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BASIC PAINTING PRACTICAL**

**CODE: 19FA/AC/P335**

**CREDITS: 5**

**L T P: 0 0 6**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To provide an exposure to basic painting procedures and techniques using watercolours, inks, oils, acrylics and mixed media
- To enable an awareness of colour theory and colour mixing
- To inculcate an understanding of painting light, shadow and reflections

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand colour theory in painting
- Identify the characteristics of different painting media
- Explore the use of painting media in a range of techniques
- Paint compositions in various media and techniques
- Develop compositions in mixed media

<b>Unit 1</b>	<b>(10 hrs)</b>
<b>Colour Theory and Relationships</b>	
<b>Unit 2</b>	<b>(20 hrs)</b>
<b>Watercolour &amp; Inks</b>	
Wash, Wet-on-dry, Wet-on-wet, Brush Painting, Masking Techniques	
<b>Unit 3</b>	<b>(15 hrs)</b>
<b>Oils</b>	
Glazing, Alla Prima, Impasto, Knife Painting	
<b>Unit 4</b>	<b>(20 hrs)</b>
<b>Acrylics</b>	
Glazing, Alla Prima, Impasto, Knife Painting, Opaque Wash	
<b>Unit 5</b>	<b>(13 hrs)</b>
<b>Mixed Media</b>	

**GUIDELINES**

- Demonstration of techniques that have not been prescribed in the syllabus may be conducted
- Peer review is to be conducted periodically
- A painting journal submitted monthly will be a mandatory component of the continuous assessment

## BOOKS FOR REFERENCE

- Felder, Eugene. *Still Life Fundamentals*. London: Kandour, 1956.
- Fig, Joe. *Inside the Painter's Studio*. New York: Princeton Architectural Press, 2009.
- Harrison, Hazel. Art School, *How to Paint and Draw*. London: Hermes House, 2009.
- Herniman, Barry. *Painting Mood and Atmosphere*. Kent: Search Press, 2004.
- King, Jennifer, ed. *Work Small, Learn Big! Sketching with Pen & Watercolor*. Nevada: International Artist Publishing, 2003.
- Mulick, Milind. *Watercolour*. Pune: Jyotsna Prakashan, 2000.
- Parramon, Jose M. *Basic Techniques and Exercises – Painting Landscape and Still Lifes in Watercolour*. New York: Watson - Guptill Publications, 1998.
- Sidaway, Ian. *Mastering the Art of Oils, Acrylics and Gouache*. London: Hermes House, 2014.
- Simpson, Ian, ed. *Complete Painting Course*, London: HarperCollins Publishers, 1993.
- Tappenden, Curtis, et al. *Complete Art Foundation Course*. London: Octopus Publishing, 2006.
- Webb, David. *Still Life in Watercolour*, Kent: Search Press, 2005.

## PATTERN OF ASSESSMENT

### Continuous Assessment: **50 marks**

Classwork	30 marks
Assignment	10 marks
Journal	10 marks

### End-Semester Examination

**Total Marks: 100**

**Duration: 3 Hours**

Question Paper Pattern – **one** out of two questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19FA/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ART IN EUROPE (1780-1910)**

**CODE: 19FA/MC/AE43**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To introduce key developments in the late eighteenth and nineteenth-centuries, and their impact on European art
- To identify key works, significant artists, concepts, characteristics and styles of nineteenth century European art
- To highlight the role of women artists of the period

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the development of nineteenth century art
- Identify and visually analyse the major movements in late eighteenth and nineteenth-century Western art
- Place major artworks and artists in their cultural, social and historical context
- Discuss how nineteenth-century art related to its artistic precedents in terms of historical styles and themes
- Understand how the role of the artist changed in the course of the nineteenth century

**Unit 1 (02 hrs)**

**Age of Enlightenment**

- 1.1 Empiricism and progress
- 1.2 Science and technology: Industrial Revolution

**Unit 2 (12 hrs)**

**Neo-Classicism and Romanticism**

- 2.1 Revival of interest in Classicism: Angelica Kauffman
- 2.2 Neo-Classicism: Jacques Louis David, Antonio Canova, Jean-Auguste-Dominique Ingres
- 2.3 Romanticism: William Blake, Francisco Goya, Theodore Gericault, Eugene Delacroix, John Constable, Joseph Turner

**Unit 3 (10 hrs)**

**The Rise of Modernism**

- 3.1 Realism: Gustave Courbet, Jean Francois Millet, Honore Daumier, Edouard Manet, Jean-Baptiste Carpeaux, Auguste Rodin
- 3.2 Pre-Raphaelite Brotherhood: John Everett Millais, Dante Gabriel Rossetti

**Unit 4 (14 hrs)**

**Impressionism**

Claude Monet, Pierre-Auguste Renoir, Edouard Manet, Edgar Degas, Henri de Toulouse Lautrec, Mary Cassatt

**Unit 5 (14 hrs)**

**The Later 19<sup>th</sup> Century**

- 5.1 Post Impressionism: Vincent van Gogh, Paul Gauguin, Georges Seurat, Paul Cezanne
- 5.2 Symbolism: Henri Rousseau, Edvard Munch
- 5.3 Arts and Crafts Movement: William Morris, Charles Rennie Mackintosh
- 5.4 Art Nouveau: Victor Horta, Aubrey Beardsley, Gustav Klimt

**BOOK FOR STUDY**

Kleiner, Fred S. *Gardners' Art through the Ages*. 13<sup>th</sup> ed. Belmont: Wadsworth Publishing, 2009.

**BOOKS FOR REFERENCE**

Benjamin, Roger, ed. *Orientalism: Delacroix to Klee*. Auckland: The Art Gallery of New South Wales, 1997.

Bowness, Alan. *Modern European Art*. World of Art series. London: Thames and Hudson, 1985.

Craske, Matthew. *Art in Europe 1700-1830*. New York: Oxford University Press, 1997.

Denis, Rafael Cardoso, and Colin Trodd. *Art and the Academy in the Nineteenth Century*. Manchester: Manchester University Press, 2000.

Facos, Michelle. *An Introduction to Nineteenth Century Art*. New York: Routledge, 2011.

Honour, Hugh. *Romanticism*. London: Allen Lane and Penguin, 1979.

Huyghe, Rene, ed. *Larousse Encyclopedia of Modern Art*. New York: Hamlyn, 1974.

Kapos, Martha, ed. *The Impressionists and Their Legacy*. New York: Barnes and Noble, 1995.

Meechaam, Pam, and Julie Sheldon. *Modern Art: A Critical Introduction*. London: Routledge, 2000.

Shone, Richard. *The Post-Impressionists*. Leicester: Galley, 1979.

Stangos, Nikos, ed. *Concepts of Modern Art*. World of Art series. London: Thames and Hudson, 1994.

*The 19<sup>th</sup> Century: Romanticism and Impressionism*. The Great Artists: Their Lives, Works and Inspiration series, vol. I. London: Marshall Cavendish, 1985.

## **PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test: Total Marks: 50      Duration: 90 minutes**

Section A –  $3 \times 10 = 30$  marks (3 out of 4 questions)

Section B –  $1 \times 20 = 20$  marks (1 out of 2 questions)

**Other Components:                      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

**End Semester Examination:                      Total Marks: 100      Duration: 3 Hours**

Section A –  $4 \times 10 = 40$  marks (4 out of 6 questions)

Section B –  $3 \times 20 = 60$  marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HINDU ARCHITECTURE AND SCULPTURE**

**CODE: 19FA/MC/HA45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To trace the evolution of Hindu architecture and sculpture in India
- To situate the Hindu temple in its socio-cultural context
- To critically analyse Hindu sacred architecture and sculpture from India using appropriate vocabulary
- To provide an understanding of key themes and iconography in the study of Hindu sculpture

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the form, function and development of Hindu architecture and sculpture
- Understand the political, social and religious contexts for the production and use of Hindu architecture and sculpture in medieval India
- Differentiate between the Nagara, Vesara and Dravidian styles of Hindu temple architecture
- Identify key themes in Hindu sculpture through study of iconography and symbolism
- Identify and discuss select examples of architecture and sculpture

**Unit 1 (03 hrs)**

**The Hindu Temple**

- 1.1 Introduction
- 1.2 Hindu temple: concept, plan, elevation, socio-cultural functions

**Unit 2 (07 hrs)**

**Modes and styles of Temple Architecture**

- 2.1 Modes of Hindu temples: rock cut and structural
- 2.2 Styles of Hindu temples: Nagara, Vesara, Dravida

**Unit 3 (20 hrs)**

**North Indian**

- 3.1 Rockcut: Siva temple, Mahesamurti, Elephanta Cave 1; Kailasanatha temple, Ravana shaking Mount Kailasa, Ellora
- 3.2 Structural: Dasavata temple, Deogarh; Lingaraja temple, Bhuvaneswar; Sun temple, Wheel, Surya, Konarak; Kandariya Mahadeva temple, sculpture, Khajuraho

**Unit 4 (10 hrs)**

**Central Indian**

Chenna Kesava temple, Belur; Hoysaleswara temple, plinth reliefs, Halebid; Kesava temple, relief sculptures, Somnathpur

**Unit 5 (25 hrs)**

**South Indian**

- 5.1 Rock cut: Mamallapuram - Varaha Mandapa, Bhu Varaha, Somaskanda panel; Mahishasura Mandapa, Mahishasuramardini panel; Five Rathas, Arjuna's Penance
- 5.2 Structural: Shore temple, Mamallapuram; Kailasanatha temple, Kanchipuram; Brihadeswara temple, Thanjavur; Meenakshi Amman temple, Madurai
- 5.3 Bronzes: Ardhanareswara, Kalyanasundara Marriage of Siva to Parvati, Siva Nataraja

**BOOKS FOR STUDY**

Brown, Percy. *Indian Architecture Vol. I: Buddhist and Hindu*. Bombay: D.B. Taraporevala, 1971.

Tömöry, Edith. *A History of Fine Arts in India and the West*. Madras: Orient Longman, 1982.

**BOOKS FOR REFERENCE**

Anantharaman, Ambujam. *Temples of South India*. Chennai: East West, 2009.

Champakalakshmi, R. *The Hindu Temple*. New Delhi: Roli and Janssen B. V., 2001.

Champakalakshmi R. *Religion, Tradition and Ideology: Pre-colonial South India*. New Delhi: Oxford University Press, 2011.

Dehejia, Vidya. *Indian Art*. London: Phaidon, 1997.

Deva, Krishna. *Temples of North India*. India: National Book Trust, 1985.

Guy, John. *Indian Temple Sculpture*. Chennai: Westland Books, 2011.

Krishnan, Gauri Parimoo. *The Power of the Female: Devangana Sculptures on Indian Temple Architecture*. New Delhi: D.K. Printworld (P) Ltd., 2014.

Michell, George. *Hindu Art and Architecture*. London: Thames and Hudson, 2000.

Michell, George and Peterson, Indira Viswanathan. *The Great Temple of Thanjavur: One Thousand Years, 1010 – 2010*. Mumbai: The Marg Foundation, 2010.

Morley, Grace. *Indian Sculpture*. New Delhi: Roli Books, 2005.

Nagaswamy, R. *Brhadiswara Temple: Form and Meaning*. New Delhi: Indira Gandhi National Centre for the Arts and Aryan Books International, 2011.

Nagaswamy R. *Visnu Temples of Kancipuram*. New Delhi: D.K. Printworld (P) Ltd., 2011.

Pande, Dr. Alka. *Masterpieces of Indian Art*. New Delhi: Roli Books, 2007.

Sengupta, Arputha Rani. *Kailasanatha Temple – The Realm of Immortals*. Delhi: Agam Kala Prakashan, 2009.

Sivaram, Rama S. *Early Chola Art: Origin & Emergence of Style*. New Delhi: Navrang, 1994.

Swaminathan, S. *Mahabalipuram: Unfinished Poetry in Stone*. India: Arkey Graphics, 2011.

Vasudevan, Geeta. *The Royal Temple of Rajaraja: An Instrument of Imperial Cola Power*. New Delhi: Abhinav Publications, 2003.

## **PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test: Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:                      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

**End Semester Examination:                      Total Marks: 100      Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FIGURE DRAWING PRACTICAL**

**CODE: 19FA/MC/P245**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To introduce figure drawing through the study of human structure and form
- To enable an understanding of the figure through simplification into three dimensional forms and gesture studies
- To provide an understanding of the structure of the head and facial expression
- To enable the drawing of human figures in proportion and different postures

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand human anatomy and structure
- Construct the human figure using principles of mannequinisation
- Draw and render facial features and portraits in different angles
- Draw human forms in proportion
- Draw and render full figures in various postures

**Unit 1 (20 hrs)**

**Structure and Form**

- 1.1 Bones
- 1.2 Muscles

**Unit 2 (16 hrs)**

**Mannequinisation**

Landmarks, gesture and bean drawings

**Unit 3 (10 hrs)**

**Principles of Drawing the Head**

- 3.1 Proportions
- 3.2 Planes of the head
- 3.3 Facial features
- 3.4 Extreme angles of the head
- 3.5 Facial Expressions

**Unit 4 (25hrs)**

**Principles of Drawing the Full Figure**

- 4.1 Proportions
- 4.2 Postures
- 4.3 Perspective of figure

## Unit 5

(20 hrs)

### Figuration and tone

Mass drawing

### BOOKS FOR REFERENCE

- Hogarth, Burne. *Dynamic Anatomy*. New York: Watson-Guption Publications, 1990.
- Hogarth, Burne. *Dynamic Figure Drawing*. New York: Watson-Guption Publications, 1996.
- Cuthbert, David. *Figures – Lessons and Exercises to Develop your Painting and Drawing Technique*. New Jersey: Chartwell Books, 1994.
- Bridgman, George B. *The Book of a Hundred Hands*. New York: Dover, 1962.
- Buchan, Jack, and Baker Jonathan. *Step by Step Art School Portraits*. London: Hamlyn – Reed Consumer Books, 1995.
- Dunlop, James M. *Anatomical Diagrams for the Use of Art Students*. New York: Macmillan, 1946.
- Elven, Enmett. *Anatomy a Step by Step Guide*. London: Kandour, n.d.
- Lasalle, Charles. *How to Draw and Paint Heads and Figures in Charcoal*. California: Walter Foster, 1989.
- Loomis, Andrew. *How to Draw and Paint - Figures in Action*. California: Walter Foster, 1943.
- Raynes, John. *Human Anatomy for the Artist*. Middlesex: Hamlyn, 1979.
- Sachs, Paul J. *The Pocket Book of Great Drawings*. New York: Pocket Books, 1951.
- Tiner, Ron. *Figure Drawing Without a Model*. Devon: David and Charles, 2001.

### PATTERN OF ASSESSMENT

#### Continuous Assessment:

**50 marks**

Classwork	30 marks
Assignment	10 marks
Journal	10 marks

#### End-Semester Examination

**Total Marks: 100**

**Duration: 3 Hours**

Question Paper Pattern – **one** out of two questions



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DESIGN FUNDAMENTALS PRACTICAL**

**CODE: 19FA/MC/P345**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To understand the principles and elements of two-dimensional design
- To introduce the application of two-dimensional design
- To reinforce understanding of the principles and elements of design using skill-building exercises

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Utilise design development as an integral process of two-dimensional design
- Understand the elements of design
- Understand and effectively use the properties of colour and its interactions in two-dimensional design
- Create effective designs using the principles of design
- Use appropriate media and techniques for design rendering

**Unit 1 (12 hrs)**

**Point and Line**

- 1.1 Marks: dots
- 1.2 Lines: vertical, horizontal and diagonal lines
- 1.3 Line and space: positive and negative space

**Unit 2 (20 hrs)**

**Forms and Shapes**

**Unit 3 (20 hrs)**

**Texture**

- 3.1 Forms: organic and inorganic
- 3.2 Shapes: figure ground studies
- 3.3 Texture: visual and tactile

**Unit 4 (17 hrs)**

**Colour**

- 4.1 Colour wheel
- 4.2 Physical and psychological qualities
- 4.3 Colour interactions: harmony, contrasts, hue, intensity, value

**Unit 5****(22 hrs)****Principles of Design**

- 5.1 Balance, emphasis and rhythm
- 5.2 Unity and variety
- 5.3 Proportion and scale

**BOOKS FOR REFERENCE**

Ames, Lee J. *The Dot, Line and Shape Connection*. New York: Doubleday, 1982.

Cole, Alison. *Colour*. London: Dorling Kindersley, 1993.

Hampshire, Mark, and Keith Stephenson. *Communicating with Pattern: Stripes*. New Delhi: RotoVision, 2004.

Hampshire, Mark, and Keith Stephenson. *Communicating with Pattern: Circles and Dots*. New Delhi: RotoVision, 2006.

Morioka, Adams, and Terry Stone. *Colour Design Workbook: A Real World Guide for Using Colour in Graphic Design*. Massachusetts: Rockport, 2006.

Philips, Peter, and Gillian Bunce. *Repeat Patterns: A Manual for Designers, Artists and Architects*. London: Thames and Hudson, 1993.

**PATTERN OF ASSESSMENT****Continuous Assessment: 50 marks**

Classwork	40 marks
Assignment	10 marks

**End-Semester Examination****Total Marks: 100****Duration: 3 Hours**

Question Paper Pattern – **one** out of two questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DIGITAL PHOTOGRAPHY PRACTICAL**

**CODE: 19FA/AC/P445**

**CREDITS: 5**

**L T P: 0 0 6**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To provide training in the technical and aesthetic aspects of photography
- To enable the exploration of various genres of photography
- To provide an understanding of ambient and artificial lighting and shooting in outdoor and indoor settings
- To provide an awareness of image processing on Photoshop for select applications in art and design

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Handle a DSLR camera and shoot photographs that are aesthetic
- Understand and apply the elements of digital photography
- Create a photo essay in the genre of narrative photography
- Understand the nuances of commercial photography
- Creatively explore the scope and medium of photography in art and design

**Unit 1 (08 hrs)**

**Introduction to Photography**

- 1.1 History of photography: an overview
- 1.2 Genres of photography
- 1.3 Understanding the equipment: anatomy of camera
- 1.4 Physics of lens: camera obscura, focal length, depth of field, types of lenses

**Unit 2 (20 hrs)**

**Elements of Digital Photography**

- 2.1 Exposure: aperture, shutter speed, ISO
- 2.2 Principles of mise-en-scène: golden ratio, rule of thirds, perspective, view-point, emphasis
- 2.3 Light: direction, intensity, falloff, shadow, white balance, ambient, artificial
- 2.4 Colour theory: hue, value, saturation, temperature, interactions

**Unit 3 (10 hrs)**

**Narrative Photography**

- 3.1 Documentary
- 3.2 Photojournalism
- 3.3 Food

**Unit 4** (20 hrs)  
**Commercial Photography**  
4.1 Product photography  
4.2 Fashion photography

**Unit 5** (20 hrs)  
**Image Processing and Application of Photography**  
5.1 Art: constructed images, montage, photographic installation  
5.2 Design: posters, book wrappers, packaging

### BOOKS FOR REFERENCE

Ang, Tom. *Digital Photographer's Handbook: 5<sup>th</sup> Edition*. London: Dorling Kindersley, 2012.

Busch, David D. *Mastering Digital SLR Photography: The Serious Photographer's Guide to High-Quality Digital SLR Photography*. Boston: Thomson Course Technology, 2005.

Hicks, Roger and Schultz, Frances. *Product Shots*. Switzerland: Roto Vision SA, 1994.

Hicks, Roger and Schultz, Frances. *Still Life*. Switzerland: Roto Vision SA, 1996.

Hilton, Jonathan. *Close-up Photography*. Switzerland: Roto Vision SA.

London, Barbara and Jim Stone. *A Short Course in Digital Photography*. New Jersey: Pearson Education, 2010.

Yot, Richard. *Light for Visual Artists*. London: Laurence King Publishing Ltd. 2013.

### PATTERN OF ASSESSMENT

- There will be no end semester examination
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

**Continuous Assessment** **50 marks**

Classwork 40 marks

Assignment 10 marks

**Assessment of end semester submission** **50 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDO-ISLAMIC ARCHITECTURE**

**CODE: 19FA/MC/IA54**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable an awareness of the evolution of Islamic architecture in India
- To provide an understanding of the main characteristics of Islamic architecture and its dynastic and regional diversity
- To highlight the significance of patronage for the development of Islamic religious and secular architecture
- To understand the types and styles of Indo-Islamic architecture within the socio-cultural context

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the key aspects of the Islamic faith and its manifestation in architecture
- Critically analyse Indo-Islamic architecture using appropriate vocabulary
- Identify the types of religious and secular architecture
- Discuss the differences between the Imperial, Provincial and Mughal styles of architecture
- Identify and discuss the development of architecture under the patronage of the most influential Mughal emperors

**Unit 1 (02 hrs)**  
**Introduction to Islamic Art**  
Religious concepts

**Unit 2 (05 hrs)**  
**Types and styles of Islamic architecture**  
2.1 Types of architecture: religious and secular  
2.2 Styles of architecture: Imperial, Provincial, Mughal

**Unit 3 (18 hrs)**  
**Imperial style**  
3.1 Slave Dynasty: Qalai-Rai-Pithara, Qutb Complex – Quwat-ul-islam Mosque, Qutb Minar, Delhi; Arhai-din-ka Jhompra, Ajmer; Tomb of Iltutmish, Delhi  
3.2 Khalji and Tughlaq: Alai Darwaza, Jamat Khana Masjid, Delhi; Tomb of Ghias-ud-din Tughlaq, Tughlaqabad

- 3.3 Sayyid and Lodi: Square tombs and octagonal tombs of Mubarak Shah Sayyid, Mohammed Shah Sayyid and Sikander Lodi, Delhi; Jamala Masjid, Moth-ki-Masjid, Qila Kuhna Masjid, Delhi; Tomb of Sher Shah Sur, Sasaram
- Unit 4 (15 hrs)**  
**Provincial style**
- 4.1 Bengal: Chota Sona Masjid, Gaur  
 4.2 Jaunpur: Atala Masjid, Jami Masjid  
 4.3 Hyderabad: Golconda Fort, Charminar  
 4.4 Bijapur: Jami Masjid, Gol Gumbaz (Tomb of Muhammad Adil Shah)
- Unit 5 (25 hrs)**  
**Mughal Style**
- 5.1 Early Mughal period: Purana Qila, Delhi; Humayun's tomb, Delhi  
 5.2 Akbar: Jahangiri Mahal, Red Fort, Agra; Fatehpur Sikri complex, Agra  
 5.3 Jahangir: Akbar's tomb, Sikandra; Itmad-ud-Daulah's tomb, Agra; Jahangir's tomb, Lahore  
 5.4 Shahjahan: Diwan-i-Am, Agra Fort; Red Fort, Delhi; Jami Masjid, Delhi; Taj Mahal, Agra

### BOOK FOR STUDY

Brown, Percy. *Indian Architecture Vol. II: Islamic Architecture*. Bombay: D.B. Taraporevala, 1971.

Tömöry, Edith. *A History of Fine Arts in India and the West*. Madras: Orient Longman, 1982.

### BOOKS FOR REFERENCE

Bhalla, A.S. *Royal Tombs of India: 13<sup>th</sup> to 18<sup>th</sup> Century*. Ahmedabad: Mapin Publishing, 2009.

Bunce, W. Frederik. *Islamic Tombs in India: The Iconography and the Genesis of their Design*. New Delhi: D.K. Printworld, 2004.

Goel, Vikram Chandra. *Fatehpur Sikri: The City of Victory and Harmony*. New Delhi: Kitab Mahal, 2000.

Hillenbrand, Robert. *Islamic Art and Architecture*. London: Thames & Hudson Ltd., 1999.

Koch, Ebba. *Mughal Architecture*. New Delhi: Oxford University Press, 2002.

Lall, John, and D.N. Dube. *Taj Mahal and the Glory of Mughal Agra*. New Delhi: Lustre, 1985.

Mehta, Rustam J. *Masterpieces of Indo-Islamic Architecture*. Bombay: D.B. Taraporevala, 1976.

Michell, George and Zebrowski, Mark. *The New Cambridge History of India: Architecture and Art of the Deccan Sultanates*. United Kingdom: Cambridge University Press, 1999.

Sen Gupta, Subhadra. *Fatehpur Sikri*. New Delhi: Niyogi Books, 2013.

Singh, Sumit. *Islamic Architecture: A Critical Study*. New Delhi: Cyber Tech Publications, 2014.

## **PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test: Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:                      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

**End Semester Examination:                      Total Marks: 100      Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ART OF ASIA**

**CODE: 19FA/MC/AA54**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the arts of China, Korea, Japan, Sri Lanka, Nepal, Tibet, Thailand, Myanmar, Indonesia and Cambodia
- To trace the major developments in Asian art and relate subjects and styles to their historical, religious, political, and social contexts
- To develop visual and contextual analysis skills that will help in identifying key works from the Asian region
- To understand the international flavour of classic Buddhist art in its many related forms across Asian countries

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss major developments in the art of Asia
- Understand that the development and style of Asian art remained broadly integral to the history of Buddhism
- Understand how painting, sculpture and architecture represent diverse Asian societies
- Understand varied contexts of creation in the art of Asia
- Understand the relevance of minor arts in different cultures

**Unit 1 (20 hrs)**

**China**

- 1.1 Shang Dynasty  
Bronzes: Owl, Guang, Kuang, Birds and Snakes
- 1.2 Zhou and Qin Dynasty
  - 1.2.1 Zhou Jade: Bi-disk with dragons
  - 1.2.2 Qin: Terracotta Army, Lintong
- 1.3 Tang Dynasty
  - 1.3.1 Sculpture: Longmen Caves
  - 1.3.2 Painting: Thirteen Emperors; Wall painting, Tomb of Princess Youtai
- 1.4 Song Dynasty
  - 1.4.1 Painting: Monumental Style: Fan Kuan – Travellers on a Mountain Path
  - 1.4.2 Ma Yuan – On a Mountain Path in Spring, Egrets Beneath a Branching Tree
  - 1.4.3 Liang Kai – Shakyamuni Leaving his Mountain Retreat, Chopping Bamboo
  - 1.4.4 Zhou Jichang – Lohars Giving Alms to Beggars
  - 1.4.5 Mu Chi – Six Persimmons



- 1.5 Yuan Dynasty
  - 1.5.1 Painting: Wu Zhen – Stalks of Bamboo by a Rock, Fisherman’s Pleasure
  - 1.5.2 Huang Gongwang – Dwelling in Fuchun Mountains
  - 1.5.3 Porcelain: Temple Vase
- 1.6 Ming Dynasty
  - 1.6.1 Architecture & Landscape: Forbidden City, Beijing; Suzhou Gardens
  - 1.6.2 Painting: Shen Zhou – Lofty Mount Lu, Poet on a Mountain
  - 1.6.3 Dong Qichang – Dwelling in the Qingbian Mountains
- 1.7 Qing Dynasty
  - 1.7.1 Painting: Wang Chien – White Clouds over Hsiao and Hsiang
  - 1.7.2 Wang Hui – Ten Thousand Miles of the Yangtze
  - 1.7.3 Porcelain: Dish with lobed rim, Rose family of porcelain

**Unit 2 (05 hrs)**

**Korea**

- 2.1 Silla Kingdom: Cave temple, Sokkuram
- 2.2 Koryo Dynasty: Celadon ware- Maebyong vase
- 2.3 Chosen Dynasty: Architecture: Namdaemun, Seoul
- 2.4 Painting: Chong Son, Kungang Mountains

**Unit 3 (15 hrs)**

**Japan**

- 3.1 Asuka and Nara Period
  - 3.1.1 Architecture: Horyu-ji, Kondo; Daibutsuden, Todaiji
  - 3.1.2 Sculpture: Tori Busshi – Shaka Triad, Yakushi Triad
- 3.2 Heian Period
  - 3.2.1 Mandara: Taizokai
  - 3.2.2 Architecture: Phoenix Hall, Byodoin
  - 3.2.3 Hand scrolls: Tale of Genji (Genji Visits Murasaki), The Flying Storehouse, Legends of Mount Shigi
- 3.3 Kamakura Period
  - 3.3.1 Sculpture: Priest Shunjobo Chogen
  - 3.3.2 Painting: Night Attack on Sanjo Palace, Amida Descending over the Mountains (Hanging scroll)
- 3.4 Muromachi Period (Ashikaga)
  - 3.4.1 Painting: Sesshu Toyo – Flowers and Cranes (six-fold screens), Haboku Landscape
  - 3.4.2 Kano Motonobu – Zen Patriarch Xiangyan Zhixian Sweeping with a Broom, Cranes and Pines
- 3.5 Momoyama Period
  - 3.5.1 Painting Kano Eitoku – Chinese Lions, Cypress Tree
  - 3.5.2 Hasegawa Tohaku – Pine Forest, Flowers and Maple Leaves
- 3.6 Edo Period
  - 3.6.1 Architecture: Katsura Imperial Villa
  - 3.6.2 Painting: Ogata Korin – White Prunus in the Spring, Red Plum Blossoms
  - 3.6.3 Yosa Buson – Cuckoo Flying over New Verdure, Snowing landscape at Night
  - 3.6.4 Ukiyo-e: Suzuki Harunobu – Evening Bell at the Clock; Katsushika Hokusai – The Great Wave off Kanagawa

## Unit 4

(10 hrs)

### South Asia (Sri Lanka, Nepal, Tibet)

- 4.1 Sri Lanka
  - 4.1.1 Architecture: Stupa, Anuradhapura
  - 4.1.2 Sculpture: Gal Vihara (Pariniwana), Seated Buddha, Polannaruwa
  - 4.1.3 Mural Painting: Early period: Apsara figures; Sigiriya, Late period: Vihara 2 & 3, Dambulla Rajamahavihara
- 4.2 Nepal
  - 4.2.1 Architecture: Swayambanath Stupa, Kathmandu
  - 4.2.2 Sculpture: Birth of the Buddha, Vasundhara
- 4.3 Tibet
  - 4.3.1 Architecture: The Potala Palace, Lhasa, Chorten
  - 4.3.2 Sculpture: Sino-Tibetan Boddhisatva
  - 4.3.3 Painting: Thankas, Mandalas

## Unit 5

(15 hrs)

### South East Asia (Thailand, Myanmar, Indonesia, Cambodia)

- 5.1 Thailand
  - 5.1.1 Architecture: Si Satchanalai
  - 5.1.2 Sculpture: Walking Buddha, Sukhothai, Buddha Subduing Mara, Emerald Buddha
  - 5.1.3 Painting: Birth of Buddha
- 5.2 Myanmar
  - 5.2.1 Architecture: Schwedagon Pagoda, Rangoon, Ananda Temple
  - 5.2.2 Sculpture: Standing Buddha, Stele with screens from the Life of Buddha
- 5.3 Indonesia (Java)
  - 5.3.1 Architecture and Sculpture: Borobodur, Java
- 5.4 Cambodia
  - 5.4.1 Architecture: The Bayon, Angkor Wat, Angkor
  - 5.4.2 Sculpture: Harihara, Reclining Vishnu  
King Suryavarman II holding court (relief sculpture), Angkor Wat

## BOOKS FOR STUDY

Kleiner, Fred S. *Gardners' Art Through the Ages*. 13<sup>th</sup> ed. Belmont: Wadsworth Publishing, 2009.

## BOOKS FOR REFERENCE

Bandaranayake, Senake. *The Rock and Wall Paintings of Sri Lanka*. Colombo: Lake House Bookshop, 1986.

Brown, Rebecca M. and Deborah S. Hutton, *Asian Art*. UK: Blackwell Publishing, 2006.

Lee, E. Sherman. *A History of Far Eastern Art*. UK: Thames and Hudson, 1975.

Myers, Bernard, and Trewin Copplestone eds. *Asian Art: An Illustrated History of Sculpture, Painting and Architecture*. London: Hamlyn, 1987.

Swann, Peter. *Art of China, Korea and Japan*. London: Thames and Hudson, 1963.

Sickman, Laurence and Alexander Soper. *The Art and Architecture of China*. UK: Penguin Books, 1968.

Rawson, Philip. *The Art of Southeast Asia*. UK: Thames and Hudson, 1967.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test:      Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

### **End Semester Examination:      Total Marks: 100      Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DRAWING III PRACTICAL**

**CODE: 19FA/MC/P455**

**CREDITS: 5**

**L T P: 0 0 5**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To initiate the development of exploratory and creative drawings
- To develop ideation, research and concept based approaches in artistic expression
- To enable a shift from academic realism towards simplification and abstraction
- To enable the visualising and execution of drawings on three-dimensional forms

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Visualise and draw from experiences and observations
- Explore drawing as a process leading to simplification and abstraction
- Derive ideas and express concepts through creative compositions
- Develop drawn forms from varied inspirations into designs and icons
- Explore drawing as a means of artistic expression on surfaces of three-dimensional forms

<b>Unit 1</b>	<b>(10 hrs)</b>
<b>Expressive Drawing</b>	

<b>Unit 2</b>	<b>(15hrs)</b>
<b>Abstraction</b>	

<b>Unit 3</b>	<b>(20 hrs)</b>
<b>Conceptual Drawing</b>	

<b>Unit 4</b>	<b>(10 hrs)</b>
<b>Drawing for Design</b>	

<b>Unit 5</b>	<b>(10 hrs)</b>
<b>Drawing on Three-Dimensional Objects</b>	

## BOOKS FOR REFERENCE

Ching, Francis D. K. *Drawing: A Creative Process*. New York: Van Nostrand Reinhold, 1990.

Mittler, Gene A. and Howze, James. *Creating and Understanding Drawings*. USA: Glencoe Publishing, 1989.

Mulick, Milind, *Sketchbook*. Pune: Jyotsna Prakshan, 2007.

Rawson, Philip. *The Art of Drawing*. London: John Calmann & Cooper Ltd. 1983.

Rodwell, Jenny. *Drawing*. Middlesex: Hamlyn Publishing, 1988.

Sausmarez, Maurice de. *Basic Design: The Dynamics of Visual Form*. London: A & C Black (Publishers) Ltd. 2002.

Tupe, Shivaji. *Sketchbook*. Pune: Jyotsna Prakashan, 2007.

Vebell, Victoria. *Exploring the Basics of Drawing*. New York: Thomson Delmar Learning, 2005.

Wallschlaegar, Charles and Busic-Snyder, Cynthia. *Basic Visual Concepts and Principles*. United States of America. Wm. C. Brown Publishers. 1992.

Woods, Michael. *Pencil Drawing*. New York: Dover, 1987.

## PATTERN OF ASSESSMENT

**Continuous Assessment:** **50 marks**

Classwork	30 marks
Assignment	10 marks
Journal	10 marks

## End Semester Examination

**Total Marks: 100**

**Duration: 3 Hours**

Question Paper Pattern – **one** out of two questions

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ILLUSTRATION PRACTICAL**

**CODE: 19FA/ME/D155**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To facilitate the developing of hand rendered illustration skills
- To enable students to explore styles, techniques and media
- To enable students to develop a personal style of expression
- To foster creativity in developing illustrations for diverse applications

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand and apply the process of developing illustrations from ideation to final artwork
- Achieve proficiency in hand rendered illustration skills
- Effectively use media and techniques
- Develop a personal illustrative style
- Develop original and creative illustrations for diverse applications

**Unit 1 (11 hrs)**

**Introduction**

- 1.1 Styles of Illustration
- 1.2 The Illustration Process – concept, thumbnails, composition

**Unit 2 (20 hrs)**

**Textbook Illustration**

**Unit 3 (20 hrs)**

**Picture Book Illustration**

**Unit 4 (20 hrs)**

**Editorial Illustration**

**Unit 5 (20 hrs)**

**Fashion Illustration**

**GUIDELINES**

Media such as chalk, crayon, coloured pencil, photo colours, poster colours, cut paper and collage can be explored.

## **BOOKS FOR REFERENCE**

Bettley, James. *The Art of the Book: From Medieval Manuscript to Graphic Novel*. London: V&A Publications, 2001.

Bossert, Jill. *Children's Book Illustration*. Sussex: Rotovision, 1995.

Eyre, Doug. *Drawing Caricatures*. Wiltshire: The Crowood Press, 2007

Haller, Susan. *Stock Workbook Illustration 2*: Scott & Daughters Publishing, Inc., 2000

Lewis, Brian. *An Introduction to Illustration*. London: Grange Books, 1995.

Seaman, Julian. *Fashion Illustration: Basic Techniques*. London: B.T. Batsford, 1996.

Ward, Dick. *Illustration for Advertising*. London: Macdonald, 1988.

## **PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

### **Continuous Assessment**

**50 marks**

Classwork      40 marks

Assignment    10 marks

**Assessment of End Semester Submission    50 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PAINTING I PRACTICAL**

**CODE: 19FA/ME/A155**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To enhance skills in academic painting of still life, landscape, figures and portraits
- To enable the rendering of realistic colour, light and texture in observed forms
- To strengthen skills in creating compositions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate proficiency in the use of painting media and techniques
- Observe and paint forms exploring the dynamics between colour and light
- Demonstrate proficiency in the rendering of realistic surface qualities of observed forms
- Paint still life, landscape, figures and portraits in an academic style
- Observe and organise compositions in varied themes

<b>Unit 1</b>	<b>(11 hrs)</b>
<b>Exploration of colour and light</b>	

<b>Unit 2</b>	<b>(10 hrs)</b>
<b>Study of textures and details</b>	

<b>Unit 3</b>	<b>(25 hrs)</b>
<b>Still Life</b>	

<b>Unit 4</b>	<b>(20 hrs)</b>
<b>Landscape</b>	

<b>Unit 5</b>	<b>(25 hrs)</b>
<b>Figures and Portraits</b>	

**GUIDELINES**

- Students are required to work in the academic style. For Units 3, 4 and 5, students will paint two works, one being a copy of a masterwork and the other, an original composition.
- Peer review is to be conducted periodically.



## BOOKS FOR REFERENCE

- Bridgman, George B. *The Book of a Hundred Hands*. New York: Dover, 1962.
- Buchan, Jack, and Baker Jonathan. *Step by Step Art School Portraits*. London: Hamlyn – Reed Consumer Books, 1995.
- Daniels, Alfred. *An Introduction to Painting with Acrylics*. London: Apple Press, 1988.
- Dunlop, James M. *Anatomical Diagrams for the Use of Art Students*. New York: Macmillan, 1946.
- Felder, Eugene. *Still Life Fundamentals*. London: Kandour, n.d.
- Great Artists of the Western World: English Portraiture and Landscape*. London: Marshall Cavendish, 1987.
- Great Artists of the Western World: The French Rococo*. London: Marshall Cavendish, 1987.
- Harrison, Hazel. *Art School, How to Paint and Draw*. London: Hermes House, 2009.
- Herniman, Barry. *Painting Mood and Atmosphere*. Kent: Search, 2004.
- Ian, Harper. *Complete Painting Course*. London: Collins, 1993.
- King, Jennifer, ed. *Work Small, Learn Big! Sketching with Pen and Watercolor*. Nevada: International Artist Publishing, 2003.
- King, Jennifer, ed. *Work Small, Learn Big! Sketching with Pen & Watercolor*. Nevada: International Artist, 2003.
- Kitson, Michael and Wedgwood Alexandra. *Art of the Western World: English Painting*. London: Paul Hamlyn, 1965.
- Knapp, Stephen. *Portrait Inspirations: Collection of Drawing and Painting Ideas for Artists*. Massachusetts: Rockport Publishers, 1997.
- Loomis, Andrew. *How to Draw and Paint - Figures in Action*. California: Walter Foster, 1943.
- Mulick, Milind. *Methods and Techniques Opaque Colour*. Pune: Jyotsna Prakashan, 2008.
- Mulick, Milind. *Watercolour*. Pune: Jyotsna Prakashan, 2000.
- Parramon, Jose M. *Basic Techniques and Exercises – Painting Landscape and Still Lifes in Watercolour*. New York: Watson-Guption, 1998.
- Pearsall, Ronald. *Introduction to Watercolour, Gouache and Tempera*. London: Grange Books, 1993.
- Pearsall, Ronald. *Practical Painting*. Belgium: Connoisseur, 1983.
- Shelar, Sanjay. *Still Life*. Mumbai: Jyotsna Prakashan, 2008.
- Sidaway, Ian. *Mastering the Art of Oils, Acrylics and Gouache*. London: Hermes House, 2014.

Simpson, Ian, ed. *Complete Painting Course*. London: Harper Collins, 1993.

Slive, Seymour. *Dutch Painting: fifteenth to seventeenth centuries*. London: Beaverbrook Newspapers Limited.

*Techniques of the Great Masters of Art*. London: Park Lane, 1993.

### **PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

#### **Continuous Assessment**

**50 marks**

Classwork      40 marks

Assignment    10 marks

**Assessment of End Semester Submission   50 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Departments of Fine arts and English  
to Bachelor of Visual Arts Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COLONIAL ART AND LITERATURE**

**CODE: 19ID/IC/CA55**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce students to painting and architecture in colonial India
- To introduce them to writing from and about colonial India
- To train them to critically analyse colonial literature using the framework of Postcolonialism

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand how colonialism changed the nature of painting in India
- Understand how colonialism changed the nature of architecture in India
- Identify colonial influence in architecture of the British Raj
- Read and respond aesthetically to literature from and about the Colonial period
- Engage with colonial literature critically and identify the discourses of power that informed their production and reception

**Unit 1 (13 hrs)**

**Introduction**

- 1.1 Introduction to Colonial Art and Architecture
  - 1.1.1 East India Company
  - 1.1.2 Introduction of European academic naturalism
- 1.2 Introduction to Colonial Literature
  - 1.2.1 Occident-orient
  - 1.2.2 Mimicry, ambivalence
  - 1.2.3 Diaspora, identity, belonging
  - 1.2.4 Historiography – traditional, postmodern

**Unit 2 (15 hrs)**

**Painting the Raj**

- 2.1 Company painting
- 2.2 British artists in India
  - 2.2.1 Amateur artists: Sir Charles D'Oyly, Colin MacKenzie
  - 2.2.2 Official and Professional artists: William Hodges, Thomas and William Daniell, Tilly Kettle, Johan Zoffany, George Chinnery
- 2.3 Establishment of Art Schools and Societies
- 2.4 Raja Ravi Varma

- 2.5 Bazaar art
  - 2.5.1 Kalighat painting
  - 2.5.2 Popular prints

**Unit 3 (20 hrs)**

**Building the Raj**

- 3.1 Colonial beginnings: Fort St George and St Mary's Church, Chennai
- 3.2 Indo-Saracenic Style: Victoria Terminus (Chhatrapati Shivaji Terminus) Mumbai; University Senate House, Chennai; Madras High Court, Chennai
- 3.3 Neo-Classical Style: Viceroy's House (Raj Bhavan), Kolkata; Victoria Memorial Hall, Kolkata; Viceroy's Palace (Rashtrapati Bhavan), New Delhi

**Unit 4 (20 hrs)**

**Writing the Raj**

- 4.1 Anna Maria: Adieu to India
- 4.2 Emily Eden: *Up the Country* (Chapter III)
- 4.3 George Orwell: Shooting an Elephant
- 4.4 Rudyard Kipling: The Ballad of the East and West

**Unit 5 (10 hrs)**

**Rewriting the Raj**

- 5.1 William Dalrymple: *White Mughals*

**BOOKS FOR REFERENCE**

Archer, Mildred. *British Drawings in the India Office Library*, 2 volumes. HMSO, 1969.

Archer, Mildred. *Natural History Drawings in the India Office Library*, 2 volumes. HMSO, 1962.

Ashcroft, Bill et al. *Key Concepts in Post-Colonial Studies*. Routledge, 1998.

Chawla, Rupika. *Raja Ravi Varma: Painter of Colonial India*. Mapin, 2010.

Clarke, Robert, editor. *The Cambridge Companion to Postcolonial Travel Writing*. Cambridge UP, 2018.

Edwards, Justin D., and Rune Graulund, editors. *Postcolonial Travel Writing: Critical Explorations*. Palgrave Macmillan, 2011.

Irving, Robert Grant. *Indian Summer: Lutyens, Baker and Imperial Delhi*. Yale University, 1981.

Jain, Jyotindra. *Indian Popular Culture: The Conquest of the World as Picture*, 2<sup>nd</sup> edition, Apeejay Press, 2011.

Kalpna, K. and Frank Schiffer. *Madras: The Architectural Heritage* (INTACH Guide). EastWest Books, 2003.

Loomba, Ania. *Colonialism/Postcolonialism*. Routledge, 1998.

Mehrotra, Arvind Krishna. *A History of Indian Literature in English*. Hurst & Co. 2003.

Metcalf, Thomas, R. *An Imperial Vision: Indian Architecture and Britain's Raj*. Faber and Faber, 1989.

Mitter, Partha. *Art and Nationalism in Colonial India, 1850-1922*. Cambridge University Press, 1994.

Mohanty, Sachidananda, editor. *Travel Writing and the Empire*. Katha, 2003.

Moore-Gilbert, Bart J., editor. *Writing India, 1757-1990: The Literature of British India*. Manchester U P, 1986.

Morris, Jan, Simon Winchester. *Stones of Empire: The Buildings of the Raj*. Oxford University Press, 2005.

Muthiah, S. *Madras Rediscovered*, 6<sup>th</sup> edition, Westland, 2008.

Neumayer, Erwin, and Christine Schelberger. *Popular Indian Art: Raja Ravi Varma and the Printed Gods of India*. Oxford University Press, 2003.

Neumayer, Erwin, Christine Schelberger, editors. *Raja Ravi Varma: Portrait of an Artist, The Diary of C Raja Raja Varma*. Oxford University Press, 2005.

Said, Edward. *Orientalism*. Pantheon 1978.

Thomson, Carl. *Travel Writing*. Routledge, 2011.

### Online resources

<http://www.victorianweb.org>

## PATTERN OF EVALUATION

### Continuous Assessment

**Continuous Assessment Test:    Total Marks: 50    Duration: 90 minutes**

#### Section A

- a. 1 x 10 = 10 marks (1 out of 3 questions)
- b. 1 x 15 = 15 marks (1 out of 2 questions)

#### Section B

- c. 1 x 10 = 10 marks (1 out of 3 questions)
- d. 1 x 15 = 15 marks (1 out of 2 questions)

**Other Components:                    Total Marks: 50**

2 x 25 = 50 marks

Assignment, seminar, presentation, take home test, open book test, scheduled class work, passage analysis, quiz, panel discussion, group presentation

**End Semester Examination:                    Total Marks: 100    Duration: 3 hours**

#### Section A

- a. 3 x 10 = 30 marks (3 out of 5 questions)
- b. 1 x 20 = 20 marks (1 out of 2 questions)

#### Section B

- c. 3 x 10 = 30 marks (3 out of 5 questions)
- d. 1 x 20 = 20 marks (1 out of 2 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Departments of Fine Arts and English  
to B.A. English Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WRITING AND ART FOR PICTUREBOOKS**

**CODE: 19ID/IC/WA55**

**CREDITS: 5**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce the students to theoretical concepts in the production of picturebooks
- To help students appreciate the diversity of themes and presentation in picturebooks
- To visualise and develop illustrations for picturebooks
- To develop illustration skills using varied media
- To train them to produce a picture book using appropriate word choice, dialogue, narration, story structure, layout, images and colours

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Read and respond aesthetically and critically to a variety of picturebooks
- Understand the dynamics of picturebook building
- Explore different media and styles of illustration for picturebooks
- Ideate and develop a strategy using effective language and art for a picturebook
- Build a picturebook integrating illustrations and text

**Unit 1 (12 hrs)**

**Introduction to Picture Books**

- 1.1 Kinds of Picture Books : board books, concept books, novelty books, picturebooks
- 1.2 History of Picture Book Illustration—an overview
- 1.3 Picturebooks – definition, features
- 1.4 Kinds of Picturebooks : wordless picturebooks, picturebooks for the differently abled, postmodern picturebooks

**Unit 2 (15 hrs)**

**Picturebook Building**

- 2.1 Interplay of Text, Design and Illustration
- 2.2 Picture-Text Dynamics
- 2.3 Kinds of relationship between pictures and written text
- 2.4 Types of writing for Picturebooks : Prose and Verse, Cumulative Tales, Nonsense Verse, Metafiction

**Unit 3 (12 hrs)**

**Media Exploration and Techniques**

- 3.1 Drawing Media

- 3.2 Painting Media
- 3.3 Mixed Media

**Unit 4 (19 hrs)**

**Narrative Strategies**

- 4.1 Narrative Perspectives- Verbal and Visual
- 4.2 Intertextuality- Verbal and Visual
- 4.3 Intraiconic Texts
- 4.4 Sylleptic Texts/ Running Stories

**Unit 5 (20 hrs)**

**Illustrating a Picturebook**

- 5.1 Character Development
- 5.2 Thumbnails and Concept Sketches
- 5.3 Composition and Layout

**BOOKS FOR REFERENCE**

Bossert, Jill. *Children's Book Illustration: Step by Step Techniques*. RotoVision, 1998.

Butler, Catherine, and Kimberley Reynolds, editors. *Modern Children's Literature: An Introduction*. Palgrave, 2005.

Cullingford, Cedric. *Children's literature and its Effects: The Formative Years*. Cassel, 1998.

Flieshman, Michael. *Exploring Illustration*. New York: Thomsan Delmar Learning, 2004.

Harrison, Hazel. *The Encyclopedia of Drawing Techniques*. Search, 2004.

Haviland, Virginia, ed. *Children and Literature: Views and Reviews*. Bodley Head, 1973.

Kakar, Sudhir. *Indian Chidhood: Cultural Ideals and Social Reality*. OUP, 1979.

Lewis, David. *Reading Contemporary Picturebooks: Picturing Text*. Routledge, 2001.

Nikolajeva, Maria, and Carole Scott. *How Picturebooks Work*. Routledge, 2001.

Slade, Catharine. *The Encyclopedia of Illustration Techniques*. Quarto, 1997.

**PATTERN OF ASSESSMENT**

**There will be no End Semester Examination**

**Continuous Assessment:**

**Total Marks: 50**

Analysis of a Picturebook (Department of English)	25 marks
Ideation and Development of Illustration (Department of Fine Arts)	25 marks

**Continuous Assessment Test**

**Total Marks: 50**

**Duration: 90 mins.**

Section A – Short essays- four out of six	4x5=20 marks
Section B – Analysis - Picturebook (extract)	1x15=15 marks
Section C –Illustration – Ideation/Techniques	1x20=20 marks

**End Semester Evaluation by both course teachers:**

**Total Marks: 100**

Creation of a Picturebook

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MODERN AND POSTMODERN ART IN THE WEST**

**CODE: 19FA/MC/MP65**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of the concepts and characteristics of Western art of the twentieth century
- To provide an overview of the international rise of modernism and the challenge of the avant-garde
- To contextualize art in post-war Europe and USA and trace the significant shift from modernism to postmodernism
- To recognize the evolution and dominant influence of concepts, critique, and appropriation in the postmodern period

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Recognize key works of art produced in the twentieth century
- Critically analyse the visual qualities of modern and postmodern artworks and to contextualize their artistic practice
- Appreciate modern art movements in relation to the social, economic, scientific and political contexts
- Discuss the shift from Modernism to Postmodernism and beyond
- Discuss key terms and concepts from art history of the modern and postmodern periods

**Unit 1 (02 hrs)**

**Evolution of Modernism and the Avant-Garde**

- 1.1 Scientific development
- 1.2 Political upheaval: the World Wars

**Unit 2 (18 hrs)**

**Art in Europe and USA – till the 1940s**

- 2.1 Fauvism: Henri Matisse
- 2.2 Expressionism: Ernst Ludwig Kirchner, Emil Nolde, Vassily Kandinsky, Franz Marc, Kathe Kollwitz
- 2.3 Cubism: Analytical and Synthetic – Pablo Picasso, Georges Braque, Aleksandr Archipenko
- 2.4 Futurism: Giacomo Balla, Umberto Boccioni, Marcel Duchamp
- 2.5 During the war (1920s-30s): Pablo Picasso, Max Beckmann, Ernst Barlach



- Unit 3** (25 hrs)  
**Art in Europe and USA – 1940s - 1960s**
- 3.1 Dada and Surrealism: Marcel Duchamp, Giorgio de Chirico, Salvador Dali, Frida Kahlo, Joan Miro, Paul Klee
  - 3.2 Abstraction: Piet Mondrian, Vassily Kandinsky, Constantin Brancusi, Henry Moore, Alexander Calder
  - 3.3 Existentialism: Alberto Giacometti
  - 3.4 Abstract Expressionism: Jackson Pollock, Willem de Kooning, Mark Rothko
  - 3.5 Pop Art: Roy Lichtenstein, Andy Warhol, Jasper Johns, Robert Rauschenburg
- Unit 4** (10 hrs)  
**From the Modern to the Postmodern**
- 4.1 Super-realism: Chuck Close, Duane Hanson
  - 4.2 Feminist art: Judy Chicago, Cindy Sherman, Barbara Kruger, Ana Mendieta, Guerrilla Girls, Kiki Smith
  - 4.3 Social and Political Art: Lorna Simpson, Chris Offili, Magdalena Abakanowicz, Jeff Koons, Mark Tansey
- Unit 5** (10 hrs)  
**Postmodernism and Beyond**
- 5.1 Environmental and Site-specific art: Robert Smithson, Christo and Jeanne-Claude
  - 5.2 Performance art: John Cage, Fluxus, Joseph Beuys, Carolee Schneemann
  - 5.3 Conceptual art: Joseph Kosuth, Bruce Nauman
  - 5.4 New Media: Nam June Paik, Bill Viola, Tony Oursler

### **BOOK FOR STUDY**

Kleiner, Fred S. *Gardners' Art Through the Ages*. 13<sup>th</sup> ed. Belmont: Wadsworth Publishing, 2009.

### **BOOKS FOR REFERENCE**

Acton, Mary. *Learning to Look at Modern Art*. London: Routledge, 2004.

Alcantara, Isabel, and Sandra Egnolff. *Frida Kahlo and Diego Rivera*. New York: Prestel, 2001.

Arnason, H.H. *A History of Modern Art*. 3<sup>rd</sup> ed. London: Thames and Hudson, 1986.

Bowness, Alan. *Modern European Art*. World of Art Series. London: Thames and Hudson, 1985.

Britt, David, ed. *Modern Art: Impressionism to Post-Modernism*. London: Thames and Hudson, 1989.

Castleman, Riva. *Prints of the 20<sup>th</sup> Century*. London: Thames and Hudson. 1997.

Chadwick, Whitney. *Women, Art and Society*, 5<sup>th</sup> edition, World of Art series. London: Thames and Hudson, 2012.

Curtis, Penelope. *Sculpture: 1900-1945*. New York: Oxford Press. 1999.

Elson, Albert E. *Origins of Modern Sculpture: Pioneers and Premises*. Oxford: Phaidon, 1978.

- Evans, Mike. *Defining Moments in Art*. London: Octopus, 2008.
- Fineberg, Jonathan. *Art Since 1940: Strategies of Being*. London: Laurence King, 1995.
- Foster, Hal. *Art Since 1900*. London: Thames and Hudson, 2004.
- Godfrey, Tony. *Conceptual Art*. Art and Ideas Series. London: Phaidon, 1998.
- Grover, Kelly. *100 Works of Art That Will Define Our Age*. London: Thames and Hudson, 2013.
- Lieser, Wolf. *Digital Art*. Cologne: H.F. Ullmann, 2009
- Meechaam, Pam, and Julie Sheldon. *Modern Art: A Critical Introduction*. London: Routledge, 2000.
- Moszynska, Anna. *Sculpture Now*. London: Thames and Hudson, 2013.
- New Perspectives in Painting*. trans. London: Phaidon, 2010.
- O'Reilly, Sally. *The Body in Contemporary Art*. London: Thames and Hudson. 2009.
- Osborne, Peter. *Conceptual Art*. London: Phaidon, 2002.
- Poling, Clark V. *Surrealist Vision and Technique: Drawings and Collages*. Georgia: Emory University, 1996.
- Read, Herbert. *A Concise History of Modern Sculpture*. London: Thames and Hudson, 1989.
- Robertson, Jean, and Craig McDaniel. *Themes of Contemporary Art: Visual Art after 1980*. New York: Oxford University Press, 2005.
- Rubin, William. *Primitivism in 20<sup>th</sup> Century Art*. 2 vols. New York: The Museum of Modern Art, 1994.
- Rush, Michael. *New Media in Art*. London: Thames and Hudson, 2011.
- Smith, Edward Lucie. *Artoday*. London: Phaidon, 2010.
- Stangos, Nikos, ed. *Concepts of Modern Art*. 2<sup>nd</sup> ed. World of Art Series. London: Thames and Hudson, 1994.
- Walther, Ingo F. *Art of the 20<sup>th</sup> Century*. 2 vols. London: Taschen, 1998.
- Wood, Paul, ed. *The Challenge of Avant-Garde*. Art and its Histories Series. London: Yale University Press, 1999.

#### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:                      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

**End Semester Examination:                      Total Marks: 100      Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDIAN PAINTING**

**CODE: 19FA/MC/IP65**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide an overview of traditional painting in India from prehistory to the nineteenth century
- To provide an understanding of the materials and techniques in painting murals and miniatures
- To trace the stylistic development and variances in painting as related to historical, religious, political, and social contexts
- To develop visual analysis skills that will help in identifying key paintings from various regions and time periods

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss the materials and techniques used in mural and miniature painting
- Understand the contexts of creation of Indian murals and miniatures
- Appreciate the visual language of traditional painting as a means of representation and expression
- Differentiate between geographical and period styles
- Apply formal, contextual and comparative modes to analyse traditional Indian painting

**Unit 1 (03 hrs)**

**Introduction**

- 1.1 Chitrasutras
- 1.2 Methods and materials

**Unit 2 (20 hrs)**

**Murals: Deccan and South India**

- 2.1 Ajanta
  - 2.1.1 Early phase: Cave 10 – Raja with Retinue, Chaddanta jataka, Syama jataka
  - 2.1.2 Middle phase: Cave 16 – Story of Nanda, Dying princess; Cave 17 – Vessantara jataka, Mother and Child before Buddha
  - 2.1.3 Late phase: Cave 1 – Mahajanaka jataka, Bodhisattva Avalokiteswara, Bodhisattva Padmapani
- 2.2 Tamil Painting

- 2.2.1 Pallava: Somaskanda panel, Kailasanatha temple, Kanchipuram; Parvati, Talagiriswara temple, Panamalai
- 2.2.2 Pandya: Lotus pool, Jain cave temple, Sittananavasal
- 2.2.3 Chola: Rajaraja I and his Guru, Story of Sundarar, Shiva Tripurantaka, Brihadiswara temple, Thanjavur
- 2.2.4 Vijayanagara: Virupaksha temple, Hampi; Virabhadra temple, Lepakshi
- 2.2.5 Nayaka: Jain temple, Tiruparutikunram; Marriage of Shiva and Parvati, Meenakshi temple, Madurai; Bhikshatana–Mohini panels, Nataraja temple, Chidambaram, Life of Parshvanath Thirthankara, Shravana Belagola Jain Matha, Mysore
- 2.3 Kerala
  - 2.3.1 Mahadeva temple, Ettumanur – Gopi vastraharana, Shiva Nataraja
  - 2.3.2 Padmanabhapuram palace temple, Padmanabhapuram: Vishnu Seshasayi, Krishna and Gopis
  - 2.3.3 Mattancheri palace, Kochi: Queens of Dasaratha giving birth, Battle between Rama and Ravana

### Unit 3

(12 hrs)

#### Murals: North and East India

- 3.1 Ladakh
  - 3.1.1 Sumstek, Alchi – Mahakala with Remati and Sridevi; Goddess Tara, Queen with a prince and a lama
  - 3.1.2 Saspol caves – Ekadashmukha Avalokitesvara
  - 3.1.3 Hemis monastery – Wheel of Life
- 3.2 Himachal Pradesh
  - 3.2.1 Tabo monastery, Spiti – Story of Sudhana
- 3.3 Rajasthan
  - 3.3.1 Bundi Fort, Badal Mahal – Rasa Leela and Krishna Leela on ceiling, Battle scene, King in his court
  - 3.3.2 Kotah Fort, Bada Mahal – Maharao Ram Singh's Shikar camp
  - 3.3.3 Dungarpur Fort, Juna Mahal – Royal durbar
  - 3.3.4 Paundarikji ki Haveli, Jaipur – Gangaur Mata's procession, Maharaja returning from the hunt

### Unit 4

(20 hrs)

#### Mughal Miniatures

- 4.1 Akbar
  - 4.1.1 Hamza Nama: Miharukht shoots her Bow at the Ring, Khurshidshehr frees Hamid, Sanghari-i-Balki and Lulu the Spy, The Faithless Wife
  - 4.1.2 Akbar Nama: Akbar Restraining Hawaii, Akbar Receiving the News of Salim's Birth, Akbar Crossing the Ganges
- 4.2 Jahangir: Deposition from the Cross, Shahjahan Durbar with Portuguese Envoys, Squirrels in a Chennar Tree, The Turkey Cock, Jahangir weighing Prince Khurram, Jahangir Prefers a Sufi to Kings, Jahangir's Dream, Prince Khurram, A Rustic Concert, The Dying Inayat Khan
- 4.3 Deccani Miniatures

- 4.3.1 Ahmednagar: Tarif-i-Hussain Shai King Sitting on the Throne, Elephant and Rider, Hindola Raga (Ragamala Series)
- 4.3.2 Bijapur: The Throne of Prosperity, Portrait of Ibrahim Adil Shah II, Adil Shah Hawking
- 4.3.3 Golcondo: Dancing Before Mohammed Quli Qutb Shah, Poet in a Garden

## Unit 5

(10 hrs)

### Rajput Miniatures

- 5.1 Bhakti movement
- 5.2 Rajasthani Schools
  - 5.2.1 Mewar: Lalita Ragini, Ayodhyakandha, Ramayana Manuscripts, Krishna and the Gopis
  - 5.2.2 Bundi: Krishna Subduing the Snake Kaliya, Bhairava Ragini, Vasanta Ragini (Ragamala Series), Lovers in a Pavilion, Bhao Singh of Bundi in his Harem Garden
  - 5.2.3 Kishangarh: Krishna and Radha in a Pavilion, A Courtly Paradise, Portrait of Bani Thani as Radha
- 5.3 Pahari Schools
  - 5.3.1 Basholi: Disguising her Real Intent, (Rasamanjari) Krishna and Maidens, Krishna Stealing Milk, Crowned Ganesha
  - 5.3.2 Kangra: Rama and Sita in the Forest, Radha Goes at Night to Krishna's House, Krishna Dallying with the Gopis, Worship of Mount Govardhan, Vasanta Raga

## BOOKS FOR STUDY

Anand, Mulk Raj. *Album of Indian Painting*. New Delhi: National Book Trust, 1973.

Brijbhushan, Jamila. *The World of Indian Miniatures*. Tokyo: Kodansha International, 1979.

Seth, Mira. *Indian Painting: The Great Mural Tradition*. Ahmedabad: Mapin Publishers, 2006

## BOOKS FOR REFERENCE

Ahluwalia, Roda. *Rajput Painting: Romantic, Divine and Courtly Art from India*. Ahmedabad: Mapin Publishing, 2008.

Almohammadi, Abdul Nasir and Panda, Rajaram. *Our Colourful World in Ajanta and Ellora*. New Delhi: Mittal Publications, 2011.

Barret, Douglas, and Basil Gray. *Indian Painting*. London: Skira, Macmillan, 1978.

Beach, Milo Cleveland. *The New Cambridge History of India: Mughal and Rajput Painting*. Cambridge: University Press, 2000.

Brown, Percy. *Indian Painting Under the Mughals*. New York: Hacker Art Books, 1975.

Chakraverty, Anjan. *Sacred Buddhist Painting*. New Delhi: Roli and Janssen, 2006.

- Ghosh, D.P. *Indian Painting: Eastern School*. New Delhi: Sundeep Prakashan, 1982.
- Goswamy, B.N. and Usha Bhatia eds., *Indian Painting*. New Delhi: Lalit Kala Akademi, 1995.
- Goswamy, B.N. and Fischer, Eberhard. *Pahari Masters: Court Painters of Northern India*. New Delhi: Niyogi Books, 2009.
- Goswamy, B.N. *Nala and Damayanti: A Great Series of Paintings of an Old Indian Romance*. New Delhi: Niyogi Books, 2015.
- Dr. Daljeet. *Ragachitra: Deccani Ragamala Paintings*. New Delhi: Niyogi Books, 2014.
- Kossak, Steven. *Indian Court Painting: 16<sup>th</sup> – 19<sup>th</sup> Century*. London: Thames and Hudson, 1997.
- Pande, Alka. *Shringara: The Many Faces of Indian Beauty*. New Delhi: Rupa Publications, 2011.
- Seth, Mira. *Wall Paintings of the Western Himalayas*. New Delhi: Ministry of Information and Broadcasting, 1976
- Schmitz, Barbara. *After the Great Mughals: Painting in Delhi and the Regional Courts in the 18<sup>th</sup> and 19<sup>th</sup> Centuries*. Mumbai: Marg Publications, 2002.
- Welch, Stuart Cary. *Imperial Mughal Painting*. New York: George Braziller, 1978.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test: Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:                      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

### **End Semester Examination:                      Total Marks: 100      Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TEXTILE DESIGN I PRACTICAL**

**CODE: 19FA/ME/D265**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To introduce the process of design development for textile surfaces
- To enable a thorough understanding of the synergy between ideation, research and design development
- To introduce dyeing and printing processes
- To enable the creation of original design solutions for block and screen printed textiles

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand and apply design development methodologies for textile surface design
- Derive designs from different sources
- Understand the basics of textile dyeing and printing
- Construct patterns and repeats for print design
- Develop original design solutions for hand block and screen printing

**Unit 1 (15 hrs)**

**Design Ideation**

- 1.1 Problem analysis, research and consumer profiling
- 1.2 Design approaches: historical, conceptual, trend-based, market and client oriented
- 1.3 Mood board and colour story

**Unit 2 (22 hrs)**

**Design Development**

- 2.1 Motifs, patterns and layouts
- 2.2 Design rendering in different media
- 2.3 Repeat construction – tailored repeat structures and seamless repeats

**Unit 3 (14 hrs)**

**Textile Dyeing and Printing**

- 3.1 Dyeing at yarn and fabric stages - resist and piece dyeing techniques
- 3.2 Printing styles - direct, mordant, resist and discharge
- 3.3 Stencil printing

**Unit 4 (20 hrs)**

**Block Printing**

- 4.1 Direct and resist techniques
- 4.2 Designs for block printing

**Unit 5 (20 hrs)**

**Screen Printing**

- 5.1 Hand-screen, automatic flat bed and rotary screen methods
- 5.2 Design development

**GUIDELINES**

- Sampling is to be done wherever feasible in Units 4 and 5

**BOOKS FOR REFERENCE**

Diane, Tracy, and Tom Cassidy. *Colour Forecasting*. United Kingdom: Blackwell, 2005.

Drudi, Elisabetta Kuky. *Fashion Prints: How to Design and Draw*. Amsterdam: Pepin, 2008.

Hornung, David. *Colour: A workshop for Artists and Designers*. London: Laurence King, 2005.

Phillips, Peter, and Gillian Bunce. *Repeat Patterns: A Manual for Designers, Artists and Architects*. London: Thames and Hudson, 1993.

Robinson, Stuart, and Patricia Robinson. *Exploring Fabric Printing*. London: Mills and Boon, 1970.

San Martin, Macarena. *Patterns in Fashion*. Koln: Evergreen, 2009.

Sausmarez, Maurice De. *Basic Design: The Dynamics of Visual Form*. London: A & C Black, 1992.

Storey, Joyce. *The Thames and Hudson Manual of Textile Printing*. London: Thames and Hudson, 1992.

Wilson, Althea. *The Ultimate Stencil Book*. London: Conran Octopus, 1995.

Yates, Marypaul. *Textiles: A Handbook for Designers*. New York: W.W. Norton and Company, 1995.

**PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

**Continuous Assessment**

**50 marks**

Classwork 40 marks

Assignment 10 marks

**Assessment of End Semester Submission 50 marks**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FIGURE ILLUSTRATION PRACTICAL**

**CODE: 19FA/ME/A265**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To develop observation and drawing skills for illustration of human figures
- To enable the developing of figure illustration for diverse applications
- To enable the use of different media and techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Consider different inspirations and influences to develop ideas
- Execute different genres of figure illustration using various media and techniques
- Visualise and render figures as caricatures and cartoons
- Develop thematic compositions
- Create original artwork in a personal style

<b>Unit 1</b>	<b>(05 hrs)</b>
<b>Introduction to Figure Illustration</b>	
<b>Unit 2</b>	<b>(25 hrs)</b>
<b>Fashion Illustration</b>	
<b>Unit 3</b>	<b>(16hrs)</b>
<b>Caricature</b>	
<b>Unit 4</b>	<b>(15 hrs)</b>
<b>Cartooning</b>	
<b>Unit 5</b>	<b>(30 hrs)</b>
<b>Thematic Figure Illustrations</b>	

**BOOKS FOR REFERENCE**

Armstrong, Jemi, and Wynn Armstrong. *Fashion Design Drawing Course – Principles, Practices and Techniques: The Ultimate Handbook for Aspiring Fashion Designer's*. London: Thames and Hudson, 2012.

Bettley, James. *The Art of the Book: From Medieval Manuscript to Graphic Novel*. London: V&A Publications, 2001.

*Art Directors Index to Illustration, Graphics & Design*. Geneva: Rotovision, 1983.

Bossert, Jill. *Children's Book Illustration*. Sussex: Rotovision, 1995.

Caplin, Steve, and Adam Banks. *The Complete Guide to Digital Illustration*. New York: Watson – Guptill, 2003.

da Cunha, Gerard, ed. *Goa*. Goa: Architecture Autonomous, 2010.

Fleishman, Michael. *Exploring Illustration*. Australia: Thomas Delmar Learning, 2003.  
Seaman, Julian. *Fashion Illustration: Basic Techniques*. Hong Kong: B T Batsford Ltd, 1996.

*Harper's Fashion Illustration: 1930 to 1970*. London: Batsford, 2010.

*Computer Graphics*. United States of America: Rockport Publishers, Inc. and Allworth Press, 1992.

Foster, Walter. *Comic Characters*. California: Walter Foster, 1989.

Furniss, Maureen. *The Animation Bible*. New York: Harry N Abrams, 2008.

Haller, Susan. *Stock Workbook Illustration*. Sussex: Scott Daughters, 2000.

Harper's, *Fashion Illustration 1930 to 1970*, London: Batsford, 2010.

*Illustration 1997*. New York: The Black Book, 1997.

Ireland, Patrick John. *Encyclopaedia of Fashion Details*. London: BT Batsford, 1996.

Lewis, Brian. *An Introduction to Illustration*. London: Grange Books, 1995.

Slade, Catherine. *The Encyclopaedia of Illustration Techniques*. London: Quarto Publishing, 1997.

#### **PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Students may explore media, methods and techniques such as collage, cut paper, montage, stencil and digital art
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

#### **Continuous Assessment**

**50 marks**

Classwork 40 marks

Assignment 10 marks

#### **Assessment of End Semester Submission 50 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GRAPHIC DESIGN I PRACTICAL**

**CODE: 19FA/ME/D365**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To provide an overview of design development
- To create an awareness of typography
- To introduce the concept of idea and image
- To reinforce the use of type and image in select applications through skill-building exercises

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Use design development as an integral process of graphic design
- Be familiar with typography as a medium of design
- Understand grids and layouts
- Combine idea, type and image into effective design
- Develop design solutions for varied applications

<b>Unit 1</b>	<b>(06 hrs)</b>
<b>Design Development</b>	
1.1 Defining, gathering, ideating, synthesizing, realizing	
1.2 Graphic form – representational and abstract	
<b>Unit 2</b>	<b>(20 hrs)</b>
<b>Basics of Typography</b>	
2.1 Type anatomy	
2.2 Type styles and families	
2.3 Type usage	
<b>Unit 3</b>	<b>(20 hrs)</b>
<b>Grid Application</b>	
3.1 Modular design and grid systems	
3.2 Page layout	
3.3 Book wrapper design	
3.4 Invitation and poster design	
<b>Unit 4</b>	<b>(20 hrs)</b>
<b>Idea and Image</b>	
4.1 Pictorial symbols and meaning	
4.2 Symbols and icons	

**Unit 5**

**(25 hrs)**

**Identity**

5.1 Logotypes and logos

5.2 Stationery

5.3 Ephemera

**BOOKS FOR REFERENCE**

Alan and Livingston, Isabella. *Dictionary of Graphic Design and Designers: Third Edition*. London: Thames and Hudson World of Art, 2012.

Carter, Rob, Ben Day, and Philip Meggs. *Typographic Design: Form and Communication*. 4<sup>th</sup> ed. New Jersey: John Wiley, 2007.

Cossu, Matteo. *1000 Ideas by 100 Graphic Designers*. Massachusetts: Rockport, 2009.

Cullen, Cheryl Dangel. *The Best of Business Card Design*. Massachusetts: Rockport, 2002.

Foster, John. *Masters Poster Design: Poster Design for the Next Century*. Massachusetts: Rockport, 2006.

Gordon, Bob and Maggie Gordon, eds. *A Complete Guide to Graphic Design*. London: Thames and Hudson, 2005.

Healey, Matthew. *Deconstructing Logo Design*. Switzerland: RotoVision, 2010.

Jute, Andre. *Grids: The Structure of Graphic Design*. Switzerland: RotoVision, 1996.

Krause, Jim. *Idea Index*. Ohio: How Design Books, 2000.

Livingston, Alan and Isabella Livingston. *Dictionary of Graphic Design and Designers*. 3<sup>rd</sup> edition, London: Thames and Hudson, 2012.

Pao, Imin, and Joshua Berger. *30 Essential Typefaces for a Lifetime*. Massachusetts: Rockport, 2006.

Rabinowitz, Tova. *Typography: In-Depth Guide to the Art and Techniques of Designing with Type*. New York: Thomson Delmar, 2006.

Rivers, Charlotte. *Logo-Art: Innovation in Logo Design*. Switzerland: RotoVision, 2009.

Sibley/Peteet Design, Austin. *The Best of Business Card Design 8*. Massachusetts: Rockport, 2008.

Sinha, Anil. *Ideating Identity*. Ahmedabad: Maitreya, National Institute of Design, 2010.

Walton, Roger, ed. *Page Layout: Inspiration Innovation Information*. New York: HBI, 2000.

Wheeler, Alina. *Designing Brand Identity: A Complete Guide to Creating Building and Maintaining Strong Brands*. New Jersey: John Wiley, 2003.

#### **PATTERN OF ASSESSMENT**

- There will be no end semester examination
- 
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

<b>Continuous Assessment</b>	<b>50 marks</b>
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Classwork	40 marks
Assignment	10 marks

<b>Assessment of End Semester Submission</b>	<b>50 marks</b>
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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CREATIVE EXPRESSIONS PRACTICAL**

**CODE: 19FA/ME/A365**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To provide the necessary skills required to create three-dimensional art
- To help explore the possibilities of working with different two-dimensional and three-dimensional materials
- To enable working with two-dimensional media on three-dimensional materials
- To enable the development of a concept-based series of works

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explore the use of different materials in art making
- Creatively integrate two-dimensional and three-dimensional media
- Develop an art installation
- Select suitable media, methods and techniques to conceive a concept and execute a series of works
- Effectively express a personal and creative approach to art

<b>Unit 1</b>	<b>(12 hrs)</b>
<b>Introduction to 3D Art</b>	
1.1	Materials and techniques
1.2	Exploring paper, wire, cloth, metal sheets, hard board, found objects
<b>Unit 2</b>	<b>(20 hrs)</b>
<b>Integrating 2D and 3D Art</b>	
<b>Unit 3</b>	<b>(17 hrs)</b>
<b>Art on 3D Forms</b>	
<b>Unit 4</b>	<b>(20 hrs)</b>
<b>Art Installation</b>	
<b>Unit 5</b>	<b>(22 hrs)</b>
<b>Personal Expression</b>	

## BOOKS FOR REFERENCE

Allan, Lois. *Contemporary Art in the Northwest*. Roseville: Craftsman House, 1995.

Caplin, Steve, and Adam Banks. *The Complete Guide to Digital Illustration*. New York: Watson – Gupitll, 2003.

Bragdon, Allen Davenport. *The Family Creative Workshop*. New York: Plenary Publications International, 1975.

Drury, Nevill, ed. *New Art*. Roseville: Craftsman House, 1988.

Drury, Neville. *New Sculpture - Profiles in Contemporary Australian Sculpture*. East Roseville: G + B Arts International, 1993.

Fleishman, Michael. *Exploring Illustration*. Roseville: Thomas Delmar Learning, 2003.

Goud, Laxma. *Sculpture, Bronze and Terracotta*. Mumbai: The Guild Art Gallery, 2006.

Hedger, Michael. *Public Sculpture in Australia*. Roseville: Craftsman House, 1995.

Jackson, Paul. *Paper Pop-Ups*. Massachusetts: Rockport, 1997.

Johnson, Patricia Covo. *Contemporary Art in Texas*. Roseville: Craftsman House, 1995.

Lewis, Brian. *An Introduction to Illustration*. London: Grange Books, 1995.

Maflin, Andrea, and Simon Laity. *Decorative Paper*. London: Conran Octopus, 1995.

Slade, Catherine. *The Encyclopedia of Illustration Techniques*. London: Quarto, 1997.

Waal, Edmund De, and Claudia Clare, eds. *The Pot Book*. London: Phaidon, 2011.

Martin, Judy. *The Encyclopedia of Printmaking Techniques*. London: Quarto, 1993.

Robinson, Lynne, and Richard Lowther. *Stencilling*. London: Conran Octopus, 1995.

Visser, Jill, and Michael Flinn. *Stencilling: Techniques for Interiors, Furniture and Objects*. London: Macdonald Orbis, 1988.

## PATTERN OF ASSESSMENT

- There will be no end semester examination
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

### Continuous Assessment

**50 marks**

Classwork 40 marks

Assignment 10 marks

### Assessment of End Semester Submission **50 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self**

**(10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family**

**(17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation



- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**BACHELOR OF VISUAL ARTS - B.V.A. DEGREE**  
**BRANCH X –VISUAL ARTS**

**SYLLABUS**  
**(Effective from the academic year 2019 -2020)**

**MODERN ART IN INDIA**

**CODE: 19FA/MC/MI75**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide an overview of modern art in India through a critical appraisal of the works of select artists
- To provide an understanding of the political context within which art was created in pre-independence India
- To enable an understanding of the trajectory of modernism in India as a series of reactions to political and social contexts
- To present the evolution of modernism in Indian art as predominantly regional and urban
- To provide an awareness of international influences on artistic practice and the move towards postmodernism

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss the social and political changes that brought modernism to Indian art
- Discuss contribution of the nationalist movement and early masters
- Appreciate the contribution of artist collectives
- Recognise the styles of influential artists in the modern period
- Appreciate how artists challenged the norm in their movement towards modernism

**Unit 1 Rise of Nationalism**

**(03 hrs)**

**Unit 2 Painting and Sculpture – 1900 to 1940s**

**(12 hrs)**

- 2.1 The Bengal School: Abanindranath Tagore, Nandalal Bose
- 2.2 Painting: Rabindranath Tagore, Jamini Roy, Benode Bihari Mukherjee, Amrita Shergil
- 2.3 Sculpture: Ram Kinker Baij, D. P. Roy Choudhary

**Unit 3**

**(15 hrs)**

**Artist Collectives – 1940s to 60s**

- 3.1 The Calcutta Group
- 3.2 Delhi Silpi Chakra: Satish Gujral
- 3.3 Progressive Artists Group, Bombay: F.N. Souza, S.H. Raza, M.F. Husain
- 3.4 The Madras Art Movement and Cholamandal Artists Village: K. C. S. Paniker, S. Dhanapal, P. V. Janaki Ram

**Unit 4 (20 hrs)**

**Art in Urban Centres – 1970s**

- 4.1 Bombay: Akbar Padamsee, V.S. Gaitonde, Sudhir Patwardhan
- 4.2 Baroda: K.G. Subramanyan, Gulam Mohommed Sheikh, Bhupen Khakkar
- 4.3 Delhi: J. Swaminathan, Manjit Bawa, A. Ramachandran, Anjolie Ela Menon
- 4.4 Calcutta: Jogen Chowdhary, Bikash Bhattacharjee
- 4.5 Chennai: M. Redappa Naidu, K. M. Adimoolam, R. B. Bhaskaran, S. G. Vasudev, K. Muralidharan, S. Nandagopal, Rm. Palaniappan, K.V. Haridasan
- 4.6 Hyderabad: Laxma Goud

**Unit 5 (15 hrs)**

**Art in the 1980s to 2010**

Arpita Singh, Mrinalini Mukherjee, Rumana Hussain, Vivan Sundaram, Neelima Sheikh, Nalini Malani, Navjot Altaf, Baiju Parthan, N. Pushpamala, Surendran Nair, Ravinder Reddy, Sheela Gowda, Anita Dube, Rekha Rodwittiya, Atul Dodiya, Sudarshan Shetty, Subodh Gupta, Bharti Kher, Mithu Sen, Jitish Kallat, Benita Perciyal

**BOOKS FOR STUDY**

Sinha, Gayatri, ed. *Indian Art: An Overview*. New Delhi: Rupa, 2004.

Sinha, Gayatri, ed. *Art and Visual Culture in India: 1857-2007*. New Delhi: Marg, 2009.

Jhaveri, Amrita. *101: A Guide to 101 Modern and Contemporary Indian Artists*. New Delhi: India Book House, 2006

**BOOKS FOR REFERENCE**

Achar, Deeptha, Parul Dave Mukherjee, and Shivaji K. Panikkar, eds. *Towards a New Art History: Studies in Indian Art*. New Delhi: D.K. Printworld, 2003.

Appasamy, Jaya. *Abanindranath Tagore and the Art of his Times*. New Delhi: Lalit Kala Akademi, 1968.

Appasamy, Jaya. *An Introduction to Modern Indian Sculpture*. New Delhi: Indian Council for Cultural Relations, 1970.

Appasamy, Jaya, et. al. *Nandalal Bose Centenary Exhibition*. New Delhi: National Gallery of Modern Art, 1983.

Bartholomew, R.L., ed. *Nandalal Bose: A Collection of Essays. Centenary Volume*. New Delhi: Lalit Kala Akademi, 1983.

Bhagat, Ashrafi. *Framing the Regional Modern: K.C.S. Paniker and the Madras Art Movement*. Thrissur: Kerala Lalithakala Akademi, 2011.

Bickelmann, Ursula, and Nissim Ezekiel, eds. *Artists Today: East-West Visual Arts Encounter*. Bombay: Marg, 1987.

Chawla, Rupika. *Surface and Depth: Indian Artists at Work*. New Delhi: Viking Penguin, 1995.

Chawla, Rupika. *Raja Ravi Varma: Painter of Colonial India*. Ahmedabad: Mapin, 2010.

*Continuum: Progressive Artists' Group*. New Delhi: Delhi Art Gallery, 2011.

Dalmia, Yashodhara, et. al. *Indian Contemporary Art: Post Independence*. New Delhi: Vadhera Art Gallery, 1997.

Dalmia, Yashodhara. *The Making of Modern Indian Art: The Progressives*. New Delhi: Oxford University Press, 2001.

Dalmia, Yashodhara, ed. *Contemporary Indian Art: Other Realities*. Mumbai: Marg, 2002.

Guha-Thakurta, Tapti. *The Making of a New Indian Art: Artists, Aesthetics and Nationalism in Bengal c.1850- 1920*. New York: Cambridge University Press, 2008.

Gujral, Satish. *The World of Satish Gujral in his Own Words*. New Delhi: UBS, 1993.

Hyman, Timothy. *Bhupen Khakhar*. Ahmedabad: Mapin, 1998.

Imbert, Michel. *Raza: An Introduction to his Painting*. Noida: Rainbow, 2003.

James, Josef, ed. *Cholamandal: An Artists' Village*. New Delhi: Oxford University Press, 2004.

Jhaveri, Amrita. *A Guide to 101 Modern and Contemporary Indian Artists*. Mumbai: India Book House, 2005.

Khanna, Balraj, and Aziz Kurtha. *Art of Modern India*. London: Thames and Hudson, 1998.

Kapur, Geeta. *When Was Modernism: Essays on Contemporary Cultural Practice in India*. New Delhi: Tulika, 2001.

Kumar, Yvette, ed. *Celebration of the Human Image: The Human Figure in Indian Contemporary Painting*. New Delhi: Thinking Eye, 2000.

*Major Trends in Indian Art*. New Delhi: Lalit Kala Akademi, 1997.

Mitter, Partha. *Art and Nationalism in Colonial India 1850-1922: Occidental Orientations*. New York: Cambridge University Press, 1994.

Mitter, Partha. *The Triumph of Modernism: India's Artists and the Avant-Garde 1922-1947*. New Delhi: Oxford University Press, 2007.

Murti, Isana. *Anjolie Ela Menon: Paintings in Private Collections*. New Delhi: Ram Dayal, 1995.

Panikkar, Shivaji, ed. *Twentieth Century Indian Sculpture: The Last Two Decades*. Mumbai: Marg, 2000.

Ramaswamy, Sumathi. ed. *Barefoot Across the Nation: Maqbool Fida Husai and the Idea of India*. New Delhi: Yoda Press, 2011.

Sen, Geeti. *Bindu: Space and Time in Raza's Vision*. New Delhi: Media Transasia India Ltd, 1997.

Sen, Geeti. *Image and Imagination: Fine Contemporary Artists in India*. Ahmedabad: Mapin, 1996.

Sheikh, Gulammohammed, ed. *Contemporary Art in Baroda*. New Delhi: Tulika, 1997.

Sinha, Gayatri, ed. *Voices of Change: 20 Indian Artists*. Mumbai: Marg, 2010.

Subramanyan, K. G. *Moving Focus*. New Delhi: Lalit Kala Akademi, 2006.

Sundaram, Vivan. *Amrita Sher-Gil: A Self-Portrait in Letters and Writings*. 2 vols. New Delhi: Tulika, 2010.

*The Art of Bengal*. New Delhi: Delhi Art Gallery, 2012.

Tuli, Neville. *The Flamed Mosaic: Indian Contemporary Painting*. Ahmedabad: Mapin, 1997.

## **JOURNALS**

*Art India: The Art News Magazine of India*. Mumbai: Art India Publishing

## **PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50**

### **2 Tests and III Component**

Tests of 90 minutes duration:

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

### **III Component**

Assignment, seminar, quiz, open book test, group discussion

**End Semester Examination: Total Marks: 100    Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDIAN CRAFT AND FOLK ART TRADITIONS**

**CODE: 19FA/MC/CF75**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce craft and folk art traditions of India
- To provide an understanding of indigenous art used in performance and practiced as ritual
- To enable an appreciation of select textile, metal, wood, and other crafts
- To foster an appreciation of the visual aspects of craft and folk art and thereby expand the scope of design seeing and artistic expression

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the diversity and ethnicity of folk art and craft traditions in India
- Discuss art and craft traditions in the context of regional, social and cultural practices
- Identify and discuss major pictorial traditions in folk art
- Identify and discuss select crafts in terms of materials, technique and style
- Explore and adapt the visual and material language of folk art and craft in one's personal expressions

**Unit 1 (15 hrs)**

**Pictorial Traditions**

- 1.1 Art used in performance: phad, patta paintings of Bengal, leather puppets of Andhra, kaavad
- 1.2 Ritual art: Warli, Madhubani, Gond, Pithora, pattachitra of Orissa, kolam, kalamezhuthu

**Unit 2 (20 hrs)**

**Textile and Fibre Traditions**

- 2.1 Woven traditions: Banaras brocades, baluchari, jamdani, kota doria, Paithani, Chanderi and Kancheepuram; Kani shawls
- 2.2 Dyed, printed and painted traditions: Madurai sungadi, ikkats, Patan patola, telia rumal, ajrakh, bandhani and lehreiya, block printing of Rajasthan, kalamkari, pichwai
- 2.3 Embroidery and applique: Kashmiri kashida, phulkari, chikankari, zardosi, kutchi, kantha, sujani, khatwa, kasuti, Toda, banjara
- 2.4 Fibre crafts: kottan of Chettinad, mats of Pattamadai

**Unit 3 (10 hrs)**

**Metal Crafts**

- 3.1 Metal ware: koftgiri, bidri, lamps of Tamil Nadu, Aranmula mirror
- 3.2 Images and reliefs: dhokra, iron craft of Bastar, Tanjore art plate

3.3 Jewellery: thewa, meenakari, Cuttacki tarkashi

**Unit 4 (10 hrs)**  
**Wood Crafts**

- 4.1 Carving: wood carving of Karnataka and Kashmir, dampati dolls, puppets of Rajasthan
- 4.2 Lacquer ware: Sankheda lac-turnery, lacquer ware of Channapatna
- 4.3 Painting: Tanjore painting, toys of Kondapalli

**Unit 5 (10 hrs)**  
**Crafts from Other Materials**

- 5.1 Stone and clay: pacchikari of Agra, Jaipur blue pottery, longpi of Manipur, terracotta horses of Tamil Nadu and Bengal
- 5.2 Paper: sanjhi of Mathura, papier mache of Kashmir

**BOOKS FOR STUDY**

Jaitly, Jaya. *Crafts Atlas of India*. New Delhi: Niyogi Books, 2012.

Ranjan, Aditi, and M. P. Ranjan. *Crafts of India: Handmade in India*. New Delhi: Council of Handicraft Development Corporations, 2007.

Singh, Martand, ed. *Handcrafted Indian Textiles*. New Delhi: Roli Books, 2000.

Varadarajan, Lotika, and Krishna Amin-Patel. *Of Fibre and Loom: The Indian Tradition*. New Delhi: Manohar, 2008.

**BOOKS FOR REFERENCE**

Aryan, Subhashini. *Unknown Masterpieces of Indian Folk and Tribal Art*. Gurgaon: K C Aryan's Home of Folk Art, 2005.

Crill, Rosemary. *Indian Ikat Textiles*. New York: Weatherhill, 1998.

Dallapiccola, Anna L., ed. *Indian Painting: The Lesser-known Traditions*. New Delhi: Niyogi Books, 2011.

Dalmia, Yashodhara. *The Painted World of the Warlis: Art and Ritual of the Warli Tribes of Maharashtra*. New Delhi: Lalit Kala Akademi, 1988.

Ghosh, G. K., and Shukla Ghosh. *Indian Textiles: Past and Present*. New Delhi: APH Publishing Corporation, 2011.

Gupta, Charu Smita. *Indian Folk and Tribal Paintings*. New Delhi: Roli Books, 2008.

Jain, Jyotindra. *Painted Myths of Creation: Art and Ritual of an Indian Tribe*. New Delhi: Lalit Kala Akademi, 1984.

Mathur, Kamlesh. *Crafts and Craftsmen*. Jaipur: Pointer Publishers, 2004.

Mohanty, B. *Pata – Paintings of Orissa*. New Delhi: Publications Division, 1984.

Naik, Shailaja D. *Traditional Embroideries of India*. New Delhi: APH Publishing Corporation. 2012.

Postel, Michel, and Zarine Cooper. *Bastar Folk Art: Shrines, Figurines and Memorials*. Mumbai: Project for Indian Cultural Studies Publication VIII, 1999.

Ramani, Shakuntala. *Kolam and other Ritual Arts of India*. Chennai: Oxygen Books, 2016.

Ramaswamy, Visalakshi. *The Kottan: The Palmyra Basket of Chettinad*. Chennai: M.Rm.Rm. Cultural Foundation, 2013.

Sabnani, Nina. *Kaavad Tradition of Rajasthan: A Portable Pilgrimage*. New Delhi: Niyogi Books, 2014.

Santra, Tarapada. *Folk Arts of West Bengal and the Artist Community*. New Delhi: Niyogi Books, 2011.

Shrikant, Usha. *Ethnic Embroidery of India*. Mumbai: Samata, 1998.

Tyabji, Laila. *Threads & Voices: Behind the Indian Textile Tradition*. New Delhi: Marg, 2007.

Venkatesan, Soumhya. *Craft Matters: Artisans, Development and the Indian Nation*. New Delhi: Orient Blackswan, 2009.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test: Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:                      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

**End Semester Examination:                      Total Marks: 100      Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TEXTILE DESIGN II PRACTICAL**

**CODE: 19FA/ME/D475**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To provide an awareness of textile constructions and applications
- To introduce hand weaving
- To enable an understanding of stitched embellishment and textile art

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify textile constructions and understand their use in fashion and home
- Understand elementary weaves and create simple woven structures
- Develop samples for stitched surface embellishment
- Explore textile art as a medium of expression

<b>Unit 1</b>	<b>(10 hrs)</b>
<b>Overview of textiles</b>	
1.1 Fibres, yarns and fabrics	
1.2 Textile construction techniques	
1.3 Textiles in fashion and home	
<b>Unit 2</b>	<b>(25 hrs)</b>
<b>Weaving</b>	
2.1 The weaving process	
2.2 Basic weaves	
2.2 Colour and pattern in woven fabrics	
<b>Unit 3</b>	<b>(16 hrs)</b>
<b>Stitched embellishments</b>	
3.1 Freestyle embroidery	
3.2 Appliqué	
<b>Unit 4</b>	<b>(20 hrs)</b>
<b>Fabric manipulation</b>	
<b>Unit 5</b>	<b>(20 hrs)</b>
<b>Textile Art</b>	

**GUIDELINES**

- Frame looms will be used for weaving practice in Unit 2

- Units 3 and 4 will require the making of samples
- Outsourcing of stitched embellishment and fabric manipulation for works assessed as end semester submission is permitted subject to the design idea being conceptualised and developed by the student

## BOOKS FOR REFERENCE

Baugh, Gail. *The Fashion Designer's Textile Directory: The Creative Use of Fabrics in Design*. London: Thames and Hudson, 2011.

Bawden, Juliet. *The Art and Craft of Applique*. Great Britain: Mitchell Beazley. 1991.

Cheney, Nigel and McAllister, Helen. *Textile Surface Manipulation*. London: Bloomsbury, 2013.

Collier, Billie J. and Phyllis G. Tortora. *Understanding Textiles*. 6th ed. New Jersey: Prentice Hall, 2001.

Diamond, Jay and Ellen Diamond. *Fashion Apparel, Accessories and Home Furnishings*. New Delhi: Dorling Kindersley, 2008.

Fogg, Marnie. *The Fashion Design Directory*. London: Thames and Hudson, 2011.

Gardiner, Wendy. *The Encyclopedia of Sewing Techniques*. Kent: Search, 2004.

Grosicki, Z. *Watson's Textile Design and Colour: Elementary Weaves and Figured Fabrics*. 7<sup>th</sup> ed. London: Butterworth, 1975.

Hemingway, Karen. *The Encyclopedia of Stitches*. London: New Holland, 2004.

Parchure, J.W. *Fundamentals of Designing for Textiles and Other End Uses*. India: Woodhead Publishing India, 2009.

Yates, Marypaul. *Fabrics: A Guide for Interior Designers and Architects*. New York: W.W. Norton, 2002.

## PATTERN OF ASSESSMENT

- There will be no end semester examination
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

### Continuous Assessment

**50 marks**

Classwork	40 marks
Assignment	10 marks

**Assessment of End Semester Submission 50 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PAINTING II PRACTICAL**

**CODE: 19FA/ME/A475**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To enable proficiency in advanced painting practice
- To stimulate critical thinking by drawing inspiration from master works and non-art disciplines as sources for personal interpretation
- To facilitate self-expression through the development of a personal style
- To enable understanding and appreciation of the crucial connection between composition and concept

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate proficiency in conceptual painting
- Demonstrate proficiency in painting techniques and use of media
- Develop creative paintings inspired by art and non-art sources
- Develop a confident and personal painting style
- Ideate and execute an original painting series

<b>Unit 1</b>	<b>(12 hrs)</b>
<b>Paintings Inspired by Contemporary Art</b>	
<b>Unit 2</b>	<b>(20 hrs)</b>
<b>Paintings inspired by other disciplines</b>	
<b>Unit 3</b>	<b>(17 hrs)</b>
<b>Concept planning for a painting series</b>	
<b>Unit 4</b>	<b>(20 hrs)</b>
<b>Exploration of a pictorial language for a painting series</b>	
<b>Unit 5</b>	<b>(22 hrs)</b>
<b>Execution and Presentation of the Painting Series</b>	

## GUIDELINES

- In Unit 1, students will draw inspiration from masterworks and develop a personal adaptation of the same
- In Unit 2, students will create paintings inspired by themes, forms and ideas drawn from disciplines other than visual arts
- Units 3 to 5 require students to develop a personal series of paintings, through ideation and conceptualization, exploratory studies and final works. The number of works in the series will be approved by the course teacher taking into consideration the medium and scale of the final paintings.

## BOOKS FOR REFERENCE

Meyer, E. Susan ed. *20 Oil Painters and How they work*. New York: Watson- Gupill, 1978.

Guhin, Paula and Geri Greenman. *The Complete Photo Guide to Creative Painting*. Minnesota: Creative Publishing International, 2010.

Fletcher, Alan. *Picturing and Poeting*. New York: Phaidon Press Inc., 2010.

Rasmusen, N. Henry. *Art Structure: A Textbook of Creative Design*.

Stahl, Johannes. *Street Art*. h.f. ullmann, 2009.

Dawley, Joseph. *The Second Painters' Problem*. London: Pitman, 1978.

Douet, Valerie C. *Drawing for Pleasure*. Kent: Search Press, 2000.

Nelson, Elsa. *Understanding and Painting Abstract*. California: Walter Foster.

Fernandes, John. *John Fernandes and his Art*. Mumbai: Navneet, 2000.

Fernandes, John. *The Gallery*. Mumbai: Grace Prakashan, 2006.

Fig, Joe. *Inside the Painter's Studio*. New York: Princeton Architectural Press, 2009.

Hogarth, Paul. *The Artists Manual*. London: QED Publishing, 1980.

Harrison, Hazel. *Art School, How to Paint and Draw*. London: Hermes House, 2009.

Kulkarni, K.B. *K.B. Kulkarni and his Art*. Mumbai: Navneet, 2001.

Patkar, Rameshchandra. *Madhav Satwalekar*. Pune: Jyotsna Prakashan, 2003.

Sachs, Paul J. *The Pocket Book of Great Drawings*. New York: Pocket Books, 1951.

Tupe, Shivaji. *Sketchbook*. Pune: Jyotsna Prakashan, 2007.

Zaidenberg, Arthur. *Drawing Self-Taught*. New York: Cornerstone Library, 1968.

## **PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

### **Continuous Assessment**

**50 marks**

Classwork      40 marks

Assignment    10 marks

**Assessment of End Semester Submission   50 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GRAPHIC DESIGN II PRACTICAL**

**CODE: 19FA/ME/D575**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To provide fundamentals of packaging design
- To create an awareness of the varied mediums of advertising
- To explore application of design and layout for web page and mobile applications through skill-building exercises

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply design principles on packaging surfaces
- Demonstrate an understanding of advertising
- Ideate and develop advertising campaigns
- Create two-dimensional designs for web applications
- Create two-dimensional designs for mobile applications

<b>Unit 1</b>	<b>(20 hrs)</b>
<b>Packaging Design</b>	
1.1 Materials and design considerations	
1.2 Packaging templates, finishes and effects	
1.3 Packaging applications	
<b>Unit 2</b>	<b>(20 hrs)</b>
<b>Print Advertising</b>	
2.1 Copy and visual	
2.2 Print communication/advertising	
<b>Unit 3</b>	<b>(20 hrs)</b>
<b>Online Advertising</b>	
3.1 Social media	
3.2 Web banners	
<b>Unit 4</b>	<b>(15 hrs)</b>
<b>Web Page Planning</b>	
4.1 Composition	
4.2 Layout	
4.3 Web page production	

**Unit 5** **(16 hrs)**  
**Mobile Applications**

- 5.1 Flat design techniques
- 5.2 Screen layouts
- 5.3 2D and 3D graphics
- 5.4 Userflow design, wireframes, mobile UI patterns

**BOOKS FOR REFERENCE**

Alan and Livingston, Isabella. *Dictionary of Graphic Design and Designers: Third Edition*. London: Thames and Hudson World of Art, 2012.

Beaird, Jason. *The Principles of Beautiful Web Design*. 2<sup>nd</sup> edition, Sitepoint, 2010.

Cossu, Matteo. *1000 Ideas by 100 Graphic Designers*. Massachusetts: Rockport, 2009.

Grant Design Collaborative. *1000 More Graphic Elements*. Massachusetts: Rockport, 2009.

Groth, Chuck. *Exploring Packaging Design*. New York: Thomson, 2006.

Jones, John Philip, ed. *The Advertising Business: Operations, Creativity, Media Planning, Integrated Communications*. California: Sage, 1999.

*Point-Of-Purchase Design Annual 51: The 39<sup>th</sup> Merchandising Awards*. New York: Retail Reporting, 1997.

Rodgers, Paul and Alex Milton. *Product Design*. London: Laurence King, 2011.

Roman, Kenneth and Jane Maas. *How to Advertise: What Works, What Doesn't, and Why*, 3<sup>rd</sup> edition, London: Kogan Page, 2003.

**PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

<b>Continuous Assessment</b>	<b>50 marks</b>
Classwork	40 marks
Assignment	10 marks

**Assessment of End Semester Submission 50 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NEW MEDIA PRACTICAL**

**CODE: 19FA/ME/A575**

**CREDITS: 5**

**L T P: 0 0 7**

**TOTAL TEACHING HOURS: 91**

**OBJECTIVES OF THE COURSE**

- To provide an exposure to new media, thereby widening the scope for personal expression
- To enable an exploration of the dynamics between art, science and technology
- To encourage students to experience and present art as performance
- To enable an exploration of art in created environments and sites

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the potential and scope of non-traditional art
- Conceptualise and create non-traditional art
- Investigate and incorporate digital media, technology and the environment in art
- Engage with art through performance
- Develop a personal style that foregrounds contemporary media and technology

<b>Unit 1</b>	<b>(20 hrs)</b>
<b>Digital Art</b>	
<b>Unit 2</b>	<b>(20 hrs)</b>
<b>Kinetic and Interactive Art</b>	
<b>Unit 3</b>	<b>(20 hrs)</b>
<b>Sound and Light Art</b>	
<b>Unit 4</b>	<b>(15 hrs)</b>
<b>Performance Art</b>	
<b>Unit 5</b>	<b>(16 hrs)</b>
<b>Environmental and Site-specific Art</b>	

**GUIDELINES**

- Students will be allowed to outsource technological support to execute their ideas
- Students will create environmental and site-specific art in suitable locations including the College campus with prior permission from the concerned authorities. Work which is



permitted on a temporary basis is to be removed and the site restored to its original state after assessment.

- Students will be required to document their work through photography and videography for units 2 - 5

## **BOOKS FOR REFERENCE**

Drury, Nevill, ed. *New Art*. Roseville: Craftsman House, 1988.

Allan, Lois. *Contemporary Art in the Northwest*. Roseville: Craftsman House, 1995.

Martin, Sylvia. *Video Art*. Germany: Taschen GmbH, 2006.

Caplin, Steve, and Adam Banks. *The Complete Guide to Digital Illustration*. New York: Watson – Gupill, 2003.

Rush, Michael. *New Media in Art*. London: Thames & Hudson, 2005.

Stockman, Steve. *How to Shoot Video That Doesn't Suck*. New York: Workman Publishing, 2011.

*Computer Graphics*. United States of America: Rockport Publishers, Inc. and Allworth Press, 1992.

Drury, Neville. *New Sculpture - Profiles in Contemporary Australian Sculpture*. East Roseville: G + B Arts International, 1993.

Hedger, Michael. *Public Sculpture in Australia*. Roseville: Craftsman House, 1995.

Johnson, Patricia Covo. *Contemporary Art in Texas*. Roseville: Craftsman House, 1995.

## **PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated for 50 marks
- A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

### **Continuous Assessment**

**50 marks**

Classwork	40 marks
Assignment	10 marks

**Assessment of End Semester Submission 50 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MODERN ARCHITECTURE**

**CODE: 19FA/MC/MA85**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To provide an overview of modern architecture in the West and in India
- To analyze how new planning processes were related to new materials, technology, site, and structural processes
- To identify the design intentions of Modern architecture, and the meaning of ‘form follows function’
- To understand the principal structural innovations which have underpinned and enabled Modern and Postmodern architecture
- To understand the essential stylistic and theoretical nature of Modernism, and Postmodernism, as expressed in architectural terms

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand how building materials spawned by the Industrial Revolution determined new architectural techniques
- Demonstrate an understanding of how some Modern art movements lent their ideology to architecture in the West
- Demonstrate an understanding of Modern architecture in India
- Identify aspects of Postmodernism in architecture
- Understand the cultural, technical and artistic issues related to Modern and Postmodern architecture

**Unit 1 (03 hrs)**

**Revivalist Styles in Architecture**

- 1.1 Charles Barry and A.W.N. Pugin: Houses of Parliament, London
- 1.2 Henri Labrouste: Bibliotheque Saint Gen v  ve, Paris
- 1.3 Joseph Paxton: Crystal Palace, London

**Unit 2 (15 hrs)**

**Architecture from 1890 to 1924**

- 2.1 Charles Rennie Mackintosh: Art School, Glasgow
- 2.2 Victor Horta: Van Eetvelde House, Brussels
- 2.3 Antonio Gaudi: Sagrada Familia Church, Casa Mila, Barcelona
- 2.4 Gustave Eiffel: Eiffel Tower, Paris
- 2.5 H. H. Richardson: Marshal Field Wholesale Store, Chicago

- 2.6 Louis Sullivan: Guaranty Building, New York; Carson, Pirie, Scott Building, Chicago
- 2.7 Chicago School
  - 2.7.1 Burnham and Root: Monadnock Building
  - 2.7.2 Holabird and Roche: Tacoma Building

**Unit 3 (20 hrs)**

**Architecture from 1925 to 1974**

- 3.1 Bauhaus: Walter Gropius – Shop Block, Dessau
- 3.2 Ludwig Mies van der Rohe: Glass skyscraper, Berlin
- 3.3 International style: Le Corbusier – Domino house project, Marseilles; Villa Savoy
- 3.4 William van Alen: Chrysler Building, New York
- 3.5 Natural architecture: Frank Lloyd Wright – Robie House, Chicago; Kaufmann House, Pennsylvania
- 3.6 New models for architecture: Modernism to postmodernism
  - Frank Lloyd Wright – Guggenheim Museum, New York; Le Corbusier – Unite de Habitation, Marseilles and Notre dame du Haut, Ronchamp;
  - Joern Utzon – Sydney Opera house, Sydney; Eero Saarinen – Trans World Airlines Terminal and Kennedy Airport, New York; Ludwig Mies van der Rohe and Philip Johnson – Seagram Building, New York; Bukminster Fuller – American Pavillion Expo, Montreal; Skidmore, Owings and Merrill – Sears Towers, Chicago

**Unit 4 (07 hrs)**

**Postmodernism and Deconstructivist Architecture**

- 4.1 Philip Johnson and John Burgee – AT&T Building, New York
- 4.2 Micheal Graves – Portland Building, Oregon
- 4.3 Richard Rogers and Renzo Piano – Georges Pompidou National Centre of Art and Culture, Paris
- 4.4 Gunter Behnisch – Hysolar Institute Building, University of Stuttgart, Germany
- 4.5 Frank Gehry – Guggenheim Bilbao Museo, Spain

**Unit 5 (20 hrs)**

**Modern Indian Architecture**

- 5.1 Le Corbusier – City of Chandigarh, Punjab
- 5.2 Edwin Lutyens – Government Complex, New Delhi
- 5.3 Auroville community
- 5.4 Balakrishna Doshi – School of Architecture (CEPT), Ahmedabad; Indian Institute of Management, Bangalore; Husain Doshi Gufa, Ahmedabad
- 5.5 Laurie Baker – Centre for Development Studies, Trivandrum; Residential Co-operative, Trivandrum; Fishermen's Village; House for Lt. Col. John Jacob, Trivandrum
- 5.6 Charles Correa – Artiste's Village, New Bombay; Kanchenjunga Apartments, Mumbai
- 5.7 Raj Reval – Asian Games Village, New Delhi; National Institute of Immunology, New Delhi
- 5.8 Satish Gujral – Belgian Embassy, New Delhi; Jindal Farmhouse, New Delhi

- 5.9 Benny Kuriakose – Chandramandapa, Chennai; The Institute of Palliative Medicine, Kochi; Mangalam Heritage Home, Thirupugalur

### BOOKS FOR STUDY

- Arnason H. H. *A History of Modern Art*. London: Thames and Hudson, 1977.
- Frampton, Kenneth. *Modern Architecture: A Critical History*. 3<sup>rd</sup> ed. London: Thames and Hudson, 1997.
- Kleiner, Fred S. *Gardners' Art through the Ages*. 13<sup>th</sup> ed. Belmont: Wadsworth Publishing, 2009.

### BOOKS FOR REFERENCE

- Bhatia, Gautam. *Laurie Baker: Life, Work, Writings*. New Delhi: Penguin Books, 1991.
- Bhatt, Vikram, and Peter Scriver. *After the Masters: Contemporary Indian Architecture*. Ahmedabad: Mapin, 1990.
- Condit, Carl W. *The Chicago School of Architecture: A History of Commercial and Public Building in the Chicago Area 1875- 1925*. London: The University of Chicago Press, 1964.
- Ameen, Farooq, ed. *Contemporary Architecture and City Form: The South Asian Paradigm*. Mumbai: Marg, 1997.
- Curtis, William J. R. *Balakrishna Doshi: An Architecture for India*. Ahmedabad: Mapin Publishing, 1988.
- James, Joseph, ed. *Art and Life in India: The Last Four Decades*. Shimla: Indian Institute of Advanced Study, 1989.
- Janson, H. W., and Anthony F. Janson. *History of Art*. 5<sup>th</sup> ed. New York: Harry N Abrams, 1997.
- Khan, Hasan-Uddin. *Charles Correa*. Ahmedabad: Mapin, 1987.
- Steele, James. *The Complete Architecture of Balakrishna Doshi: Rethinking Modernism for the Developing World*. Mumbai: Super Book House, 1998.
- Tafuri, Manfredo, and Francesco Dal Co. *Modern Architecture 1: History of World Architecture*. Trans. Robert Erich Wolf. London: Faber and Faber Ltd., 1986.
- Tafuri, Manfredo, and Francesco Dal Co. *Modern Architecture 2: History of World Architecture*. Trans. Robert Erich Wolf. London: Faber and Faber Ltd., 1986.
- Krishnaswamy, Subashree, ed. *Traditional and Vernacular Architecture*. Chennai: Madras Craft Foundation, 2001.
- Neubauer, Hendrik, and Kunibert Wachten, ed. *Urban Design and the 20<sup>th</sup> Century Architecture*. Potsdam: H. F. Ullmann, 2010.

## **PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test: Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:                      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

**End Semester Examination:                      Total Marks: 100      Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ART AND ITS HISTORIES**

**CODE: 19FA/MC/AH85**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To consider art using varied perspectives through case studies addressing two different genres, namely colonialism and gender
- To understand how European colonizers interpreted the arts of the people they colonized
- To consider the effects of imperialist ways of looking even in places without direct European colonial control
- To examine works by 16th and 17th century Italian women artists, focusing on the conventions of feminine portraiture of the time
- To introduce forms of psychoanalytic theory that have influenced feminist art history

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Rethink the orthodoxy of the art historical canon
- Appreciate how art can be interpreted in various ways creating multiple histories
- Understand colonialism and its impact on the appreciation of art of the colonised
- Discuss the role of women artists
- Discuss the role of gender difference in the production, consumption, and interpretation of works of art

**Unit 1 (05 hrs)**

**Ways of Seeing**

- 1.1 Power of the visual
- 1.2 Art, aura and authenticity

**Unit 2 (20 hrs)**

**Art and Artists in Pre-Colonial and Extra-Colonial Cultures**

Marginalisation of non-western art – India, China

**Unit 3 (10 hrs)**

**Art and Artists in Colonial and Post-Colonial Cultures**

- 3.1 Rabindranath Tagore's internationalist approach
- 3.2 Artist as post-colonial subject – from the periphery to the centre

**Unit 4 (20 hrs)**

**Gender and Art: 16<sup>th</sup>-18<sup>th</sup> Centuries**

- 4.1 Portrait of the artist as a woman

- 4.2 Gendering the genres
- 4.3 Women artists and the French Academy

**Unit 5 (10 hrs)**

**Gender, Modernism and Psychoanalysis**

- 5.1 Parisian avant-garde and 'feminine' art
- 5.2 Gender, art, psychoanalysis and fetishism

**BOOKS FOR STUDY**

Berger, John. *Ways of Seeing*. London: Penguin, 1972.

King, Catherine (ed.) *Views of Difference: Different Views of Art*. Art and its Histories series, New Haven, Conn.: Yale University Press, 1999.

Perry, Gill (ed.) *Gender and Art*. Art and its Histories series, New Haven, Conn.: Yale University Press, 1999.

**BOOK FOR REFERENCE**

Barker, Emma., et. al. *The Changing Status of the Artists*. Art and its Histories series, New Haven: Yale University Press, 1999.

Coomaraswamy, K. Ananda. *History of Indian and Indonesian Art*. New York: Dover Publications, 1927.

Davis, H. Richard. *Lives of Indian Images*. USA: Princeton University Press, 1999.

Fergusson, James. *History of Indian and Eastern Architecture*. Delhi: Oriental Publishers, 1967.

Guha-Thakurta, Tapati. *The Making of a New Indian Art: Artists, Aesthetics and Nationalism in Bengal, c. 1850-1920*. New York: Cambridge University Press, 1992.

Guha-Thakurta, Tapati. *Monuments, Objects, Histories: Institutions of Art in Colonial and Postcolonial India*. Delhi: Permanent Black, 2004.

Havell, E.B. *The Ideals of Indian Art*. Delhi: Indological Book House, 1972.

Kramrisch, Stella. *The Hindu Temple*. 2 vols. Calcutta: University of Calcutta, 1946.

Mitter, Partha. *Art and Nationalism in Colonial India: 1850 – 1922*. New York: Cambridge University Press, 1994.

Mitter, Partha. *Much Maligned Monsters: History of European Reactions to Indian Art*. Oxford: Oxford University Press, 1977.

Pal, Pratapaditya. ed. *Rabindranath Tagore: Something Old, Something New*. Mumbai: Marg Publications, 2011.

Parimoo, Ratan. *The Paintings of the Three Tagores: Abanindranath Tagore, Gaganendranath Tagore, Rabindranath Tagore*. Baroda: University Publications, 1973.

Said, W. Edward. *Orientalism*. London: Penguin Books, 1978.

Ward, Ivan and Oscar Zarate. *Introducing Psychoanalysis*. Delhi: Permanent Black, 2004.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment: Total Marks: 50**

**Continuous Assessment Test: Total Marks: 50      Duration: 90 minutes**

Section A – 3 x 10 = 30 marks (3 out of 4 questions)

Section B – 1 x 20 = 20 marks (1 out of 2 questions)

**Other Components:                      Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

### **End Semester Examination:                      Total Marks: 100      Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT – DESIGN**

**CODE: 19FA/ME/D689**

**CREDITS: 9**

**L T P: 0 0 15**

**TOTAL TEACHING HOURS: 195**

**OBJECTIVES OF THE COURSE**

- To enable students to build on experiences gained in previous courses and undertake a major project
- To give students the option to choose a practice or theory-based project
- To facilitate creative design ideas that are executed to professional standards
- To facilitate critical thinking

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Plan and execute a project that showcases their critical thinking
- Develop a research-led body of work
- Execute and carry out their work in a systematic and scheduled manner
- Document the work process
- Display their work and discuss it with clarity and coherence

**APPROVAL OF PROJECT PROPOSAL (Practical and Theory Projects)**

- Students will present **two** proposals for a design or theory-based project at the end of the seventh semester
- The proposals should be presented in the format given by the Department
- The proposals will be approved and project guides assigned at the end of the seventh semester
- Students who are unable to complete the project within the scheduled time will have to re-register in the forthcoming semester

**GUIDELINES FOR PRACTICAL OPTION**

- The project can be based in any design related area
- The student should maintain a work book with references, sketches, samples etc. on a regular basis as proof of work in progress
- **Review by project guide**
  - Student work will be reviewed every week by the project guide during the semester
  - Works completed and presented without approval will not be allowed for final submission.
- **Review by faculty panel**
  - A faculty panel will conduct 3 reviews of ongoing work at scheduled dates. Students should be present at all reviews.

- Workbook and ongoing work will be presented and assessed at the panel reviews. In case of work being outsourced, a clear idea of the work in progress should be presented in the form of samples, photos, etc.

## **ASSESSMENT OF PRACTICAL PROJECTS**

### **Continuous assessment: 50 marks**

Assessment by project guide: 35 marks

Assessment by faculty panel: 15 marks

### **End semester evaluation: 50 marks**

Evaluation by project guide: 25 marks

Evaluation by external examiner: 25 marks

## **GUIDELINES FOR THEORY OPTION**

- The project can be based in any design related area
- **Review by project guide**
  - Research, data collection and writing will be reviewed every week by the project guide during the semester
- **Review by faculty panel**
  - A faculty panel will conduct 3 reviews of ongoing work at scheduled dates. Students should be present at all reviews.
  - Drafts and ongoing work will be presented and assessed at the panel reviews.
- The emphasis of the theory project will be on primary data collection, analysis and consolidation, supported by field visits, interviews and research. The main body of writing – introduction, chapters and conclusion – should comprise 40 to 45 pages
- The text should be double-spaced, with the exception of indented block quotes, which can be single-spaced. Bibliographies, endnotes, and itemized lists should also be single spaced
- The text should be set in Times New Roman, of 12-point size
- The documentation should be presented in a format given below. It should be hardbound
- A soft copy of the documentation should be submitted to the department
- **FORMAT OF THE DOCUMENTATION**
  - Title Page
  - Certificate Page
  - Acknowledgements
  - Contents
  - Introduction
  - Chapters
  - Conclusion
  - Bibliography
  - Appendix (Optional)
  - Visual documentation

## **ASSESSMENT OF THEORY PROJECTS**

### **Continuous assessment: 50 marks**

Assessment by project guide: 35 marks

Assessment by faculty panel: 15 marks

### **End semester evaluation: 50 marks**

Evaluation by project guide: 25 marks

Viva voce by external examiner: 25 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT – ART**

**CODE: 19FA/ME/A689**

**CREDITS: 9**

**L T P: 0 0 15**

**TOTAL TEACHING HOURS: 195**

**OBJECTIVES OF THE COURSE**

- To enable students to build on experiences gained in previous courses and undertake a major project
- To give students the option to choose a practice or theory-based project
- To facilitate the strengthening of a personal style of expression
- To facilitate critical thinking

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Plan and execute a project that showcases their critical thinking
- Develop a research-led body of work
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- Workbook and ongoing work will be presented and assessed at the panel reviews. In case of work being outsourced, a clear idea of the work in progress should be presented in the form of samples, photos, etc.

## **ASSESSMENT OF PRACTICAL PROJECTS**

### **Continuous assessment: 50 marks**

Assessment by project guide: 35 marks

Assessment by faculty panel: 15 marks

### **End semester evaluation: 50 marks**

Evaluation by project guide: 25 marks

Evaluation by external examiner: 25 marks

## **GUIDELINES FOR THEORY OPTION**

- The project can be based in any art related area
- **Review by project guide**
  - Research, data collection and writing will be reviewed every week by the project guide during the semester
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  - Contents
  - Introduction
  - Chapters
  - Conclusion
  - Bibliography
  - Appendix (Optional)
  - Visual documentation

## **ASSESSMENT OF THEORY PROJECTS**

### **Continuous assessment: 50 marks**

Assessment by project guide: 35 marks

Assessment by faculty panel: 15 marks

### **End semester evaluation: 50 marks**

Evaluation by project guide: 25 marks

Viva voce by external examiner: 25 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Courses offered by Department of Fine Arts to students of  
B.A. / B.Sc. / B Com. /B.C.A. / B.S.W.**

**SYLLABUS**

**(Effective from the academic year 2019-2020)**

**RECYCLED ART PRACTICAL**

**CODE: 19FA/GE/RA22**

**CREDITS: 2**

**L T P: 0 0 2**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To provide an awareness of recycling junk material into art forms
- To enable upcycling of waste materials creatively

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the relevance of recycling and demonstrate an eco-friendly approach
- Understand and explore diverse waste materials
- Envision art from junk material
- Recycle junk material creatively

<b>Unit 1</b>	<b>(02 hrs)</b>
<b>Introduction to Materials</b>	
<b>Unit 2</b>	<b>(12 hrs)</b>
<b>Textiles and Paper</b>	
<b>Unit 3</b>	<b>(12 hrs.)</b>
<b>Plastic, Metals and other Materials</b>	

**BOOKS FOR REFERENCE**

Bawden, Juliet. *The Art and Craft of Applique*. London: Mitchell Beazley, 1991.

Jackson, Paul. *Paper Pop-Ups*. Rockport: Rockport, 1997.

Larbalestier, Simon. *The Art and Craft of Montage*. London: Mitchell Beazley, 1993.

Lively, Kate, ed. *Making Great Papercrafts Origami Stationery and Gift Wraps*. New Delhi: OM Books International, 2008.

Ziegler, Kathleen, and Nick Greco. *Paper Sculpture: A Step-by-Step Guide*. Rockport: Rockport, 1994.

**PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Four prescribed course works completed and presented to the course teacher on scheduled dates during the semester will be evaluated
- Three best marks will be computed for the final 50 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Courses offered by Department of Fine Arts to students of  
B.A. / B.Sc. / B Com. /B.C.A. / B.S.W.**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CREATIVE PRINTING PRACTICAL**

**CODE: 19FA/GE/CP22**

**CREDITS: 2**

**L T P: 0 0 2**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To provide an awareness of basic printing methods
- To explore the medium in a creative manner
- To learn the techniques of stamping, stencilling and monoprinting

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explore printing as a medium of expression
- Demonstrate the ability to use basic printing methods
- Understand the printing techniques of stamping, stencilling and monoprinting
- Develop creative artworks

<b>Unit 1</b>	<b>(02 hrs)</b>
<b>Stamping</b>	
<b>Unit 2</b>	<b>(12 hrs)</b>
<b>Stencilling</b>	
<b>Unit 3</b>	<b>(12 hrs.)</b>
<b>Monoprints</b>	

**BOOKS FOR REFERENCE**

Martin, Judy. *The Encyclopedia of Printmaking Techniques*. London: A Quarto Book, 1993.

Robinson, Lynne and Richard Lowther. *Stencilling*. London: Conran Octopus, 1995.

Visser, Jill and Michael Flinn. *Stencilling: Techniques for Interiors, Furniture and Objects*. London: Macdonald Orbis, 1988.

**PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Four prescribed course works completed and presented to the course teacher on scheduled dates during the semester will be evaluated
- Three best marks will be computed for the final 50 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Courses offered by Department of Fine Arts to students of  
B.A. / B.Sc. / B Com. /B.C.A. / B.S.W.**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FABRIC ART PRACTICAL**

**CODE: 19FA/GE/FA22**

**CREDITS: 2**

**L T P: 0 0 2**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To provide an exposure to textile art and ornamentation
- To give an awareness of fabric collage
- To introduce stencil printing and fabric painting techniques

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Use textiles as a medium of creative expression
- Make a textile collage using fabric
- Create a stencil print on fabric
- Decorate fabric using simple painting techniques

<b>Unit 1</b>	<b>(07 hrs)</b>
<b>Textile Collage</b>	
<b>Unit 2</b>	<b>(10 hrs)</b>
<b>Stencil Printing</b>	
<b>Unit 3</b>	<b>(09 hrs.)</b>
<b>Fabric Painting</b>	

**BOOKS FOR REFERENCE**

Innes, Miranda. *Fabric Painting*. London: Dorling Kindersley, 1996.

Parchure, J.W. *Fundamentals of Designing for Textiles and Other End Uses*. India: Woodhead Publishing India, 2009.

Robinson, Lynne and Richard Lowther. *Stencilling*. London: Conran Octopus, 1995.

**PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Four prescribed course works completed and presented to the course teacher on scheduled dates during the semester will be evaluated
- Three best marks will be computed for the final 50 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Courses offered by Department of Fine Arts to students of  
B.A. / B.Sc. / B Com. /B.C.A. / B.S.W.**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**COLLAGE PRACTICAL**

**CODE: 19FA/GE/CL22**

**CREDITS: 2**

**L T P: 0 0 2**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To explore collage as a medium of two-dimensional expression through the use of various materials
- To creatively explore themes such as nature, still life and portraits

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand collage as a medium of artistic expression
- Demonstrate the ability to use various materials to create collages
- Explore different techniques of collage
- Creatively use collage techniques in varied thematic compositions

**Unit 1** (03 hrs)  
**Montage**

**Unit 2** (14 hrs)  
**Femmage**

**Unit 3** (09 hrs)  
**Decoupage**

**GUIDELINES**

- Coursework prescribed will comprise thematic compositions based on nature, still life and portraits
- Printouts of drawings may be used to construct the collages

**BOOKS FOR REFERENCE**

Balu, V. *Srishti*. New Delhi: Rupa, 1991.

French, Brian. *Principles of Collage*. London: Mills & Boon, 1969.

Larbalestier, Simon. *The Art and Craft of Montage*. London: Mitchell Beazley, 1993.

Maflin, Andrea. *Decorative Paper*. London: Conran Octopus, 1995.

**PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Four prescribed course works completed and presented to the course teacher on scheduled dates during the semester will be evaluated
- Three best marks will be computed for the final 50 marks



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Courses offered by Department of Fine Arts to students of  
B.A. / B.Sc. / B Com. /B.C.A. / B.S.W.**

**SYLLABUS**

**(Effective from the academic year 2019-2020)**

**JEWELLERY FROM ALTERNATE MATERIALS PRACTICAL**

**CODE: 19FA/GE/JA22**

**CREDITS: 2**

**L T P: 0 0 2**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To enable students to create jewellery from alternate materials
- To introduce the basic methods of making jewellery
- To explore creatively the materials available to make jewellery

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explore alternate materials for jewellery
- Creatively assemble the materials available to make jewellery
- Demonstrate basic knowledge of the methods of jewellery making
- Use alternate materials to make jewellery

<b>Unit 1</b>	<b>(02 hrs)</b>
<b>Traditional Materials and Alternate Materials</b>	
<b>Unit 2</b>	<b>(14 hrs)</b>
<b>Techniques and Processes</b>	
<b>Unit 3</b>	<b>(10 hrs)</b>
<b>Fabrication</b>	

**GUIDELINES**

Students can explore the following materials: paper; fibre and fabric; beads of clay, wood and metal

**BOOKS FOR REFERENCE**

Dormer, Peter and Ralph Turner. *The New Jewellery: Trend Plus Traditions*. London: Thames and Hudson, 1985.

Fitch, Janet. *The Art and Craft of Jewellery*. London: Mitchell Beazley, 1992.

Gentile, Thomas. *Jewellery*. London: Pan Books, 1973.

Helt, Mary. *Complete Jewellery: Easy Techniques and 25 Great Projects*. London: Collins & Brown, 2009.

Power, Jean. *300 Beading Tips, Techniques and Trade Secrets*. Singapore: Page One Publishing, 2009.

Seecharran, Vannetta. *The Encyclopedia of Contemporary Jewellery Making Techniques*. Singapore: Page One Publishing, 2009.

Watkins, David. *The Best in Contemporary Jewellery*. Switzerland: RotaVision, 1993.

Welsh, Kate Shoup. *Not Your Mama's Beading*. New Jersey: Wiley Publishing, 2006.

## **PATTERN OF ASSESSMENT**

- There will be no end semester examination
- Four prescribed course works completed and presented to the course teacher on scheduled dates during the semester will be evaluated
- Three best marks will be computed for the final 50 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FASHION CONCEPTS, MANUFACTURE AND RETAIL**

**CODE: 19FA/UI/FC23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To facilitate independent study of the fashion industry and fashion centres
- To enable an understanding of apparel production
- To provide an overview of fashion retailing

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss general aspects of the fashion industry
- Demonstrate an awareness of international fashion centres
- Discuss salient features of apparel production
- Demonstrate an understanding of fashion accessories
- Discuss fashion retail strategies

**Unit 1**

**Introduction to Fashion**

- 1.1 Fashion development
- 1.2 Influences on fashion marketing and consumer demand
- 1.3 Fashion change and consumer acceptance
- 1.4 Fashion resources

**Unit 2**

**International Fashion Centres**

**Unit 3**

**Apparel Production**

- 3.1 Costing a garment
- 3.2 Pattern making, production scheduling, spreading and cutting
- 3.3 Production scheduling
- 3.4 Garment assembly and preparation for despatch

**Unit 4**

**Fashion Accessories**

- 4.1 Footwear, bags, belts, gloves and hosiery
- 4.2 Jewellery and watches

**Unit 5**

**Fashion Retailing**

- 5.1 Retail strategies
- 5.2 Store-based retail and retail organisations
- 5.3 Non-store retail

## **BOOK FOR STUDY**

Frings, Gini Stephen. *Fashion: From Concept to Consumer*. New Delhi: Dorling Kindersley, 2009.

## **BOOKS FOR REFERENCE**

Baugh, Gail. *The Fashion Designer's Textile Directory: The Creative Use of Fabrics in Design*. London: Thames and Hudson, 2011.

Diamond, Jay and Ellen Diamond. *Fashion Apparel, Accessories and Home Furnishings*. New Delhi: Dorling Kindersley, 2008.

Fogg, Marnie. *The Fashion Design Directory*. London: Thames and Hudson, 2011.

Frings, Gini Susan. *Fashion: From Concept to Consumer*. New Delhi: Dorling Kindersley, 2008.

Gale, Colin and Jasbir Kaur. *Fashion and Textiles*. Oxford: Berg, 2004.

Gardiner, Wendy. *The Encyclopedia of Sewing Techniques*. Kent: Search, 2004.

Ireland, Patrick John. *Encyclopedia of Fashion Details*. London: B T Batsford, 1996.

San Martin, Marcarena. *How to be a Fashion Designer*. Singapore: Paco Asensio, 2009.

Worsley, Harriet. *100 Ideas that Changed Fashion*. London: Laurence King, 2011.

## **PATTERN OF ASSESSMENT**

**End Semester Examination:**                      **Total Marks: 100**      **Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.V.A. DEGREE: BRANCH X – VISUAL ARTS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HISTORY OF GRAPHIC DESIGN**

**CODE: 19FA/UI/GD23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To facilitate independent study of the history of graphic design
- To provide an overview of major developments in graphic design

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the discipline of graphic design
- Discuss the development of graphic design as a discipline
- Outline key events that changed the course of graphic design over the centuries
- Discuss graphic design in the modern era
- Identify key developments in the Postmodern era

**Unit 1**

**Introduction to Graphic Design**

- 1.1 Invention of writing
- 1.2 Alphabets
- 1.3 Illuminated manuscripts

**Unit 2**

**Graphic Renaissance**

- 2.1 Renaissance graphic design
- 2.2 Epoch of typographic genius

**Unit 3**

**Industrial Revolution**

- 3.1 Typography for an industrial age
- 3.2 Photography – the new communication tool
- 3.3 Arts and Crafts movement

**Unit 4**

**Modernist Era**

- 4.1 Genesis of twentieth century design
- 4.2 Influence of Modern art
- 4.3 Bauhaus and new typography

**Unit 5**

**Age of Information**

- 5.1 International typographic style
- 5.2 Corporate identity and visual systems
- 5.3 Postmodern design
- 5.4 Digital revolution

## **BOOK FOR STUDY**

Meggs, B. Philip. *A History of Graphic Design*. New York: John Wiley, 1998.

## **BOOKS FOR REFERENCE**

Blakesley, Rosalind P. *The Arts and Crafts Movement*. London: Phaidon, 2011.

Conway, Hazel. *Design History: a Students' Handbook*. London: Routledge, 1997.

Eskilson, Stephen J. *Graphic Design A History*. 2<sup>nd</sup> ed. London: Laurence King, 2007.

Fallan, Kjetil. *Design History: Understanding Theory and Method*. New York: Berg, 2010.

Lees-Maffei, Grace, and Rebecca Houze. *The Design History Reader*. New York: Berg, 2010.

## **PATTERN OF ASSESSMENT**

### **End Semester Examination:**

**Total Marks: 100**

**Duration: 3 Hours**

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086****B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.C.A. / B.S.W. DEGREE****FOUNDATION COURSE : FRENCH****COURSES OF STUDY****(Effective from the academic year 2019-2020)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19FR/FC/LF13	Introduction to French Language and Literature	3	3	1	0	3	50	50	100
<b>SEMESTER-II</b>									
19FR/FC/IL23	Intermediate French and Literature	3	3	1	0	3	50	50	100
<b>SEMESTER-III</b>									
19FR/FC/AL33	Advanced Language and Literature I	3	3	1	0	3	50	50	100
<b>SEMESTER-IV</b>									
19FR/FC/AL43	Advanced Language and Literature II	3	3	1	0	3	50	50	100
<b>GENERAL ELECTIVE COURSES</b>									
19FR/GE/SF22	Spoken French	2	2	0	0	-	50	-	100
19FR/GE/FN22	French for Beginners	2	2	0	0	-	50	-	100
19FR/GE/FS22	French for Business	2	2	0	0	-	50	-	100
19FR/GE/FT22	French for Tourism	2	2	0	0	-	50	-	100
<b>POSTGRADUATE ELECTIVE COURSES</b>									
19FR/PE/FB23	Beginners French	3	3	0	0	3	50	50	100
19FR/PE/BF23	Business French	3	3	0	0	3	50	50	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – FRENCH**

**INTRODUCTION TO FRENCH LANGUAGE AND LITERATURE**

**CODE: 19FR/FC/LF13**

**CREDITS: 3**

**LTP : 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To explore the French language and literature.
- To acquire knowledge about the French civilization.

**COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- greet, introduce oneself and others.
- express one's likes, dislikes and opinions.
- use Present and Past tenses.
- ask questions.
- talk about the time, the date, the quantity and the price.
- express opinion.
- invite, accept and refuse an invitation.
- have an overview of the French civilisation.
- get the gist of the French Literature.

**Unité 1**

**(12 Hours)**

**Salut !**

- 1.1. Saluer
- 1.2. Entrer en contact avec quelqu'un
- 1.3. Se présenter
- 1.4. S'excuser

**Enchanté**

- 1.5. Demander de se présenter
- 1.6. Présenter quelqu'un
- 1.7. La Civilisation française



**Unité 2** (12 Hours)

**J'adore !**

- 2.1. Exprimer ses goûts
- 2.2. Échanger sur ses projets

**Tu veux bien ?**

- 2.3. Demander à quelqu'un de faire quelque chose
- 2.4. Demander poliment
- 2.5. Parler d'actions passées
- 2.6. La Civilisation française

**Unité 3** (10 Hours)

**On se voit quand ?**

- 3.1. Proposer, accepter, refuser une invitation
- 3.2. Indiquer la date
- 3.3. Prendre et fixer un rendez-vous
- 3.4. Demander et indiquer l'heure
- 3.5. La Civilisation française

**Unité 4** (10 Hours)

**Bonne idée !**

- 4.1. Exprimer son point de vue positif et négatif
- 4.2. S'informer sur le prix
- 4.3. S'informer sur la quantité
- 4.4. Exprimer la quantité
- 4.5. La Civilisation française

**Unité 5** (8 Hours)

**Le texte littéraire**

- 5.1. Le Petit Prince (Chapitre 1) - Antoine de Saint Exupéry
- 5.2. La colombe poignardée et le jet d'eau – Calligramme - Guillaume Apollinaire

**BOOKS FOR STUDY**

Mérieux RÉGINE, Loiseau YVES, *Latitudes 1, Méthode de français*, Paris : Didier, 2012.

**BOOKS FOR REFERENCE**

APOLLINAIRE Guillaume, *Calligrammes: Poèmes de la paix et de la guerre 1913-1916*, Paris: Gallimard, 1966.

BERTHET Annie, HUGOT Catherine, SAMPSONIS Béatrix, WRENDENDRIES Monique, *Alter Égo 1, Méthode de français et cahier d'exercices*, Paris : Hachette, 2006.

CARLO Catherine, CAUSA Mariella, *Civilisation Progressive du Français – I*, Paris : CLE International, 2003.

COCTON Marie-Noëlle, *Génération 1 Niveau A1, Méthode de français et cahier d'exercices*, Paris : Didier, 2016.

DINTILHAC Anneline, DE OLIVEIRA Anouchka, RIPAUD Delphine, DUPLEIX Dorothée, COCTON Marie-Noëlle, *Saison 1 Niveau 1, Méthode de français et cahier d'exercices*, Paris : Didier, 2015.

SAINT-EXUPÉRY Antoine de, *Le Petit Prince*, Paris : Gallimard, 2007.

### WEB RESOURCES

[www.francparler.org](http://www.francparler.org)

[www.francaisfacile.com/exercices/](http://www.francaisfacile.com/exercices/)

[www.lepointdufle.net/](http://www.lepointdufle.net/)

[www.ccdmd.qc.ca/fr/](http://www.ccdmd.qc.ca/fr/)

[www.bonjourdefrance.com](http://www.bonjourdefrance.com)

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

<https://www.etudes-litteraires.com/>

[www.larousse.fr/](http://www.larousse.fr/)

<http://crisco.unicaen.fr/>

<https://fr.wikimini.org/>

### PATTERN OF ASSESSMENT

**Continuous Assessment Test :**      **Total marks: 50**      **Duration: 90 minutes**

Section A (20 points)

Section B (15 points)

Section C (15 points)

**Other Components :**      **Total marks: 50**

Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs /Les exercices d'écoute

**End-Semester Examination :**      **Total marks: 100**      **Duration: 3 hours**

**Section A (40 points)**

Les exercices tirés du manuel prescrit (10 x 4= 40 points)

**Section B (30 points)**

Compréhension écrite d'un document authentique. (10 points)

L'écriture créative tirée du texte prescrit (présentez-vous, présentez quelqu'un, carte postale, lettre, courriel électronique, dialogue) 2 sujets sur 3 (2x10=20 points)

**Section C (30 points)**

La Civilisation française tirée du texte (*Latitudes 1*) (10 points)

Les questions basées sur le texte littéraire (15 points)

Résumé du texte littéraire (5 points)

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**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – FRENCH**

**INTERMEDIATE FRENCH AND LITERATURE**

**CODE: 19FR/FC/IL23**

**CREDITS : 3**

**LTP : 3 1 0**

**TOTAL TEACHING HOURS : 52**

**OBJECTIVE OF THE COURSE**

- To acquire the linguistic and communicative skills of the French language.

**COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- give directions.
- express obligation and prohibition
- give advice.
- describe a place, time and a person.
- narrate, question and compare.
- use future tense.
- intensify her knowledge on the French civilisation.

**Unité 1**

**(12 Hours)**

**C'est où ?**

- 1.1. Demander et indiquer une direction
- 1.2. Localiser (près de, en face de...)

**N'oubliez pas !**

- 1.3. Exprimer l'obligation ou l'interdit
- 1.4. Conseiller
- 1.5. La Civilisation française

**Unité 2**

**(10 Hours)**

**Belle vue sur la mer !**

- 2.1. Décrire un lieu
- 2.2. Situer
- 2.3. Se situer dans le temps
- 2.4. La Civilisation française

**Unité 3** (10 Hours)

**Quel beau voyage!**

- 3.1. Raconter
- 3.2. Décrire les étapes d'une action
- 3.3. Exprimer l'intensité et la quantité
- 3.4. Interroger
- 3.5. La Civilisation française

**Unité 4** (12 Hours)

**Oh ! Joli !**

- 4.1. Décrire quelqu'un
- 4.2. Comparer
- 4.3. Exprimer l'accord ou le désaccord
- 4.4. Se situer dans le temps

**Et après ?**

- 4.5. Parler de l'avenir
- 4.6. Exprimer des souhaits
- 4.7. Décrire quelqu'un
- 4.8. La Civilisation française

**Unité 5** (8 Hours)

**Les textes littéraires**

- 5.1. La Belle au bois dormant- Le Conte de fée par Charles Perrault
- 5.2. Le fils à la recherche de sa mère - Le Conte Sénégalais- Pape Faye

**BOOKS FOR STUDY**

Mérieux RÉGINE, Loiseau YVES, *Latitudes 1, Méthode de français*, Paris : Didier, 2012.

**BOOKS FOR REFERENCE**

BERTHET Annie, HUGOT Catherine, SAMPSONIS Béatrix, WRENDENDRIES Monique, *Alter Égo 1, Méthode de français et cahier d'exercices*, Paris : Hachette, 2006.

CARLO Catherine, CAUSA Mariella, *Civilisation Progressive du Français – I*, Paris : CLE International, 2003.

COCTON Marie-Noëlle, *Génération 1 Niveau A1, Méthode de français et cahier d'exercices*, Paris : Didier, 2016.

DINTILHAC Anneline, DE OLIVEIRA Anouchka, RIPAUD Delphine, DUPLEIX Dorothée, COCTON Marie-Noëlle, *Saison 1 Niveau 1, Méthode de français et cahier d'exercices*, Paris : Didier, 2015.

PERRAULT Charles, *Les Contes de ma mère l'Oye*, Paris: Claude Barbin, 1697.

## WEB RESOURCES

<https://www.conte-moi.net/contes/fils-recherche-sa-mere>  
[www.franccparler.org](http://www.franccparler.org)  
[www.francaisfacile.com/exercices/](http://www.francaisfacile.com/exercices/)  
[www.lepointdufle.net/](http://www.lepointdufle.net/)  
[www.ccdmd.qc.ca/fr/](http://www.ccdmd.qc.ca/fr/)  
[www.bonjourdefrance.com](http://www.bonjourdefrance.com)  
<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>  
<http://www.conte-moi.net>  
[www.larousse.fr/](http://www.larousse.fr/)  
<http://crisco.unicaen.fr/>  
<https://fr.wikimini.org/>

## PATTERN OF ASSESSMENT

<b>Continuous Assessment Test :</b>	<b>Total marks:50</b>	<b>Duration: 90 minutes</b>
Section A (20 points)		
Section B (15 points)		
Section C (15 points)		

<b>Other Components :</b>	<b>Total marks: 50</b>
Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs /Les exercices d'écoute	

<b>End-Semester Examination :</b>	<b>Total marks: 100</b>	<b>Duration: 3 hours</b>
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**Section A (40 points)**  
Les exercices tirés du manuel prescrit (10 x 4= 40 points)

**Section B (30 points)**  
Compréhension écrite d'un document authentique. (10 points)  
L'écriture créative tirée du texte prescrit (présentez-vous, présentez quelqu'un, carte postale, lettre, courriel électronique, dialogue) 2 sujets sur 3 (2x10=20 points)

**Section C (30 points)**  
La Civilisation française tirée du texte (*Latitudes 1*) (10 points)  
Les questions basées sur les textes littéraires (15 points)  
Résumé des textes littéraires (5 points)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – FRENCH**

**ADVANCED LANGUAGE AND LITERATURE- I**

**CODE:19FR/FC/AL33**

**CREDITS: 3**

**LTP: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVE OF THE COURSE**

- To enhance the acquired knowledge in the French language and literature.
- To enable the students to improve their writing skills.

**COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- have a basic knowledge of the French literature.
- understand the French themes and concepts of French literature.
- inculcate the reading habit.
- use the grammar learnt for creative writing.

**Unité 1**

**(14 Hours)**

- 1.1. Nos études *ou* Les jumeaux rédigent la composition  
- extrait tiré du roman *Le Grand Cahier* écrit par Agota Kristof
- 1.2. Les feuilles mortes *ou* Les enfants à l'œuvre  
- extrait tiré de la nouvelle *Filles et Garçons* écrite par Anatole France
- 1.3. Le passé composé
- 1.4. L'imparfait

**Unité 2**

**(9 Hours)**

- 2.1. Demain dès l'aube *ou* Douleur inconsolable  
- poème tiré du recueil *Les Contemplations* écrit par Victor Hugo
- 2.2. Le plus-que-parfait

### Unité 3

(9 Hours)

- 3.1. Une visite inattendue *ou* Le père rentre chez lui  
- extrait tiré du roman *Petit-Louis* écrit par Eugène Dabit

- 3.2. Le passé simple

### Unité 4

(11 Hours)

- 4.1. Estula *ou* Le chien qui parle !  
- extrait tiré d'un fabliau comique du Moyen Âge écrit par un auteur anonyme

- 4.2. Une Saison dans la vie d'Emmanuel *ou* L'hiver a été dur, mais le printemps sera meilleur !  
- extrait tiré du roman *Une Saison dans la vie d'Emmanuel* écrit par Marie-Claire Blais

- 4.3. Temps du passé

### Unité 5

(9 Hours)

- 5.1. Les animaux malades de la peste  
- extrait tiré du *livre VII : Fables de La Fontaine* écrit par Jean de la Fontaine
- 5.2. L'expression du temps

### BOOKS FOR STUDY

MADANAGOBALANE K, MIRAKAMAL N C, *Le français par les textes*, Chennai: Samhita Publications, 2017.

### BOOKS FOR REFERENCE

ABBADIE Christian, CHOVELON Bernadette, MORSEL Marie-Hélène, *L'Expression française écrite et orale*, Grenoble: Presses universitaires de Grenoble, 2003.

COCTON Marie-Noëlle, *Génération 1 Niveau A1, Méthode de français et cahier d'exercices*, Paris : Didier, 2016.

DE LA FONTAINE Jean, *Fables de La Fontaine : livre VII*, Paris: Claude Barbin, 1678.

DINTILHAC Anneline, DE OLIVEIRA Anouchka, RIPAUD Delphine, DUPLEIX Dorothee, COCTON Marie-Noëlle, *Saison 1 Niveau 1, Méthode de français et cahier d'exercices*, Paris : Didier, 2015.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XVIIe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1989.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: Littérature du XVIIIe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1993.



LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XIXe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1993.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XXe Siècle*, Paris : Bordas, 1993.

## WEB RESOURCES

[www.larousse.fr/](http://www.larousse.fr/)

<http://crisco.unicaen.fr/>

<http://www.bonjourdefrance.co.uk/learn-french-online/grammar/choose-level>

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

<https://fr.wikimini.org/>

<http://www.conte-moi.net>

<https://www.etudes-litteraires.com/>

<https://www.espacefrancais.com/litterature/>

<https://commentairecompose.fr/mouvement-litteraire/>

<https://bibliothequenumerique.tv5monde.com/>

<https://facnotes.wordpress.com/>

<http://flenet.unileon.es/docauteurs.html>

## PATTERN OF ASSESSMENT

**Continuous Assessment Test :**      **Total marks:50**      **Duration: 90 minutes**

Section A (20 points)

Section B (15 points)

Section C (15 points)

**Other Components :**      **Total Marks :50**

Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs /Les exercices d'écoute

**End-Semester Examination :**      **Total marks: 100**      **Duration: 3 hours**

### Section A (40 points)

Les exercices de la grammaire tirés du manuel prescrit ( $10 \times 4 = 40$  points)

### Section B (30 points)

Les questions basées sur les textes littéraires (20 points)

- Répondez aux questions
- Complétez
- Choisissez la bonne réponse
- Dites vrai ou faux

- Associez
- Retrouvez les mots / phrases
- Écrivez les contraires / synonymes
- Donnez la forme nominale / verbale / adjectivale
- Mettez au masculin / féminin
- Mettez en ordre

Résumé des textes littéraires (10 points)

**Section C (30 points)**

Traduction des textes littéraires tirés du manuel prescrit – (1 sujet sur 2) (10 points)

Compréhension écrite d'un document authentique. – (10 points)

Rédaction (Écriture créative) (2 sujets sur 3) (10 points)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.A. / B.Sc. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – FRENCH**

**ADVANCED LANGUAGE AND LITERATURE- II**

**CODE: 19FR/FC/AL43**

**CREDITS: 3**

**LTP: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To reinforce the student's knowledge of French through literary extracts.
- To encourage the students to read various genres of French Literature.

**COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- have a wide knowledge about the French literature.
- identify and appreciate the various themes, genres and works of the French literature.
- read the French literary works by a variety of French and Francophone writers.
- use complex sentences in her compositions with advanced level of grammar.

**Unité 1**

**(12 Hours)**

- 1.1. La tortue et le chien *ou* Le chien qui ne dispute pas la bonne place à la tortue  
- extrait tiré du recueil de contes *Contes de Provence* écrit par Paul Arène
- 1.2. L'égoïste puni *ou* La leçon bien méritée !  
- extrait tiré du roman *Les Lunettes de Grand'maman* écrit par Pierre Perrault
- 1.3. Les pronoms relatifs

**Unité 2**

**(12 Hours)**

- 2.1. L'hiver *ou* Le petit moineau  
- extrait tiré de *Chants pour les Enfants* écrit par Mademoiselle Brès
- 2.2. La danse *ou* La ruse de Zadig  
- extrait tiré du conte philosophique *Zadig* *ou* *La Destinée* écrit par Voltaire
- 2.3. La comparaison

**Unité 3**

**(10 Hours)**

- 3.1. La mort de maman *ou* Ce n'est pas de ma faute  
- extrait tiré du roman *L'Étranger* écrit par Albert Camus
- 3.2. Le subjonctif présent

## Unité 4

(10 Hours)

- 4.1. Le lévrier et le serpent *ou* La bravoure du chien  
- extrait tiré du roman *Sept Sages* écrit par un auteur anonyme
- 4.2. Le conditionnel

## Unité 5

(8 Hours)

- 5.1. Le Chêne et le Roseau  
- fable tirée du *Livre I : Fables de La Fontaine* écrit par Jean de la Fontaine
- 5.2 L'expression de la cause

## BOOKS FOR STUDY

MADANAGOBALANE K, MIRAKAMAL N C, *Le français par les textes*, Chennai: Samhita Publications, 2017.

## BOOKS FOR REFERENCE

ABBADIE Christian, CHOVELON Bernadette, MORSEL Marie-Hélène, *L'Expression française écrite et orale*, Grenoble: Presses universitaires de Grenoble, 2003.

COCTON Marie-Noëlle, *Génération 1 Niveau A1, Méthode de français et cahier d'exercices*, Paris : Didier, 2016.

DE LA FONTAINE Jean, *Fables de La Fontaine : livre I*, Paris: Claude Barbin, 1668.

DINTILHAC Anneline, DE OLIVEIRA Anouchka, RIPAUD Delphine, DUPLEIX Dorothee, COCTON Marie-Noëlle, *Saison 1 Niveau 1, Méthode de français et cahier d'exercices*, Paris : Didier, 2015.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XVIIe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1989.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: Littérature du XVIIIe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1993.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XIXe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1993.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XXe Siècle*, Paris : Bordas, 1993.

## WEB RESOURCES

[www.larousse.fr/](http://www.larousse.fr/)

<http://crisco.unicaen.fr/>

<https://www.bonjourdefrance.co.uk/learn-french-online/grammar/choose-level>  
<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>  
<https://fr.wikimini.org/>  
<http://www.conte-moi.net>  
<https://www.etudes-litteraires.com/>  
<https://www.espacefrancais.com/litterature/>  
<https://commentairecompose.fr/mouvement-litteraire/>  
<https://bibliothequenumerique.tv5monde.com/>  
<https://facnotes.wordpress.com/>  
<http://flenet.unileon.es/docauteurs.html>

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test :**      **Total Marks:50**      **Duration: 90 minutes**

Section A (20 points)

Section B (15 points)

Section C (15 points)

**Other Components :**      **Total Marks: 50**

Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs /Les exercices d'écoute

**End- Semester Examination :**      **Total Marks: 100**      **Duration: 3 hours**

**Section A (40 points)**

Les exercices tirés du manuel prescrit ( $10 \times 4 = 40$  points)

**Section B (30 points)**

Les questions basées sur les textes littéraires (20 points)

- Répondez aux questions
- Complétez
- Choisissez la bonne réponse
- Dites vrai ou faux
- Associez
- Retrouvez les mots / phrases
- Écrivez les contraires / synonymes
- Donnez la forme nominale / verbale / adjectivale
- Mettez au masculin / féminin
- Mettez en ordre

Résumé des textes littéraires (10 points)

**Section C (30 points)**

Traduction des textes littéraires tirés du manuel prescrit – (1 sujet sur 2) (10 points)

Compréhension écrite d'un document authentique. – (10 points)

Rédaction (Écriture créative) (2 sujets sur 3) (10 points)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**General Elective Course offered by the Department of French to**  
**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SPOKEN FRENCH**

**CODE: 19FR/GE/SF22**

**CREDITS: 2**

**LTP : 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVE OF THE COURSE**

The course is open to students with no prior knowledge of French. It is programmed for a simple and practical acquisition of communicative skills in French. The student is given the opportunity to practice the oral skills acquired.

**COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- greet and spell out a word.
- introduce herself as well as others.
- express her preferences
- ask questions, age and time.
- provide details about her family and her routine.
- describe someone.

**Unité 1**

**(8 Hours)**

- 1.1 Saluer quelqu'un
- 1.2 Épeler un mot
- 1.3 Se présenter
- 1.4 Présenter quelqu'un

**Unité 2**

**(9 Hours)**

- 2.1 Parler de ses goûts
- 2.2 Poser des questions
- 2.3 Dire / demander l'âge
- 2.4 Dire / demander l'heure

**Unité 3**

**(9 Hours)**

- 3.1 Présenter sa famille
- 3.2 Parler de ses activités quotidiennes
- 3.3 Décrire quelqu'un (apparence physique, vêtements...)

## BOOKS FOR STUDY

HIMBER Céline, RASTELLO Charlotte, GALLON Fabienne avec la collaboration de GAUDEL Adeline, *Le Kiosque 1, Méthode de français et cahier d'exercices*, Paris : Hachette, 2007.

## BOOKS FOR REFERENCE

CAPELLE Guy, MENAND Robert, *Taxi - I, Méthode de français et cahier d'exercices*, Paris : Hachette, 2003.

CARLO Catherine, CAUSA Mariella, *Civilisation Progressive du Français – I*, Paris : CLE International, 2003.

## WEB RESOURCES

[www.francparler.org](http://www.francparler.org)

[www.francaisfacile.com](http://www.francaisfacile.com)

[www.lepointdufle.net](http://www.lepointdufle.net)

[www.ccdmd.qc.ca](http://www.ccdmd.qc.ca)

[www.bonjourdefrance.com](http://www.bonjourdefrance.com)

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

## PATTERN OF ASSESSMENT

**Total marks: 50**

**Continuous Assessment Test : Total marks:25**

**Duration: 60 minutes**

**Section A (10 points)**

Les exercices d'écoute

**Section B (10 points)**

Le dialogue avec le professeur

**Section C (05 points)**

Le monologue

**Other Components :**

**Total Marks :25**

Le jeu de rôle / Examen oral / Présentation / Test culturel (à l'oral) / Activités ludiques

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of French to  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**FRENCH FOR BEGINNERS**

**CODE: 19FR/GE/FN22**

**CREDITS: 2**

**LTP: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVE OF THE COURSE**

The course is open to students with no prior knowledge of French. It is programmed for a simple and practical acquisition of communicative skills in French. The student is given the opportunity to practice the skills acquired, both oral and written.

**COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- understand the language
- carry out a basic conversation in school.
- talk about colours, numbers, shapes and parts of the body and time.
- understand the French grammar.
- express opinions, negations and interrogation
- have an overview of the French civilisation.

**Unité 1**

**(9 Hours)**

- 1.1 Comment se présenter ?
- 1.2 À l'école- A
- 1.3 À l'école- B
- 1.4 À l'école- C

**Unité 2**

**(9 Hours)**

- 2.1 Les couleurs
- 2.2 Le verbe «être»
- 2.3 Singulier et Pluriel

**Unité 3**

**(8 Hours)**

- 3.1 Les matières et les formes
- 3.2 Le corps humain
- 3.3 Les cinq sens



## BOOKS FOR STUDY

TIWARI Meenal, *Esprit 1, Méthode de français*, New Delhi : Langers International Pvt Ltd 2016.

## BOOKS FOR REFERENCE

CAPELLE Guy, MENAND Robert, *Taxi - I, Méthode de français et cahier d'exercices*, Paris : Hachette, 2003.

CARLO Catherine, CAUSA Mariella, *Civilisation Progressive du Français – I*, Paris : CLE International, 2003.

## WEB RESOURCES

[www.francparler.org](http://www.francparler.org)

[www.francaisfacile.com](http://www.francaisfacile.com)

[www.lepointdufle.net](http://www.lepointdufle.net)

[www.ccdmd.qc.ca/fr/](http://www.ccdmd.qc.ca/fr/)

[www.bonjourdefrance.com](http://www.bonjourdefrance.com)

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

## PATTERN OF ASSESSMENT

**Total marks: 50**

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

### Section A (10 points)

Les exercices de la grammaire tirés du manuel prescrit.

### Section B (10 points)

Les exercices du vocabulaire tirés du manuel prescrit. (5 points)

Compréhension écrite d'un texte inconnu (5 points)

### Section C (05 points)

Rédaction (Rédigez un paragraphe sur un sujet donné, rédigez un dialogue, présentez-vous, présentez quelqu'un)

*ou*

Traduction

**Other Components :**

**Total Marks : 25**

Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs

## **PATTERN OF ASSESSMENT**

**Total marks: 50**

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

### **Section A (10 points)**

Les exercices de la grammaire tirés du manuel prescrit.

### **Section B (10 points)**

Les exercices du vocabulaire tirés du manuel prescrit. (5 points)

Compréhension écrite d'un texte inconnu (5 points)

### **Section C (05 points)**

Rédaction (rédigez un dialogue, présentez-vous, présentez quelqu'un, remplissez une fiche d'inscription, rédigez un texte d'après les informations d'un dialogue)

*ou*

Traduction

**Other Components :**

**Total Marks :25**

Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of French to  
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FRENCH FOR BUSINESS**

**CODE: 19FR/GE/FS22**

**CREDITS: 2**

**LTP: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVE OF THE COURSE**

The course is open to students who wish to learn Business French. It is programmed for a simple and practical acquisition of communicative skills in French. The student is given the opportunity to practice the skills acquired, both oral and written.

**COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- discover the workspace.
- get acquainted with each other.
- introduce oneself and others.
- approach someone for information.
- make an appointment with somebody.
- analyse the visiting cards.
- steer a general conversation.

**Unité 1 (9 Hours)**

- 1.1 Découvrir le monde du travail
- 1.2 Prendre contact
- 1.3 Faire connaissance

**Unité 2 (9 Hours)**

- 2.1 Entrer en contact
- 2.2 Aborder une personne pour demander quelque chose ou pour parler
- 2.3 Fixer un rendez-vous
- 2.4 Parler d'une personne, sa profession, son âge, sa famille et son ambition

**Unité 3 (8 Hours)**

- 3.1 Diriger une conversation générale
- 3.2 Commander au restaurant

**BOOKS FOR STUDY**

MEHTA Ragini, *Collaboration*, New Delhi : GOYAL Publishers & Distributors Pvt. Ltd., 2014.

## BOOKS FOR REFERENCE

DUBOIS Anne-Lyse, TAUZIN Béatrice, *Objectif Express 1 Nouvelle Édition*, Paris : Hachette, 2013.

PENFORNIS Jean-Luc, *Communication Progressive du Français des Affaires*, Paris : CLE International, 2010.

## WEB RESOURCES

[www.francparler.org](http://www.francparler.org)

[www.francaisfacile.com](http://www.francaisfacile.com)

[www.lepointdufle.net](http://www.lepointdufle.net)

[www.ccdmd.qc.ca/fr/](http://www.ccdmd.qc.ca/fr/)

<http://www.bonjourdefrance.com/index/indexfranaff.htm#>

<http://www.ciel.fr/apprendre-francais/francais-affaires/examen-francais-affaires.htm>

## PATTERN OF ASSESSMENT

**Total marks: 50**

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

### Section A (10 points)

Les exercices de la grammaire tirés du manuel prescrit.

### Section B (10 points)

Les exercices du vocabulaire tirés du manuel prescrit. (5 points)

Compréhension écrite d'un texte inconnu (5 points)

### Section C (05 points)

Rédaction (rédigez un dialogue, présentez-vous, présentez quelqu'un, remplissez une fiche d'inscription, rédigez un texte d'après les informations d'un dialogue)

*ou*

Traduction

**Other Components :**

**Total Marks :25**

Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of French to  
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

## **SYLLABUS**

(Effective from the academic year 2019-2020)

### **FRENCH FOR TOURISM**

**CODE: 19FR/GE/FT22**

**CREDITS: 2**

**LTP : 2 0 0**

**TOTAL TEACHING HOURS: 26**

#### **OBJECTIVE OF THE COURSE**

The course is open to students who have the desire to explore the world. It is programmed for a simple and practical acquisition of communicative skills in French. The students are given the opportunity to explore the tourism domain.

#### **COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- give information about oneself.
- reserve an hotel room.
- complaint about the functioning of the installation.
- respond to inquiries.
- book a table in a restaurant.
- order, suggest and appreciate the food.
- express one's likes, dislikes and opinions.

#### **Unité 1 : À l'hôtel « Minakshi »**

**(8 Hours)**

- 1.1 Accueillir – réceptionniste à l'hôtel
- 1.2 À propos de la réservation
- 1.3 Durée du séjour
- 1.4 Prix de la chambre
- 1.5 Accepter la chambre
- 1.6 Les formalités à remplir
- 1.7 Après la réservation

#### **Unité 2 : Je suis vraiment vexé**

**(9 Hours)**

- 2.1 Se plaindre du fonctionnement des installations
- 2.2 Exprimer son irritation
- 2.3 Réclamer
- 2.4 S'excuser

#### **Unité 3 : Au restaurant**

**(9 Hours)**

- 3.1 Proposer une table
- 3.2 Demander une table
- 3.3 Exprimer son mécontentement

- 3.4 Proposer et demander des suggestions
- 3.5 Exprimer son appréciation
- 3.6 Pour payer, après avoir mangé

### **BOOKS FOR STUDY**

N. C. MIRAKAMAL, R. VENGUATTARAMANE, *L'hôtellerie et le tourisme, Méthode de français*, Chennai : Samhita Publications, 2015.

### **BOOKS FOR REFERENCE**

MEHTA Ragini, *Le français en contexte Tourisme, Méthode de français professionnelles*, Paris : Edition Maison des langues, 2013.

CAPELLE Guy, MENAND Robert, *Taxi - I, Méthode de français et cahier d'exercices*, Paris : Hachette, 2003.

### **WEB RESOURCES**

<https://emilieviret.wordpress.com/ressources/francais-du-tourisme/>

[www.francparler.org](http://www.francparler.org)

[www.francaisfacile.com](http://www.francaisfacile.com)

[www.lepointdufle.net](http://www.lepointdufle.net)

[www.ccdmd.qc.ca/fr](http://www.ccdmd.qc.ca/fr)

<http://www.bonjourdefrance.com/index/indexfranaff.htm#>

<http://www.ciel.fr/apprendre-francais/francais-affaires/examen-francais-affaires.htm>

### **PATTERN OF ASSESSMENT**

**Total marks: 50**

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

#### **Section A (10 points)**

Les exercices de la grammaire tirés du manuel prescrit.

#### **Section B (10 points)**

Les exercices du vocabulaire tirés du manuel prescrit. (5 points)

Compréhension écrite d'un texte inconnu (5 points)

#### **Section C (05 points)**

Rédaction (rédigez un dialogue, décrivez une chambre d'hôtel)

*ou*

Traduction

**Other Components :**

**Total Marks :25**

Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**Postgraduate Elective Course offered by the Department of French to**  
**M.A. / M.Sc. / M.Com. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BEGINNERS FRENCH**

**CODE: 19FR/PE/FB23**

**CREDITS:3**

**LTP:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVE OF THE COURSE**

The course is open to students with no prior knowledge of French. It is programmed for a simple and practical acquisition of communicative skills in French. The student is given the opportunity to practice the skills acquired, both oral and written.

**COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- understand the language.
- carry out a basic conversation in school.
- talk about colours, numbers, shapes and parts of the body and time.
- understand the French grammar.
- express opinions, negations and interrogation.
- talk about the time and the date.
- talk about the hobbies or favourite activities.
- have an overview of the French civilisation.

**Unité 1**

**(13 Hours)**

- 1.1 Comment se présenter ?
- 1.2 À l'école- A
- 1.3 À l'école- B
- 1.4 À l'école- C

**Unité 2**

**(13 Hours)**

- 2.1 Les couleurs
- 2.2 Le Verbe «être»
- 2.3 Singulier et Pluriel
- 2.4 Les matières et les formes

**Unité 3**

**(13 Hours)**

- 3.1 Le corps humain
- 3.2 Les cinq sens

3.3 Les passe-temps ou activités favorites

3.4 L'heure

### **BOOKS FOR STUDY**

TIWARI Meenal, *Esprit 1, Méthode de français*, New Delhi : Langers International Pvt Ltd 2016.

### **BOOKS FOR REFERENCE**

CAPELLE Guy, MENAND Robert, *Taxi - I, Méthode de français et cahier d'exercices*, Paris : Hachette, 2003.

CARLO Catherine, CAUSA Mariella, *Civilisation Progressive du Français – I*, Paris : CLE International, 2003.

### **WEB RESOURCES**

[www.franctalk.org](http://www.franctalk.org)

[www.francaisfacile.com](http://www.francaisfacile.com)

[www.lepointdufle.net](http://www.lepointdufle.net)

[www.ccdmd.qc.ca/fr/](http://www.ccdmd.qc.ca/fr/)

[www.bonjourdefrance.com](http://www.bonjourdefrance.com)

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test :**                      **Total marks:50**                      **Duration: 90 minutes**

Section A (20 points)

Section B (15 points)

Section C (15 points)

**Other Components :**                      **Total marks: 50**

Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs /Les exercices d'écoute

**End-Semester Examination :**                      **Total marks: 100**                      **Duration: 3 hours**

#### **Section A (40 points)**

Les exercices de la grammaire tirés du manuel prescrit.

#### **Section B (30 points)**

Les exercices du vocabulaire tirés du manuel prescrit. (20 points)

Compréhension écrite d'un texte inconnu. (10 points)

#### **Section C (30 points)**

Rédaction (*Rédigez un paragraphe sur un sujet donné, rédigez un dialogue, présentez-vous, présentez quelqu'un*)

Traduction

Les questions basées sur la civilisation française tirée du manuel prescrit.



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Postgraduate Elective Course offered by the Department of French to  
M.A. / M.Sc. / M.Com. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BUSINESS FRENCH**

**CODE: 19FR/PE/BF23**

**CREDITS:3**

**LTP: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVE OF THE COURSE**

The course is open to students who wish to learn Business French. It is programmed for a simple and practical acquisition of communicative skills in French. The student is given the opportunity to practice the skills acquired, both oral and written.

**COURSE LEARNING OUTCOMES**

On successful completion of the semester, the student should be able to

- discover the workspace.
- get acquainted with each other.
- introduce oneself and others.
- approach someone for information.
- make an appointment with somebody.
- talk about a person, his profession, age, family, profession and ambition.
- analyse the visiting cards.
- steer a general conversation.
- have a simple telephone conversation

**Unité 1 (12 Hours)**

- 1.1 Découvrir le monde du travail
- 1.2 Prendre contact
- 1.3 Faire connaissance

**Unité 2 (12 Hours)**

- 2.1 Entrer en contact
- 2.2 Aborder une personne pour demander quelque chose ou pour parler
- 2.3 Fixer un rendez-vous
- 2.4 Parler d'une personne, sa profession, son âge, sa famille et son ambition

**Unité 3 (15 Hours)**

- 3.1 Diriger une conversation générale
- 3.2 Commander au restaurant

3.3 Exprimer son opinion et chercher des informations sur un endroit

3.4 Avoir une conversation téléphonique simple

### **BOOKS FOR STUDY**

MEHTA Ragini, *Collaboration*, New Delhi : GOYAL Publishers & Distributors Pvt. Ltd., 2014.

### **BOOKS FOR REFERENCE**

DUBOIS Anne-Lyse, TAUZIN Béatrice, *Objectif Express 1 Nouvelle Édition*, Paris : Hachette, 2013.

PENFORNIS Jean-Luc, *Communication Progressive du Français des Affaires*, Paris : CLE International, 2010.

### **WEB RESOURCES**

[www.franctparler.org](http://www.franctparler.org)

[www.francaisfacile.com](http://www.francaisfacile.com)

[www.lepointdufle.net](http://www.lepointdufle.net)

[www.ccdmd.qc.ca/fr/](http://www.ccdmd.qc.ca/fr/)

<http://www.bonjourdefrance.com/index/indexfranaff.htm#>

<http://www.ciel.fr/apprendre-francais/francais-affaires/examen-francais-affaires.htm>

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test :**      **Total marks:50**      **Duration: 90 minutes**

Section A (20 points)

Section B (15 points)

Section C (15 points)

**Other Components :**      **Total marks: 50**

Examen oral/Dictée/Document authentique/Présentation/Assignments/Test culturel (à l'oral ou à l'écrit)/Activités ludiques/Corriger les erreurs /Les exercices d'écoute

**End-Semester Examination :**      **Total marks: 100**      **Duration: 3 hours**

#### **Section A (40 points)**

Les exercices de la grammaire tirés du manuel prescrit.

#### **Section B (30 points)**

Les exercices du vocabulaire tirés du manuel prescrit. (20 points)

Compréhension écrite d'un texte inconnu (10 points)

#### **Section C (30 points)**

-Rédaction (rédigez un dialogue, présentez-vous, présentez quelqu'un, remplissez une fiche d'inscription, rédigez un texte d'après les informations d'un dialogue)

-Traduction

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.C.A. / B.S.W. DEGREE**

**FOUNDATION COURSE : HINDI**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
<b>SEMESTER-I</b>										
19HN/FC/SR13	Saral Hindi Vyakaran Evam Rachna	3	3	1	0	3	50	50	100	
<b>SEMESTER-II</b>										
19HN/FC/GA23	Hindi Gadya Evam Abhyas	3	3	1	0	3	50	50	100	
<b>SEMESTER-III</b>										
19HN/FC/AP33	Aadhunik Kavita Evam Patra Lekhan	3	3	1	0	3	50	50	100	
<b>SEMESTER-IV</b>										
19HN/FC/PA43	Prachin Kavita, Anuvaad Evam Patrakarita	3	3	1	0	3	50	50	100	
<b>GENERAL ELECTIVE COURSES</b>										
19HN/GE/HB22	Hindi for Beginners	2	2	0	0	-	50	-	100	
19HN/GE/SH22	Spoken Hindi	2	2	0	0	-	50	-	100	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – HINDI**

**SARAL HINDI VYAKARAN EVAM RACHNA**

**CODE:19HN/FC/SR13**

**CREDITS:3**

**LTP:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To develop the basic skills of Reading, writing and analyzing in Hindi.
- To inculcate the basic knowledge of applied grammar so as to develop the language skills in students.
- To introduce the teaching methodology based on the principle of progressing from known to unknown.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- acquire the basic knowledge of vowels, consonants and Mathras in Hindi.
- acquire the knowledge of basic grammar.

<b>Unit 1</b>	<b>(10Hours)</b>
1.1 Introduction to Etymology in Hindi.	
1.2 Mathras	
1.3 Greetings and introductory words used in everyday life.	
1.4 Noun, Gender, Number, Verb	
<b>Unit 2</b>	<b>(10 Hours)</b>
2.1 Synonyms	
2.2 Antonyms	
2.3 Homonyms	
2.4 One word substitution	
<b>Unit 3</b>	<b>(10 Hours)</b>
3.1 Prefix	
3.2 Suffix	
3.3 Colors, Vegetables, Flowers, Fruits	
<b>Unit 4</b>	<b>(12 Hours)</b>
4.1 Hindi Prose- An Introduction	
4.2 Hamare Badalte Gaon	

- 4.3 Kala ka Samman
- 4.4 Alfred ka Paschatap

## **Unit 5**

**(10 Hours)**

- 5.1 Idioms
- 5.2 Proverbs

### **TEXT BOOKS**

Saral Hindi Vyakaran Aur Rachna- Dr.Harivanch Tarun- Prakashan sansthan, NewDelhi.

Saral Hindi vyakaran Avam Gadya Parichay- Edited by -Dr.SrabaniBhattacharyya &Dr.A.Fathima –Aman Prakshan,Rambagh,Kanpur-208012.

### **BOOKS FOR REFERENCE**

Adhunik Hindi Gadya, Surya Prakashan (1985), Khelchand Anand.

Adhunik Hindi Kahani, National Publication, L.N.Laal(1994)

Adhunik Hindi sahioty ka Itihas, Shabd,Bauham singh,(1993)

Hindi Dhvaniya Aur Unka Ucharan,Shalabh,(1996),Bholanath Tiwari.

Hindi Grammar,Hindi prachar Sabha,C.R. Shastri,(1995).

Rajbhasha Hindi Vyakaran, Angar Prakashan, B. Laal (1999)

### **JOURNALS**

Vak-Trimonthly Magazine,Ed- Sadish PachauriNewDelhi

Pratimaan-Ed-Abhay Kumar Duby,NewDelhi

Mysore Hindi Prachar Prashad,Ed-Shri R.Chandrashekhar,Bangalore

### **WEBSITES**

[www.hindi classic kahaniyan.com](http://www.hindi classic kahaniyan.com)

[www.hindi viyakaran.com](http://www.hindi viyakaran.com)

[www.nahikahani.com](http://www.nahikahani.com)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

#### **SECTION A**

1X30=30 Objective type questions (applied grammar) All questions

#### **SECTION B**

1X5=5 One Question out of three ( Prose lessons)

1X5=5 Explain with reference to context (one out of three) (from Prose lessons)

**SECTION C**

1X10=10 Essay type question prose text (one out of two) Summary

**Other Components:**

**Total Marks: 50**

i) Research article - 25 Marks

ii) Presentation - 25Marks

**End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

**SECTION A**

1X40=40 Objective type questions from applied grammar

**SECTION B**

5X6=30 Answer any five Questions out of 8 (from Prose lessons)

3X5=15 Explain with reference to context (three out of five) (from Prose lessons)

**SECTION C**

1X15=15 Essay type question from prose text (one out of two) Summary

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – HINDI**

**HINDI GADYA EVAM ABHYAS**

**CODE:19HN/FC/GA23**

**CREDITS:3**

**LTP:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To introduce simple stories, one act plays and essays to the students so as to emphasize the importance of values in life and also to sensitize them about important social issues.
- To work out comprehension passages so as to improve their understanding and vocabulary skill.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- develop the ability to read and write in Hindi
- communicate well in Hindi.

<b>Unit 1</b>		<b>(20 Hours)</b>
1.1 Hindi Stories–An Introduction.		
1.2 The developmental trend of Hindi Story writers		
1.3 Modern Hindi story writers		
<b>Unit 2</b>		<b>(8 Hours)</b>
2.1. Types of stories –		
2.2. Social		
2.3. Psychological		
2.4. Idgah-Premchand		
2.5. Atha kinnar katha- Dr.Mahendra Pratap Singh		
<b>Unit 3</b>		<b>(10 Hours)</b>
3.1. Hindi one act plays-An introduction		
3.2. Hindi plays after Dr.Ramkumar verma		
3.3. Ped Lagao,ped lagao-Shri Prakash Manu		
3.4.Dehlez-Dr.Krishna shrivastav		
<b>Unit 4</b>		<b>(10 Hours)</b>
4.1. Comprehension passages in Hindi		
4.2. Practice Comprehension		

**Unit 5****(4 Hours)**

- 5.1 Hindi Essays –An Introduction
- 5.2 Bekari ki samasaya
- 5.3 Bharath mein nari ka sthan
- 5.4 Sahitaya Aur Samaj
- 5.5 Computer
- 5.6 Pradushan ki samasya

**TEXT BOOKS**

Saral Hindi vyakaran Avam Gadya Parichay- Edited by -Dr.SrabaniBhattacharyya & Dr.A.Fathima –Aman Prakshan,Rambagh,Kanpur-208012.

Proyojanmulak Hindi –Paribahashik shabd shabadansh- Dr.Madhu Dhawan,Vani prakashan, New Delhi.

**BOOKS FOR REFERENCE**

Adhunik Hindi sahitya ka Itihas,Shabd, Bauham singh,(1993)

Bacchon ke pandraha shrestha Ekanki,Aman prakashan,Prakash Manu

Dictionary of Hindi Verbs,Lokbharati,(1998),Helmut Nespita.

Hindi Grammar,Hindi prachar Sabha,C.R. Shastri,(1995).

(2016)

**JOURNALS**

Sahitya Kranti-International Hindi Journal, Ed-Sanjeev Kumar Sengar,NewDelhi2. Vak-  
Trimonthly Magazine,Ed- Satish Pachauri,NewDelhi  
Pratimaan-Ed-Abhay Kumar Duby,NewDelhi  
Mysore Hindi Prachar Prashad,ed-Shri R.Chandrashekhar,Bangalore

**WEBSITES**

[www.hindikahani](http://www.hindikahani) criticism books.com  
[www.hindi](http://www.hindi) classic kahaniyan.com  
[www.hindi](http://www.hindi) vyakaran.com  
[www.prayojanmulak.com](http://www.prayojanmulak.com)  
[www.ekkankicriticism](http://www.ekkankicriticism) books.com  
[www.vishnuprabhakar.com](http://www.vishnuprabhakar.com)  
[www.hindi](http://www.hindi) ekkanki.com

**PATTERN OF ASSESSMENT****Continuous Assessment:****Total Marks: 50****Duration : 90 minutes****SECTION A**



4X5=20 Answer any four questions out of six (from stories and one act play)

**SECTION B**

2X10=20 To work out answers from two comprehension passages

**SECTION C**

1X10=10 Essay type question from prose text (one out of two) from story, one act play and essay

**Other Components**

**Total Marks : 50**

i) Play Enactment - 30 Marks

ii) Essay writing - 20Marks

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 Hours**

**SECTION A**

5X6=30 Answer any five questions out of eight (from stories and one act plays)

**SECTION B**

2X15=30 To work out answers from two comprehension passages

**SECTION C**

1X20=20 One essay type Question from prose text (one out of two)

1X20=20 One essay writing on a given topic (one out of two)

**STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.S.W. DEGREE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – HINDI**

**AADHUNIK KAVITA EVAM PATRA LEKHAN**

**CODE:19HN/FC/AP33**

**CREDITS:3**

**LTP:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To give the overview of the recent trends in modern Hindi poetry
- To introduce students to official letters, business letters & personal letters.
- To introduce students to technical terminologies used in functional hindi

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- comprehend the meaning of poetry by themselves.
- take the entrance exams for Hindi posts in central Government offices.

**Unit 1 (7 Hours)**

- 1.1 Modern Hindi poetry-An introduction
- 1.2 Prominent poets after 1900
- 1.3 Poetry in khadi boli Hindi

**Unit 2 (10 Hours)**

- 2.1 Dhurendra Swaroop Bisaria Prabhanjan – An Introduction
  - 2.1.1. Hosh na Khona Jeevan Mein
- 2.2 Maithilisharan gupt – An Introduction
  - 2.2.1 Matribhumi
- 2.3 Harivansh Rai Bacchan- An Introduction
  - 2.3.1 Jo beet gayee so baat gayee
- 2.4 Makhan lal chaturvedi- An Introduction
  - 2.4.1 Pushpa ki Abhilasha

**Unit 3 (8 Hours)**

- 3.1 Hindi letter writing – An Introduction
- 3.2 Personal letters
  - 3.2.1.Letter to father/Mother
  - 3.2.2 Letter to a friend

**Unit 4** (15 Hours)

- 4.1 Introduction to business letter
  - 4.1.1. Letter to a book seller
  - 4.1.2. Complaint letter

**Unit 5** (12 Hours)

- 5.1 Technical words
- 5.2 Technical phrases

**TEXT BOOKS**

Kavita Avam Prayojan mulak Hindi – Edited by -Dr.SrabaniBhattacharyya &Dr.A.Fathima – Aman Prakshan,Rambagh,Kanpur-208012.

Abhinav Karyalay Aalekhan Aur Tippan-Dr.Vidyashree- Aman Prakshan,Rambagh,Kanpur-208012.

**BOOKS FOR REFERENCE**

Adhunik Yug ki Hindi Lekhjikayen,Vani,(1990), Sreemathi Umesh Mathur.

Hindi ke Manovaigyanik Upanyas Aur Nari,Vani,(1993), Ramvinod Singh.

Hindi mein Sarkari Kaamkaaj,Hindi Prachar sabha,(1995), Ramvinayak Singh.

Madyakaleen Avam Aadhunik Kavya Dhara- Edited by Dr.Srabani Bhattacharyya &Dr.A.Fathima-Aman Publication, Rambagh, Kanpur-208012.

**JOURNALS**

Hindi Sahitaya ka Subodh Itihaas-Babu Gulab Rai

Hindi Sahitaya ka Itihaas- Dr.Shiv kumar sharma

Aadhunik hindi Kavya Roop aur sanrachana,Nirmala Jain-1998

HindiKavya aur prayogvad,Ramkumar Kandelval 1990

Hindi Krishna Kavya,Sudha caturvedi,Sudha Publication -1997

Shri Milind-Ed.Dr.P.G.Ghanate-Hydrabad

Vasav Marg-Hindi Quarterly – Chief Editor –Dr.T.G.Prabhashakar Premi,Bangalore

Mimansa- Hindi Varshik Patrika- National centre for cell science ,Pune

Ispat Bhasha Bharati-Steel Authority of India Limited ,Delhi

**WEBSITES**

[www.hindisahatyitihhas.com](http://www.hindisahatyitihhas.com)

[www.hindisahitya.com](http://www.hindisahitya.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

### **SECTION A**

3X5=15 Answer any three questions out of five (from Hindi poetry)

Compulsary Question from functional Hindi

2X1=2 Technical words - Hindi to English

2X1=2 Technical words - English to Hindi

2X1=2 Technical phrases - Hindi to English

2X1=2 Technical phrases - English to Hindi

### **SECTION B**

2X6=12 Letter writing – two out of three (official, personal and business letter)

1X5=5 Explain with reference to context (one out of four) from poetry

### **SECTION C**

1X10=10 Essay type question from poetry (one out of two) Summary

**Other Components:**

**Total Marks : 50**

i) Presentation - 30 Marks

ii) Research article - 20 Marks

**End-Semester Examination:**

**Total Marks: 100**

**Duration : 3 hours**

### **SECTION A**

4X5=20 Answer any four questions out of six (from Hindi poetry)

Compulsary Question from functional Hindi

5X1=5 Technical words - Hindi to English

ii) 5X1=5 Technical words - English to Hindi

5X1=5 Technical phrases - Hindi to English

5X1=5 Technical phrases - English to Hindi

### **SECTION B**

2X10=20 Letter writing – two out of four (personal and business letter)

1X10=10 Explain with reference to context (one out of three) from poetry

### **SECTION C**

1X15=15 Essay type question from poetry (one out of two) Summary

1X15=15 Essay type question from poetry (one out of two) Summary

**STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086**

**B.A. / B.Sc. / B.S.W. DEGREE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – HINDI**

**PRACHIN KAVITA, ANUVAAD EVAM PATRAKARITA**

**CODE:19HN/FC/PA43**

**CREDITS:3**

**LTP:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To expose the students to the golden era of Hindi poetry i.e. Medieval era
- To train the students for print and electronic Media Journalism
- To introduce principles of Basic Translation to students, with an eye on job opportunities in the Translation cells of Govt. Of India.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- write news and Report on their own with heading and dateline.
- translate English to Hindi and Hindi to English proficiently.

<b>Unit 1</b>		<b>(7 Hours)</b>
1.1	Medieval poetry – An Introduction	
1.2	Kabir ke Dohe (1,2,3,4,5)	
1.3	Surdas ke Pad (1,2,3,4)	
<b>Unit 2</b>		<b>(10 Hours)</b>
2.1	Patrakarita – Arth, Paribhasha	
2.2	Patrakarita - Mahatav	
2.3	Patrakarita-Prakar	
<b>Unit 3</b>		<b>(15 Hours)</b>
3.1	Patrika Patrakarita	
3.2	Gramin Patrakarita	
3.3	Aarthik Patrakarita	
3.4	Khel Patrakarita	
3.5	Film Patrakarita	
<b>Unit 4</b>		<b>(8 Hours)</b>
4.1	Translation – Defination and Meaning	
4.2	Importance of Translation in everyday life	
4.3	Characteristics of a Good Translator	

**Unit 5****(12 Hours)**

5.1 Practical Translation Practise- Hindi to English

5.2 Practical Translation Practise- English to Hindi

**TEXT BOOKS**

Kavita Avam Prayojan mulak Hindi – Edited by Dr.Srabani Bhattacharyya & Dr.A.Fathima-Aman Publication, Rambagh, Kanpur-208012.

Anuvaad ke sidhandh Avam Prayog – Ek Parichay – Dr.Shrabani Bhattacharyya-Aman Publication, Rambagh, Kanpur-208012.

**BOOKS FOR REFERENCE**

Adhunik Yug ki Hindi Lekhjikayen,Vani,(1990), Sreemathi Umesh Mathur.

Hindi mein Sarkari Kaamkaaj,Hindi Prachar sabha,(1995), Ramvinayak Singh.

Anuvaad ka Anuproyog –Vyavaharik Basha-1 , Dakshin Bharat Hindi prachar sabha 2006

Prayogik Patrakarita- Dr.A.Fathima-Aman Publication, Rambagh, Kanpur-208012.

**JOURNALS**

Kafla International – An International Tri Annual Journal of Art, Literature & culture.  
Mona Enterprises Ed- Dev Bharadwaj

Shri Milind-Ed.Dr.P.G.Ghanate-Hydrabad

Vasav Marg-Hindi Quarterly – Chief Editor –Dr.T.G.Prabhashakar Premi,Bangalore

Mimansa- Hindi Varshik Patrika- National centre for cell science ,Pune

Ispat Bhasha Bharati-Steel Authority of India Limited ,Delhi

Pratimaan,Cheif Editor-Abhay Kumar Dubey,Vani Prakashan,New Delhi

Agradhara-Chief Editor-Ramesh Gupt Neerad ,Chennai

**WEBSITES**

[www.hindi](http://www.hindi.translation.com) translation.com

[www.anuvaad.com](http://www.anuvaad.com)

[www.patrakaritha.com](http://www.patrakaritha.com)

**PATTERN OF ASSESSMENT****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

**SECTION A**

4X5=20 Answer any four questions out of six (from Medieval Poetry, Translation and Journalism)

**SECTION B**

2X5=10 Explain with reference to context (two out of five) from one Medieval Poetry

**SECTION C**

1X10=10 Essay type question from Medieval Poetry, Translation and Journalism (one out of two) Summary

i) 1X 5 = 5 Translation passage – English to Hindi

ii) 1X5 = 5 Translation passage –Hindi to English

**Other Components:**

**Total Marks : 50**

i) Flim Review - 25 Marks

ii) Translation project - 25 Marks

**End-Semester Examination :**

**Total Marks: 100**

**Duration : 3 hours**

**SECTION A**

5X6=30 Answer any four questions out of eight (from Medieval Poetry, Translation and Journalism)

**SECTION B**

2X10=20 Explain with reference to context (two out of five) from one Medieval Poetry

**SECTION C**

2X15=30 Essay type question from Medieval Poetry ,Translation and Journalism (two out of three) Summary

i) 1X 10 = 10 Translation passage – English to Hindi

ii) 1X10 = 10 Translation passage –Hindi to English

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of Hindi for  
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HINDI FOR BEGINNERS**

**CODE:19HN/GE/HB22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To develop communication skills and writing skills in Hindi for the students belonging to non Hindi speaking areas.
- For job opportunities in Central Government Offices.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- read and write basic Hindi

<b>Unit 1</b>	<b>(5 Hours)</b>
Hindi Alphabets –an introduction – vowels & consonants	
<b>Unit 2</b>	<b>(5 Hours)</b>
Mathras ,. Names,Colors,Vegetables,Flowers,Fruits	
<b>Unit 3</b>	<b>(5 Hours)</b>
Relatives,Occupations,Parts of Body	
<b>Unit 4</b>	<b>(5 Hours)</b>
Part of speech,Gender,Number,Verb-action words	
<b>Unit 5</b>	<b>(6 Hours)</b>
Introduction to sentence Formation,Counting and Writing,Numbers	

**TEXT BOOKS**

Prathmik Hindi-Dr.A.Fathima ,Sudharshan Publication,Chennai

**BOOKS FOR REFERENCE**

Pankhuriyan (Part-I) Viva Publication- Dr.Madhu Dhawan

Pankhuriyan (Parveshika) Viva Publication- Dr.Madhu Dhawan



## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 45 minutes**

### **Section – A**

Write vowels / consonants / marthras in Hindi	5
Names of colours / vegetables / flowers / fruits / relatives / occupations / parts of body in English and Hindi	5

### **Section – B**

Give opposites of the following	2
Match the following	2
Write the correct word in Hindi from the jumbled Form	2
Find nouns / adjectives / verbs in the following Hindi sentences	4

### **Section – C**

Read the Hindi passage and answer the questions that follows	
Or	
Write a dialogue in Hindi	5

**Other Components :**

**Total Marks : 25**

Oral test- 25Marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course offered by the Department of Hindi for  
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SPOKEN HINDI**

**CODE:19HN/GE/SH22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To develop communication skills in Hindi for the students belonging to non Hindi speaking areas.
- For job opportunities

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- communicate well in Hindi

<b>Unit 1</b>	<b>(5 Hours)</b>
Hindi Alphabets –an introduction – vowels & consonants.	
<b>Unit 2</b>	<b>(5 Hours)</b>
Greetings and introductory words in everyday life.	
<b>Unit 3</b>	<b>(5 Hours)</b>
Names, Colors, Vegetables, Flowers, Fruits, Time	
<b>Unit 4</b>	<b>(6 Hours)</b>
Relations, Relatives, Occupations, Parts of Body	
<b>Unit 5</b>	<b>(5 Hours)</b>
Part of speech, Gender, Number, Verb-action words, Dialogue delivery	

**TEXT BOOKS**

Prathamik Hindi-Dr.A.Fathima Sudharshan Publication, Chennai

Spoken Hindi for beginners –Dr. Kamala Vishwanathan, viva publications.

## **BOOKS FOR REFERENCE**

Pankhuriyan (Part-I) Viva Publication- Dr.Madhu Dhawan

Pankhuriyan (Parveshika) Vina Publication- Dr.Madhu Dhawan

Jain Puja,Pandhuriyan C.D , Viva Publication

## **PATTERN OF ASSESSMENT (Totally Internal)**

**Maximum Marks:50**

The Evaluation is divided into two parts

- i) Role Play in Hindi - 25Marks
- ii) Oral test Component - 25Marks

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF HISTORY**

**PROGRAMME DESCRIPTION**

The programme offers a range of courses that provide an overview of Indian History, World History as well as interdisciplinary courses on Tourism and Hospitality. The programme also has courses such as Indian Constitution, Historical Perspectives on Women's Studies, Human Rights, Performing Arts, Art and Architecture, Aspects of Indian Cinema, Entrepreneurship in Tourism, Tourism and Cuisines and Airport Customer Service. Students graduating from the programme move on to careers as teachers, lawyers, researchers, bankers, civil servants, travel and tourism professionals, managers and entrepreneurs.

The programme offers value added , skill oriented and extra credit optional certificate courses such as Tour Leaders and Travel Consultancy, Introduction to Archaeology, Airport Management, Event Management, Foreign language courses on Spanish, German and Mandarin and coaching for the UPSC examination.

The students are provided an opportunity to take up internships during their course of study. The Department has its own Heritage Club to instil in students the need to appreciate and preserve India's tangible and intangible heritage.

Regular field trips and study tours are organised to provide students an experiential learning of India's tourism resources. The Department publishes its annual publication called "Parivartana" which provides the students with a forum to express their ideas and creativity.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of this programme, students will be able to

- Describe the facts of history
- Discuss aspects of social, cultural and political evolution of mankind
- Analyse the present in the light of the past
- Collect, organise and interpret historical data
- Objectively and Form independent judgments about historical material
- Explain facets of Tourism
- Express an appreciation for Indian heritage and culture
- Become an entrepreneur in the tourism and hospitality industry.
- Take up entrepreneurship in the Tourism Industry
- Demonstrate knowledge and skills necessary to be successful managers in the tourism business

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. DEGREE : BRANCH I A - HISTORY AND TOURISM**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER I</b>									
19HS/MC/AI14	Ancient India upto CE 700	4	4	1	0	3	50	50	100
19HS/MC/IT13	Introduction to Tourism	3	3	1	0	3	50	50	100
19HS/AC/TN15	History of Tamil Nadu upto 19th Century	5	5	0	0	3	50	50	100
19HS/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
19HS/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
CD/ET/SC	Value Education	2	2	0	0	-	50	-	100
<b>SEMESTER II</b>									
19HS/MC/MI24	Medieval India (CE 712-1707)	4	4	1	0	3	50	50	100
19HS/MC/GT24	Geography for Tourism	4	4	1	0	3	50	50	100
19HS/AC/CI25	Pre-Colonial India upto 1858	5	5	0	0	3	50	50	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
<b>SEMESTER III</b>									
19HS/MC/IM34	Indian National Movement	4	4	1	0	3	50	50	100
19HS/MC/HR33	Human Rights	3	3	1	0	3	50	50	100
19HS/AC/CH35	Social and Cultural Heritage of Chennai City	5	5	0	0	3	50	50	100
19HS/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD/ET/SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
<b>SEMESTER IV</b>									
19HS/MC/CO44	Contemporary India	4	4	1	0	3	50	50	100
19HS/MC/HE44	History of Europe (1789-1871)	4	4	1	0	3	50	50	100
19HS/AC/HU45	History of USA upto Cold War	5	5	0	0	3	50	50	100
	Major Elective-I								
<b>SEMESTER V</b>									
19HS/MC/EU54	History of Europe (1871-1945)	4	4	1	0	3	50	50	100
19HS/MC/WC54	History of World Civilisations	4	4	1	0	3	50	50	100
19HS/MC/IL54	Intellectual History	4	4	1	0	3	50	50	100
19HS/MC/WS53	Women's Studies	3	3	1	0	3	50	50	100
<b>Interdisciplinary Core Course (HS and CM) to students of History and Commerce (Shift I)</b>									
19ID/IC/TM55	Tourism Marketing and Management	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. DEGREE : BRANCH I A - HISTORY AND TOURISM**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER VI</b>									
19HS/MC/IR64	International Relations Since 1945	4	4	1	0	3	50	50	100
19HS/MC/IC64	Indian Constitution	4	4	1	0	3	50	50	100
19HS/MC/AT64	Art and Architecture in India	4	4	1	0	3	50	50	100
19HS/MC/AC63	Aspects of Indian Cinema	3	3	1	0	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective-II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19HS/ME/IH45	Indian Heritage and Tourism	5	5	0	0	3	50	50	100
19HS/ME/TC45	Tourism and Cuisines	5	5	0	0	3	50	50	100
19HS/ME/AS45	Airport Customer Services	5	5	0	0	3	50	50	100
19HS/ME/ET45	Entrepreneurship in Tourism Industry	5	5	0	0	3	50	50	100
19HS/ME/PR45	Project	5	0	0	5	-	-	50	100
<b>General Elective Courses</b>									
19HS/GE/HC22	History of Chennai City	2	2	0	0	-	50	-	100
19HS/GE/IP22	Introduction to Indian Performing Arts and Painting	2	2	0	0	-	50	-	100
19HS/GE/AC22	Appreciation of Indian Cinema	2	2	0	0	-	50	-	100
19HS/GE/FI22	Fundamentals of the Indian Constitution	2	2	0	0	-	50	-	100
19HS/GE/IA22	International Affairs Since 1945	2	2	0	0	-	50	-	100
<b>Independent Elective Courses</b>									
19HS/UI/SA23	History of South East Asia since 1945	3	0	0	0	3	-	100	100
19HS/UI/CJ23	China and Japan in the 20th Century	3	0	0	0	3	-	100	100



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ANCIENT INDIA UPTO CE 700**

**CODE:19HS/MC/AI14**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand India's cultural and historical legacy.
- To instill in students a sense of pride in Indian history and heritage.
- To help students learn about the important kingdoms of ancient India

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- list out individuals and places associated with the history of India.
- discuss aspects of Indian society and culture.
- demonstrate an understanding of the evolution of ancient Indian history.
- collect, collate and analyse facts on the subject
- conduct research on topics connected with ancient Indian history

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Physical Features of India
- 1.2 Effects of Geography on Indian History
- 1.3 Sources – Indigenous and Foreign

**Unit 2**

**Mauryan India – Salient Features**

**(15 Hours)**

- 2.1 Harappan Civilization
- 2.2 Vedic Age - Rise of Jainism and Buddhism
- 2.3 Rise of Magadha, Nanda Empire - Satavahanas

**Unit 3**

**Imperial Age of the Mauryas**

**(15 Hours)**

- 3.1 Rise of the Mauryan Empire
- 3.2 Administration and Cultural Contributions
- 3.3 Kushans and their Cultural Contributions

**Unit 4**

**Age of Guptas**

**(15 Hours)**

- 4.1 Gupta Administration
- 4.2 Revival of Hinduism, Language and Literature
- 4.3 Socio-Economic and Cultural Contributions

## Unit 5

### Last Empire of Ancient India

(10 Hours)

5.1 Rise of the Pushyabhuti dynasty

5.2 Administrative and Cultural Contributions

5.3 India after Harsha

### BOOKS FOR STUDY

Paddayya, K., Basak, Bishnupriya. *Prehistoric Research in the Indian Subcontinent: A Reappraisal and New Directions*. New Delhi: Primus Books, 2018.

Sharma, R.S. *India's Ancient Past*. New Delhi: Oxford University Press, 2018.

### BOOKS FOR REFERENCE

Basham, A.L. *A Cultural History of India*. New Delhi: Oxford University Press, 2006.

Goyal, S. *Contemporary Interpretation of Ancient India*. New Delhi: Book Enclave, 2003.

Jha, D.N. *Ancient India*. New Delhi: Manohar, 2004.

Majumdar, R. C. *Ancient India*. New Delhi: Motilal Banarsidass, 2017.

Singh, U. *A History of Ancient and Early Medieval India*. New Delhi: Pearsons, 2009.

### JOURNALS

Indian Historical Review, ICHR, New Delhi.

Journal of History and Social Sciences, New Delhi.

Quarterly Review of Historical Studies, Institute of Historical Studies, Kolkata.

### WEB RESOURCES

[www.culturalindia.net](http://www.culturalindia.net)

[www.britannica.com/EBchecked/topic/285516/history-of-India](http://www.britannica.com/EBchecked/topic/285516/history-of-India)

### PATTERN OF ASSESSMENT

#### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

#### Other Components:

**Total Marks: 50**

Seminars – Presentation - Group discussion - Objective test

#### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO TOURISM**

**CODE:19HS/MC/IT13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To help students understand the significance of tourism
- To enable students to appreciate the need for tourism promotion
- To enable students to learn about the diversified resources of India

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- list out places associated with the history of India.
- discuss aspects of Indian culture and heritage
- collect, collate and analyse facts on the subject
- understand the dimensions of the Tourism industry
- prepare tourism brochures and itinerary

**Unit 1**

**Introduction to Tourism**

**(10 Hours)**

- 1.1 Definitions – Tourism, Tourist/Traveller
- 1.2 Basic Components of Tourism, Elements of Tourism
- 1.3 Types of Tourism – Business tourism, Mass Tourism, Cultural Tourism and Heritage, Environmental Tourism, Medical tourism

**Unit 2**

**Significance of Tourism**

**(10 Hours)**

- 2.1 Cultural Tourism in India – Heritage Sites in India – World UNESCO Sites
- 2.2 Types of Cultural Tourism - Travel Circuits : Golden Triangle, Desert Circuit, Buddhist Circuits, Backwaters, Sun and Sand - Indian Railways and Special Trains
- 2.3 Tourism Sustainability – Basic Strategies – Environment Impact Assessment (EIA) – Geographic Information System (GIS) and its Application in Tourism

**Unit 3**

**Eco-Tourism and Related Issues**

**(12 Hours)**

- 3.1 Definition of Eco-Tourism
- 3.2 Protected Areas and Sustainable Tourism
- 3.3 Wildlife Tourism, Agro-Tourism, Rural Tourism, Wildlife Conservation, Desert Safaris

**Unit 4**  
**Tourism and Contemporary Issues** (10 Hours)  
4.1 Role of Information Technology in Tourism Development  
4.2 Future Trends in Tourism  
4.3 Human Rights and Tourism

**Unit 5**  
**Tourism Administration** (10 Hours)  
5.1 Tourism Administration in India – Ministry of Tourism (Government of India) – National Tourist Organisation (NTO) – World Tourism Day  
5.2 ITDC – TTDC  
5.3 Incredible India - Brand Ambassadors of Tourism Promotion

### BOOKS FOR STUDY

Camilleri, Mark Anthony. *Travel Marketing, Tourism Economics and the Airline Product: An Introduction to Theory and Practice*. Switzerland: Springer Publications, 2018.  
Vasudevan, Venu., Vijayakumar, B., Saroop Roy, B.R. *An Introduction to the Business of Tourism*. New Delhi: Sage Publications, 2017.

### BOOKS FOR REFERENCE

A.M.A, Barkat. *Travel and Tourism Management*. New Delhi: Prentice Hall India Learning, 2015.  
J. Page, Stephen. *Tourism Management*. New York: Routledge, 2015.  
Kumar, Chiranjib., Choudhary, Aditi. *Introduction to Tourism & Hospitality*. CreateSpace Independent Publishing Platform, 2017.  
Sharma, Kshitiz. *Introduction to Tourism Management*. New Delhi: McGraw Hill Education, 2017.  
Walker, John R. *Introduction to Hospitality*, London: Pearson, 2017.

### JOURNALS

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly)  
ASEAN Journal on Hospitality and Tourism (Ed. Arief Rosyidie) (Tourism Research and Development Centre) Indonesia, 2004.

### WEB RESOURCES

[www.worldleisure.org](http://www.worldleisure.org)

### PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A - 5 x 3 = 15 ( Any 5 out of 7 in 30 words each)		
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)		
Section C - 1 x 10 = 10 ( Any 1 out of 2 in 800 words each)		
<b>Other Components:</b>	<b>Total Marks: 50</b>	
Assignments / Seminars		
<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A - 10 x 3= 30 (All questions to be answered in 30 words each)		
Section B - 5 x 8= 40 (5 out of 8 questions to be answered in 300 words each)		
Section C - 3 x 10= 30 (3 questions to be answered in 1000 words each in either or pattern		
Eg. 19(a) or (b)		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HISTORY OF TAMIL NADU UPTO 19<sup>th</sup> CENTURY**

**CODE:19HS/AC/TN15**

**CREDITS: 5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the historical evolution of the Tamil country
- To help students appreciate the rich socio-cultural history of Tamil Nadu and its interactions with neighbouring kingdoms
- To help students understand the sources on which historical writing is based.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- describe orally and in writing their understanding of the history of Tamil Nadu
- analyse the significant influences in the history of Tamil Nadu
- analyse from a historical point of view issues in contemporary Tamil Nadu
- demonstrate, through projects and tests, an appreciation of the art and architecture of Tamil Nadu
- identify people, places, events and monuments significant in the history of Tamilnadu

**Unit 1**

**Introduction, Prehistory and the Sangam Age**

**(10 Hours)**

1.1 Geography of Ancient Tamilaham

1.2 Sources for the Study

1.3 The Sangam Age: Social, Economic, and Cultural Conditions

**Unit 2**

**Early Kingdoms of Tamil Nadu**

**(15 Hours)**

2.1 Pallavas - Mahendravarman I, Narasimhavarman Mamalla

2.2 Cholas - Rajaraja I, Rajendra I, Kulottunga I

2.3 Pandyas - Maravarman Sundara Pandya I, Jatavarman Sundara Pandya I

**Unit 3**

**Later Kingdoms of Tamil Nadu**

**(15 Hours)**

3.1 Vijayanagar - Harihara, Bukka, Krishnadevaraya

3.2 The Age of the Nayaks: Madurai Thanjavur and Gingi

3.3 Cultural Contribution of Nayaks

**Unit 4**  
**Cultural Contributions** (15 Hours)  
 4.1 Buddhism and Jainism  
 4.2 Bhakthi Movement  
 4.3 Saivism and Vaishnavism

**Unit 5**  
**Freedom Struggle in Tamil Nadu** (10 Hours)  
 5.1 The Poligar Wars  
 5.2 Vellore Mutiny  
 5.3 Early Political Associations and the Congress in Tamil Nadu

**\*\* Field Trip – Mahabalipuram – Vellore Fort - Kancheepuram**

### BOOKS FOR STUDY

Gandhi, Rajmohan. *Modern South India*. New Delhi: Aleph, 2018.  
 Karashima, Noboru. *A Consise History of South India*. New Delhi: Oxford University Press, 2014.  
 Sastri, K.A.N. *History of South India*. Bombay: Oxford University Press, 2002.

### BOOKS FOR REFERENCE

C. Minakshi. *Administration and Social Life under the Pallavas*. Madras : University of Madras, 1938.  
 Narayanan, M.G.S. *Foundations of South India Society and Culture*, New Delhi, Bharatiya, 2000.  
 Sastri, K.A.N. *The Colas*. Madras: University of Madras, 1984.  
 Shastri, K.S. Ramaswamy. *The Tamils: The People, Their History and Culture* (in five volumes). New Delhi: Cosmo Publications, 2002.  
 Sundararajan, Saroja. *Madras Presidency in the Pre-Gandhian Era*. Pondicherry: Lalitha Publications, 1997.

### JOURNALS

Journal of the Royal Asiatic Society of Great Britain  
 Journal of Indian History and Culture - CPR Foundation

### WEB RESOURCES

[www.indianheritage.org](http://www.indianheritage.org)  
[www.internetarchive.org](http://www.internetarchive.org)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A - 5 x 3 = 15 ( Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Other Components:** **Total Marks: 50**

Group Assignments – Presentations - Objective Tests

**End-Semester Examinations** **Total Marks:100** **Duration: 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 word each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern  
 e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19HS/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- articulate the interdisciplinary context of environmental issues
- adopt sustainable alternatives that integrate science, humanities and social perspectives
- appreciate the importance of biodiversity and a balanced ecosystem
- calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)

[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19HS/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MEDIEVAL INDIA (CE712-1707)**

**CODE:19HS/MC/MI24**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the foundation of the Islamic and Mughal Rule in India
- To help students study the administrative and economic experiments of the age
- To become aware of the impact of Medieval India on society and culture

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- list out individuals and places associated with the history of Medieval India.
- discuss aspects of Medieval Indian society and culture.
- understand the evolution of Medieval Indian history.
- analyse facts on the subject
- conduct research on topics related to medieval india

**Unit 1**

**Foundation of Islamic Rule**

**(15 Hours)**

1.1 Sources

1.2 Arab Conquest of Sind

1.3 Political Sketch of Delhi Sultanate – Slave, Khilji, Tughlaq, Sayyid and Lodi Dynasties

**Unit 2**

**Religious Movements and their impact**

**(10 Hours)**

2.1 Sufism

2.2 Bhakthi Movements

2.3 Disintegration of the Sultanate

**Unit 3**

**Rise of the Mughal Rule**

**(15 Hours)**

3.1 Political Sketch of the Early Mughals - Babur, Humayun, Akbar, Jehangir, Shah Jahan, Aurangzeb

3.2 Afghan Interregnum

3.3 Administrative System of the Mughals

**Unit 4**  
**Disintegration of the Mughal Empire** (15 Hours)  
4.1 Foreign policy of the Mughals  
4.2 Sikhism  
4.3 Causes for the Downfall of the Mughals

**Unit 5**  
**Society and Culture** (10 Hours)  
5.1 Architecture and Planning  
5.2 Music and Literature  
5.3 Social Conditions – Status of Women

### BOOKS FOR STUDY

Dahiya, Poonam Dalal. *Ancient and Medieval India*. Kolkatta: McGraw Hill Education, 2017  
Khurana, K.L. *Medieval India (1000-1761 A.D.)*. Agra: LNA Educational, 2017.

### BOOKS FOR REFERENCE

Chandra, S. *A History of Medieval India*. New Delhi: (Vol 1&2), Orient Longman, 2008.  
Chandra, S. *Essays on Medieval Indian History*. Oxford University, 2003.  
Farooqui, Salma. *A Comprehensive History of Medieval India from Twelfth to the Mid Eighteenth Century*. Pearson Education India, 2011.  
Mehta, J. L. *An Advanced Study in the History of Medieval India Vol I & II*. New Delhi: Sterling, 2002.  
Salma Ahmed Farooqi. *A Comprehensive History of Medieval India: Twelfth to the Mid-Eighteenth Century*. Pearson Education, 2011.

### JOURNALS

Indian Historical Review, ICHR, New Delhi.  
Journal of History and Social Sciences, ed. Pushpa Tiwari, 2014.  
Quarterly Review of Historical Studies - Institute of Historical Studies, Kolkata.  
Medieval History Journal, Sage Publications, New Delhi, 1999.

### WEB RESOURCES

[www.indiaheritage.org](http://www.indiaheritage.org)  
[www.academia.edu](http://www.academia.edu)

### PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)		
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)		
Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Group Assignments – Presentations - Objective Tests	

<b>End-Semester Examinations:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A - 10 x 3 = 30 (All questions to be answered in 30 word each)		
Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)		
Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GEOGRAPHY FOR TOURISM**

**CODE:19HS/MC/GT24**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students understand map reading.
- To help them identify significant Tourist locations of India and the world.
- To acquaint students with tourism geography

**COURSE LEARNING OUTCOMES**

On successful completion of the course, student will be able to

- list out places on the Indian map
- list out places on the world map
- discuss theories and themes of Tourism Geography
- calculate World Time Difference
- demonstrate an understanding of city and airline codes

**Unit 1**

**Introduction to Geography**

**(15 Hours)**

- 1.1 Definition, scope and contents of geography of tourism
- 1.2 Major Land forms- Mountains, Plains, Plateaus and Valleys in the world
- 1.3 Climatic Conditions – Geology – Mineral Resources

**Unit 2**

**Understanding the world map**

**(15 Hours)**

- 2.1 Cartography – Meaning – Definition – Origin
- 2.2 Major Latitudes and longitudes
- 2.3 Continents and countries

**Unit 3**

**Map Reading**

**(13 Hours)**

- 3.1 Types of Maps
- 3.2 Use of conventional signs and symbols
- 3.3 Location of Important physiographic features on the map of India.

**Unit 4**

**Tourism Geography**

**(12 Hours)**

- 4.1 Location of important tourist cities, national parks, wildlife sanctuaries
- 4.2 Cultural, historical and religious tourist spots in India
- 4.3 City codes of major cities of India - Important world airline code

## Unit 5

### Time Zones

(10 Hours)

5.1 Day Light Saving time – Anti Podesian Day - GMT

5.2 GPS – GIS – Calculation of World Time Zones

5.3 Modern Technology in Map Making

### BOOKS FOR STUDY

Cooper P. Christopher, *Geography of Travel and Tourism*, London: Butterworth-Heinemann, 2012

Velvet Nelson, *An Introduction to the Geography of Tourism*, London, 2017

### BOOKS FOR REFERENCE

Crowther.G *India -A Travel Survival Kit* .Lonely Planet Publication

Dixit, M. *Tourism Geography and Trends*, Royal Publication

Geetanjali. *Tourism Geography*. Centrum Press, New Delhi.

Hall, C.M and Page, S.J. *The Geography of Tourism and Recreation*. Routledge Publishers.

Hussain.M. *The Geography of India*. Mc Graw-Hill Publishers

Singh.S.*Tourism Geography*. Random Publications, New Delhi.

William.S.*Tourism Geography: A New Synthesis*. Routledge Publishers

### WEB RESOURCES

[www.indiaheritage.org](http://www.indiaheritage.org)

[www.academia.edu](http://www.academia.edu)

### PATTERN OF ASSESSMENT

#### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

#### Other Components:

**Total Marks: 50**

Seminars/Presentation/Group discussion/Objective test

#### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRE-COLONIAL INDIA UPTO 1858**

**CODE:19HS/AC/CI25**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the circumstances leading to the establishment of the East India Company's rule in India.
- To familiarize students with various European settlements in India.
- To help students comprehend the policies and strategies of the Company that enabled its ascendancy and understand factors that aided its colonization

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- describe events leading to the advent of the Europeans.
- demonstrate an understanding of the Company's rule in India.
- collect, collate and analyse facts that led to India's colonisation
- explain the impact of colonial rule on India.
- Conduct research on topics connected to the pre-colonial period in India

<b>Unit 1</b>	<b>Introduction</b>	<b>(10 Hours)</b>
	1.1 Advent of the Europeans	
	1.2 European Settlements	
	1.3 Anglo-French Wars	
<b>Unit 2</b>	<b>Conquest and Consolidation of the Company's Rule in India</b>	<b>(15 Hours)</b>
	2.1 Subsidiary Alliance	
	2.2 Policies of Hastings and Policies of Dalhousie	
	2.3 Anglo-Sikh Wars	
<b>Unit 3</b>	<b>Constitutional Development under the Company</b>	<b>(10 Hours)</b>
	3.1 Regulating Act	
	3.2 Pitt's India Act	
	3.3 The Charter Acts of 1813, 1833 and 1853	
<b>Unit 4</b>	<b>East India Company's Policies in India</b>	<b>(15 Hours)</b>
	4.1 Revenue Policy (Zamindari, Permanent Settlement, Mahalwari, Ryotwari Systems)	

- 4.2 Educational Policy (Macaulay's Filtration Theory, Wood's Despatch)
- 4.3 Agricultural and Industrial Policy

## **Unit 5**

### **Revolt of 1857**

**(15 Hours)**

- 5.1 Causes
- 5.2 Nature and Course
- 5.3 Impact - Queen's Proclamation 1858

### **\*\* Field Visit – Sadras - Pondicherry**

### **BOOKS FOR STUDY**

Barrow, Ian J. *The East India Company, 1600–1858: A Short History with Documents*. Indianapolis: Hackett Publishing Company, 2017.

Kulke, Hermann. *History of Precolonial India*. New Delhi: Oxford University Press, 2018.

### **BOOKS FOR REFERENCE**

Bandhopadhyaya, S. *Plassey to Partition*. New Delhi: Orient Blackswan Publication, 2001.

Grover, B.L., and S. Grover. *A New Look on Modern Indian History: From 1707 to the Present Day*. New Delhi: S. Chand, New Edition 2012.

Keay, John. *The Honourable Company: History of the English East India Company*. New York: HarperCollins, 2010.

Peers, Douglas M. *India under Colonial Rule: 1700-1885*, New York: Routledge publishers, 2013.

Tharoor, Shashi. *An Era of Darkness: The British Empire in India*. New Delhi: Aleph Book Company, 2016.

### **JOURNALS**

The Journal of Peasant Studies, 1980 - Taylor & Francis

Comparative Studies in Society and History, (ed.) Andrew Shryock, Society for the Comparative Study of Society and History, (Quarterly)

### **WEB RESOURCES**

[www.britannica.com/EBchecked/topic/285516/history-of-India](http://www.britannica.com/EBchecked/topic/285516/history-of-India)

[www.victorianweb.org](http://www.victorianweb.org)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Other Components:**

**Total Marks: 50**

Seminars/Presentation - Group discussion - Objective test

**End-Semester Examination:**

**Total Marks: 100**

**Duration 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern Eg. 19(a) or (b))



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDIAN NATIONAL MOVEMENT**

**CODE:19HS/MC/IM34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To teach students about the nation's struggle for freedom and the trials faced by the freedom fighters
- To enable them to understand the circumstances leading to constitutional changes, partition and the establishment of free India.
- To enable them to appreciate the value of diversity in India.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate their knowledge of major personalities, events, and the turning points in modern Indian history.
- analyse the causes of major events in this period.
- analyse from a historical point of view certain issues in contemporary India.
- demonstrate, orally or in written work, an appreciation of the diversity of the Indian experience.
- identify people, places and monuments connected with India's freedom struggle

**Unit 1**

**Background to Indian Nationalism**

**(15 Hours)**

- 1.1 Aftermath of the 1857 Revolt
- 1.2 Reform and Revival Movements
- 1.3 Causes for the Rise of Nationalism

**Unit 2**

**Rise and Growth of the Indian National Movement**

**(15 Hours)**

- 2.1 Foundation of the Indian National Congress
- 2.2 Policies and Programmes – Early Nationalists and Militant Nationalists,
- 2.3 Revolutionaries - The Left Wing - Socialists and Communists

**Unit 3**

**Gandhian Era**

**(15 Hours)**

- 3.1 The First World War and the National Movement, the Home Rule Movement
- 3.2 Non-Co-operation Movement - Civil Disobedience Movement
- 3.3 The Second World War and the Quit India Movement

**Unit 4**  
**Constitutional Development** (10 Hours)

- 4.1 Acts of 1858 and 1861 - Indian Councils Acts: 1892 and 1909
- 4.2 The Government of India Act 1919 and Dyarchy
- 4.3 The Government of India Act 1935 and Provincial Autonomy

**Unit 5**  
**The Partition of India** (10 Hours)

- 5.1 Causes for the rise of communalism - Hindu and Muslim communal organizations
- 5.2 Negotiations for Independence and Partition: C.R. Plan, Wavell Plan, Cabinet Mission Plans and Mountbatten Plan
- 5.3 Events leading to Partition

**BOOKS FOR STUDY**

Dube, I.B. *A History of Modern India*. New Delhi: Cambridge University, 2014.  
Sarkar, S. *Modern India 1885-1947*. New Delhi: Macmillan, 2001 (Reprint Edition).

**BOOKS FOR REFERENCE**

Bandhopadhyay, S. *From Plassey to Partition*. New Delhi: Orient Blackswan, 2004.  
Grover, B.L., and S. Grover. *A New Look on Modern Indian History (from 1707 to the Present Day)*. New Delhi: S. Chand, 1998.  
Guha, R. *Makers of Modern India*. New Delhi: Penguin, 2010.  
Munshi, K.M. et. al. *History and Culture of the Indian People* (Vols X and XI). Fourth Edition. Bombay: Bharatiya Vidya Bhavan, 2007.  
Shastri, K.S.R. *The Tamils: The People, Their History and Culture (Vol II)*. New Delhi: Cosmo, 2002.

**JOURNALS**

The Indian Economic and Social History Review (Sage Publications)  
Journal of Indian History and Culture (CPR Foundation)

**WEB RESOURCES**

<http://www.colorado.edu/history/chester/ModIndPrimary.htm>  
<http://www.gandhiserve.org/e/cwmg/cwmg.htm>

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A - $5 \times 3 = 15$ (Any 5 out of 7 in 30 words each)		
Section B - $5 \times 5 = 25$ (Any 5 out of 7 in 250 words each)		
Section C - $1 \times 10 = 10$ (Any 1 out of 2 in 800 words)		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Seminars - Quiz -Assignments	

<b>End-Semester Examination:</b>	<b>Total marks: 100</b>	<b>Duration: 3 hours</b>
Section - $10 \times 3 = 30$ (All questions to be answered in 30 words each)		
Section B - $5 \times 8 = 40$ (5 out of 8 questions to be answered in 300 words each)		
Section C - $3 \times 10 = 30$ (3 questions to be answered in 1000 words each in either or pattern, e.g. 19 (a) or (b))		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE BRANCH – IA - (HISTORY AND TOURISM)**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**HUMAN RIGHTS**

**CODE:19HS/MC/HR33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To help students understand the significance and relevance of the struggle for human rights
- To help them know the mechanisms available for claiming human rights
- To imbibe the knowledge of human rights and its implications

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- understand the evolution of Human rights.
- analyse the objectives of the UNO and its agencies
- be aware of the violations
- be aware of the rights of various sections of the society
- be able measure the restoration of human rights

**Unit 1**

**Human Rights - A Historical Perspective**

**(10 Hours)**

- 1.1 Historical Development till 1948
- 1.2 Universal Declaration of Human Rights
- 1.3 International Covenant on Civil and Political Rights - International Covenant on Economic, Social and Cultural Rights - Optional Protocols I and II

**Unit 2**

**The United Nations Human Rights System**

**(12 Hours)**

- 2.1 UNHCHR - Commission for Human Rights and the Human Rights Council
- 2.2 Treaty Bodies - ILO and UNHCR
- 2.3 The Security Council and Humanitarian Intervention and the Responsibility to Protect

**Unit 3**

**Violation and Measure of Restoration of Human Rights**

**(10 Hours)**

- 3.1 Anti-Semitism - Racism - Apartheid
- 3.2 Human Rights Violations in India
- 3.3 Civil Rights Movement in the USA

**Unit 4**  
**Human Rights Law (10 Hours)**  
4.1 Rights of Women (CEDAW), Children and Juveniles (CRC), and the Disabled  
4.2 Rights of Workers and Minorities  
4.3 Human Rights and Criminal Justice administration - Right of Prisoners – LGBT Rights

**Unit 5**  
**Human Rights Mechanisms (10 Hours)**  
5.1 National Human Rights Institutions: NHRC and SHRCs  
5.2 Human Rights and NGOs – Amnesty International, International Committee of the Red Cross, Human Rights Watch, Asia Watch  
5.3 The Media and Human Rights

### BOOKS FOR STUDY

Subramaniam, S. *Human Rights International Challenges (2 Volumes)*. New Delhi: Manas, 1997.

Chandra, V. *Human Rights*. Allahabad : Allahabad Law Agency, 1999.

### BOOKS FOR REFERENCE

Sen, A. *The Idea of Justice*. London: Allen Lane, 2009.

Nirmal, C.J. (Ed.). *Human Rights in India*. New Delhi: Oxford University, 2000.

Alston, P. and Goodman, R. *International Human Rights*. Oxford: Oxford University, 2013.

Carson, C. (Ed.). *The Autobiography of Martin Luther King*. New York: Grand Central, 2001.

Mandela, N. *Long Walk to Freedom*. Boston: Little Brown, 1995.

### JOURNALS

Journal of National Human Rights Commission (National Human Rights Commission of India)

### WEB RESOURCES

<http://www.ohchr.org/>

[Nhrc.nic.in](http://Nhrc.nic.in)

[Amnesty.org](http://Amnesty.org)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A -  $5 \times 3 = 15$  (Any 5 out of 7 questions in 30 words each)

Section B -  $5 \times 5 = 25$  (Any 5 out of 7 questions in 250 words each)

Section C -  $1 \times 10 = 10$  (Any 1 out of 2 questions in 800 words)

**Other Components: Total Marks: 50**

Seminars / Debates, Quiz & Assignments

**End-Semester Examination: Total marks: 100 Duration: 3 hours**

Section A -  $10 \times 3 = 30$  (All questions to be answered in 30 words each)

Section B -  $5 \times 8 = 40$  (5 out of 8 questions to be answered in 300 words each)

Section C -  $3 \times 10 = 30$  (3 questions to be answered in 1000 words each in either or pattern, e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI -600086**

**B.A. DEGREE BRANCH – 1A – HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**SOCIAL AND CULTURAL HERITAGE OF CHENNAI CITY**

**CODE :19HS/AC/CH35**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the rich heritage of Chennai city
- To help the students to appreciate the rich socio-cultural history of Chennai city since 1639
- To learn the evolution of the city of Chennai into a metropolitan city

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- understand the rich history of the city
- analyse the growth of Chennai city over the ages
- preserve the heritage of historical buildings
- demonstrate an interest in environmental history of Chennai.
- appreciate the historicity of the religious structure

**Unit 1**

**A Search for Roots**

**(10 Hours)**

- 1.1 Antiquity of the name 'Madras'
- 1.2 Portuguese, Dutch and English settlements
- 1.3 The Fort St. George and its Administrators

**Unit 2**

**Growth and Development of Chennai**

**(15 Hours)**

- 2.1 Growth and Development of Chennai Corporation
- 2.2 Genesis and Growth of Judicial Administration
- 2.3 Banking system and Transportation system since 1639

**Unit 3**

**Growth of Educational institutions**

**(15 Hours)**

- 3.1 Contribution of Christian missionaries in the field of Education
- 3.2 Architectural features of heritage buildings in Chennai
- 3.3 Religious Structures in Chennai

**Unit 4**  
**Evolution of Transport in Chennai** (15 Hours)  
4.1 History and Growth of Railways in Chennai city  
4.2 History and Growth of Madras Port Trust  
4.3 Industrial Houses of Chennai

**Unit 5**  
**Growth of Important Societies** (10 Hours)  
5.1 Madras Mahajana Sabha  
5.2 Madras Literary Society  
5.3 Government Museum, Theosophical Society and Kalakshetra

**\*\* Field Trip – Chennai City**

**BOOKS FOR STUDY**

Muthiah, S. *Madras Rediscovered*. Madras: East West Press, 1990.  
Rajaraman, P. *Chennai through the Ages*. Madras: Poomphozhil, 1997.  
S.Muthiah. *Madras, Chennai: A 400-year Record of the First City of Modern India, The Land, The People and Their Governors*. Palaniappa Brothers, 2008 & 2009.

**BOOKS FOR REFERENCE**

Maclean, C.D. *Manual of Administration of the Madras Presidency*. (3 Volumes), Madras: Asian Educational Services, 1990.  
Muthiah, S. *Madras – The Gracious City*. Madras : Affiliated East West Press, 1990.  
Sudhakar, G.J. *Aspects of Madras*. Madras : Loyola, 1993.  
Venkatachellapathi, A.P. *Chennai Not Madras: Perspectives on the City*. Madras : Marg, 2006.

**JOURNALS**

Bi-annual Journal of Indian Art, Culture, Heritage and Tourism, Bharati Women's College, Chennai.  
Journal of Humanities and Social Science, International Organization of Scientific Research (IOSR).

**WEB RESOURCES**

[www.intach.org](http://www.intach.org)  
[www.madrasmusings.com](http://www.madrasmusings.com)

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 5 x 3 = 15 (Any 5 out of 7 in 30 words each)		
Section B – 5 x 5 = 25 (Any 5 out of 7 in 250 words each)		
Section C – 1 x 10 = 10 (Any 1 out of 2 in 800 words each)		
<b>Other Components:</b>	<b>Total Marks: 50</b>	

Group assignments/ Exhibitions/ Objective Tests

<b>End-Semester Examinations:</b>	<b>Total Marks:100</b>	<b>Duration : 3 hours</b>
Section A – 10 x 3 = 30 (All questions to be answered in 30 words each)		
Section B – 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)		
Section C – 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern eg. 19(a) or (b))		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19HS/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**B.A DEGREE: BRANCH – IA -(HISTORY AND TOURISM)**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CONTEMPORARY INDIA (1947-2004)**

**CODE:19HS/MC/CO44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To help students understand the major developments in India since 1947
- To help students appreciate the values central to the Indian polity, especially democracy and diversity.
- To enable students to prepare for competitive examinations

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- identify and describe significant people and events in contemporary India.
- evaluate trends in economy and society in the light of history since 1947.
- better judge contemporary issues in political life.
- have class discussions and debates, they will develop an ability to put forward their own views while respecting diversity and democratic freedom of opinion
- identify on a map places, significance in contemporary Indian history and demonstrate knowledge of the histories of different state

**Unit 1**

**Nehru and Shastri**

**(15 Hours)**

- 1.1 Accession of Princely States and Linguistic Reorganization of States
- 1.2 Communalism, Language Issues, and Integration of Tribals
- 1.3 Foreign Policy, the Evolution of the Party System in India

**Unit 2**

**Indira Gandhi to the NDA**

**(10 Hours)**

- 2.1 Indira Gandhi as Prime Minister - the Janata Party Government
- 2.2 Rajiv Gandhi - the National Front - Narasimha Rao
- 2.3 The United Front and the NDA Governments

**Unit 3**

**Regional Studies**

**(15 Hours)**

- 3.1 Politics in the states: Tamil Nadu, Andhra Pradesh
- 3.2 Kerala and West Bengal
- 3.3 Crises in Punjab, Jammu and Kashmir, and the North East

**Unit 4****The Indian Economy****(15 Hours)**

4.1 The Nehruvian Legacy and Trends after Nehru

4.2 The Reforms of 1991 and Recent Trends

4.3 Land Reforms: Zamindari Abolition, Tenancy Reforms and the Bhodan

Movement - The Green Revolution, White Revolution - Agrarian Struggles since Independence

**Unit 5****Society and Culture****(10 Hours)**

5.1 Communalism

5.2 Caste and Reservation

5.3 Environmental Movements

**BOOKS FOR STUDY**Chandra B. et. al. *India Since Independence*. New Delhi: Penguin Books, 2008.Guha, R. *India After Gandhi*. New Delhi: Harper Perennial, 2008.**BOOKS FOR REFERENCE**Anand, V.K. *India Since Independence: Making Sense of Indian Politics*. New Delhi: Longman, 2010.Dreze, J. and Sen, A. *Indian Development: Selected Regional Perspectives*. New Delhi: Oxford University Press, 2007.Gandhi, R. *Modern South India*. New Delhi: Aleph, 2018.Corbridge, S. et. al. *India Today: Economy, Politics and Society*. Cambridge: Polity, 2013.Tharoor, S. *India Shastra: Reflections on the Nation in Our Time*. New Delhi, Aleph, 2015.**JOURNALS**

Economic and Political Weekly

**WEB RESOURCES**<http://blogs.wsj.com/indiarealtime><http://www.mea.gov.in/foreign-relations.htm>**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**Section A -  $5 \times 3 = 15$  (Any 5 out of 7 in 30 words each)Section B -  $5 \times 5 = 25$  (Any 5 out of 7 in 250 words each)Section C -  $1 \times 10 = 10$  (Any 1 out of 2 in 800 words)**Other Components:****Total Marks: 50**

Seminars – Debates – Quiz - Assignments

**End-Semester Examination:****Total marks: 100****Duration: 3 hours**Section A -  $10 \times 3 = 30$  (All questions to be answered in 30 words each)Section B -  $5 \times 8 = 40$  (5 out of 8 questions to be answered in 300 words each)Section C -  $3 \times 10 = 30$  (3 questions to be answered in 1000 words each

in either or pattern, e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HISTORY OF EUROPE (1789-1871)**

**CODE:19HS/MC/HE44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To study the developments in Europe after the French Revolution
- To help students understand the origins of Consensus in International Affairs
- To study the rise of Nationalism in the World

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- list out places, people and events connected to the history of Europe.
- explain the growth of nationalism in 18<sup>th</sup> and 19<sup>th</sup> century Europe.
- demonstrate an understanding of the impact of the French Revolution.
- discuss various aspects of society and politics in Europe
- establish an understanding of the forces that shaped European history

<b>Unit 1</b>	<b>The French Revolution</b>	<b>(15 Hours)</b>
	1.1 Causes	
	1.2 The Ancient Regime	
	1.3 Impact	
<b>Unit 2</b>	<b>Rise of Napoleon</b>	<b>(15 Hours)</b>
	2.1 Conquests of Napoleon	
	2.2 Napoleon as Emperor	
	2.3 Fall of Napoleon	
<b>Unit 3</b>	<b>Congress of Vienna and Concert of Europe</b>	<b>(15 Hours)</b>
	3.1 Restoration, Legitimacy, Balance of Power	
	3.2 Holy Alliance	
	3.3 Quadruple Alliance - Role of Metternich	
<b>Unit 4</b>	<b>Europe after Vienna</b>	<b>(10 Hours)</b>
	4.1 1830 Revolutions in Europe	
	4.2 1848 Revolutions in Europe	
	4.3 Napoleon III	

## Unit 5

### Rise of Nationalism

(10 Hours)

5.1 Causes for the rise of Nationalism

5.2 Unification of Italy - Cavour, Mazzini, Garibaldi, Victor Immanuel

5.3 Unification of Germany - Otto Van Bismarck

### BOOKS FOR STUDY

Pearson, Raymond. *The Longman Companion to European Nationalism, 1789-1920*. Routledge, 2014.

Berger, Stefan. *A Companion to Nineteenth-Century Europe, 1789 – 1914 (Blackwell Companions to European History)*. Australia: Blackwell, 2009.

Brose, Eric Dorn. *German History 1789-1871: From the Holy Roman Empire to the Bismarckian Reich*. Berghahn Books, 2013.

### BOOKS FOR REFERENCE

Simpson, William. *Europe 1783–1914*. New York: Routledge publishers, 2015

Lee Stephen, J. *Aspects of European History (1789-1980)*. Routledge, 2007.

Briggs, Asa. Clavin Patricia. *Modern Europe, 1789 - Present*. Routledge, 2014.

Hobsbawm, Eric. *Age of Revolution 1789-1848*. UK: Hachette, 2010.

Rapport, Michael. *Nineteenth-Century Europe*. New York: Palgrave, 2005. Robinson, James

Harvey. *An Introduction to the History of Western Europe*. Nabu Press India, 2010.

### JOURNALS

European History Quarterly, ed. Julian Swann, Birkbeck, University of London.

Oxford Journal: Collective Panics in the Early French Revolution, 1789–1791: A

Comparative Perspective, Oxford University.

### WEB RESOURCES

<http://eudocs.lib.byu.edu>

[www.britannica.com](http://www.britannica.com)

[www.journals.cambridge.org](http://www.journals.cambridge.org)

### PATTERN OF ASSESSMENT

#### Continuous Assessment Test:

**Total Marks: 50**

**Duration : 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

#### Other Components:

**Total Marks: 50**

Group Assignments – Presentations - Objective Tests

#### End-Semester Examinations

**Total Marks: 100**

**Duration: 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HISTORY OF USA UPTO COLD WAR**

**CODE:19HS/AC/HU45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarize students with the evolution Of USA since pre-colonial times.
- To enable students to comprehend the factors that shaped American society.
- To help students understand how USA emerged as a global power in International Politics.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- list the historical personalities of USA and
- describe the events of American history.
- critically assess factors that made USA a world power.
- collect, collate and analyse information connected to History of USA
- analyse factors that resulted in the cold war

**Unit 1**

**General Introduction**

**(10 Hours)**

- 1.1 Pre-Colonial America
- 1.2 The Thirteen Colonies
- 1.3 The American Revolutionary War

**Unit 2**

**The Age of Abraham Lincoln**

**(15 Hours)**

- 2.1 Question of Slavery
- 2.2 The Civil War
- 2.3 Era of Reconstruction

**Unit 3**

**The Gilded Age**

**(15 Hours)**

- 3.1 Populist Movement
- 3.2 Growth of Industry
- 3.3 Rise of American Imperialism - The Progressive Era

**Unit 4**  
**America and the world wars** (15 Hours)  
4.1 Era of Prosperity and Frustration  
4.2 The Great Depression - The New Deal  
4.3 USA and World War II

**Unit 5**  
**United States as a world power** (10 Hours)  
5.1 Eisenhower – Korean Crisis - Kennedy- Cuba to Vietnam  
5.2 The Civil Rights movement, Race for progress- Science, Technology, Space and Defence  
5.3 The Cold war

### BOOKS FOR STUDY

Shama Mahmood, *The History of America From Pre – Colonial times to World War II*, Pearson, 2012  
Howard Zinn, *A People's History of the United States*, 2014

### BOOKS FOR REFERENCE

Susan-Mary Grant, *A Concise History of the United States of America*, 2012  
Larry Schweikart, Michael Patrick Allen, *A Patriot's History of the United States: From Columbus's Great Discovery to the War on Terror*, 2012  
Henretta, J.A. Broule, W.E.D. Broady and S. Ware. *America's History*, Volume 1, New York: Worth, 1993.  
Johnson, P. *A History of the American People*. New York: Harper Collins, 1999.  
Gerard Clarfield, *United States Diplomatic History, US, 1992*

### JOURNALS

American Educational History Journal: Volume 40 #1 & 2  
The Journal of Intelligence History

### WEB RESOURCES

<https://academic.oup.com/jah>  
[www.vlib.us/history/journals.html](http://www.vlib.us/history/journals.html)

### PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration : 90 minutes</b>
Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)		
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)		
Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Group Assignments – Presentations - Objective Tests	

<b>End-Semester Examinations:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)		
Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)		
Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA- HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HISTORY OF EUROPE (1871-1945)**

**CODE:19HS/MC/EU54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To evaluate the making of the modern world through the latter half of the 19<sup>th</sup> and first half of the 20<sup>th</sup> century
- To help students understand circumstances that led to the World wars.
- To enable students comprehend the significant events that shaped European history.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- list out places, people and events connected to the history of Europe.
- explain the rise of totalitarianism in Europe.
- discuss the important events of 19<sup>th</sup> and 20<sup>th</sup> century Europe.
- collect, collate and analyse information on the subject
- demonstrate an understanding of the forces that shaped European history

**Unit 1**

**Europe on the Eve of World War I**

**(15 Hours)**

- 1.1 Treaty of Berlin
- 1.2 Balkan Wars
- 1.3 Year of Armed Peace

**Unit 2**

**World War I**

**(15 Hours)**

- 2.1 Causes - Entry of US into World War I
- 2.2 Results - Paris Peace Conference
- 2.3 Treaty of Versailles

**Unit 3**

**Europe between the Wars**

**(10 Hours)**

- 3.1 The Russian Revolution
- 3.2 League of Nations
- 3.3 Inter War Alliances

**Unit 4**

**Rise of Totalitarianism**

**(10 Hours)**

- 4.1 Rise of Hitler - Germany
- 4.2 Rise of Mussolini - Italy
- 4.3 Stalin-Russia



## Unit 5

### World War II

(15 Hours)

5.1 Causes

5.2 US entry into the War - Pearl Harbour

5.3 Ravages of War

### BOOKS FOR STUDY

Ghosh, Pradeep Kumar(ed.), *History of Europe (1789-1939)*. New Delhi: Pearson, 2012

Dorn Brose, Eric. *A History of the Great War: World War One and the International Crisis of the Early Twentieth Century*. Oxford University Press, 2010

### BOOKS FOR REFERENCE

Lee Stephen, J. *Aspects of European History (1789-1980)*, Routledge, 2007

Briggs Asa, Clavin Patricia. *Modern Europe, 1789-Present*. Routledge, 2014

Hobsbawm, Eric. *The Age of Capital (1848-1875)*. UK : Hachette, 2010

Hobsbawm, Eric. *The Age of the Empire (1875-1914)*. UK : Hachette, 2010

Hirst, John. *The Shortest History of Europe*. Old Street, 2012. Jenkins, Simon. *A Short History of Europe*. Viking, 2018.

### JOURNALS

International Society for First World War Studies

Contemporary European History - Cambridge University Press

### WEB RESOURCES

<http://eudocs.lib.byu.edu>

[www.britannica.com](http://www.britannica.com)

[www.journals.cambridge.org](http://www.journals.cambridge.org)

### PATTERN OF ASSESSMENT

#### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

#### Other Components:

**Total Marks: 50**

Group Assignments/Presentations/Objective Tests

#### End-Semester Examinations:

**Total Marks: 100**

**Duration: 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 word each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**HISTORY OF WORLD CIVILISATIONS**

**CODE:19HS/MC/WC54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To help students get an insight into the cultures of various civilisations
- To enable the students to understand the evolution of various civilization
- To enable students comprehend the significant development that shaped World history.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- understand the events that resulted in the evolutions of civilisations
- comprehend the events that led to the growth of the civilisations
- examine the rise of and development of civilisations
- discuss the important events of ancient and classical civilisations.
- analyse information on the subject

<b>Unit 1</b>	<b>Introduction</b>	<b>(10 Hours)</b>
	1.1 Definition of Civilisation	
	1.2 Growth of Civilizations	
	1.3 Pre-Historic - Palaeolithic, Mesolithic and Neolithic Cultures	
<b>Unit 2</b>	<b>Ancient Civilisations</b>	<b>(15 Hours)</b>
	2.1 Mesopotamia and Persia	
	2.2 Egyptian Civilisation	
	2.3 Chinese Civilisation	
<b>Unit 3</b>	<b>Classical Civilizations</b>	<b>(15 Hours)</b>
	3.1 Greek and Roman	
	3.2 American Civilisation – Mayan, Aztec, Inca	
	3.3 Japanese Civilisation	
<b>Unit 4</b>	<b>Feudalism</b>	<b>(15 Hours)</b>
	4.1 Rise and spread of Christianity – The Papacy	
	4.2 Reformation	
	4.3 Counter Reformation	

<b>Unit</b>	<b>5</b>	
	<b>Transition to Modern Age</b>	<b>(10 Hours)</b>
	5.1 Renaissance – Causes and Results	
	5.2 Geographical and Scientific Discoveries	
	5.3 Rise of Colonialism	

**\*\* Field Visit – Sharma Institute of Heritage Management**

### **BOOKS FOR STUDY**

Wells, H.G. *The Outline of History: Being a Plain History of Life and Mankind*. Deutschland: CreateSpace Independent Publishing Platform, 2017.

Davis, Adam Hart. *History: From the Dawn of Civilization to the Present Day*. DK publishing, 2015

### **BOOKS FOR REFERENCE**

Randal, Puvwels. Philip Adler. *World Civilisations*. Cengage Learning, 2011.

Swaine, J. E. *A History of World Civilizations*. New Delhi: S. Chand, 2000.

Freeman, Charles. *Egypt, Greece and Rome*. New York: Oxford University, 2004.

Paine, Lincoln. *The Sea and Civilization: A Maritime History of the World*. UK: Vintage, 2015.

Gretchen, Wildwood and Matthews Rupert, *Ancient Mesopotamian Civilization*. New York: Rosen, 2009.

### **JOURNALS**

Comparative Civilizations Review

Journal of Ancient Civilizations (Annual), The Institute for the History of Ancient Civilizations, Northeast Normal University, China.

The Ancient World, (Bi-Annual), Judith M. Remer Ares Publishers.

### **WEB RESOURCES**

[www.historymuseum.ca](http://www.historymuseum.ca)

[www.ancientgreece.com](http://www.ancientgreece.com)

[www.ushistory.org](http://www.ushistory.org)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A -  $5 \times 3 = 15$  (Any 5 out of 7 in 30 words each)

Section B -  $5 \times 5 = 25$  (Any 5 out of 7 in 250 words each)

Section C -  $1 \times 10 = 10$  (Any 1 out of 2 in 800 words each)

**Other Components:** **Total Marks: 50**

Group Assignments – Presentations - Chart Work - Exhibitions of Models

**End-Semester Examinations:** **Total Marks: 100** **Duration: 3 hours**

Section A -  $10 \times 3 = 30$  ( All questions to be answered in 30 word each)

Section B -  $5 \times 8 = 40$  ( 5 out of 8 questions to be answered in 300 words each)

Section C -  $3 \times 10 = 30$  ( 3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B A DEGREE BRANCH IA- HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTELLECTUAL HISTORY**

**CODE:19HS/MC/IL54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide an understanding of the intellectual ideologies
- To assess its impact in the reforms of India.
- To imbibe the values as propounded by Intellectual thinkers

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- apply the intellectual thought process in practical manner
- evaluate the impact of the intellectual thinkers
- assess their ideologies in the society
- understand political dimensions
- examine the socio, political and Western ideologies

<b>Unit 1</b>	<b>Spiritual Thinkers</b>	<b>(15 Hours)</b>
	1.1 Swamy Dayanand Saraswathi, Ramakrishna Paramahansa, 1.2 St. Ramalinga Adigalar, Veeramamunivar 1.3 Swami Vivekananda, Aurobindho Ghosh	
<b>Unit 2</b>	<b>Social Thinkers</b>	<b>(15 Hours)</b>
	2.1 Raja Ram Mohan Roy, Rabindranath Tagore 2.2 Sir Syed Ahmed Khan, Jyothibhai Phule 2.3 Sri Narayana Guru, E V R Periyar, Dr. B R Ambedkar	
<b>Unit 3</b>	<b>Modern / Political Thinkers</b>	<b>(10 Hours)</b>
	3.1 Dadabhai Naoroji, Gopal Krishna Ghokle, Bal Gangadhar Tilak 3.2 M N Roy, J P Narayan 3.3 M K Gandhi, Jawaharlal Nehru	
<b>Unit 4</b>	<b>Political Thinkers – Regional</b>	<b>(15 Hours)</b>
	4.1 Subramania Bharathi, V O Chidambaram Pillai 4.2 C N Annadurai, E V Ramasamy Periyar 4.3 S Radhakrishnan, C Rajagoplachari	

## Unit 5

### Secularism

(10 Hours)

5.1 Political Dimensions

5.2 Social Harmony

5.3 Religious Harmony

### BOOKS FOR STUDY

Chandra Bipan, *History of Modern India*, Orient Blackswan, New Delhi, 2009.

Das, H.H., and Patra, P.S.N., *Indian Political Traditions*, Sterling Publisher Pvt., Ltd., New Delhi, 1995.

### BOOKS FOR REERENCE

Mukhi, H.R., *Modern Indian Political Thought*, SBD Publishers and Distributors, New Delhi, 1997.

Naidu, B.N. *Intellectual History of Colonial India*, Rawat Publications, New Delhi, 1996.

Prasad Bimal, *Gandhi, Nehru and J.P studies in leadership*, Chanakya Publications, New Delhi, 1985.

Jha Shefali, *Western Political thought from Plato to Marx*, Pearson, New Delhi, 2009

Mukherjee Subrata, Ramaswamy Susheela, *A history of Political thought :Plato to Marx*, Second Learning, PHI Private Limited, New Delhi, 2011

### JOURNALS

Journal of the History of Ideas ( editors-in-chief are Warren Breckman (University of Pennsylvania), Martin J. Burke (City University of New York), Anthony Grafton (Princeton University), and Ann E. Moyer (University of Pennsylvania).

### WEB RESOURCES

<https://www.intellectualhistory.net>

<https://archive.org/details/intellectualhistoryofindia>

### PATTERN OF ASSESSMENT

#### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

#### Other Components:

**Total Marks: 50**

Seminars/Presentation/Group discussion/Objective test

#### End-Semester Examination:

**Total Marks: 100**

**Duration 3 hours**

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Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**WOMEN'S STUDIES**

**CODE:19HS/MC/WS53**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To help students understand the role played by women through the ages
- To sensitise students to women's issues
- To spread awareness about the rights of women

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- understand the scope of women's studies
- apply the objectives and scope of women's studies
- evaluate the impact of the women's movement in the society
- examine the contemporary issues
- assess the position of women in the society

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Definition of Women Studies – Objective and Scope – Theories of Feminism: Social, Economic, Radical, Individual, Eco-feminism
- 1.2 Women Through the Ages – Indian Context – Ancient, Medieval, Women in Freedom Struggle and Post-Independence period
- 1.3 Women in Business Industry - Media and PR

**Unit 2**

**Women's Movements**

**(10 Hours)**

- 2.1 Genesis and Growth of Women's Movements – India, America and Britain – Causes - Seneca Falls Convention (1850), The Open Christmas Letter (1914), Temperance Movement, Suffrage Movement, ERA,
- 2.2 Women's Organisations – JAC, YWCA, WIA, IAWS, AIWC. SEWA, AIDWA, Red Rickshaw Revolution, Gulabi Gang
- 2.3 Role of NGOs – NGOs with special reference to South India: The Banyan, Prajwala, Sakhi, Madras Women's Indian Association, Working Women's Forum, ANEW

**Unit 3**

**Famous Women Personalities**

**(10 Hours)**

- 3.1 Political and Social - Gargi, Margaret 'Gretta' Cousins, Savithribai Phule, Dr. Muthulakshmi Reddy, Sarojini Naidu, Ela Bhatt

- 3.2 Environment: Medha Patkar, Indira Gandhi, Dr. V Shanta, Kiran Bedi, Aruna Roy, Arundhati Roy, Teesta Setalvad, Irom Sharmila, Vandana Shiva
- 3.3 International - Mary Wollstonecraft, Susan B. Anthony, Edith Archibald, Emmeline Pankhurst, Emma Goldman, Margaret Sanger, Goldameir, Ida Wells, Maya Angelou, Hillary Rodham Clinton, Wangari Matthai, Shirin Ebadi

#### **Unit 4**

##### **Contemporary Issues**

**(10 Hours)**

- 4.1 Domestic Violence and Dowry
- 4.2 Issues at Workplace, Public Place
- 4.3 Women's Education

#### **Unit 5**

##### **Women and Law**

**(12 Hours)**

- 5.1 Constitution and Women's Rights - National Commission for Women
- 5.2 International Women's Decade - CEDAW - UN Declaration on the Elimination of Violence against Women - UNIFEM, UN Women (2010)
- 5.3 Laws relating to Women - Married Women's Right to Property Act 1874, Protection of Women From Domestic Violence Act 2005, SITA/PITA, Dowry Prohibition Act 1961, Special Marriage Act 1872 and 1954, Medical Termination of Pregnancy Act 1971, Criminal Law (Amendment) Act 2013, The Sexual Harassment at the Workplace (Prevention, Prohibition, Redressal) Act and Rules, 2013

#### **BOOKS FOR STUDY**

Devendra, K. *Status and Position of Women in India*. New Delhi: Vikas, 1986.

Pratima, A. *Women's Movement in India*. New Delhi: Vikas, 2001

#### **BOOKS FOR REFERENCE**

Chatterjee, M. *Indian Women*. New Delhi: Kanishka, 1991

Andal, N. *Women in Indian Society – Options and Constraints*. New Delhi: Rawat, 2002

Jayawardene, K. *Feminism and Nationalism in the Third World*. New Delhi: Kali for Women, 1989

Banks, Olive. *Faces of Feminism - A Study of Feminism as a Social Movement*. London, 2008

#### **JOURNALS**

Indian Journal of Gender Studies (Ed. Malavika Karlekar), (Feb, June, Oct)

Women's Studies International Forum (*formerly* Women's Studies International Quarterly) (now a bimonthly journal) (Ed. Kalwant Bhopal)

#### **WEB RESOURCES**

[www.theindianwomansite.blogspot.com](http://www.theindianwomansite.blogspot.com)

[www.womensweb.in](http://www.womensweb.in)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total marks: 50**

**Duration : 90 minutes**

Section A -  $5 \times 3 = 15$  (Any 5 out of 7 in 30 words each)

Section B -  $5 \times 5 = 25$  (Any 5 out of 7 in 250 words each)

Section C -  $1 \times 10 = 10$  (Any 1 out of 2 in 800 words each)

### **Other Components:**

**Total Marks: 50**

Group Discussions / Objective tests

### **End-Semester Examination:**

**Total Marks: 100**

**Duration : 3 hours**

Section A -  $10 \times 3 = 30$  (All questions to be answered in 30 words each)

Section B -  $5 \times 8 = 40$  (5 out of 8 questions to be answered in 300 words each)

Section C -  $3 \times 10 = 30$  (3 questions to be answered in 1000 words each in either or pattern  
Eg. 19(a) or (b))



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Interdisciplinary Core Course Offered by the Departments of History and Commerce to  
B.A. History and Tourism and B.Com. General Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TOURISM MARKETING AND MANAGEMENT**

**CODE:19ID/IC/TM55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the principles of Marketing and Management and its application to the Tourism Industry
- To help students comprehend planning concepts, structure and organisation of Tourism
- To enable students comprehend the complexities of Human Resource Management

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the students will be able to

- understand the principles of Marketing and Management
- acknowledge its applications to the tourism industry
- apply the concepts practically
- analyse the intricacies of the tourism industry
- demonstrate the requisite skills for Tourism Marketing and Management

**Unit 1**

**Basic Principles of Marketing and Management (15 Hours)**

- 1.1 Tourism Marketing - A Perception - Purpose and Constraints of Tourism Marketing
- 1.2 Essentials of Service Management
- 1.3 Meaning, Concept and Characteristics of Tourism Management - Nature and Functions of Tourism Managers

**Unit 2**

**Tourism Planning (15 Hours)**

- 2.1 Planning Concepts - Marketing Information System –SWOT Analysis
- 2.2 Business Environment
- 2.3 Nature and Importance of Planning - Strategic Planning For Tourism

**Unit 3**

**The Structure and Organisation (15 Hours)**

- 3.1 Types of Organisations - Line, Line and Staff, Matrix
- 3.2 Organisation - Levels of Authority
- 3.3 Human Resource Management - Staffing, Recruitment - Sectoral and Destination Organisations

**Unit 4**  
**Elements of Tourism Marketing** (15 Hours)

- 4.1 Market Research
- 4.2 Consumer and Consumer Behaviour - Factors Influencing Buying Behaviour
- 4.3 Marketing Mix - Distribution Strategy for Tourism

**Unit 5**  
**Tourism Marketing Strategies** (18 Hours)

- 5.1 Tourism Promotion –Tools- Direct Selling- Advertising- Direct Marketing-Tele Marketing-Internet Marketing-Sales promotion
- 5.2 Segmentation- Demographic-Psychographic-Behaviour-Occasion
- 5.3 Branding and Pricing - Destination Marketing - Public Relations for Tourism

**BOOKS FOR STUDY**

Seth, P.N. *Successful Tourism Management*. New Delhi: Sterling, 1997.  
Bhatia, A.K. *Tourism Management and Marketing*. New Delhi: Sterling Publishers, 1997.  
Holloway, J. C. and R.Y. Plant. *Marketing for Tourism*. London : Pitman Publishing, 1998.  
Sinha, P.C. *Tourism Management*. New Delhi: Anmol Publishers, 1997.  
Buhalis, D., and Costa C. (ed.) *Tourism Management Dynamics*. London : Heinemann, 2006.

**BOOKS FOR REFERENCE**

Collman, M.M. *Tourism Marketing*. New York: Van Nostrand Reinhold, 1989.  
Batra, G.S. and R.C. Dangwal. *Tourism Promotion and Development: New Advances*. New Delhi: Deep and Deep, 2007.  
Buhalis, D. and Costa C. *Tourism Business Frontiers - Consumers, Products and Industry*. London: Heinemann, 2006.  
Telter, David J. and R. Sharpley. *Tourism and Development in the Developing World*. London: Routledge, 2001.

**JOURNALS**

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly)  
Tourism Management, Elsevier  
Journal of Hospitality and Tourism, Sage Publication

**WEB RESOURCES**

[www.tourismmarketingconcepts.com](http://www.tourismmarketingconcepts.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Other Components:** **Total Marks: 50**

Seminars/Presentation/Group discussion/Objective test

**End-Semester Examination:** **Total Marks: 100** **Duration 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTERNATIONAL RELATIONS SINCE 1945**

**CODE:19HS/MC/IR64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide a comprehensive overview of the major political developments and events starting from the twentieth century the development of modern international system
- To learn the evolution of modern diplomacy and the emergence of super-powers
- To equip the students with the tools to understand and analyse the growth of international institutions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- examine the the expansion of world society
- assess the determinants of power in the world
- analyse and be open to theoretical approaches to understand international relations
- evaluate the impact of the International Relations
- execute strategies in promoting world peace

**Unit 1**

**Introduction of International Relations**

**(15 Hours)**

- 1.1 Definition and Scope of International Relations
- 1.2 Concepts and Theories of International Relations
- 1.3 Diplomacy

**Unit 2**

**Post Second World War**

**(15 Hours)**

- 2.1 United Nations – Functions and Relevance
- 2.2 Cold War
- 2.3 Collective Security – NATO, WARSAW, SEATO, CENTO, ANZUS  
Disarmament – SALT I&II, NPT, CTBT, START I&II

**Unit 3**

**Regional and Economic Initiatives**

**(10 Hours)**

- 3.1 Commonwealth, ASEAN, EU, AU, SAARC, NAM
- 3.2 G8 & G20
- 3.3 WTO, GATT

**Unit 4**  
**Actors of International Power and Influence** (15 Hours)  
 4.1 New International Economic Order  
 4.2 Neo-colonialism in the Global South  
 4.3 Rise of China as a Major Power

**Unit 5**  
**Contemporary Concerns** (10 Hours)  
 5.1 Globalisation  
 5.2 Terrorism  
 5.3 Environment

### BOOKS FOR STUDY

Joyce P. Kaufman, *Introduction to International Relations: Theory and Practice*. Rowman & Littlefield, 2013.  
 Peu Ghosh, *International Relations*. PHI Learning, 2013

### BOOKS FOR REFERENCE

Chatterjee Aneek. *International Relations Today: Concepts and Applications*. Dorling Kindersley, 2010.  
 John W. Young, and John Kent, *International Relations Since 1945*. Oxford University Press, 2013.  
 Catherine R. Schenk, *International Economic Relations Since 1945*. Routledge, 2011.  
 GeirLundestad. *East, West, North, South: International Relations since 1945*, Sage, 2014.  
 Ron-Huisken, *Rising China: Power and Reassurance*. ANU E Press, 2009.

### JOURNALS

India Quarterly: A Journal of International Affairs (New Delhi: Indian Council of World Affairs).  
 International Studies (Quarterly) New Delhi: J.N.U.  
 Pacific Affairs: An International Review of Asia and the Pacific (Quarterly) Vancouver:

### WEB RESOURCES

<http://www.un.org/en/>  
[www.saarc-sec.org](http://www.saarc-sec.org)  
[www.europa.eu](http://www.europa.eu)

### PATTERN OF ASSESSMENT

<b>Continuous Assessment:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)		
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)		
Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)		
<b>Other Components:</b>	<b>Total Marks: 50</b>	
Seminars/Presentation - Group discussion - Objective test		
<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration 3 hours</b>
Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)		
Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)		
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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE BRANCH - IA - (HISTORY AND TOURISM)**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**INDIAN CONSTITUTION**

**CODE:19HS/MC/IC64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To study the important aspects of our government
- To help the students learn their democratic rights and duties
- To enable students to compete in All India Competitive Exams

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the student will be able to

- understand the scope of the Indian Constitution
- examine the nature of the Indian Constitution
- analyse and understand the Fundamental rights and duties
- evaluate the impact of the Constitutional provisions
- promote civil rights of the citizens

**Unit 1**

**Nature of the Indian Constitution**

**(15 Hours)**

- 1.1 Making of the Indian Constitution and its Philosophical Foundation
- 1.2 Salient Features of the Indian Constitution
- 1.3 Preamble - Citizenship

**Unit 2**

**Parts III and IV**

**(10 Hours)**

- 2.1 Fundamental Rights
- 2.2 Fundamental Duties
- 2.3 Directive Principles of State Policy

**Unit 3**

**The Central Government (Part V)**

**(15 Hours)**

- 3.1 The Union Executive: President, Prime Minister and the Council of Ministers
- 3.2 The Parliament: Powers and Function of the Lok Sabha and Rajya Sabha  
Parliamentary Committees, Functioning of the Parliamentary System in India
- 3.3 The Judiciary: The Supreme Court, Judicial Review

**Unit 4**

**The State Government (Part VI)**

**(15 Hours)**

- 4.1 Governor - Chief Minister and the Council of Ministers
- 4.2 State Legislature - High Court
- 4.3 Centre - State Relations

## Unit 5

### Other Provisions

(10 Hours)

5.1 Administration of Union Territories and Acquired Territories

5.2 Local Self-Government: Panchayats, Municipalities, and Corporations

5.3 Elections - Amendments to the Indian Constitution – 42<sup>nd</sup> and 44<sup>th</sup> amendments

### BOOKS FOR STUDY

Pylee, M.V. *India's Constitution*, (New Delhi, 2017)

Basu, D.D. *Introduction to the Constitution of India*, (New Delhi, 2011)

### BOOKS FOR REFERENCE

Jain, M.P. *Indian Constitutional Law*. Nagpur: Lexis Nexis, 2018.

Shukla, Vijaya Narain., Singh, Mahendra Pal., V.N. Shukla, *Constitution of India*. Nagpur: Eastern Book Company, 2017

Thiruvengadam, Arun K. *The Constitution of India: A Contextual Analysis*. North America: Hart, 2017

Choudhry, Sujit., Khosla, Madhav., Mehta, Pratap Bhanu. *The Oxford Handbook of the Indian Constitution*, United Kingdom: Oxford University Press, 2016.

Ananth, V. Krishna. *The Indian Constitution and Social Revolution: Right to Property since Independence*. New Delhi: Sage Publications, 2015

### JOURNALS

Economic and Political Weekly (Sameeksha Trust)

Madras Law Journal (LexisNexis)

### WEB RESOURCES

<http://indiacode.nic.in/coiweb/welcome.html>

<http://supremecourtfindia.nic.in>

<http://hcmadras.tn.nic.in>

### PATTERN OF ASSESSMENT

#### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

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Section C -  $1 \times 10 = 10$  (Any 1 out of 2 in 800 words)

#### Other Components:

**Total Marks: 50**

Seminars/Quiz /Assignments

#### End-Semester Examination:

**Total marks: 100**

**Duration: 3 hours**

Section A -  $10 \times 3 = 30$  (All questions to be answered in 30 words each)

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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ART AND ARCHITECTURE IN INDIA**

**CODE:19HS/MC/AT64**

**CREDITS:4**

**LTP:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the origin, growth and styles of Indian art and architecture
- To help students acquire knowledge in the field of Heritage Tourism and Archaeo-tourism
- To highlight the monuments of architectural value and art masterpieces

**COURSE LEARNING OUTCOME**

On successful completion of this course, the student will be able to

- apply their knowledge in promoting and preserving the Art and Architecture of our country.
- analyse the various types of temple, Medieval and Architecture
- appreciate the significant features of Indian art and Architecture
- understand the evolution of art and architecture in India
- demonstrate a keenness to pursue higher education in art history

**Unit 1**

**Introduction to Indian Art and Architecture**

**(15 Hours)**

- 1.1 Art and Architecture as Resources for Tourism
- 1.2 Indus Art and Architecture
- 1.3 Buddhist – Mauryan and Sunga, Gandhara and Mathura school

**Unit 2**

**Temple Architecture – Important Tourist Sites**

**(15 Hours)**

- 2.1 Styles of Temple Architecture – Nagara, Dravida and Vesara
- 2.2 Temples of North India – Guptas, Chandellas, Solankis, Dilwara Temples
- 2.3 Temples of South India – Pallava, Chola, Pandya, Rastrakutas, Hoysalas, Chalukyas and Vijayanagar

**Unit 3**

**Medieval Architecture – Important Tourist Sites**

**(10 Hours)**

- 3.1 Sultanate
- 3.2 Mughal
- 3.3 Rajputs

**Unit 4**  
**Modern Architecture – Important Tourist Sites** (13 Hours)  
4.1 Dutch – Tranquebar - Portuguese – Goa  
4.2 French – Pondicherry  
4.3 British – Indo-Saracenic

**Unit 5**  
**Sculptures and Paintings in India** (12 Hours)  
5.1 Sculptures – Stone & Metal  
5.2 Rock Art, Fresco and Murals  
5.3 Miniature Paintings – Mughal miniature and Madhubani - Contemporary Indian Painters – Raja Ravivarma, M F Hussain

### BOOKS FOR STUDY

Brown, Percy. *Indian Architecture*. D.B. Taraporevala, 2003.  
Tomory, Edith. *A History of Fine Arts in India and the West*. New Delhi: Orient BlackSwan, 2004.

### BOOKS FOR REFERENCE

Ambujam Anantharaman. *Temples of South India*. Madras: East West Books, 2006.  
Deva Krishna. *Temples of North India*. National Book Trust, 1997.  
Madhavan, Chitra. *Vishnu Temples of South India: Tamil Nadu*. Alpha Land Books, 2007.  
S.A. Raj Kumar. *Essays on Indian Architecture*. New Delhi: Discovery, 2003.  
V.V. Subba Reddy. *Temples of South India*. Gyan, 2009.

### JOURNALS

Indian Archaeology - A Review, (Annual Publication on Archaeological Reports).

#### Journals on Paintings

Gandharan Studies, Institute of Archaeology and Social Anthropology, University of Peshawar.

Journal of the Royal Asiatic Society, Cambridge University Press.

### WEB RESOURCES

<http://indiaheritage.org/>  
[www.asi.nic.in](http://www.asi.nic.in)

### PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)		
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)		
Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)		

<b>Other Components:</b>	<b>Total Marks: 50</b>
Seminars – Quiz - Open book tests - Group discussion - Assignments	

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)		
Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)		
Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either pattern e.g. 19 (a) or (b))		



**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI -600086**

**BA DEGREE BRANCH – 1A – HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ASPECTS OF INDIAN CINEMA**

**CODE:19HS/MC/AC63**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To help students understand, analyse and appreciate the nuances of films
- To imbibe knowledge about filmmakers and their contribution to the society
- To create an awareness on the aspects of Indian Cinema

**COURSE LEARNING OUTCOME**

On successful completion of this course, the student will be able to

- understand the nuances of the cinema
- assess cinema as an institution and as an industry
- examine the approaches to studying film making
- analyse the representation of gender and sexuality
- critically evaluate the movies and moviemakers

<b>Unit 1</b>	<b>Cinema – An Institution</b>	<b>(10 Hours)</b>
	1.1 Origin of Cinema – International, Indian Context	
	1.2 Definitions and key terms in Cinema	
	1.3 Film Critic – Famous Film Critics of India - Film Review	
<b>Unit 2</b>	<b>Film Industry</b>	<b>(10 Hours)</b>
	2.1 Film as an Experience, Commodity and Communication Media	
	2.2 Overview of Film History in India	
	2.3 Film History with special reference to Tamil Nadu	
<b>Unit 3</b>	<b>Approaches to Studying Film</b>	<b>(10 Hours)</b>
	3.1 Types of Film Genre – Film Ratings – Film Censorship	
	3.2 Cinema and its role in the society – appreciation and critic	
	3.3 Cinema and Politics	
<b>Unit 4</b>	<b>Gender and Films</b>	<b>(10 Hours)</b>
	4.1 Representation of Gender	
	4.2 Sexuality in Films	
	4.3 Women Film Makers	

<b>Unit</b>	<b>5</b>	
	<b>Movies, Movie-makers and Awards</b>	<b>(12 Hours)</b>
	5.1 Contemporary movie makers of India	
	5.2 Study of Select Movies – Art movies, Documentaries, Commercial movies – Lipstick under my Burkha, Margarita with a straw, Tare Zameen Par, Padman, Burfi	
	5.3 Awards and Recognition	

### BOOKS FOR STUDY

Bordwell, David and Kristin Thompson. *Film Art : An Introduction*. New York: McGraw-Hill, 2008

Nelmes, Jill. *An Introduction to Film Studies*. London : Routledge, 1996

### BOOKS FOR REFERENCE

Phillips, Williams H. *Film An Introduction*. New York : Bedford, 2005

Corrigan, Timothy and Patricia White. *The Film Experience – An Introduction*. New York, Bedford, 2004

Vasudevan, S. Ravi(Ed.) *Making Meaning in Indian Cinema*. New Delhi: OUP, 2000

Turner, Graeme. *Film as A Social Practice*. London : Routledge, 1993

Vasudev Aruna. *The New Indian Cinema*. Delhi: Macmillan, 1989

### JOURNALS

Film Appreciation Academic Journal (Biannual), India

Cinema in India (Quarterly), NFDC

### WEB RESOURCES

[www.satyajitray.org](http://www.satyajitray.org)

[www.film-](http://www.film-)

[tvstudies.org](http://tvstudies.org)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks : 50** **Duration : 90 minutes**

**Section A** - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

**Section B** - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

**Section C** - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Other Components:** **Total Marks: 50**

Exhibitions, Objective Tests, Film reviews

**End-Semester Examination:** **Total Marks : 100** **Duration : 3 hours**

**Section A** - 10 x 3 = 30 (All questions to be answered in 30 words each)

**Section B** - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

**Section C** - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern

Eg. 19(a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self (10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family (17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B A DEGREE BRANCH IA- HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDIAN HERITAGE AND TOURISM**

**CODE:19HS/ME/IH45**

**CREDITS:5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide a comprehensive view of Indian culture and Heritage
- To underline its importance in tourism.
- To understand the various aspects of Heritage Management.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- apply their knowledge in appreciating, promoting and preserving the natural heritage of our country.
- analyse the various methods of preservation and conservation of our heritage
- examine the tangible heritage of the country
- assess the intangible heritage of the country
- understand the working of various organizations in heritage conservation

**Unit 1**

**Conceptual Framework**

**(10 Hours)**

- 1.1 Heritage, Culture – Meaning and Definitions
- 1.2 Evolution of Indian Culture through the Ages
- 1.3 Heritage, Culture and Tourism- The relationship

**Unit 2**

**India's Natural Heritage**

**(12 Hours)**

- 2.1 National Parks and Natural Reserves in India
- 2.2 Hill Stations, Forest Reserves
- 2.3 Beaches and Islands- Beaches in Goa, Kerala, Orissa, Mamallapuram

**Unit 3**

**India's Intangible Heritage**

**(15 Hours)**

- 3.1 Music and Dance in India- Classical and Folk-Puppetry
- 3.2 Indian Cuisine
- 3.3 Traditional Games, Fairs and Festivals of India

**Unit 4**

**India's Tangible Heritage**

**(13 Hours)**

- 4.1 Religious, Secular Monuments and UNESCO sites in India
- 4.2 Handicrafts and Handlooms
- 4.3 Museums and Art Galleries of India

## Unit 5

### Tourism and Heritage Management

(15 Hours)

- 5.1 Role of Government in Promoting Tourism-Five Year Plans, ITDC, TTDC and Important Committees formed to implement Tourism Policies
- 5.2 National and International Heritage Organisation- UNESCO, ASI, INTACH, ICOMOS
- 5.3 Criteria for selection of Heritage Sites - Preservation and Conservation of Heritage Sites.

### BOOKS FOR STUDY

Acharya, R. *Tourism and Cultural Heritage of India*. Jaipur: Rosa, 1986.  
Chawla, Romila. *Cultural Tourism and Development*. New Delhi: Sonali, 2004

### BOOKS FOR REFERENCE

Bhatia, A.K. *Tourism Development: Principles and Practices*. New Delhi: Sterling, 2003.  
Singh L K. *Indian Cultural Heritage Perspective for Tourism*, New Delhi: Isha Books, 2008  
Narayan Shovana. *Sterling Book of Indian Classical Dance*, New Delhi: Sterling, 2011  
Ranjan Aditi, Ranjan M P, *Handmade in India- A Geographical encyclopaedia of Indian Handicrafts*, USA: Abbeville Press, 2009

### JOURNALS

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly).  
Bi-annual Journal of Indian Art, Culture, Heritage and Tourism, Bharati Women's College, Chennai.

### WEB RESOURCES

<http://indiaheritage.org/>  
<http://whc.unesco.org/>

### PATTERN OF ASSESSMENT

#### Continuous Assessment Test:

**Total Marks: 50**

**Duration: 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

#### Other Components:

**Total Marks: 50**

Seminars – Presentation - Group discussion - Objective test

#### End-Semester Examination:

**Total Marks: 100**

**Duration 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**B. A. DEGREE – BRANCH –I A- HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**TOURISM AND CUISINES**

**CODE:19HS/ME/TC45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To expose students to the varied cuisines in the international arena
- To create an awareness and interest among the students about the cuisines of the world
- To enable the students to have an in depth perspective of International Cuisines

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- categorize the different types of cuisines
- examine and experiment on the combinations of cuisines and on specific cuisines
- recommend selective culinary styles and procedures
- interpret new techniques
- develop new methods in international cuisines

**Unit 1**

**Introduction to Tourism and Cuisines (15 Hours)**

- 1.1 Importance of Cuisines in Tourism – Cuisines as a motivator for travel
- 1.2 Destinations popular for cuisines- India, Italy and France
- 1.3 Food Festivals around the World- wild Food Festival – New Zealand, Onion Market – Switzerland, Bacon Festival – California, Dumpling Festival – Hong Kong, Pizza Fest – Italy, Vegetarian Festival – Thailand

**Unit 2**

**Food Traditions around the World (15 Hours)**

- 2.1 American Cuisine - Types of Oil - Types of sauces – ingredients - Famous American dishes - Meal structure – Chinese Cooking – Ingredients - Meal structure
- 2.2 Mexican Cuisine - Nature of Mexican cuisine - Ingredients - Mexican cooking - Meal Structure of Mexican cuisine - Italian Cuisine – Ingredients – Meal structure – Kinds of Pastas – Different Italian dishes.
- 2.3 French Cuisine – Nature – Ingredients – Meal Structure – French brigade – Famous French Dishes – Indian Cuisine – North Indian Thali – South Indian Virundhu Saapadu

- Unit 3**  
**Tools and Techniques (15 Hours)**  
 3.1 Tools for cooking – Tools for baking – Types of spoons and knives- Modern equipments – Culinary Styles – Presentation Techniques – International Standards  
 3.2 Techniques – preparation techniques - cultural influences – Indian Tradition - Ethnic procedures – Serving techniques – Buffets – Live counter Food  
 3.3 Grading procedures – Usage of preservatives – Classes of preservatives
- Unit 4**  
**Food Etiquette and Menus (10 Hours)**  
 4.1 Food Etiquette – Dining Etiquette- Table Manners  
 4.2 Menus – Types of Menus – A la Carte – Buffet – Functional Menu – Cyclic Menu  
 4.3 Menus according to Festivals and Functions
- Unit 5**  
**Food as medicine (10 Hours)**  
 5.1 Tradition of Fasting – Food Restrictions - Health benefits  
 5.2 Spiritual Diets – Halaal Food – Science behind food  
 5.3 Festivals and Special food items

### BOOKS FOR STUDY

Patricia. A Heyman, *International Cooking: A Culinary Journey*, (Pearson , 2016)  
 Gabriela Steier, Kiran K. Patel, (Ed.), *International Food Law and Policy*, (Switzerland, 2017)  
 J. R. Stevens, *International Instant Pot Cuisine: American, Chinese, French, Indian Italian and Mexican recipes*, 2017

### BOOKS FOR REFERENCE

Kong Lily Lee Lee, Sinha Vineeta , (Ed.), *Food, Foodways And Foodscapes: Culture, Community And Consumption In Post Colonial Singapore*, (Singapore, 2015)  
 James Farrer, *The Globalisation of Asian Cuisines, Transnational Networks and Culinary Contact Zones*, (New York, 2015)  
 Deep J. Singh, John Davidson, *Granma's Guide to Home Baking Tips and techniques for healthy home Baking*, Jd – Biz Publishing, 2015  
 Daniel Boulud, HarperCollins, *Braise: A Journey Through International Cuisine*, 2013  
 Parvinder S Bali, *International Cuisine and Food Production Management*, (India, 2012)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**  
 Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)  
 Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)  
 Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

### Other Components:

Seminars/Presentation/Group discussion/Objective test

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**  
 Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)  
 Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)  
 Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE BRANCH – IA- HISTORY AND TOURISM  
SYLLABUS**

(Effective from the academic year 2019-2020)

**AIRPORT CUSTOMER SERVICES**

**CODE:19HS/ME/AS45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide students with an overview of airline operations
- To make them familiar with airport formalities
- To understand customer handling

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, the students will be able to

- categorize the different types of airport customer services
- analyse the arrival and departure formalities
- distinguish between the different types of customers
- apply the knowledge of airport customer service at the ground
- gain knowledge of passengers and baggage handling

**Unit 1**

**Overview of Aircraft Operations**

**(15 Hours)**

- 1.1 Access to Aircraft - Technical Terms
- 1.2 Flight operations, Crew and Cargo Administration
- 1.3 Catering – In-flight and Ground Catering

**Unit 2**

**Arrival and Departure Formalities**

**(15 Hours)**

- 2.1 Arrival and Departure Procedures - Passenger tickets - Baggage Tickets – MCO
- 2.2 Transportation Documents – Travel Insurance – Health Documents
- 2.3 Check-in – Passenger and Baggage Check-ins - Boarding passes – Passport – Visa and Security, Security Screening - Immigration – Customs Clearance – Embarkation and Disembarkation

**Unit 3**

**Categories of Passengers**

**(10 Hours)**

- 3.1 Very Important Person (VIPs) - Commercially Important Passengers (CIPs)
- 3.2 Frequent Flyers - Unaccompanied Minor (UMNR) - Families with Infants – Children
- 3.3 Passengers with Reduced Mobility (PRMs) and Unruly Passengers

**Unit 4**  
**Passenger handling (10 Hours)**

- 4.1 Handling Difficult Passenger Situations at Airport and In-flight
- 4.2 Delay on Departure of flight – Transit flights – Cross Connection Flights –  
Cancellation of Flights – Diversion of Flights
- 4.3 Handling Overbooking

**Unit 5**  
**Baggage Handling (15 Hours)**

- 5.1 Checked Baggage – Unchecked Baggage - Pets, Animals in  
-Cabin and in-hold - Dangerous Goods in Baggage
- 5.2 Crew Baggage - Lost Baggage - Expedite Baggage - Unclaimed Found Baggage -  
Lost, Found and Damaged Personal Property
- 5.3 Damage of Checked Baggage and Pilfered Property - Central Baggage  
Tracing Systems

**BOOKS FOR STUDY**

Airport Manual  
Airport Authority Manual  
Frankfinn Institute - Manual

**BOOKS FOR REFERENCE**

Airport Manual  
Airport Authority Manual

**JOURNALS**

Journal of Airline and Airport Management (Biannual), Spain  
Journal of Airport Management (Quarterly), (Ed. Robert J Aaronson), London

**WEB RESOURCES**

[www.iata.org](http://www.iata.org)  
[www.aai.aero](http://www.aai.aero)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total marks: 50 Duration : 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)  
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)  
Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Other Components: Total Marks: 50**  
Assignments and Seminars

**End-Semester Examination: Total Marks : 100 Duration : 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)  
Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)  
Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern  
Eg. 19(a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B A DEGREE BRANCH IA- HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENTREPRENEURSHIP IN TOURISM INDUSTRY**

**CODE: 19HS/ME/ET45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS:65**

**COURSE OBJECTIVES**

- To understand the scope and appreciate the dynamics of entrepreneurship in tourism industry
- To help students gain knowledge on career opportunities in tourism industry.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- take up entrepreneurial ventures,
- identify entrepreneurial opportunities and
- gain confidence to undertake tourism related jobs
- understand the theories in entrepreneurship
- learn strategies in financial planning

**Unit 1**

**Introduction**

**(10 Hours)**

- 1.1 Basics of Entrepreneurship - Evolution of the Concept
- 1.2 Functions of Entrepreneurship;
- 1.3 Types of Entrepreneurs: Private Entrepreneur, State and Joint Entrepreneur, Men and Women entrepreneur, Small scale, Medium scale and Large-scale entrepreneur

**Unit 2**

**Theories of Entrepreneurship**

**(13 Hours)**

- 2.1 Entrepreneurial motivations: Concept and Meaning,
- 2.2 Motivational cycle, Theories of Entrepreneurial Motivation with reference to Tourism Industry
- 2.3 Entrepreneurial Climate- Myths about Entrepreneurship - Role of Entrepreneurship in Economic Development

**Unit 3**

**Entrepreneurship in Tourism Industry**

**(15 Hours)**

- 3.1 Tourism Entrepreneurial competencies- Major competencies, Developing entrepreneurial competencies, Start-ups and ventures.
- 3.2 Entrepreneurial Process: Idea generation, Identification of an Opportunity, Market Assessment, Analysing Competitive Situation, Understanding Trade Practices, Resource Mobilization, licensing and linkages
- 3.3 Factors affecting Entrepreneurial growth and role of women entrepreneurs in tourism industry

**Unit 4**  
**Financial Planning for Entrepreneurship (12 Hours)**

- 4.1 Importance of Financial Planning - Role of Government Institutions in financing
- 4.2 Business Plan: Elements of Business Plan, Preparation of Business Plan, Feasibility report.
- 4.3 Role of Technology in Tourism Business.

**Unit 5**  
**Forms of Business and Challenges in Tourism Entrepreneurship (15 Hours)**

- 5.1 Sole proprietorship, Partnership, Selection of an appropriate ownership structure
- 5.2 H R Issues in Tourism & hospitality Industry - Challenges in Tourism Entrepreneurship-Case studies of major Travel Agencies/ Hotels on risk taking.
- 5.3 Skill Component- Visiting tourism firms and preparing study reports. Preparing sample projects on tourism entrepreneurship based on study so far.

**BOOKS FOR STUDY**

Ateljevic Jovo and Page Stephen J (Ed By), *Tourism and entrepreneurship International Perspectives*. USA: Elsevier, 2009  
Sotiriadis Marios(ed by), *The Emerald Book of Entrepreneurship in Tourism, Travel and Hospitality*, UK: Emerald, 2018

**BOOKS FOR REFERENCE**

Anil Kumar S, Poornima S C, Abraham Mini K, Jayashree K, *Entrepreneurship Development*, Bangalore: New Age International, 2003  
Desai Vasant, *Small Scale Industries and Entrepreneurship in the Twenty first century*, Mumbai: Himalaya Publishing House, 2008  
Desai Vasant, *Entrepreneurial Development*: Mumbai, Himalaya Publishing House, 1991

**JOURNALS**

Asia Pacific Journal of Innovation and entrepreneurship, Emerald Publishing House  
Tourism Management, UK  
Tourism Management Perspectives, USA

**WEB RESOURCES**

<http://researchgate.net/>  
<http://european-science.com/eojnss/article/view/775>  
[www.tourismtoday.com](http://www.tourismtoday.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)  
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)  
Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Other Components: Total Marks: 50**

Seminars – Presentation - Group discussion - Objective test

**End-Semester Examination: Total Marks: 100 Duration 3 hours**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)  
Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)  
Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.A. DEGREE: BRANCH – I A - HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT**

**CODE:19HS/ME/PR45**

**CREDITS: 5**

**OBJECTIVES OF THE COURSE**

- To enable the students to develop research capabilities
- To make the students develop an interest in minor and major research projects
- To help students gain knowledge on career opportunities in History and Tourism industry.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Collect, collate and synthesise data
- understand the nuances of writing a project
- assess the techniques of the research and use them in project writing
- research in the field of History and Tourism
- implement research methodology in advanced research

**Project Guidelines**

- A small scale research which can be completed in the amount of time one would spend in and out of class for a regular 6-credit module
- Organised into chapters and with a contents page, references and bibliography
- Preferable link made between theory and practise
- There should be empirical research, though may be modest in scale but first hand research is essential to enhance the overall quality of the project

**Unit 1**

**Introduction**

- 1.1.Introduction : a general introduction to the topical area
- 1.2.Statement of the problem: very specific statement of the problem to be studied.
- 1.3.Purpose of the Project: in this section a description about the overall purpose of the project should be made known.

**Unit 2**

**Project Overview**

- 2.1 Definition of Terms
- 2.2. Significance of the project
- 2.3 Review of literature

**Unit 3****Methodology**

- 3.1 Explain the methods used for collecting data
- 3.2 Descriptive writing approach must be utilized
- 3.3. Collection of Data – Primary and Secondary

**Unit 4****Summary and Recommendations**

- 4.1 Introduction – an overview of the project should be provided in the section
- 4.2 Summary and Recommendations
- 4.3 References and Appendices

**Contents of the Project Report**

- Cover page
- Title page
- Acknowledgements
- Contents page
- List of figures or illustrations
- Main body – Introduction
- Main body – Review of Literature
- Main body – Methodology
- Main body – Summary
- Main body – Recommendations
- Main body – Conclusion
- Reference List/Bibliography
- Appendices

**Avoid Plagiarism****PATTERN OF ASSESSMENT**

Project 75 marks

Viva-voce 25 marks.

**STELLA MARIS COLLEGE ( AUTONOMOUS), CHENNAI - 600086**

**General Elective Course offered by the Department of History to  
B.A./B.Sc./B.Com./B.B.A./B.S.W./B.V.A./B.C.A. Degree Programmes**

**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**HISTORY OF CHENNAI CITY - ONLINE**

**CODE:19HS/GE/HC22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the evolution of Chennai city
- To help the students to appreciate the contributions of important people
- To learn the about organisations and institutions in Chennai

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the students will be able to

- analyse the growth of Chennai city over the ages
- preserve the heritage of historical buildings
- give importance to environmental history of Chennai
- learn about important people and places in Chennai

**Unit 1**

**Origin of the City**

**(6 Hours)**

- 1.1 Early History
- 1.2 Origin of the City
- 1.3 European Settlements

**Unit 2**

**People and Places**

**(10 Hours)**

- 2.1 Important Governors and their Contribution
- 2.2 Chief Ministers of Madras
- 2.3 Streets and Localities

**Unit 3**

**Organisations and Institutions**

**(10 Hours)**

- 3.1 Administrative Organisations - Corporation, Judicial, Police
- 3.2 Educational and Cultural Institutions
- 3.3 Industrial Houses - Media

**BOOKS FOR STUDY**

Muthiah. S. *Madras Discovered*. Madras: East West, 1990.

Muthiah. S. *Madras Rediscovered*. Madras: East West, 1990.

Rajaraman P. *Chennai through the Ages*. Madras: Poomphozil, 1997.

Maclean, C.D. *Manual Administration of the Madras Presidency*. (3 Volumes), Madras: Asian Educational Services, 1989.

Sudhakar G.J. *Aspects of Madras*. Madras: Loyola, 1993

Bi-annual Journal of Indian Art, Culture, Heritage and Tourism, Bharati Women's College, Chennai.  
Journal of Humanities and Social Science, International Organization of Scientific Research (IOSR).

www.intach.org  
www.madrasmusings.com

### Continuous Assessment:

**Total Marks: 50**

MCQ's 10 x 1 = 10 marks

One Word Answers                      10 x 1 = 10 marks

**Short Essay in 500 words**      **10 x 1 = 10 marks**

One Evaluation per Module for 10 marks

Bes 10 Assignments will be selected and the marks would be converted to 50 Marks



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086**

**General Elective Course offered by the Department of History to  
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**SYLLABUS**

(Effective from the Academic Year 2019-2020)

**INTRODUCTION TO INDIAN PERFORMING ARTS AND PAINTING**

**CODE:19HS/GE/IP22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To inculcate an interest and appreciation for the finer qualities of Performing Arts and Painting as a medium of Communication
- To develop a critical faculty
- To highlight the utility of multimedia in human life

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the students will be able to

- analyse the nuances of Indian music
- assess Indian dance and paintings
- appreciate and analyse the various techniques of performing arts
- demonstrate an interest to preserve the traditional art forms of India

**Unit 1**

**Music and Dance**

**(10 Hours)**

- 1.1 History of Music – Musical Instruments – Folk Music
- 1.2 History of Dance – Classical Dances of India – Folk Dance
- 1.3 Dance Schools and Festivals

**Unit 2**

**Performings Arts**

**(6 Hours)**

- 2.1 Puppetry – Types of Puppetry
- 2.2 Villu Pattu – Therukoothu – Poi Kal Kuthirai Attam
- 2.3 Drama – Musicals

**Unit 3**

**Paintings**

**(10 Hours)**

- 3.1 Mural and Miniature Traditions - Mughal, Madhubani, Tanjore
- 3.2 Schools of Painting – Bengal School
- 3.3 Modern Painters – Raja Ravi Verma, M.F.Hussain

**BOOKS FOR STUDY**

Mukhopadhyay, Das Durga. *Folk Art and Social Communication*. Publication Division Government of India, New Delhi, 1994.

Narayan, Shovana. *The Sterling Book of Indian Classical Dances*. Sterling, New Delhi, 2007.

### **BOOKS FOR REFERENCE**

Chaitanya, Deva Bigamudre. *Indian Music*. Taylor and Francis, 2002.  
Kumar, Raj. *Essays on Indian Music*. New Delhi : Discovery, 2003.  
Kokhar, Aashish Mohan. *Classical Dances*. New Delhi : Rupa, 2005.  
Ghosh, Sampa and Banerjee, Utpal Kumar. *Indian Puppets*. New Delhi : Abhinav.  
Sharma, Lokesh Chandra. *A Brief History of Indian Painting*. New Delhi: Goel.

### **JOURNALS**

Journal of Ethno-musicology – National Folklore Support Centre, 2008.  
Indian Folklore Research Journal – Sruthi-Marg Publication.

### **WEBSITES**

[www.danceperception.com](http://www.danceperception.com)  
[www.narthaki.com](http://www.narthaki.com)  
[www.folklore-society.com](http://www.folklore-society.com)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment: (Internal Only)**      **Total Marks: 25**      **Duration: 60 minutes**

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)

Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

### **Other Components:**

**Total Marks: 25**

Scrap Book/Group discussion/Seminar presentation/Group Assignments/Presentations/Chart Work/Exhibition of Models

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course offered by the Department of History to  
B.A./B.Sc./B.Com./B.B.A./B.S.W./B.V.A./B.C.A. Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**APPRECIATION OF INDIAN CINEMA**

**CODE:19HS/GE/AC22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the history of Indian Cinema since its inception
- To help the students to understand nuances of Indian Cinema
- To imbibe the knowledge of commercial cinema

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the students will be able to

- understand the growth of Indian Cinema over the ages
- evaluate and to appreciate the different genres of film
- critically review films
- appreciate film as a brand commodity and communication tool

**Unit 1**

**Cinema: An Introduction**

**(6 Hours)**

- 1.1 Origin of Indian Cinema
- 1.2 Definitions and Key terms of Cinema
- 1.3 Film Critics

**Unit 2**

**Film History**

**(10 Hours)**

- 2.1 Overview of Film History
- 2.2 Overview of Film History with special reference to Tamil Nadu
- 2.3 Cinema and Politics

**Unit 3**

**Appreciation of Films**

**(10 Hours)**

- 3.1 Film Genres
- 3.2 Types of Films – Art, Commercial, Educational
- 3.3 Film as an experience, brand commodity and communication media

**BOOKS FOR STUDY**

Nelmes, Jill. *An Introduction to Film Studies*. London : Routledge, 1996.  
Roberge, Gaston. *The Subject of Cinema*. Calcutta : Seagull, 1985.

### **BOOKS FOR REFERENCE**

Turner, Graeme. *Film as a Social Practice*. London : Routledge, 1993.  
Vasudev Aruna. *The New Indian Cinema*. Delhi: Macmillan, 1989.  
Phillips, Williams H. *Film – An Introduction*. New York : Bedford, 2005.

### **JOURNALS**

Film Appreciation Academic Journal (Biannual), India.  
Cinema in India (Quarterly), NFDC.

### **WEB RESOURCES**

[www.satyajitray.org](http://www.satyajitray.org)  
[www.film-tvstudies.org](http://www.film-tvstudies.org)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment: (Internal Only)**      **Total Marks: 25**      **Duration: 60 minutes**

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)

Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

### **Other Components:**

**Total Marks: 25**

Scrap Book/Seminar presentation/Exhibition/Objective tests /Film reviewing

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**General Elective Course offered by the Department of History to  
B.A./B.Sc./B.Com./B.B.A./B.S.W./B.V.A./B.C.A. Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FUNDAMENTALS OF THE INDIAN CONSTITUTION**

**CODE:19HS/GE/FI22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- This course teaches students their democratic rights and duties
- It also affords ample scope for discussion on the working of the constitution
- To help students who wish to compete in the all India competitive exams

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the students will be able to

- become responsible citizens of the country
- completely understand the functioning of the administrative machinery in India
- analyse and imbibe the values as put forth by the Constitution.
- examine and predict the consequences of Constitutional changes in India.

**Unit 1**

**Features of the Indian Constitution and Constitutional Provisions (10 Hours)**

- 1.1 Salient features – Preamble - Citizenship
- 1.2 Fundamental Rights
- 1.3 Fundamental Duties - Directive Principles of State Policy

**Unit 2**

**The Central Government and the Working of Democracy (10 Hours)**

- 2.1 The Union Executive – President, Prime Minister, Council of Ministers
- 2.2 The Parliament – The Judiciary – the Supreme Court
- 2.3 Secularism – Party politics

**Unit 3**

**Election (6 Hours)**

- 3.1 Election Commission
- 3.2 Composition and responsibilities
- 3.3 General Elections in India

**BOOKS FOR STUDY**

Pylee, M.V. *India's Constitution*. New Delhi, 2017.

Basu, D.D. *Introduction to the Constitution of India*. New Delhi, 2011.

## BOOKS FOR REFERENCE

Jain, M.P. *Indian Constitutional Law*. Nagpur: Lexis Nexis, 2018.

Shukla, Vijaya Narain; Singh, Mahendra Pal, and V.N. Shukla. *Constitution of India*.

Nagpur: Eastern Book Company, 2017

Thiruvengadam, Arun K. *The Constitution of India: A Contextual Analysis*. North America, 2017

Choudhry, Sujit., Khosla, Madhav., Mehta, Pratap Bhanu. *The Oxford Handbook of the Indian Constitution*, United Kingdom: Oxford University Press, 2016.

Ananth, V. Krishna. *The Indian Constitution and Social Revolution: Right to Property since Independence*. New Delhi: Sage Publications, 2015

## JOURNALS

Economic and Political Weekly (Sameeksha Trust)

Madras Law Journal (LexisNexis)

## WEBSITES

<http://indiacode.nic.in/coiweb/welcome.html>

<http://supremecourtfindia.nic.in>

## PATTERN OF ASSESSMENT

**Continuous Assessment: (Internal Only)**      **Total Marks: 25**

**Duration: 60 minutes**

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)

Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

**Other Components:**

**Total Marks: 25**

Group discussion/Seminars/Quiz/Assignments

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course offered by the Department of History to  
B.A./B.Sc./B.Com./B.B.A./B.S.W./B.V.A./B.C.A. Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTERNATIONAL AFFAIRS SINCE 1945**

**CODE:19HS/GE/IA22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVE OF THE COURSE**

- To provide a comprehensive overview of the major political developments and events in the International arena.
- To trace the development of modern international system starting from the mid-twentieth century.
- To understand the evolution of modern diplomacy and the emergence of super-powers.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, the students will be able to

- interpret the happenings around the world
- recognise and differentiate the various approaches to diplomatic relations
- persuade the society to be responsible towards transforming international affairs.
- Understand the various regional associations

**Unit 1**

**Introduction to International Relations**

**(10 Hours)**

- 1.1 Definition and Scope of International Relations
- 1.2 National Power and Diplomacy
- 1.3 United Nations – Formation – Disarmament

**Unit 2**

**Post Second World War**

**(10 Hours)**

- 2.1 Cold War – NATO, WARSAW
- 2.2 Non-Aligned Movement – Globalisation
- 2.3 Regional Initiatives – ASEAN – SAARC – EU – NIEO

**Unit 3**

**Application of International Relations**

**(6 Hours)**

- 3.1 Implication of International Relations
- 3.2 Panel Discussion
- 3.3 Mock UN

**BOOKS FOR STUDY**

Lundestad, Geir. *International Relations since 1945: East, West, North, South*. New Delhi: Sage Publications, 2017.

Lawson, Stephanie. *International Relations*. Polity, 2017.

### **BOOKS FOR REFERENCE**

Bell, P. M. H., Gilbert, Mark. *The World Since 1945: An International History*. Bloomsbury Academic, 2016.

Joyce P. Kaufman, *Introduction to International Relations: Theory and Practice*, (Littlefield, 2013)

Peu, Ghosh. *International Relations*, (PHI, 2013)

Young, John W. and John Kent, *International Relations Since 1945*, (Oxford, 2013)

### **JOURNALS**

Contemporary European History: Cambridge Journals, Cambridge University Press.

India Quarterly: A Journal of International Affairs (Indian Council of World Affairs).

International Studies (Quarterly), J.N.U., New Delhi.

Pacific Affairs: An International Review of Asia and the Pacific (Quarterly) Vancouver.

### **WEBSITES**

<http://www.un.org/en/>

[www.asean.org/](http://www.asean.org/)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment: (Internal Only)**

**Total Marks: 25**

**Duration: 60 minutes**

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)

Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

**Other Components:**

**Total Marks: 25**

Group discussion/Seminar presentation/Mock United Nations /Quiz/Objective tests/

Assignments



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH – I - A- HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**HISTORY OF SOUTH EAST ASIA SINCE 1945**

**(Not for History Students)**

**CODE: 19HS/UI/SA23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To familiarize students with the evolution of South East Asia.
- To enable students comprehend the economic and political developments in the domestic and international fronts.
- To help students understand the role of the South East Asian countries in world politics.

**COURSE LEARNING OBJECTIVES**

On successful completion of this course, the students will be able to

- list out places and persons connected to the History of South East Asia.
- discuss issues pertaining to South East Asian politics and society.
- describe aspects of South East Asian history.
- collect, collate and analyse South East Asian history.

**Unit 1**

**Rise of Nationalism in South East Asia**

- 1.1 Circumstances: Education and Self- Determination
- 1.2 Liberalism
- 1.3 Impact of the World War II

**Unit 2**

**Anti – Colonial Struggles - I**

- 2.1 Laos
- 2.2 Cambodia
- 2.3 Vietnam – Independence to Cold War and after

**Unit 3**

**Anti – Colonial Struggles - II**

- 3.1 Burma
- 3.2 Malaysia
- 3.3 Singapore

**Unit 4**

**Transformation of South East Asia**

- 4.1 Thailand
- 4.2 Philippines
- 4.3 Indonesia and Brunei

## **Unit 5**

### **South East Asia in World Affairs**

5.1 ASEAN

5.2 Foreign Politics and Role in International Affairs.

5.3 Post Cold war Era, Domestic Compulsions and America's foreign Policy

### **BOOKS FOR REFERENCE**

Anthony Reid, **A History of Southeast Asia: Critical Crossroads**, UK, 2015

Arthur Cotterell, **A History of South East Asia**, Singapore, 2014

M.C. Ricklefs, Bruce Lockhart, Albert Lau, **A New History of Southeast Asia**, London, 2010

B.V. Rao, **History of Asia, From Early Times to 2000 AD**, New Delhi, 2001

Nicholas Tarling, **The Cambridge History of Southeast Asia: Volume 1, From Early Times to C.1800**, Australia, 1992

### **PATTERN OF EVALUTION**

**End Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A - 10 x 3= 30 (All questions to be answered in 30 words each)

Section B - 5 x 8= 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10= 30 (3 questions to be answered in 1000 words each in either or pattern

Eg. 19(a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A. DEGREE: BRANCH – IA – HISTORY AND TOURISM**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**CHINA AND JAPAN IN THE 20<sup>TH</sup> CENTURY**

**CODE:19HS/UI/CJ23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To understand and appreciate the rise and growth of Japan as a modern nation and its struggle against Western Imperialism.
- To study the history of China and its rise to the present position.
- To enable students comprehend the impact of communism, the establishment of the Chinese Republic and its economic development.

**COURSE LEARNING OBJECTIVES**

On successful completion of this course, the students will be able to

- list out places and persons connected to the History of China and Japan.
- discuss issues pertaining to Chinese and Japanese politics and society.
- describe aspects of Chinese and Japanese history.
- collect and collate Chinese and Japanese history.

**Unit 1**

**The West and East Asia in the early 20th Century**

- 1.1 The Anglo-Japanese Alliance
- 1.2 Russo- Japanese War
- 1.3 Chinese Revolution of 1911

**Unit 2**

**Rise of Nationalism in China**

- 2.1 Yuan Shih Kai - Warlordism
- 2.2 Dr. Sun Yat Sen and Kuomintang
- 2.3 Nationalist Government

**Unit 3**

**Imperialism and Militarism in Japan**

- 3.1 Japan in World War I - Washington Conference
- 3.2 Manchurian Crises and the Second Sino-Japanese War
- 3.3 Japan in World War II

**Unit 4**

**Post War China**

- 4.1 Mao Tse Tung and the Rise of Red China
- 4.2 China after Mao: Deng Xiaoping
- 4.3 Post-war Japan – Social, Economic and Political Transformation

**Unit 5**

### **Japan after the Second World War**

- 5.1 SCAP and the Constitution of 1947; Demilitarization and Democratization.
- 5.2 San Francisco Conference - Social and Economic Transformations
- 5.3 Relations between China, Japan, and India

### **BOOKS FOR STUDY**

Rao, B.V. *History of Asia from Early Times to 2000 A.D.* New Delhi: Sterling, 2001.

Vinacke, H.M. *History of the Far East in Modern Times.* London : George Allen and Unwin, 1971.

### **BOOKS FOR REFERENCE**

Chesneaux, J.B.M. and M.C. Bergere. *China from Opium Wars to 1911.* Sussex : Harvester, 1976.

Clyde, P.H., and B.F. Beers. *The Far East 1830-1975.* New Delhi: Prentice Hall of India, 1988.

Jain, R.K. *History of China and Japan 1949-80.* New Delhi: Radiant, 1982.

Roy, S.L. *A Short History of Far East in Modern Times.* Calcutta : Charu, 1980.

Taylor, M., and G.E. Taylor. *The Far East in the Modern World.* Illinois : Dryden, 1964.

### **PATTERN OF ASSESSMENT**

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A - 10 x 3= 30 (All questions to be answered in 30 words each)

Section B - 5 x 8= 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10= 30 (3 questions to be answered in 1000 words each in either or pattern  
Eg. 19(a) or (b))

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CEHNNAI – 600 086**

**DEPARTMENT OF MATHEMATICS**

**PROGRAMME DESCRIPTION**

The B.Sc. Mathematics Degree programme lays equal emphasis on motivating and training students towards higher education in the discipline and employability. While the courses cover a wide spectrum of skills for specific corporate and creative sectors, the logic inbuilt in the courses helps in improved analytical skills. Computational techniques introduced through the courses in the first and second years trains students to solve problems with creative and critical thinking. The theoretical inputs to develop interest in Mathematical Communication.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of this programme, students will be able to

- Demonstrate proficiency in solving problems using logical thinking
- use software to visualize mathematical concepts
- interpret problems both physically and geometrically
- use software to solve mathematical and Statistical problems
- demonstrate understanding of probability, statistical distributions and its applications to sampling theory and statistical tools in-depth at the Allied level
- acquire wide range of knowledge from General Electives chosen from different disciplines
- demonstrate competency in solving problems in Calculus, Analytical Geometry of 2 and 3 dimensions, Vector Calculus and Vector Analysis
- demonstrate proficiency in solving linear programming problems and networking models
- solve problems in Laplace Transforms, Fourier Transforms and  $Z$  transforms and to realize the use of these in problem solving
- demonstrate the study of various algebraic structures viz., Group, Ring, Fields, Vector Spaces
- derive challenging outcomes in both Real and Complex Analysis
- demonstrate proficiency in visualising Mechanics in real life problems
- visualise Elements of Space Science as an application of mathematics
- demonstrate proficiency in solving Numerical Analysis problems using C-programming

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH I-MATHEMATICS - SHIFT I**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19MT/MC/DC14	Differential Calculus	4	4	1	0	3	50	50	100
19MT/MC/AT13	Algebra and Trigonometry	3	3	1	0	3	50	50	100
19MT/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
19MT/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
<b>Allied Core Offered to the Department of Physics</b>									
19MT/AC/MP15	Mathematics for Physics I	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Chemistry</b>									
19MT/AC/MC15	Mathematics for Chemistry I	5	5	0	0	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
<b>SEMESTER-II</b>									
19MT/MC/IC23	Integral Calculus	3	3	1	0	3	50	50	100
19MT/MC/AG24	Analytical Geometry	4	4	1	0	3	50	50	100
<b>Allied Core Offered to the Department of Physics</b>									
19MT/AC/MP25	Mathematics for Physics II	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Chemistry</b>									
19MT/AC/MC25	Mathematics for Chemistry II	5	5	0	0	3	50	50	100
	Life Skills: Personality Development (EL)	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
<b>SEMESTER-III</b>									
19MT/MC/EG34	Elements of Graph Theory	4	4	1	0	3	50	50	100
19MT/MC/DE34	Differential Equations	4	4	1	0	3	50	50	100
19MT/AC/ST35	Mathematical Statistics I	5	5	0	0	3	50	50	100
19MT/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
<b>Allied Core Offered to the Department of Commerce - B.Com (General) - Shift I</b>									
19MT/AC/MT35	Mathematics for Commerce	5	5	0	0	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
<b>SEMESTER-IV</b>									
19MT/MC/SS44	Sequence and Series	4	4	1	0	3	50	50	100
19MT/MC/DM43	Discrete Mathematics	3	3	1	0	3	50	50	100
19MT/AC/ST45	Mathematical Statistics II	5	5	0	0	3	50	50	100
	Major Elective I								



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH I-MATHEMATICS - SHIFT I**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-V</b>									
19MT/MC/VA53	Vector Analysis and Applications	3	3	1	0	3	50	50	100
19MT/MC/AS55	Algebraic Structures	5	5	1	0	3	50	50	100
19MT/MC/RA55	Principles of Real Analysis	5	5	0	0	3	50	50	100
19MT/MC/IT54	Integral Transforms	4	4	1	0	3	50	50	100
<b>Interdisciplinary Core Course (MT and CS) to Students of Mathematics</b>									
19ID/IC/MS55	Mathematics through Scientific Software	5	1	0	5	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100
<b>SEMESTER-VI</b>									
19MT/MC/VL64	Vector Spaces and Linear Transformations	4	4	1	0	3	50	50	100
19MT/MC/CA65	Principles of Complex Analysis	5	5	1	0	3	50	50	100
19MT/MC/PM65	Principles of Mechanics	5	5	1	0	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19MT/ME/OT45	Optimization Techniques	5	5	0	0	3	50	50	100
19MT/ME/PR45	Project	5	1	5	0	-	25	75	100
19MT/ME/ES45	Elements of Space Science	5	5	0	0	3	50	50	100
19MT/ME/NM45	Numerical Methods with Programs in C	5	4	0	2	3	50	50	100
<b>General Elective Courses</b>									
19MT/GE/WM22	The Fascinating World of Mathematics	2	2	0	0	-	50	-	100
19MT/GE/CW22	Celestial Wonders	2	2	0	0	-	50	-	100
19MT/GE/AM22	Automata	2	2	0	0	-	50	-	100
19MT/GE/BM22	Basic Mathematics	2	2	0	0	-	50	-	100
<b>Independent Elective Course</b>									
19MT/UI/CO23	Combinatorics	3	0	0	0	3	-	100	100





**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DIFFERENTIAL CALCULUS**

**CODE: 19MT/MC/DC14**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To understand the concepts of differential calculus in depth
- To analyze the behavior of various curves

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- define the basic concepts and principles of differential calculus
- use derivatives to solve a variety of problems
- develop an appreciation of calculus as a coherent body of knowledge

**Unit 1 (12 Hours)**

**Successive Differentiation**

- 1.1 The  $n^{\text{th}}$  derivatives of some special functions
- 1.2 The  $n^{\text{th}}$  derivatives of rational algebraic functions
- 1.3 Leibnitz's Theorem for the  $n^{\text{th}}$  derivative of the product of two functions

**Unit 2 (13 Hours)**

**Curvature**

- 2.1 Formulae for radius of curvature
- 2.2 A theorem on curvature
- 2.3 Curvature at the origin
- 2.4 Chord of curvature through the origin (pole)
- 2.5 Centre of curvature
- 2.6 Property of the centre of curvature
- 2.7 Evolute and Involute
- 2.8 Properties of the evolute

**Unit 3 (14 Hours)**

**Envelopes**

- 3.1 Definition of envelope
- 3.2 Envelope of straight lines
- 3.3 Envelope of the curves
- 3.4 Envelope of a special family
- 3.5 Envelope of two-parameter family

**Unit 4 (13 Hours)**

**Extrema of functions of two variables**

- 4.1 Extrema with two variables
- 4.2 Necessary conditions for maximum and minimum of extrema with two variables

- 4.3 Determination of maxima and minima of extrema with two variables
- 4.4 Lagrange's method of undetermined multipliers

**Unit 5 (13 Hours)**

**Characteristics of some special curves**

- 5.1 Cycloid
- 5.2 Catenary
- 5.3 Evolutes of parabola and ellipse
- 5.4 Logarithmic (or Equiangular) spiral
- 5.5 Spiral of Archimedes
- 5.6 Witch of Agnesi
- 5.7 Cardioid
- 5.8 Limacon
- 5.9 Lemniscate

**Singular Points**

- 5.10 Double Points
- 5.11 Classification of Double Points
- 5.12 Conditions for existence of double points on an algebraic curve

**BOOK FOR STUDY**

B.C. Das and B.N. Mukherjee, *Differential Calculus* 52<sup>nd</sup> Edition, Kolkata: U.N. Dhur and sons Pvt. Ltd., 2012.

Chapter 8: 8.1- 8.5, 8.7 and 8.8

Chapter 13: 13.1-13.6

Chapter 15: 15.1 – 15.12

Chapter 17: 17.1-17.9

Chapter 20: 20.2, 20.3, 20.7, 20.13 - 20.18

Chapter 21: 21.1, 21.2, 21.6

**BOOKS FOR REFERENCE**

G.C. Chaubey, S.K.D Dubey, M.U Khan, D.S Pandey, *A Textbook of Advanced Calculus*, New Delhi: Wisdom, 2012.

R. Courant, F. John, *Introduction to Calculus and Analysis - Volume One*, New York : Springer-Verlag, 2000.

Elliot Mendelson, *Calculus*, Schaum's solved problem Series, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2004.

R.K Ghosh, Maity K.C., *Differential Calculus*, Kolkata: New Central Book, 2001.

Narayanan, S. and T.K. Manicavachagam Pillai. *Calculus Volume-I*. Madras: Viswanathan S., 2000.

F. B. Hildebrand. *Advanced Calculus for Applications*. Prentice-hall, inc.: London, 1962.

## WEB RESOURCES

[http://sydney.edu.au/stuserv/documents/maths\\_learning\\_centre/differentialcalculus.pdf](http://sydney.edu.au/stuserv/documents/maths_learning_centre/differentialcalculus.pdf)  
<http://www.mathsisfun.com/calculus/>

## PATTERN OF ASSESSMENT

**Problems: 100%**

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:**                      **Total Marks: 50**  
Quiz / Seminar/Presentation/Assignments/Problem solving

**End-Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**ALGEBRA AND TRIGONOMETRY**

**CODE: 19MT/MC/AT13**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To impart knowledge of solving algebraic, transcendental and trigonometric equations
- To gain understanding of the different expansions of circular functions and relation between circular and hyperbolic functions and to identify diagonalizable matrices

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- simplify, factor, evaluate and perform operations on polynomial equations
- exhibit competence in calculating Eigen values and Eigen vectors, and thereby diagonalizing square matrices
- demonstrate comprehension involving expansions and expressions of circular and hyperbolic functions

**Unit 1 (11 Hours)**

**Theory of Equations**

- 1.1 Relations between the Roots and Coefficients of Equations involving cubic and higher order
- 1.2 Symmetric Function of Roots
- 1.3 Transformation of Equations
- 1.4 Increase or Decrease the Roots of a Given Equation by a Given Quantity
- 1.5 Removal of terms
- 1.6 To Form an Equation where Roots are any Power of the Roots of a Given Equation

**Unit 2 (10 Hours)**

**Series Expansions**

- 2.1 Exponential series
- 2.2 Logarithmic series
- 2.3 Application of exponential and logarithmic series to limits and approximations

**Unit 3 (10 Hours)**

**Properties of Matrices**

- 3.1 Eigenvalues and Eigenvectors
- 3.2 Cayley - Hamilton Theorem
- 3.3 Similar Matrices
- 3.4 Diagonalization of a Matrix

**Unit 4** **(10 Hours)**  
**Trigonometry**

- 4.1 Expansions of  $\cos n\theta$ ,  $\sin n\theta$  and  $\tan n\theta$
- 4.2 Expansions of  $\cos^n \theta$  and  $\sin^n \theta$  in a Series of Sines and Cosines of Multiples of  $\theta$
- 4.3 Expansions of  $\cos \theta$  and  $\sin \theta$  in Powers of  $\theta$

**Unit 5** **(11 Hours)**  
**Trigonometry (contd.)**

- 5.1 Euler's Formula for  $e^{i\theta}$
- 5.2 Hyperbolic Functions
- 5.3 Relations between Circular and Hyperbolic Functions
- 5.4 Inverse Hyperbolic Functions in Terms of Logarithmic Functions
- 5.5 Logarithm of Complex Quantities

**BOOKS FOR STUDY**

Manicavachagam Pillay T.K., Natarajan T. and K.S. Ganapathy, *Algebra –Vol I*. Madras: S. Viswanathan, 2006.

Chapter 4 Sections 1 - 11

Chapter 6 Sections 11,12, 15 (15.1,15.2 only), 17 - 20

Manicavachagam Pillay T. K., Natarajan T. and K.S. Ganapathy, *Algebra- Vol. II*. Madras: S. Viswanathan, 2006.

Chapter 2 Section 16

Narayanan. S, and Manicavachagam Pillay T. K., *Trigonometry*. Madras: S. Viswanathan, 2007.

Chapter 3 Section 1-5 (excluding formation of equations)

Chapter 4 Section 1-2.3

Chapter 5 Section 5

**BOOKS FOR REFERENCE**

Harikishnan, *Trigonometry*. New Delhi: Atlantic, 2005.

Veerarajan T., *Trigonometry, Algebra and Calculus*. New Delhi: Tata McGraw Hill, 2003.

Venkataraman M.K., Manorama Sridhar, *Classical Algebra and Trigonometry*. Chennai: Sivasankar, 2001.

Singaravelu A., *Algebra & Trigonometry – I*, Chennai: A.R. Publications, 2015.

**WEB RESOURCES**

<http://www.edurite.com/kbase/application-of-matrices-in-real-life>

<http://www.decodedscience.com/practical-uses-matrix-mathematics/40494>

<http://malini-math.blogspot.in/2011/08/applications-of-trigonometry-in-real.html>

<http://www.intmath.com/help/useoftrig.php>



## **PATTERN OF ASSESSMENT**

### **Problems 100%**

**Continuous Assessment Test:            Total Marks: 50            Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:            Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving

**End-Semester Examination:            Total Marks: 100            Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19MT/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19MT/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**Allied Core Course Offered by the Department of Mathematics for**  
**B.Sc. (Physics) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS FOR PHYSICS - I**

**CODE : 19MT/AC/MP15**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To provide basic mathematical concepts required for students pursuing Physics
- To provide basic mathematical tools used for computation in Physics
- To introduce the concept of Operational Research

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand basic mathematical concepts required for students pursuing Physics
- understand basic mathematical tools used for computation in Physics
- familiarize with the basics of Linear Programming Problem
- apply appropriate mathematical tools in Physical problems

**Unit 1 (12 Hours)**

**Properties of Matrices**

- 1.1 Eigenvalues and Eigenvectors
- 1.2 Cayley Hamilton Theorem
- 1.3 Similar Matrices
- 1.4 Diagonalization of Matrices possessing Distinct Eigenvalues
- 1.5 Eigenvalues for symmetric matrices

**Unit 2 (15 Hours)**

**Differential Calculus**

- 2.1 Higher Derivatives -  $n^{\text{th}}$  derivative – Standard Results
- 2.2 Trigonometric Transformations
- 2.3 Formation of Equations Involving Derivatives
- 2.4 Liebnitz's formula for  $n^{\text{th}}$  derivative - Problems involving Liebnitz's formula

**Integral Calculus**

- 2.5 Methods of Integration of functions of the Following Types:

$$\frac{1}{(x+p)\sqrt{ax^2+bx+c}}; \sqrt{(x-a)(b-x)}; \frac{1}{\sqrt{(x-a)(b-x)}}; \sqrt{\frac{(x-a)}{(b-x)}}.$$

**Unit 3 (13 Hours)**

**Differential Equations**

- 3.1 Partial Differential Equation
- 3.2 Formation of Equations by Elimination of Constants and an Arbitrary Function
- 3.3 Definition of General, Particular, Complete and Singular Integral
- 3.4 Solutions of First Order Equations in their Standard Forms
- 3.5 Lagrange's Method of Solving of Linear Equations  $Pp + Qq = R$

**Unit 4** **(12 Hours)**

**Fourier Series**

- 4.1 Definition of Fourier Series
- 4.2 Finding Fourier Coefficients for a given Periodic Function with Period  $2\pi$
- 4.3 Odd and Even Functions
- 4.4 Half - Range Series
- 4.5 Development in sine and cosine series

**Unit 5** **(13 Hours)**

**Linear Programming Problem**

- 5.1 Formulation of LPP
- 5.2 Graphical Method
- 5.3 Simplex Method

**BOOKS FOR STUDY**

Narayanan, S., Hanumantha Rao and T.K. Manicavachagam Pillai, *Ancillary Mathematics – Volume - I*. Madras.:Viswanathan, S, 2012.

Chapter 3: Sections 3.4, 3.5

Chapter 6: Sections 6.1

Narayanan S., R. Hanumantha Rao,T.K. Manicavachgam Pillay, and P. Kandaswamy. *Ancillary Mathematics – Volume – II*. Madras.: Viswanathan, S, 1995 Reprint 2011.

Chapter 1 : Sections 8 (cases 5-9)

Chapter 2 : Sections 1 - 5

Chapter 6 : Sections 1-3, 5, 6.

Kalavathy S, *Operations Research*, Vikas Publishing House, Noida, Fourth Edition 2013

Chapter 2 : Sections 2.1, 2.2

Chapter 3 : Sections 3.1 – 3.3

Chapter 4 : Sections 4.1, 4.2

**BOOKS FOR REFERENCE**

Joseph, Edwards, *An Elementary Treatise on the Differential Calculus*, London: Macmillan, 1948.

Manicavachagam Pillai T.K., Natarajan T. and Ganapathy K. S, *Algebra Volume I*. Madras.: Viswanathan, S., 2006.

Manicavachagam Pillai T.K., Natarajan T. and Ganapathy K. S, *Algebra Volume II*. Madras.: Viswanathan, S., 2004.

Singaravelu A., *Allied Mathematics, Chennai*: Meenakshi, 2010

Sundaresan V., K.S. Ganapathy Subramanian, K. Ganesan. *Resource Management Techniques*, 4<sup>th</sup> ed. Arapakkam: A.R. Publications, 2007.

## WEB RESOURCES

[http://sydney.edu.au/stuserv/documents/maths\\_learning\\_centre/differentialcalculus.pdf](http://sydney.edu.au/stuserv/documents/maths_learning_centre/differentialcalculus.pdf)  
<http://www.mathsisfun.com/calculus/>

## PATTERN OF ASSESSMENT

**Derivation: 20% ; Problems:80%**

**Continuous Assessment Test:      Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:      Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving

**End-Semester Examination:      Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**Allied Core Course Offered by the Department of Mathematics for**  
**B.Sc. (Chemistry) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS FOR CHEMISTRY – I**

**CODE : 19MT/AC/MC15**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To provide basic mathematical concepts required for students pursuing Chemistry
- To provide basic mathematical tools used for computation in Chemistry
- To introduce the concept of Finite difference

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have understood basic mathematical concepts required for students pursuing Chemistry
- have understood basic mathematical tools used for computation in Chemistry
- have familiarized with the basics of finite difference
- develop an appreciation of calculus as a coherent body of knowledge

**Unit 1 (12 Hours)**

**Properties of Matrices**

- 1.1 Eigenvalues and Eigenvectors
- 1.2 Cayley Hamilton Theorem
- 1.3 Similar Matrices
- 1.4 Diagonalization of Matrices possessing Distinct Eigenvalues
- 1.5 Eigenvalues for symmetric matrices

**Unit 2 (13 Hours)**

**Theory of Equations**

- 2.1 Relation Between Roots and Coefficients
- 2.2 Solution of Equations under given Conditions On Roots
- 2.3 Transformation of Equations
- 2.4 Reciprocal Equations

**Unit 3 (14 Hours)**

**Differential Calculus**

- 3.1 Differentiation of Hyperbolic and Inverse Hyperbolic Functions
- 3.2 Higher Derivatives -  $n^{\text{th}}$  derivative – Standard Results
- 3.3 Trigonometric Transformations
- 3.4 Formation of Equations Involving Derivatives

**Integral Calculus**

- 3.5 Methods of Integration of functions of the Following Types:

$$\frac{1}{(x+p)\sqrt{ax^2+bx+c}}; \sqrt{(x-a)(b-x)}; \frac{1}{\sqrt{(x-a)(b-x)}}; \sqrt{\frac{(x-a)}{(b-x)}}.$$

**Unit 4 (13 Hours)**

**Differential Equations**

- 4.1 Partial Differential Equation
- 4.2 Formation of Equations by Elimination of Constants and an Arbitrary Function
- 4.3 Definition of General, Particular, Complete and Singular Integral
- 4.4 Solutions of First Order Equations in their Standard Forms
- 4.5 Lagrange's Method of Solving of Linear Equations  $Pp + Qq = R$

**Unit 5 (13 Hours)**

**Finite Difference Methods**

- 5.1 Finite Differences
- 5.2 Forward Difference Table
- 5.3 Interpolation Methods
- 5.4 Newton's Forward Formula
- 5.5 Newton's Backward Formula
- 5.6 Binomial Method
- 5.7 Lagrange's Formula

**BOOKS FOR STUDY**

Narayanan, S and T.K. Manicavachagam Pillai. *Calculus Volume-I*, Madras: Viswanathan S., 2000.

Chapter 2: Sections 3.11- 3.14

Chapter 3: Sections 1.1 – 1.6

Narayanan, S. Hanumantha Rao and T.K. Manicavachagam Pillai, *Ancillary Mathematics Volume - I*. Madras. Viswanathan, S., 2012.

Chapter 2: Sections 2.2 -2.4

Chapter 3: Sections 3.4, 3.5

Chapter 4: Sections 4, 4.1 - 4.3

Narayanan S., R. Hanumantha Rao, T.K. Manicavachgam Pillay, and P. Kandaswamy. *Ancillary Mathematics Volume – II*. Madras. Viswanathan, S, 2011.

Integral Calculus- Chapter 1: Sections 8 (cases 5 & 8)

Differential Equations – Chapter 6: Sections 1-3, 5, 6.

**BOOKS FOR REFERENCE**

B.C. Das and B.N. Mukherjee, *Differential Calculus*, U.N. Dhur and sons Private Limited, Kolkata: 52<sup>nd</sup> edition 2012.

Manicavachagam Pillai T.K, Natarajan T and Ganapathy K. S, *Algebra Volume I*, Madras: Viswanathan, S., 2006.

Manicavachagam Pillai T.K., Natarajan T. and Ganapathy K. S, *Algebra Volume II*. Madras: Viswanathan, S., 2004.

Singaravelu A., *Allied Mathematics*, Chennai: Meenakshi, 2010.

S. Arumugam, A. Thangapandi Isaac and A. Somasundaram, *Numerical Methods*, Scitech Publications PVT. LTD., 2008.

Singaravelu A., Ramaa R., *Calculus of Finite Differences & Numerical Analysis (Allied Paper I)*. Chennai: Meenakshi, 2003.

## **PATTERN OF ASSESSMENT**

**Problems – 90 % and Theory – 10%**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                            Total Marks: 50**

Quiz/Assignments/Problem Solving

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting at least two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTEGRAL CALCULUS**

**CODE: 19MT/MC/IC23**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To evaluate integration of irrational functions and improper integrals
- To understand the concepts of double and triple integration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the concepts of double and triple integration
- use Beta-Gamma functions as a tool to evaluate integrals
- use numerical integration for approximating the integrals that are difficult or impossible to integrate analytically

**Unit 1 (11 Hours)**  
**Methods of Integration**

- 1.1 Integration of irrational functions of the type:  $\frac{1}{(x-k)\sqrt{ax^2+bx+c}}$ ,  $\frac{\sqrt{x-\alpha}}{\sqrt{\beta-x}}$ ,  
 $\frac{1}{(Ax^2+B)\sqrt{Cx^2+D}}$ ,  $\frac{1}{(ax^2+bx+c)\sqrt{Ax^2+Bx+C}}$ ,  $\frac{\sqrt{(x-\alpha)(\beta-x)}}{\sqrt{(x-\alpha)(\beta-x)}}$ ,  $\frac{1}{\sqrt{(x-\alpha)(\beta-x)}}$ ,  
1.2 Integration of functions of type:  $\frac{1}{a+b \cos x}$ ,  $\frac{1}{\sqrt{a^2 \cos^2 x + b^2 \sin^2 x}}$

**Unit 2 (10 Hours)**  
**Improper Integrals**  
2.1 Infinite Integrals  
2.2 Discontinuous Integrands  
2.3 Comparison Test

**Unit 3 (11 Hours)**  
**Beta and Gamma Integrals**  
3.1 Definitions of Beta and Gamma Integrals  
3.2 Recurrence Formula for Gamma Functions  
3.3 Properties of Beta Functions  
3.4 Relation between Beta and Gamma Functions

**Unit 4 (10 Hours)**  
**Multiple Integrals**  
4.1 Mid-point rule for Double Integral  
4.2 Iterated Integrals

- 4.3 Double Integrals over General Regions
- 4.4 Double Integrals in Polar Coordinates
- 4.5 Surface Area

**Unit 5 (10 Hours)**

**Multiple Integrals (contd.)**

- 5.1 Triple Integrals
- 5.2 Applications of Triple Integrals
- 5.3 Change of Variable in Double Integral

**BOOKS FOR STUDY**

James Stewart. *Calculus – Concepts and Contexts*, Second Edition. United States: Brooks Cole Thomson Learning, 2001

Chapter 5      Section 5.10

Chapter 12    Section 12.1 – 12.4, 12.6, 12.7, 12.9

Narayanan S. and Manicavachagam Pillay T.K. *Calculus - Vol II*. Chennai: S. Viswanathan, 2012.

Chapter 1    Sec. 8 (cases  $v - x$ ), 9, 10

Chapter 7    Sec. 2.1, 2.3, 3 and 4

**BOOKS FOR REFERENCE**

Alan Jeffrey. *Handbook of Mathematical formulas and Integrals*. United States: Academic, Third Edition 2005.

Khalil Ahmad, Arya Jaganath and Srivastava R J. *Textbook of Integral Calculus and Differential Equations*. New Delhi: Anamaya Publishing, 2005

Singh U.P, Siddiqui N.H, Srivastava R.J. *Integral Calculus*. New Delhi : Wisdom Press, 2011.

**WEB RESOURCES**

<http://www.mathsisfun.com/calculus/>

<https://homepage.tudelft.nl/11r49/documents/wi4006/gammabeta.pdf>

**PATTERN OF ASSESSMENT**

**Theory: 10%; Problems: 90%**

**Continuous Assessment Test:      Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:      Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting at least two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**ANALYTICAL GEOMETRY**

**CODE: 19MT/MC/AG24**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVE OF THE COURSE**

- To introduce the concepts of two dimensional coordinate geometry in depth
- To introduce the concept of three dimensional geometry

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- recognize the type of conic sections and understand its properties
- be familiar to planes, straight lines, sphere and cone in three dimensional co-ordinate geometry
- demonstrate knowledge of geometry and its applications in the real world

**Unit 1 (12 Hours)**

**General Second Degree Equation**

- 1.1 Condition for a General Second Degree Equation to Represent a Conic
  - 1.2 Centre of the Conic given by the General Second degree Equation (concept only)
  - 1.3 Lengths and Positions of the Axes of the Central Conic
- $$ax^2 + 2hxy + by^2 = 1 \text{ (concept only)}$$

**Unit 2 (13 Hours)**

**Ellipse**

- 2.1 Conjugate Diameters and its Properties
- 2.2 Equi-Conjugate Diameters

**Hyperbola**

- 2.3 Asymptotes
- 2.4 Conjugate Hyperbola
- 2.5 Relation between the Equation of a Hyperbola, its Asymptotes and Conjugate Hyperbola
- 2.6 Rectangular Hyperbola

**Unit 3 (13 Hours)**

**Plane**

- 3.1 General Equation
- 3.2 Intercept Form
- 3.3 Normal Form
- 3.4 Angle Between two Planes
- 3.5 Equation of Plane through the Line of Intersection of two Given Planes
- 3.6 Length of Perpendicular from a given Point to a Plane

**Unit 4****(13 Hours)****Straight Line**

- 4.1 Symmetrical Form
- 4.2 Line through two points
- 4.3 Reduction of the Unsymmetrical Form to the Symmetrical Form
- 4.4 Condition for a Line to Lie on a Plane
- 4.5 Plane through a given Line
- 4.6 Condition for two Lines to be Coplanar
- 4.7 Equation of the Plane Containing the two Lines
- 4.8 Shortest Distance between two Skew Lines and Equation of the Line Containing the Shortest Distance

**Unit5****(14 Hours)****Sphere and Cone**

- 5.1 Equation of a Sphere with given Centre and Radius
- 5.2 General Form of the Equation of a Sphere
- 5.3 Plane Section of a Sphere
- 5.4 Intersection of Two Spheres
- 5.5 Equation of a Circle on a Sphere
- 5.6 Equation of Sphere Passing through given Circle
- 5.7 Tangent Plane to a Sphere
- 5.8 Right Circular Cone; Necessary Condition for a General Equation of Second Degree to Represent a Cone
- 5.9 Equation of a Cone with given Vertex, Axis and Semi-Vertical Angle

**BOOKS FOR STUDY**

Manicavachagam Pillay T.K, and Natarajan T., *A Text book of Analytical Geometry Part I - Two dimensions*. Madras: S. Viswanathan, 2012.

Chapter 7      Sec. 16.1–16.4

Chapter 8      Sec. 4 – 13

Chapter 10     Sec. 3 – 6

Manickavachagam Pillay T.K. and Natarajan T., *A Text Book of Analytical Geometry - Part II (Three Dimensions)*. Chennai: Ananda Book Depot, Reprint 2017.

Chapter 2      Sec. 1 – 10

Chapter 3      Sec. 1 – 8

Chapter 4      Sec. 1 – 8

Chapter 5      Sec. 2.1

**BOOKS FOR REFERENCE**

Singh, Shalini. *Two Dimensional Geometry*. New Delhi: Sarup, 2000.

Hari Krishnan. *Coordinate Geometry of Two Dimensions*. New Delhi: Atlantic, 2006.

Arup Mukherjee. *Analytical Geometry of two and three Dimensions*. Kolkata: Arunabha Sen Books and Allied, 2010.

Narayan, Shanti P.K., *Mittal Analytical Solid Geometry*, New Delhi: S Chand, 2016.



## WEB RESOURCE

<https://www.askiitians.com/blog/co-ordinate-geometry-works-real-space-five-practical-examples/>

[https://www3.ul.ie/~rynnnet/swconics/applications\\_of\\_conic\\_sections.htm](https://www3.ul.ie/~rynnnet/swconics/applications_of_conic_sections.htm)

## PATTERN OF ASSESSMENT

**Theory : 10% ; Problems: 90%**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                            Total Marks: 50**

Quiz/Assignments/Problem Solving

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Course Offered by the Department of Mathematics for  
B.Sc. (Physics) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS FOR PHYSICS – II**

**CODE : 19MT/AC/MP25**

**CREDITS : 5**

**L T P : 5 0 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To provide basic mathematical concepts required for students pursuing Physics
- To introduce problem solving skills using Numerical Methods
- To teach statistical tools using correlation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand basic mathematical concepts required for students pursuing Physics
- understand problem solving skills using Numerical methods
- understand problem solving using correlation
- apply Laplace transform in appropriate Physical problems

**Unit 1 (12 Hours)**

**Beta, Gamma Integrals**

- 1.1 Definitions of Beta and Gamma Integrals
- 1.2 Recurrence Formula for Gamma Functions
- 1.3 Properties of Beta Functions
- 1.4 Relation between Beta and Gamma Functions

**Unit 2 (13 Hours)**

**Numerical Differentiation and Integration**

- 2.1 Finite Differences- Forward and Backward
- 2.2 Derivatives using Newton's Forward Difference Formula
- 2.3 Derivatives using Newton's Backward Difference Formula
- 2.4 Numerical Integration using Trapezoidal Rule
- 2.5 Numerical Integration using Simpsons rule

**Unit 3 (14 Hours)**

**Multiple Integrals**

- 3.1 Definitions of Double and Triple Integrals
- 3.2 Change of Order of Integration for Two Variables
- 3.3 Double Integrals and Triple Integrals in Cartesian Coordinates

**Unit 4 (13 Hours)**

**Laplace Transform**

- 4.1 Definition and Transform of  $f'(t)$  &  $f''(t)$

- 4.2 Laplace Transform of Functions  $e^{-at}$ ,  $\cos at$ ,  $\sin at$ , and  $t^n$  where 'n' is a Positive Integer  
 4.3 First Shifting Theorem - Laplace Transform of  $e^{-at} \cos bt$ ,  $e^{-at} \sin bt$  and  $e^{-at} t^n$   
 4.4 Inverse Laplace Transform  
 4.5 Solving Second Order Differential Equations with Constant Coefficients using Laplace Transform

## Unit 5

(13 Hours)

### Statistics

- 5.1 Correlation  
 5.2 Scatter diagram and its uses  
 5.3 Karl Pearson's Coefficient of Correlation  
 5.4 Correlation coefficient for a Bivariate Frequency Distribution  
 5.5 Probable error of correlation coefficient  
 5.6 Spearman's rank correlation coefficient  
 5.7 Merits and demerits of rank correlation coefficient

## BOOKS FOR STUDY

Narayanan S. and Manicavachagam Pillay T.K., *Calculus-Vol II*. Chennai: S.Viswanathan, 2012.

Chapter 7 Sec. 2.1, 2.3, 3 - 5

Narayanan S., R. Hanumantha Rao, T.K. Manicavachgam Pillay, and P. Kandaswamy., *Ancillary Mathematics – Volume – II*. Madras.: Viswanathan, S, 1995 Reprint 2011.

Chapter 3 Sec 1 - 3

Chapter 7 Sec 1 – 6

R. S. N. Pillai and V. Bagavathi, *Statistics*, S. Chand & company Ltd, New Delhi, 2007.

Chapter 12: Page No: 363 – 395.

Sastry S.S., *Introductory Methods of Numerical Analysis*., Prentice – Hall of India Private Limited :New Delhi(2000).

Chapter 3 : Sections 3.3, 3.3.1, 3.3.2

Chapter 5 : Sections 5.1, 5.2, 5.4, 5.4.1, 5.4.2, 5.4.3

## BOOKS FOR REFERENCE

Gupta B.D., *Numerical Analysis*. Delhi.:Konark Publishers pvt. Ltd. , 1999

S. C. Gupta and V. K. Kapoor, *Fundamentals of Mathematical Statistics*, Sultan Chand & Sons, 2007 Reprint 2014

Jeffrey Alan, *Handbook of Mathematical formulas and Integrals*, United States: Academic, 2004.

Narayanan S. & T.K. Manicavachagam Pillay, *Calculus-Vol I*, Madras: S. Viswanathan, 1997.

Vedamurthy, V.N., N. Ch. S. N. Iyengar. *Numerical Methods*. Delhi : Vikas Publishing House, 1998.

## WEB RESOURCES

<http://www.javaquant.net/papers/Laplacetransform.pdf>

<http://www.intmath.com/laplace-transformation/10-applications.php>

## PATTERN OF ASSESSMENT

**Theory 30%; Problems : 70%**

**Continuous Assessment: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Quiz/Seminar/Presentation/Group discussion/Assignments/Problem solving

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Course Offered by the Department of Mathematics for  
B.Sc. (Chemistry) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS FOR CHEMISTRY – II**

**CODE: 19MT/AC/MC25**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the concept of abstract Algebra
- To realize the application of Laplace transform to solve Differential Equations
- To teach statistical tools using correlation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have understood basic mathematical concepts required for students pursuing Chemistry
- solve problems in abstract algebra
- have understood problem solving using correlation
- able to appreciate the solution of differential equations using Laplace transforms

**Unit 1 (12 Hours)**

**Laplace Transform**

- 1.1 Definition of Laplace transform
- 1.2 Transforms of  $f'(t)$  &  $f''(t)$
- 1.3 Transformation of function  $e^{-at}$ ,  $\cos at$ ,  $\sin at$  and  $t^n$ , where 'n' is a positive integer
- 1.4 First shifting theorem - Laplace transforms of  $e^{-at} \cos bt$ ,  $e^{-at} \sin bt$  and  $e^{-at} t^n$ .

**Unit 2 (13 Hours)**

**Inverse Laplace Transform**

- 2.1 Inverse Laplace transforms of functions relating to  $e^{-at} \cos bt$ ,  $e^{-at} \sin bt$  and  $e^{-at} t^n$
- 2.2 Applications to solutions of ordinary differential equations with constant Coefficients

**Unit 3 (13 Hours)**

**Fourier Series**

- 3.1 Fourier series: definition
- 3.2 Finding Fourier coefficients for a given periodic function with period  $2\pi$
- 3.3 Odd and even functions
- 3.4 Half - range series

**Unit 4 (13 Hours)**

**Statistics**

- 4.1 Correlation

- 4.2 Scatter diagram and its uses
- 4.3 Karl Pearson's coefficient of correlation
- 4.4 Correlation coefficient for a bivariate frequency distribution
- 4.5 Probable error of correlation coefficient
- 4.6 Spearman's rank correlation coefficient
- 4.7 Merits and demerits of rank correlation coefficient

## Unit 5

(14 Hours)

### Group Theory

- 5.1 Groups –Definitions and Examples
- 5.2 Properties of a Group
- 5.3 Order of an Element
- 5.4 Subgroups
- 5.5 Permutation groups
- 5.6 Cyclic groups
- 5.7 Cosets and Lagrange's Theorem
- 5.8 Normal Subgroups and Quotient Groups

## BOOKS FOR STUDY

Venkatachalapathy S. G., *Modern Algebra*, Margham Publications (India) Pvt.,Ltd., Chennai, Second Edition 2004, Reprint 2016.

Chapter 2: Page No. - 2.1 – 2.38

Chapter 3: Page No. - 3.1 – 3.20

Chapter 4: Page No. - 4.1 – 4.14

Chapter 5: Page No. - 5.6 – 5.22

(Chapter 2, 3, 4 and 5 – Definitions & Simple problems only)

Chapter 7: Page No. - 7.1 – 7.4 (Definitions only)

Narayanan S., R. Hanumantha Rao, T.K. Manicavachgam Pillay, and P. Kandaswamy., *Ancillary Mathematics Book II Madras*; S. Viswanathan Printers & Publishers, 2011.

Chapter 2: Sections 1 - 4

Chapter 7: Sections 1 - 6

Pillai R. S. N. and V. Bagavathi, *Statistics*, S. Chand & company Ltd, New Delhi, 2007.

Chapter 12: Page No: 363 – 395.

## BOOKS FOR REFERENCE

P.N.Arora, *Topics in Algebra*, Sultan Chand and Sons, New Delhi, Ninth Revised Edition 2005.

Narayanan S. and T.K. Manicavachagam Pillay T. K., *Calculus - Volume III*. Madras: S. Viswanathan, 2006.

Santiago, M. L. *Modern Algebra*. New Delhi : Tata McGraw-Hill, 2001.

Vital P.R. *Mathematical Statistics*. Chennai: Margam, 2002.

## **PATTERN OF ASSESSMENT**

**Theory: 10% ; Problems: 90%**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                            Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving

**End Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting at least two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**ELEMENTS OF GRAPH THEORY**

**CODE: 19MT/MC/EG34**

**CREDITS: 4**

**LT P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce basic concepts of graph theory
- To develop theoretical aspects of graph theory
- To apply graph theory based tools in solving practical problems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand fundamental definitions of graph theory
- have learnt a clear perspective of solving real life problems using graph theory
- analyze one way communication problems in networking
- use a combination of theoretical knowledge and independent mathematical thinking for creative research in graph theory

**Unit 1 (13 Hours)**

**Basic Concepts of Graph theory**

- 1.1 Graphs-vertices and edges
- 1.2 Degrees
- 1.3 Subgraphs
- 1.4 Isomorphism
- 1.5 Matrices
- 1.6 Operations on Graphs

**Unit 2 (13 Hours)**

**Degree Sequences**

- 2.1 Degree Sequences
- 2.2 Graphic Sequences

**Connectedness**

- 2.3 Walks, Trails and Paths
- 2.4 Connectedness and Components
- 2.5 Blocks

**Unit 3 (13 Hours)**

**Eulerian and Hamiltonian Graphs**

- 3.1 Eulerian Graphs
- 3.2 Konigsberg Bridge Problem



- 3.3 Fleury's Algorithm
- 3.4 Hamiltonian Graphs
- 3.5 Closure of a graph

**Unit 4 (13 Hours)**

**Trees**

- 4.1 Characterisation of Trees
- 4.2 Centre of a Tree

**Planarity**

- 4.3 Definition and Properties
- 4.4 Characterization of Planar Graphs

**Unit 5 (13 Hours)**

**Directed Graphs**

- 5.1 Directed Graphs
- 5.2 Indegree and Outdegree
- 5.3 Sequential Representation of Directed Graphs
- 5.4 Warshall's Algorithm – Shortest Paths

**BOOKS FOR STUDY**

Arumugam S. & Ramachandran S., *Invitation to Graph Theory*, Chennai: Scitech, 2013.

- Chapter 2 Sections 2.1 - 2.4, (Exclude Ulam's Conjecture) 2.8 - 2.9
- Chapter 3 Sections 3.1, 3.2
- Chapter 4 Sections 4.1 - 4.3
- Chapter 5 Sections 5.1, 5.2
- Chapter 6 Sections 6.1, 6.2
- Chapter 8 Sections 8.1, 8.2

Seymour Lipschutz, Lipson Marc Lars, *Schaum's Outline of Theory and Problems of Discrete Mathematics*, Second Edition, Eleventh reprint 2002, New Delhi: Tata McGraw-Hill Publishing Company Limited, 2010.

- Chapter 9 Sections 9.1 – 9.3, 9.5 (Omit Transitive Closure), 9.6

**BOOKS FOR REFERENCE**

Adrian J. Bondy, U. S. R. Murty, *Graph Theory with Applications*, Wiley, 1991

Balakrishnan B, *Textbook of Graph Theory*, Springer, 2000.

Joyner David W, Melles Caroline Grant, *Adventures in Graph Theory*, Springer International Publishing, 2018

Chartrand Gary, *Introductory Graph Theory*, Courier Corporation, 2012

Deo Narsingh, *Graph Theory with Applications to Engineering and Computer Science*, Courier Dover Publications, 2016

Diestel Reinhard, *Graph Theory*, Springer, 2006

## WEB RESOURCES

<http://www.open-graphtheory.org/>

<https://www.britannica.com/topic/graph-theory>

[http://mathforum.org/library/topics/graph\\_theory/](http://mathforum.org/library/topics/graph_theory/)

## PATTERN OF ASSESSMENT

**Theory: 30%, Derivations: 40% and Problems: 30%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving/Exhibition

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE BRANCH I - MATHEMATICS  
SYLLABUS**

(Effective from the academic year 2019 – 2020)

**DIFFERENTIAL EQUATIONS**

**CODE: 19MT/MC/DE34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To gain logical skills in the formulation of differential equations
- To expose students to use differential equation as a powerful tool in problem solving and to inculcate the application of differential equations in real world problems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- find the solution of ordinary differential equations and system of differential equations
- use differential equations as a tool to model the real world problems and hence understand the behavior of the dynamical problems
- find complete solution of a non-homogeneous partial differential equation as a linear combination of the complementary function and a particular solution

**Unit 1 (15 Hours)**

**Second order differential equations**

- 1.1 Second order differential equations with constant coefficients, Particular integral of the form  $e^{ax}V$  where  $V$  is a function of  $x$
- 1.2 Linear equations with variable coefficients
- 1.3 Equations reducible to the linear homogeneous equation
- 1.4 Variation of Parameters

**Unit 2 (13 Hours)**

**Simultaneous differential equations**

- 2.1 Simultaneous equations of the first order and first degree
- 2.2 Solutions of  $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$
- 2.3 Simultaneous linear differential equations with constant coefficients

**Unit 3 (12 Hours)**

**Applications of System of Linear Differential Equations**

- 3.1 The Shape of a Hanging Cable
- 3.2 Undamped and Damped Motion.
- 3.3 Electrical Circuits
- 3.4 Coupled Springs
- 3.5 Mixture Problems
- 3.6 Arms Race

**Unit 4 (14 Hours)**

**Partial Differential Equations of the First Order**

- 4.1 Introduction
- 4.2 Formulation of Partial Differential Equation by Eliminating Arbitrary Constants and Arbitrary Functions
- 4.3 Classification of Integrals
- 4.4 Some Particular Method – Type I - IV
- 4.5 Linear Partial Differential Equation of Order One - Lagrange's Method

**Unit 5 (11 Hours)**

**Partial Differential Equations of Higher Order with Constant Coefficients**

- 5.1 Homogeneous Linear Partial Differential Equations with Constant Coefficients
- 5.2 Solutions of Partial Differential Equations
- 5.3 Complementary Function
- 5.4 Particular Integral

**BOOKS FOR STUDY**

Narayanan, S. and Manicavachagam Pillay, T. K. *Calculus - Vol. III*, Chennai: S. Viswanathan Printers & Publishers, 2006

Chapter 2 : Section 4(d), 8 – 10  
Chapter 3 : Sections 1 – 6

Siddiqi, A.H. and P. Manchanda, *A First Course in Differential Equations with Applications*. New Delhi: Macmillan India Ltd., 2006

Chapter 7 : Section 7.3, 7.6  
Chapter 8 : Section 8.7

Bhu Dev Sharma, *Differential Equations*. Meerut: Kedar Nath Ram Bath, Revised Edition 2015.

Chapter 17 Section 17.1 – 17.4  
Chapter 18 Section 18.1, 18.2, 18.5  
Chapter 19 Section 19.1 -19.6

**BOOKS FOR REFERENCE**

William E. Boyce and Richard C. DiPrima, *Elementary Differential Equations and Boundary Value Problems*, USA: Wiley, Reprint 2013.

Amarnath.T, *An Elementary Course in Partial Differential Equation* (2<sup>nd</sup> Edition). New Delhi: Narosa Publishing House, 2003.

Narayan S. and T.K. Manicavachagam Pillay, *Differential Equations and its Applications*. Chennai: S.Viswanathan Printers & Publishers Pvt. Ltd., 2001.

Rai, B., D.P. Choudhury, and H.I. Freedman, *A Course in Ordinary Differential Equations*, New Delhi: Narosa Publishing House, 2002.

Sharma J.N. and Kehar Singh, *Partial Differential Equations for Engineers and Scientists*. New Delhi: Narosa Publishing House, 2000.

Sharma, J.N. and R.K.Gupta, *Differential Equations*. Meerut: Krishna Prakashan Mandir, 1992.

## WEB RESOURCES

[http://www.analyzemath.com/calculus/Differential\\_Equations/applications.html](http://www.analyzemath.com/calculus/Differential_Equations/applications.html)  
<http://faculty.bard.edu/belk/math213s14/ApplicationsOfDifferentialEquations.pdf>  
[www.ugrad.math.ubc.ca/coursedoc/math100/notes/.../intro.html](http://www.ugrad.math.ubc.ca/coursedoc/math100/notes/.../intro.html)

## PATTERN OF ASSESSMENT

**Theory: 20% Problems: 80%**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Project/Problem solving

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**MATHEMATICAL STATISTICS – I**

**CODE: 19MT/AC/ST35**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVE OF THE COURSE**

- To extend and formalize knowledge of the theory of probability and use of Baye's theorem
- To inculcate the concepts of random variables, mathematical expectation and correlation
- Fostering the concept of discrete and continuous probability distributions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate understanding of probability functions and use Baye's theorem for future events
- compute expectations, moments and correlation coefficients
- acquire knowledge of discrete and continuous distributions and their properties

**Unit 1 (12 Hours)**

**Probability**

1.1 Baye's Theorem for Future Events

**Random Variables**

1.2 Cumulative Distribution Function

1.3 Two-Dimensional Random Variables

**Unit 2 (14 Hours)**

**Moments**

2.1 Introduction

2.2 Definitions of Mean and Variance

2.3 Elementary Properties of Mean and Variance

2.4 Expected Value of a Function of a Random Variable

2.5 Expected Values of a Two Dimensional Random Variable

2.6 Covariance of  $X, Y$

2.7 Conditional Expected Values – Definitions

2.8 Moment Generating Function – Definition

2.9 Properties of Characteristic Function

2.10 Cumulant Generating Function

2.11 Joint Characteristic Function of a Two Dimensional Random Variable

**Unit 3 (14 Hours)**

**Special Discrete Probability Distributions**

3.1 Binomial Distribution

- 3.2 Characteristic Function, Mean and Variance,
- 3.3 Recurrence Formula
- 3.4 Mode of the Binomial Distribution
- 3.5 Poisson Distribution
- 3.6 Poisson Distribution as a Limiting Form of Binomial Distribution
- 3.7 Moment Generating Function and Central Moments
- 3.8 Recurrence Formula
- 3.9 Mode of the Poisson Distribution
- 3.10 Additive property

**Unit 4 (13 Hours)**

**Normal Distribution**

- 4.1 Normal distribution
- 4.2 Normal Probability Curve and its Characteristics
- 4.3 Mean and Variance
- 4.4 Median and Mode
- 4.5 Central Moments
- 4.6 Mean Deviation about the Mean
- 4.7 Moment Generating Functions
- 4.8 Additive Property of Normal Distribution
- 4.9 Normal Distribution as a Limiting Form of Binomial Distribution

**Unit 5 (12 Hours)**

**Correlation**

- 5.1 Correlation
- 5.2 Scatter Diagram and its Uses
- 5.3 Karl Pearson's Coefficient of Correlation
- 5.4 Correlation of Grouped Bi-Variate Data
- 5.5 Probable Error of Correlation Coefficient
- 5.6 Rank Correlation Coefficient
- 5.7 Merits and Demerits of Rank Correlation Coefficient

**BOOKS FOR STUDY**

Gupta S. C. and Kapoor V. K., *Fundamentals of Mathematical Statistics*, New Delhi: Sultan Chand & Sons, Reprint 2016.

Chapter 3: Section 3.8.5

Chapter 4: Section 4.2

Veerarajan T., *Fundamentals of Mathematical Statistics*, First edition, Chennai: Yes Dee Publishing Pvt Ltd, 2017.

Chapter 5: Sections 5.1 – 5.4 (omit 5.4.9)

Chapter 7: Sections 7.1 – 7.6

Chapter 8: Sections 8.1 – 8.4

Chapter 9: Sections 9.1 (9.1.1 – 9.1.3), 9.2 (9.2.1 – 9.2.5, 9.2.7)

Chapter 10: Section 10.9 (10.9.1 – 10.9.5, 10.9.7 – 10.9.9)

Pillai R. S. N. and Bagavathi V., *Statistics*, New Delhi : S. Chand & Company Ltd, Reprint 2007.

Chapter 12: Page No: 363 – 395.

## BOOKS FOR REFERENCE

Arumugam S. and Issac A., *Statistics*, Palayamkottai: New Gamma Publishing House, 1999.

David Freedman, Robert Pisani, Roger Purves, *Statistics*, 4th Edition New Delhi: Vinod Vaishya for Viva Books, 2009.

Sancheti D.C. and Kapoor V. K., *Statistics: Theory, Methods & Application*, New Delhi : S. Chand & Company Ltd, 2014.

Vittal P.R., *Mathematical Statistics*, Chennai: Margham Publications Pvt. Ltd., 2002.

## WEB RESOURCES

<https://fs.blog/2018/09/bayes-theorem/>  
<http://makemeanalyst.com/normal-distribution-binomial-distribution-poisson-distribution/>  
<https://www.statisticshowto.datasciencecentral.com/probability-and-statistics/correlation-coefficient-formula/>

## PATTERN OF ASSESSMENT

**Theory: 60 % (Derivations/Properties/Theorems) Problem: 40 %**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting at least two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19MT/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Course Offered by the Department of Mathematics for  
B.Com. (Commerce – General Shift I) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS FOR COMMERCE**

**CODE: 19MT/AC/MT35**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To inculcate problem solving skills and quantitative analysis
- To introduce the technique to solve linear programming problem

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- acquire the skill to solve problems and have quantitative analysis
- model real time problems and solve
- solve problems using various techniques

**Unit 1 (13 Hours)**

**Matrices**

- 1.1 Types of matrices
- 1.2 Characteristic equation of a matrix
- 1.3 Cayley - Hamilton Theorem (without proof)
- 1.4 Eigen Values and Eigen Vectors
- 1.5 Diagonalization of  $3 \times 3$  matrices with distinct eigen values

**Unit 2 (15 Hours)**

**Theory of Equations**

- 2.1 Formation and Solution of Equation with Imaginary and Irrational Roots
- 2.2 Relation between Roots and Coefficients
- 2.3 Solution of Equations under given Conditions
- 2.4 Symmetric Functions of the Roots of an Equation in terms of its Coefficients
- 2.5 Reciprocal equations

**Unit 3 (12 Hours)**

**Series Expansion**

- 3.1 Binomial series
- 3.2 Exponential series
- 3.3 Logarithmic series

**Unit 4 (12 Hours)**

**Numerical Analysis**

- 4.1 The Bisection Method
- 4.2 Newton Raphson Method
- 4.3 Gaussian Jordan Elimination
- 4.4 Gaussian Elimination
- 4.5 Iterative Methods
- 4.6 Jacobi Method
- 4.7 Gauss Seidal Method

**Unit 5 (13 Hours)**

**Linear Programming Problem**

- 5.1 General L.P.P.
- 5.2 Canonical and standard forms of L.P.P.
- 5.3 The Simplex Algorithm
- 5.4 The Big M – method

**BOOKS FOR STUDY**

Arumugam S., A. Thangapandi Isaac and A. Somasundaram. *Numerical Methods*, Chennai: Scitech, 2002.

Chapter 3: Section 3.3, 3.5

Chapter 4: Section 4.3, 4.4, 4.7, 4.8

Sundaresan V., K.S. Ganapathy Subramanian and K. Ganesan, *Resource Management Techniques*, Chennai: A.R. Publications, 2014.

Chapter 3: Section 3.1.1 – 3.1.4, 3.2.1

Venkatachalapathy S.G, *Allied Mathematics*, Chennai: Margham Publications, 2011.

Chapters 2 – 4

Chapter 5: Pages 5.1 – 5.32

Chapter 6: Pages 6.3 – 6.13, 6.36 – 6.57

**BOOKS FOR REFERENCE**

Abdul Rasheed A. *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008

Kalavathy S. *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

Kandasamy and Thilagavathy. *Mathematics*. New Delhi: S Chand, 2004.

Sankarappan S, S Kalavathy, Santha B Prabha. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009

## WEB RESOURCES

<https://ece.uwaterloo.ca/~h23chung/MATH%20215/MATH%20215%20-%20Eigen%20Vectors,%20Eigenvalues,%20and%20the%20Cayley-Hamilton%20Theorem.pdf>  
[https://www.math.cuhk.edu.hk/course\\_builder/1617/mmat5520/Eigen.pdf](https://www.math.cuhk.edu.hk/course_builder/1617/mmat5520/Eigen.pdf)  
<http://www.universityofcalicut.info/SDE/VI%20Sem.%20B.Sc%20Maths%20-%20Additional%20Course%20in%20lie%20of%20Project%20-Theory%20of%20equations%20&%20fuzzy%20set.pdf>  
<http://www.math.iitb.ac.in/~baskar/book.pdf>  
<https://www.math.ucla.edu/~tom/LP.pdf>  
<http://ncert.nic.in/ncerts/l/lemh206.pdf>

## PATTERN OF ASSESSMENT

**Theory 10%; Problems : 90%**

**Continuous Assessment: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Quiz/Assignments/Problem solving

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SEQUENCES AND SERIES**

**CODE: 19MT/MC/SS44**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To understand the concept of convergence of a real sequence
- To discuss the techniques of testing the behavior of infinite series of real Numbers
- To express periodic functions as infinite series

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand countable and uncountable sets of real numbers
- acquire the knowledge of the behavior of the sequence
- develop the techniques of testing the behavior of infinite series of real Numbers
- express periodic functions as infinite series

**Unit 1 (12 Hours)**

**Sets and Functions**

- 1.1 Functions – Real Valued Functions
- 1.2 Equivalence, Countability
- 1.3 Real Numbers
- 1.4 Least Upper Bounds

**Unit 2 (13 Hours)**

**Sequences of Real Numbers**

- 2.1 Definition of Sequence and Subsequence
- 2.2 Limit of a Sequence
- 2.3 Convergent and Divergent Sequences
- 2.4 Bounded Sequences
- 2.5 Monotone Sequences
- 2.6 Operations on Convergent and Divergent Sequences

**Unit 3 (14 Hours)**

**Sequences of Real Numbers (contd.)**

- 3.1 Limit Superior and Limit Inferior
- 3.2 Cauchy Sequences

**Series of Real Numbers**

- 3.3 Convergence and Divergence
- 3.4 Series with Non-negative Terms
- 3.5 Alternating Series
- 3.6 Conditional Convergence and Absolute Convergence

**Unit 4** (14 Hours)  
**Tests for Convergence of a Series of Real Numbers**  
4.1 Tests for Absolute Convergence  
4.2 Series whose terms form a Non-increasing Sequence  
4.3 Summation by Parts

**Unit 5** (12 Hours)  
**Fourier Series**  
5.1 Definition of Fourier Series  
5.2 Expansions of Periodic Functions with Period  $2\pi$   
5.3 Odd and Even Functions  
5.4 Half-range Fourier Series  
5.5 Development in cosine and sine Series

### BOOKS FOR STUDY

Goldberg Richard.R, *Methods of Real Analysis*. New Delhi: Indian Edition. Oxford, Reprint 2017.

Chapter 1 : Section 1.3 – 1.7  
Chapter 2 : Sections 2.1 – 2.10  
Chapter 3 : Sections 3.1 – 3.4, 3.6 – 3.8

Narayanan S. and Manicavachagom Pillay T. K., *Calculus -Volume III*. Madras: S. Viswanathan, 2006.

Chapter 6 : Sections 1 – 5

### BOOKS FOR REFERENCE

Banner Adrian, *The Calculus Lifesaver*, Princeton University Press, ebook.

Bhat V. K, Jarol Scott, *Introduction to Real Analysis*, New Delhi: Narosa, 2012.

Karunakaran V, *Real Analysis*. Chennai: Pearson, 2012.

Kumar Ajit, Kumarasan S. *A Basic Course in Real Analysis*, USA: CPC Press 2014

Robert, G Bartle, *Introduction to Real Analysis*, John Wiley, New York.

Terrance J Quinn, *Pathways to Real analysis*, New Delhi: Narosa, 2009.

### WEB RESOURCES

[https://www.whitman.edu/mathematics/calculus/calculus\\_11\\_Sequences\\_and\\_Series.pdf](https://www.whitman.edu/mathematics/calculus/calculus_11_Sequences_and_Series.pdf)

<http://www.math.utah.edu/online/1220/notes/ch9.pdf>

<http://www.math.harvard.edu/~engelwar/MathS305/Sequences%20and%20Series%20Text%20abridged.pdf>



## **PATTERN OF ASSESSMENT**

**Theory: 70%; Problems: 30%**

**Continuous Assessment Test:           Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                           Total Marks: 50**

Theory writing techniques/Quiz/Assignments/Problem Solving

**End-Semester Examination:           Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**DISCRETE MATHEMATICS**

**CODE: 19MT/MC/DM43**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVE OF THE COURSE**

- To introduce the concepts on ordered relations
- To develop logical thinking and problem solving skill
- To introduce formal languages as a tool to model natural language into computer language

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- acquire the knowledge of reasoning and to reason validity of a statement
- understand ordered relations and apply in Boolean expressions
- gain knowledge of using formal language as tool to convert natural language into machine language

**Unit 1 (12 Hours)**

**Logic and Propositional Calculus**

- 1.1 Logical equivalence
- 1.2 Algebra of Propositions
- 1.3 Arguments
- 1.4 Logical Implication
- 1.5 Propositional Functions, Quantifiers
- 1.6 Negation of Quantified Statements
- 1.7 Normal Forms

**Unit 2 (10 Hours)**

**Lattices**

- 2.1 Lattice
- 2.2 Properties of lattices
- 2.3 Lattices as Algebraic System
- 2.4 Bounded, Complemented and Distributive lattices

**Unit 3 (10 Hours)**

**Boolean Algebra**

- 3.1 Basic properties of Boolean algebra
- 3.2 Boolean expressions
- 3.3 Logic gates and circuits
- 3.4 Boolean function
- 3.5 Method to find Truth table of a Boolean Function

### 3.6 Karnaugh Map

## **Unit 4 (10 Hours)**

### **Finite State Automata**

- 4.1 Finite state machines
- 4.2 Finite state automata
- 4.3 Non-deterministic finite state automaton
- 4.4 Equivalence of DFSA and NDFSA

## **Unit 5 (10 Hours)**

### **Languages and Grammars**

- 5.1 Languages and Regular expressions
- 5.2 Languages determined by FSA
- 5.3 Grammars
- 5.4 Derivation trees for context free grammar

## **BOOKS FOR STUDY**

Lipschutz Seymour, Marc Lars Lipson, *Schaum's Outline of Theory and Problems of Discrete Mathematics* Third Edition, New Delhi: Tata McGraw-Hill Publishing Company Limited, 2010

Chapter 4      Sections 4.6, 4.7, 4.9 - 4.13

Babu Ram, *Discrete Mathematics*, Noida: Pearson - Dorling Kindersley (India) Pvt. Ltd., 2011

Chapter 6      Sections 6.1 – 6.3, 6.5

Chapter 7      Sections 7.1, 7.3 – 7.6

Chapter 9      Sections 9.1 (omit sections 9.1.4 – 9.1.6), 9.2 – 9.4

Chapter 10     Sections 10.1 – 10.4

## **BOOKS FOR REFERENCE**

Tremblay J.P. and R. Manohar, *Discrete Mathematical Structures with Applications to Computer Science*, New Delhi: Tata McGraw-Hill Publishing Company Limited, 2004

Malik D.S. and M.K.Sen, *Discrete Mathematics*, India Binding House, Indian Edition, 2008

Norman L.Biggs, *Discrete Mathematics*, Second Edition, India: Oxford University Press, 2003

Ralph P. Grimaldi and B.V. Ramana, *Discrete and Combinatorial Mathematics*, Fifth Edition, New Delhi: Dorling Kindersley (India) Pvt. Ltd., 2004

Rowan Garnier and John Taylor, *Discrete Mathematics*, Third Edition, CRC Press, Special Indian Edition, 2011

Sharma, *Discrete Mathematics*, Chennai: Macmillan India Ltd., 2003

## **PATTERN OF ASSESSMENT**

**Theory: 40%; Problems: 60%**

**Continuous Assessment Test:            Total Marks: 50            Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:            Total Marks: 50**

Quiz/Seminar/Presentation/Group discussion/Assignments/Problem solving

**End-Semester Examination:            Total Marks: 100            Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICAL STATISTICS – II**

**CODE: 19MT/AC/ST45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the notion of regression and time series analysis
- To inculcate the concepts of the sampling distribution, hypothesis testing and analysis of variance

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- use appropriate sampling distribution for the test of hypothesis
- construct the interval estimation for different parameters
- understand the concept of Analysis of Variance

**Unit 1 (12 Hours)**

**Regression**

- 1.1 Definition
- 1.2 Uses of Regression Analysis
- 1.3 Difference Between Correlation and Regression
- 1.4 Method of Studying Regression
- 1.5 Mathematical Properties
- 1.6 Standard Error of Estimate

**Unit 2 (13 Hours)**

**Sampling Theory and Tests of Significance**

- 2.1 Introduction
- 2.2 Point Estimation
- 2.3 Testing of Hypothesis
- 2.4 Standard Error
- 2.5 Tests of Significance for Attributes
- 2.6 Tests of Significance for Large Samples
- 2.7 Testing the difference Between Means of two samples
- 2.8 Tests of Significance for Small Samples (*t*-test)
- 2.9 The Use of *P*-Values for Decision Making in Testing Hypotheses

**Unit 3 (14 Hours)**

**Chi Square test**

- 3.1 Characteristics of  $\chi^2$  – test
- 3.2  $\chi^2$  – test of Goodness of Fit
- 3.3  $\chi^2$  as a test of Independence

### **Interval Estimation**

- 3.4 Confidence Interval for the Mean
- 3.5 Confidence Interval for Difference between the Means
- 3.6 Confidence Interval for Difference between the Means in Case of Paired Observations
- 3.7 Confidence Interval for Proportions
- 3.8 Confidence Interval for Variance and Standard Deviations

### **Unit 4 (13 Hours)**

#### **F – test and Analysis of Variance**

- 4.1 F – test or the Variance Ratio Test
- 4.2 Assumptions in F – test
- 4.3 Applications of F – test
- 4.4 Analysis of Variance
- 4.5 One – Way Classification
- 4.6 Two – Way Classification

### **Unit 5 (13 Hours)**

#### **Analysis of Time Series**

- 5.1 Definition
- 5.2 Uses of Time Series
- 5.3 Time Series Models
- 5.4 Components of Time Series
- 5.5 Measurement of Secular Trend
- 5.6 Measurement of Seasonal Variations

### **BOOKS FOR STUDY**

Pillai R. S. N. and Bagavathi V., *Statistics*, New Delhi: S. Chand & Company Ltd, Reprint 2007.

Chapter 13: Page No: 431 – 480

Chapter 15: Page No: 555 – 595

Chapter 20: Page No: 777 – 799

Chapter 21: Page No: 802 – 812

Gupta O. P. and Vishal Sharma, *Mathematical Statistics*, Meerut: Mohan Print Media (P) Ltd., 2019.

Chapter 21: 21.3 – 21. 9 (Pg. No: 804 – 823)

Gupta S. P., *Statistical Methods*, New Delhi: Sultan Chand & Sons, 2003.

Chapter 15: 15. 1 - 15. 7 (Pg. No: 642 – 672)

Walpole Ronald E. Raymond H. Myers, Sharon L. Myers, Keying Ye. *Probability & Statistics for Engineers & Scientists*. Pearson Education International, 8<sup>th</sup> Edition: 2007

Chapter 10: 10.4

### **BOOKS FOR REFERENCE**

Arumugam S. and Issac A., *Statistics*, Palayamkottai: New Gamma Publishing House, 1999.

Subramaniam N. *Probability and Statistics*. Erode : SCM, 2005.

Richard I, Levin and David S. Rubin. *Statistics for Management*. New Delhi: Prentice Hall, 2000.

Sancheti D.C. and Kapoor V. K., *Statistics: Theory, Methods & Application*, New Delhi : S. Chand & Company Ltd, 2014.

## WEB RESOURCES

<https://stattrek.com/regression/linear-regression.aspx>  
<https://statistics.laerd.com/statistical-guides/hypothesis-testing.php>  
<https://www.spss-tutorials.com/anova-what-is-it/>  
<http://www.statsoft.com/textbook/time-series-analysis>

## PATTERN OF ASSESSMENT

**Theory: 40%**                      **Problem: 60%**

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:**                      **Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving

**End-Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**VECTOR ANALYSIS AND APPLICATIONS**

**CODE: 19MT/MC/VA53**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To familiarize the concept of magnitude and direction of a quantity
- To introduce the concepts and applications of line, surface and volume integral

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the concepts of divergence, curl, and the Laplacian along with their physical and geometrical interpretations
- develop the ideas of line, surface and volume integrals and its calculations in rectangular, cylindrical and spherical coordinate systems
- investigate the relation between the line, surface and volume integrals

**Unit 1**

**(10 Hours)**

**Vector Differentiation**

1.1 Scalar and Vector Functions

1.2 Scalar Fields and Vector Fields

1.3 Derivative of a Vector Function

1.4 Geometrical Significance of  $\frac{d\vec{r}}{dt}$

1.5 Unit Tangent Vector of a Curve

1.6 Derivative of Sum, Scalar and Vector Product of Vector Functions

1.7 Partial Derivatives of a Vector Function

**Gradient**

1.8 Gradient of a Scalar Point Function

1.9 Formulas involving Gradient

1.10 Directional Derivative of a Scalar Function

**Unit 2**

**(10 Hours)**

**Divergence and Curl**

2.1 Divergence of a Vector Point Function

2.2 Curl of a Vector Point Function

2.3 Solenoidal and Irrotational Vectors

2.4 Laplace's Equation

2.5 Vector Identities



**Unit 3 (10 Hours)**

**Vector Integration**

- 3.1 Integration of Vector Functions
- 3.2 Definite Integrals
- 3.3 Line Integral, Surface Integral, Volume Integral

**Unit 4 (10 Hours)**

**Vector Integration (contd.)**

- 4.1 Relation between the Line Integral and Surface Integral: Stokes' Theorem (statement only)
- 4.2 Relation between the Surface Integral and Volume Integral: Gauss Divergence Theorem (statement only)
- 4.3 A Special Case of Stokes' Theorem: Green's Theorem in Two Dimensions (statement only)
- 4.4 Verification of the Theorems

**Unit 5 (12 Hours)**

**Application of Vector Differentiation and Vector Integration to Differential Geometry and Mechanics**

- 5.1 Geometrical Significance of the gradient
- 5.2 Physical Interpretation of Divergence
- 5.3 Physical Interpretation of Curl
- 5.4 Unit Normal Vector to given Surfaces
- 5.5 Orthogonal Curvilinear Coordinate Systems – Cylindrical and Spherical Coordinate Systems
- 5.6 Divergence and Curl of a Vector Point Function in terms of a Curvilinear Coordinates

**BOOK FOR STUDY**

Shalini Singh, *Vector Calculus*, New Delhi: Sarup & Sons, 2013.  
Chapter 2, 3, 4 (excluding Sections 2.3, 2.4, 2.5)

**BOOKS FOR REFERENCE**

Absos Ali Shaikh and Sanjib Kumar Jana, *Vector Analysis with Applications*, New Delhi: Narosa, 2009

Prasun Kumar Nayak, *Vector Algebra and Analysis with Applications*, Hyderabad: Universities Press Pvt. Ltd., 2017

Seymour Lipschutz, Dennis Spellman, Murray R. Spiegel, *Vector Analysis and an Introduction to Tensor Analysis* (Second Edition), Schaum's Outline Series, New Delhi: Tata McGraw Hill, 2009

## WEB RESOURCES

<https://www.khanacademy.org/math/multivariable-calculus/integrating-multivariable-functions/line-integrals-in-vector-fields-articles/a/line-integrals-in-a-vector-field>  
<https://www.math24.net/geometric-applications-line-integrals/>  
<https://unacademy.com/lesson/surface-integral-geometric-interpretation/ZXI8F1HY>

## PATTERN OF ASSESSMENT

**Theory: 10%; Problems: 90%**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                      Total Marks: 50**

Seminars/Quiz/Open Book Test/Group Discussion/Assignments/Problem Solving

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ALGEBRAIC STRUCTURES**

**CODE: 19MT/MC/AS55**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce the concept of abstract algebra
- To develop an understanding of fundamental algebraic structures

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have a working knowledge of important mathematical concepts in abstract algebra
- understand the structure and characteristics of groups, rings and fields
- gain experience in proving theorems and solving problems

**Unit 1 (15 Hours)**

**Group Theory**

- 1.1 Elementary Properties of Groups
- 1.2 Finite Groups
- 1.3 Subgroups
- 1.4 Cyclic Groups – Properties, Classification of Subgroups of Cyclic Groups

**Unit 2 (16 Hours)**

**Permutation Groups**

- 2.1 Cycle notation
- 2.2 Properties of Permutations
- Symmetry Groups**
- 2.3 Isometries
- 2.4 Classification of Finite Plane Symmetry Groups
- 2.5 Classification of Finite Groups of Rotations in  $\mathbb{R}^3$

**Isomorphisms**

- 2.6 Cayley's Theorem
- 2.7 Properties of Isomorphisms
- 2.8 Automorphisms

**Unit 3 (15 Hours)**

**Cosets and Lagrange's Theorem**

- 3.1 Properties of Cosets
- 3.2 Lagrange's Theorem and Consequences
- 3.3 An Application of Cosets to Permutation Groups
- Normal Subgroups and Factor Groups**
- 3.4 Normal subgroups

### 3.5 Factor Groups

## Unit 4 (16 Hours)

### Group Homomorphism

4.1 Properties of Homomorphisms

4.2 The First Isomorphism Theorem

### Ring Theory

4.3 Properties of Rings

4.4 Subrings

4.5 Integral Domains

4.6 Fields

4.7 Characteristic of a Ring

## Unit 5 (16 Hours)

### Ring Theory (contd.)

5.1 Ideals and Factor Rings

5.2 Prime Ideals and Maximal Ideals

5.3 Ring Homomorphisms

5.4 Properties of Ring Homomorphisms

5.5 Field of Quotients

## BOOKS FOR STUDY

Gallian Joseph A., *Contemporary abstract algebra*, New Delhi: Cengage Learning, 8<sup>th</sup> Edition, Reprint 2016.

Chapters 2 – 7, 9 – 10, 12 – 15, 27 (Pages 42-91, 99-113, 118-152, 185-192, 208-221, 245-293, 461-466 only)

## BOOKS FOR REFERENCE

Dipak Chatterjee, *Abstract Algebra*, 2<sup>nd</sup> Edition, New Delhi: Prentice Hall of India, 2005.

Herstein, I. N., *Topics in Algebra* 2<sup>nd</sup> ed. New Delhi: Wiley, 2007, Reprint 2017.

Kishore Arora, *Concepts and Applications of Group Theory*, New Delhi : Anmol Publications Pvt. Ltd., 2003.

Neal H. McCoy, Gerald J. Janusz, *Introduction to Abstract Algebra*, Sixth Edition. New Delhi: Academic Press, 2005

Santiago, M. L., *Modern Algebra*. New Delhi : Tata McGraw-Hill, 2001.

## WEB RESOURCES

<https://www.maa.org/press/periodicals/loci/joma/group-visualization-with-igroup-exploreri>

[www.mathcs.emory.edu/~dzb/teaching/421Fall2014/VGT-Ch-1-2.pdf](http://www.mathcs.emory.edu/~dzb/teaching/421Fall2014/VGT-Ch-1-2.pdf)

## PATTERN OF ASSESSMENT

Theory: 80%; Problems: 20%

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                            Total Marks: 50**

Seminars/Quiz/Group Discussion/Assignments/Problem Solving/Theorem Writing Technique

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF REAL ANALYSIS**

**CODE: 19MT/MC/RA55**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To enhance the knowledge of abstract mathematics on the real line
- To introduce the concepts for understanding and analyzing abstract mathematics on the metric space

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have acquired knowledge of abstract mathematics on the real line
- have learnt the concepts for understanding and analyzing abstract mathematics on the metric space
- have the knowledge of real functions, limit of functions and their properties

**Unit 1 (15 Hours)**

**Limits and Continuity on  $\mathbb{R}^1$**

- 1.1 Limit of a Function on the Real Line
- 1.2 Functions Continuous at a Point on the Real Line – Reformulation
- 1.3 Discontinuous functions on  $\mathbb{R}^1$

**Unit 2 (16 Hours)**

**Limits and Continuity on Metric Spaces**

- 2.1 Metric Space
- 2.2 Limits in Metric Spaces
- 2.3 Functions Continuous on a Metric Space
- 2.4 Open Sets
- 2.5 Closed Sets

**Unit 3 (15 Hours)**

**Connectedness and Completeness on Metric Spaces**

- 3.1 Connected Sets
- 3.2 Bounded Sets and Totally Bounded Sets
- 3.3 Complete Metric Spaces

**Unit 4 (16 Hours)**

**Compactness on Metric Spaces**

- 4.1 Compact Metric Spaces
- 4.2 Continuous Functions on a Compact Metric Space
- 4.3 Continuity of an inverse function

#### 4.4 Uniform Continuity

### Unit 5

(16 Hours)

#### Riemann Integration

5.1 Definition of the Riemann Integral

5.2 Properties of the Riemann Integral

5.3 Derivatives

5.4 Rolles' Theorem

5.5 The Law of the Mean

5.6 Fundamental Theorem of Calculus

5.7 Improper Integrals

### BOOK FOR STUDY

Goldberg Richard R. *Methods of Real Analysis*. Indian Edition. New Delhi: Oxford, 1970, Reprint 2017.

Chapter 4 – Section: 4.1 – 4.3

Chapter 5 – Sections: 5.1 – 5.6

Chapter 6 – Sections: 6.1 – 6.8

Chapter 7 – Sections: 7.2, 7.4 - 7.10

### BOOKS FOR REFERENCE

Kumar Ajit, Kumarasan S. *A Basic Course in Real Analysis*, USA: CPC Press 2014

Mainak Mukherjee, *A Course in Real Analysis*, New Delhi: Narosa, 2011.

Malik S C, *Principles of Real Analysis*. Third edition. New Delhi: New Age, 2011.

Nader Vakil, *Real Analysis through Modern Infinitesimals*, Cambridge, 2011.

Shanti Narayan, M.D.Raisinghania, *Elements of Real Analysis*, New Delhi: S.Chand, eighth revised edition 2007.

### WEB RESOURCES

[http://ramanujan.math.trinity.edu/wtrench/texts/TRENCH\\_REAL\\_ANALYSIS.PDF](http://ramanujan.math.trinity.edu/wtrench/texts/TRENCH_REAL_ANALYSIS.PDF)

<http://www.personal.psu.edu/dpl14/java/calculus/limits.html>

<https://www.math.stonybrook.edu/~aknapp/download/b2-realanal-inside.pdf>

<https://www.jirka.org/ra/realanal.pdf>

<https://www.isid.ac.in/~tridip/Teaching/MathEco/LectureNotes/05RealAnalysisBasicConcepts.pdf>

<http://www.freebookcentre.net/Mathematics/Real-Analysis-Books.html>

### PATTERN OF ASSESSMENT

**Theory : 60%; Problem 40%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:****Total Marks: 50**

Theorem writing techniques/Quiz/Assignments/Problem Solving

**End Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTEGRAL TRANSFORMS**

**CODE: 19MT/MC/IT54**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the concept of Laplace, Fourier and **Z** – transform of different functions
- To learn the application of Laplace transform to solve Differential Equations and **Z** transform to solve Difference equations

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the different methods of finding transforms of different functions
- appreciate the procedure to obtain solution of differential equations involving Laplace transform
- visualize the use of **Z**-transform in solving difference equation

**Unit 1 (12 Hours)**

**Laplace Transform**

- 1.1 Definition of Laplace Transform
- 1.2 Laplace Transform of  $e^{-at}$ ,  $\cos at$ ,  $\sin at$  and  $t^n$ , where  $a$  is a Positive Integer
- 1.3 Laplace Transform of Periodic Functions
- 1.4 Some General Theorems
- 1.5 Evaluation of Integrals using Laplace Equations
- 1.6 Inverse Laplace Transform

**Unit 2 (14 Hours)**

**Application of Laplace Transform to Differential Equations**

- 2.1 Laplace Transform to Solve System of Differential Equations with Constant Coefficient
- 2.2 Laplace Transform to Solve Ordinary Differential Equations with Variable Coefficients
- 2.3 Laplace Transform to solve Differential Equations Involving Integrals
- 2.4 Laplace Transform to Evaluate Certain Integrals

**Unit 3 (12 Hours)**

**Fourier Transform**

- 3.1 Definition of Fourier Transform
- 3.2 Fourier Integral Theorem
- 3.3 Fourier Transform Pair
- 3.4 Properties of Fourier Transforms

**Unit 4** (13 Hours)

**Z - Transforms**

- 4.1 Definition of  $Z$  – Transform
- 4.2  $Z$  – Transforms of Some Standard Sequences
- 4.3 Existence of  $Z$  – Transform
- 4.4 Properties of  $Z$  – Transform
- 4.5 Initial and Final Value Theorem

**Unit 5** (14 Hours)

**Z – Transform (contd.)**

- 5.1 Inverse  $Z$  – Transform
- 5.2 Evaluation of Inverse  $Z$  – Transform – Power Series Method, Partial Fraction Method, Inversion Integral Method
- 5.3 Solution of Difference Equations using  $Z$ – Transform

**BOOKS FOR STUDY**

Narayanan S. and T.K. Manicavachagam Pillay T. K., *Calculus - Volume III*. Madras: S. Viswanathan, 2006.  
Chapter 5      Sections 1 – 12

S. Santha, *Transforms and Partial Differential Equations*, Vijay Nicole Imprints Private Limited, Chennai, 2009.  
Chapter 4      Sections 4.1 – 4.5  
Chapter 5      Sections 5.1 – 5.6, 5.8 – 5.10

**BOOKS FOR REFERENCE**

S. Sankarappan, S. Kalavathy, S. Santha, B. Praba, *Applied Mathematics*, Vijay Nicole Imprints Private Limited, Chennai, 2009.

A.R. Vasishtha and R.K. Gupta, *Integral Transforms*, Krishna Prakashan Mandir, Meerut, 1972.

Baidyanath Patra, *An Introduction to Integral Transforms*, Levant Books, India, 2016.

Erwin Kreyszig, *Advanced Engineering Mathematics*, 8<sup>th</sup> Edition, Wiley India, 2006.

Donald A. McQuarrie, *Mathematical Methods for Scientists & Engineers*, Viva Books Pvt. Ltd. New Delhi, 2009.

**WEB RESOURCES**

<https://www.intmath.com/laplace-transformation/table-laplace-transforms.php>  
[https://www.tutorialspoint.com/signals\\_and\\_systems/fourier\\_transforms.htm](https://www.tutorialspoint.com/signals_and_systems/fourier_transforms.htm)  
[https://www.comm.utoronto.ca/~dkundur/course\\_info/discrete-time-systems/notes/Kundur\\_DTS\\_Chap3.pdf](https://www.comm.utoronto.ca/~dkundur/course_info/discrete-time-systems/notes/Kundur_DTS_Chap3.pdf)

## **PATTERN OF ASSESSMENT**

**Theory: 10% ; Problems: 90%**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                            Total Marks: 50**

Quiz/Open Book Tests/Assignments/Problem Solving

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Interdisciplinary Core Course Offered by the Departments of Mathematics and Computer Science to B.Sc. Mathematics Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS THROUGH SCIENTIFIC SOFTWARE**

**CODE: 19ID/IC/MS55**

**CREDITS: 5**

**L T P: 1 0 5**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce software tools for implementing Mathematical and Statistical concepts
- To visualize data and mathematical functions
- To prepare and process data for statistical analysis
- To familiarize multimedia techniques to demonstrate a problem or solution

**LEARNING OUTCOMES OF THE COURSE**

On successful completion of the course, students will be able to

- use software tools for implementing Mathematical and Statistical concepts
- understand data and mathematical functions
- demonstrate a situation through multimedia
- develop the ability to build and assess data for further analysis
- continue further studies in advanced R programming

**Unit 1 (13 Hours)**

**Microsoft Excel**

- 1.1 Building Basic Formula – Working with Charts – Pivot Table
- 1.2 Importing Data – Data Cleaning - Data Validation – Creating named ranges and constants
- 1.3 Form Controls
- 1.4 Working with macros and forms
- 1.5 Solver – Goal Seek

**Unit 2 (18 Hours)**

**Multimedia: GIMP**

- 2.1 GIMP Basics – Working with Images – Transformations: Global and Local
- 2.2 Drawing and Illustration – Logos and Textures
- 2.3 Animations – Animated Text – Using Animation Tools – Using GAP

**Unit 3 (15 Hours)**

**Mathematical Software: MATHCAD**

- 3.1 Creating Mathcad Worksheets: Working with Math, text regions
- 3.2 Computational Features: Calculations – Operators – Built-in functions – Vectors, Matrices and Data Arrays
- 3.3 Symbolic Calculations
- 3.4 Graphing: 2D plots and 3D plots

- Unit 4** **(16 Hours)**  
**Statistical Software: R**  
 4.1 Data Types in R – Numeric, Integer, Complex, Logical, Character, Vectors, Matrices & Arrays, Lists, Data Frames, Factors, Strings  
 4.2 Graphics using R – Pie Chart, Scatter Plot, Line Plot, Histograms, Box Plot, Bar Plot

- Unit 5** **(16 Hours)**  
**Statistical Analysis using R**  
 5.1 Mean, Median, Mode, Standard Deviation & Variation, Quartile Ranges  
 5.2 Normal Distribution and Binomial Distribution  
 5.3 Correlation Analysis and Regression Analysis  
 5.4 Analysis of Variance (ANOVA)  
 5.5 Chi Square Test and Hypothesis Testing

### BOOKS FOR STUDY & REFERENCE

Curtis, D. Frye. Microsoft Excel 2013, Step by Step. 2013.

Jason van Gumster Robert Shimonski, *GIMP Bible*, Wiley Publishing, 2010.

Larsen W Ronald, Introduction to Mathcad 13, New Jersey: Pearson Prentice Hall, 2007.

Olivier Lecarme, Karine Delvare, The Book of GIMP: A Complete Guide to Nearly Everything, No Starch Press, 2013.

Sudhamathy, Jothi Venkateswaran. R Programming – An Approach to Data Analytics. Chennai: MJP Publishers, 2018.

*User's Guide Mathcad 14*. USA: Parametric Technology Corporation, 2007.

### WEB RESOURCES

<https://www.engr.colostate.edu/ECE562/mathcad.pdf>  
<https://docs.gimp.org/2.10/en/>

### PATTERN OF ASSESSMENT

**Practical: 80%; Theory: 20%**

#### Continuous Assessment Test

**Total Marks: 50**

**Duration: 90 minutes**

Section A:  $10 \times 1 = 10$

Section B:  $2 \times 20 = 40$  (Three questions to be set)

#### Other Components:

**Total Marks: 50**

Quiz/Assignments/Problem Solving through software/Project

#### End Semester Examination:

Question paper to be prepared jointly by one course teacher and one internal–external examiner

**Total Marks: 100**

**Duration: 3 hours**

Section A:  $20 \times 1 = 20$  (Twenty questions to be set selecting at least three questions from each unit)

Section B:  $4 \times 20 = 80$  (Five questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**VECTOR SPACES AND LINEAR TRANSFORMATIONS**

**CODE: 19MT/MC/VL64**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- Intended to develop an understanding of linear algebraic structures
- To enable understanding of the concept of linear transformations and their matrix representation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- critically analyze and construct mathematical arguments that relate to the study of introductory linear algebra
- use computational techniques and algebraic skills essential for the study of systems of linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, orthogonality and diagonalization
- apply the theoretical results developed to obtain the least square curves to fit the data

**Unit 1 (13 Hours)**

**Vector Spaces**

- 1.1 General Vector Spaces and Subspaces
- 1.2 Linear Combinations
- 1.3 Linear Dependence and Independence
- 1.4 Properties of Bases

**Unit 2 (13 Hours)**

**Vector Spaces (contd.)**

- 2.1 Rank
- 2.2 Orthonormal Vectors and Projections
- 2.3 Gram-Schmidt Orthogonalization Process
- 2.4 Kernel, Range and the Rank-Nullity Theorem

**Unit 3 (13 Hours)**

**Transformations**

- 3.1 Matrix Transformations, Rotations and Dilations
- 3.2 One-to-One Transformations and Inverse Transformations
- 3.3 Transformations and Systems of Linear Equations

**Unit 4 (13 Hours)**

**Coordinate Representations**

- 4.1 Coordinate Vectors

- 4.2 Change of Basis
- 4.3 Matrix Representations of Linear Transformations
- 4.4 Importance of Matrix Representation
- 4.5 Diagonalization of Matrices
- 4.6 Diagonalization of Symmetric Matrices - Orthogonal Diagonalization
- 4.7 Diagonal Matrix Representation of a Linear Operator

**Unit 5 (13 Hours)**

**Inner Product Spaces**

- 5.1 Inner Product
- 5.2 Norm of a Vector
- 5.3 Orthogonal Vectors
- 5.4 Approximation of Functions and Coding Theory
- 5.5 Least Squares Curves

**BOOKS FOR STUDY**

Williams Gareth, *Linear Algebra with Applications* 6<sup>th</sup> Edition. New Delhi: Narosa, 2008.

Chapter 2: Section 2.5

Chapter 4: Sections 4.1 – 4.9

Chapter 5: Sections 5.1 – 5.3

Chapter 6: Sections 6.1, 6.3, 6.4

**BOOKS FOR REFERENCE**

Herstein, I. N., *Topics in Algebra* 2<sup>nd</sup> ed. New Delhi: Wiley, 2007, Reprint 2017

Lang Serge, *Algebra* 3<sup>rd</sup> Revised Ed. New Delhi: Springer International Edition, 2004.

Strang, Gilbert. *Linear Algebra and its Applications*, Fourth Edition. New Delhi: Cengage Learning India Pvt. Ltd., 2006.

Stroud, K.A., and Dexter J. Booth, *Linear Algebra*, New York: Industrial Press, 2008.

**WEB RESOURCES**

<http://www.math.ucla.edu/~tao/resource/general/115a.3.02f/GramSchmidt.html>

<http://www.math.ucla.edu/~tao/resource/general/115a.3.02f/EigenMap.html>

**PATTERN OF ASSESSMENT**

**Theory: 60%; Problems: 40%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:**

**Total Marks: 50**

Seminars

Quiz

Group Discussion

Assignments  
Problem Solving  
Theorem Writing Technique

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF COMPLEX ANALYSIS**

**CODE : 19MT/MC/CA65**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce the analysis of complex numbers
- To expose a fertile area of pure mathematics as a source of powerful technique that are widely applied in sciences and advanced Engineering mathematics

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate understanding of the basic concepts in complex analysis
- understand the importance of analytic functions in applications to the field of sciences and advanced Engineering
- apply conformal mapping in solving boundary value problems
- apply the methods of complex analysis to evaluate definite integrals and infinite series

**Unit 1 (15 Hours)**

**Analytic Functions**

- 1.1 Functions of a complex variable
- 1.2 Continuity
- 1.3 Derivatives
- 1.4 Cauchy-Riemann Equations
- 1.5 Sufficient Conditions for Differentiability
- 1.6 Polar Coordinates
- 1.7 Analytic Functions
- 1.8 Harmonic Functions
- 1.9 Harmonic conjugates

**Unit 2 (15 Hours)**

**Elementary Functions**

- 2.1 The Exponential Function
- 2.2 The Logarithmic Function
- 2.3 Branches and Derivatives of Logarithms

**Mapping by Elementary Functions**

- 2.4 Linear Transformations

- 2.5 The Transformation  $w = \frac{1}{z}$
- 2.6 Linear Fractional Transformations
- 2.7 An Implicit Form
- 2.8 Mappings of the Upper half plane
- 2.9 The Transformation  $w = \sin z$

**Unit 3**

**Integrals**

**(16 Hours)**

- 3.1 Cauchy-Goursat Theorem
- 3.2 Simply Connected Domains
- 3.3 Multiply Connected Domains
- 3.4 Cauchy Integral Formula
- 3.5 An Extension of the Cauchy Integral Formula
- 3.6 Some Consequences of the Extension
- 3.7 Liouville's Theorem and the Fundamental Theorem of Algebra
- 3.8 Maximum Modulus Principle

**Unit 4**

**Conformal Mapping**

**(16 Hours)**

- 4.1 Preservation of Angles
- 4.2 Scale Factors
- Applications of Conformal Mapping**
- 4.3 Two-dimensional Fluid Flow
- 4.4 The Stream Function
- 4.5 Flows Around a Corner and Around a Cylinder

**Series**

- 4.6 Taylor Series
- 4.7 Laurent Series

**Unit 5**

**Residues and Poles**

**(16 Hours)**

- 5.1 Isolated Singular Points
- 5.2 Residues
- 5.3 Cauchy's Residue Theorem
- 5.4 Residue at Infinity
- 5.5 The Three Types of Isolated Singular Points
- 5.6 Residues at Poles
- 5.7 Zeros of Analytic Functions
- 5.8 Zeros and Poles

**Applications of Residues**

- 5.9 Evaluation of Improper Integrals

- 5.10 Definite Integrals Involving Sines and Cosines
- 5.11 Argument Principle
- 5.12 Rouché's Theorem

### **BOOKS FOR STUDY**

Brown J.W. and R.V. Churchill. *Complex Variables and Applications*. New York: McGraw Hill Education, International Edition 1990, Eleventh reprint 2018.

- Chapter 2 Sections 12, 18, 19, 21 - 26
- Chapter 3 Sections 29 - 31
- Chapter 4 Sections 46 - 54
- Chapter 5 Sections 57 - 62
- Chapter 6 Sections 68 – 75, 76 (Concepts and problems only)
- Chapter 7 Sections 78, 79, 85 - 87
- Chapter 8 Sections 90 - 96
- Chapter 9 Sections 101, 102, 104
- Chapter 10 Sections 113 - 115 (Concepts and examples only)

### **BOOKS FOR REFERENCE**

Arumugam S., A.T. Issac, and A. Somasundaram. *Complex Analysis*. Chennai: Scitech, 2001 Reprint 2019.

Dennis G Zill, *First Course in Complex Analysis With Applications*, Second Edition, Jones and Bartlett, 2010.

Erwin Kreyszig, *Advanced Engineering Mathematics*, Eighth Edition, New Delhi: Wiley India (P) Ltd., 2006.

John H Mathews, *Complex Analysis for Mathematics and Engineering*, New Delhi: Narosa, 2006.

Karunakaran,V, Desai A.R, *Complex analysis*, New Delhi: Narosa, New Delhi, 2005.

### **WEB RESOURCE**

[http://www.malinc.se/math/geogebra/complex\\_numbersen.php](http://www.malinc.se/math/geogebra/complex_numbersen.php)

## **PATTERN OF ASSESSMENT**

**Theory: 70% ; Problems: 30%**

**Continuous Assessment:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:            Total Marks: 50**

Seminars

Quiz

Problem Solving

Theorem Writing Technique

**End-Semester Examination:    Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF MECHANICS**

**CODE: 19MT/MC/PM65**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To understand the concept of different forces and moments and their equilibrium with reference to a coordinate system
- To widen appreciation of the variety of phenomena covered by mechanics and the techniques available to handle them
- To provide an adequate foundation for further self-study

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the concepts of Statics and Dynamics applicable in real life
- have acquired wide knowledge of handling problems related to Mechanics
- have acquired sufficient knowledge for further studies in Mechanics at a higher level

**Unit 1**

**(16 Hours)**

**Forces acting on a Particle – Concurrent Forces**

- 1.1 Forces
- 1.2 Types of Forces
- 1.3 Parallelogram Law of Forces
- 1.4 Triangle Law of Forces
- 1.5 Polygon Law of Forces
- 1.6 Lami's Theorem
- 1.7 Conditions of Equilibrium of any Number of Forces Acting on a Particle

**Unit 2**

**(17 Hours)**

**Non-Concurrent Coplanar Forces**

- 2.1 Moment of a Force about a Point and a Line
- 2.2 Parallel Forces
- 2.3 Varignon's Theorem
- 2.4 Couples
- 2.5 Properties of Couples
- 2.6 Coplanar Forces
- 2.7 Reduction of any Coplanar System of Forces
- 2.8 Conditions of Equilibrium
- 2.9 Equilibrium of Three Forces Acting on a Rigid Body

**Unit 3 (15 Hours)**  
**Friction**

- 3.1 Laws of Static Friction
- 3.2 Coefficient of Friction
- 3.3 Angle of Friction
- 3.4 Cone of Friction
- 3.5 Law of Kinetic Friction
- 3.6 Equilibrium of a Particle on an Inclined Plane
- 3.7 Condition for Sliding and Toppling

**Unit 4 (16 Hours)**  
**Equilibrium of Strings and Chains**

- 4.1 Equilibrium of Strings and Chains
- 4.2 Common Catenary
- 4.3 Suspension Bridge

**Linear Motion in a Resisting Medium**

- 4.4 Equations of Motion of a Particle Falling under Gravity in a Resisting Medium under Law of Resistance  $mkv$ ,  $mkv^2$
- 4.5 Limiting Velocity

**Unit 5 (15 Hours)**  
**Rigid Body Dynamics**

- 5.1 Moment of Inertia
- 5.2 Theorem of Parallel and Perpendicular Axes (statements only)
- 5.3 Moment of Inertia of Simple Standard Bodies
- 5.4 Motion of a Rigid Body
- 5.5 Rotation about a Fixed Axis
- 5.6 Expressions for Kinetic Energy
- 5.7 Angular Momentum
- 5.8 Equation of Motion

**BOOKS FOR STUDY**

Dharmapadam A.V. *Statics*, Chennai: S. Viswanathan, 2006.

- |           |                                  |
|-----------|----------------------------------|
| Chapter 1 | Sections 1.1 – 1.3               |
| Chapter 2 | Sections 2.1 – 2.10, 2.12 – 2.14 |
| Chapter 3 | Sections 3.1 – 3.8               |
| Chapter 5 | Section 5.1 – 5.3                |

Dharmapadam A.V. *Dynamics*, Chennai: S. Viswanathan, 2006.

- |                              |                                 |
|------------------------------|---------------------------------|
| Chapter 8                    | Section 8.1, 8.2, 8.5, 8.6, 8.7 |
| Appendix II and Appendix III |                                 |

**BOOKS FOR REFERENCE**

Pandit Ashok S. *Mechanics*. New Delhi: Narosa, 2001.

Duraipandian P, Laxmi Duraipandian, Muthamizh Duraipandian, *Mechanics*, New Delhi: S.Chand, 2018

Raisinghania M.D., *Dynamics*, New Delhi: S. Chand, 2006.

Vittal P.R., *Statics*, Margham Publications, Chennai, 2008.

Kakani, S.L., *Mechanics*, New Delhi: Viva, 2005.

Hans H.S., *Mechanics*, New Delhi: Tata McGraw, 2003.

## WEB RESOURCES

<https://physics.gurumuda.net/moment-of-force-problems-and-solutions.htm>

[https://www.iit.edu/arc/workshops/pdfs/Moment\\_Inertia.pdf](https://www.iit.edu/arc/workshops/pdfs/Moment_Inertia.pdf)

<http://www.physicsclassroom.com/class/newtlaws/Lesson-2/Types-of-Forces>

## PATTERN OF ASSESSMENT

**Theory: 50%; Problems: 50%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving/  
Exhibition

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE BRANCH I - MATHEMATICS**

**SYLLABUS**

**(Effective from the academic year 2019-2020)**

**OPTIMIZATION TECHNIQUES**

**CODE: 19MT/ME/OT45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To formulate linear programming problem for simple mathematical models
- To develop mathematical skills to analyse and solve linear programming and network models arising from a wide range of applications

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- develop a general understanding of the Operations Research methodology to decision making
- identify best techniques to solve a specific problem in linear model of OR
- gain knowledge to apply CPM and PERT techniques, to plan, schedule, and control project activities.

**Unit 1 (14 Hours)**

**Linear Programming**

- 1.1 Formulation of Linear Programming Problems
- 1.2 Graphical Method of Solution
- 1.3 Canonical and Standard Form
- 1.4 Simplex Method
- 1.5 Artificial Variable Technique: Big-M Method

**Unit 2 (14 Hours)**

**Duality in LPP**

- 2.1 Formulation of Dual LPP
- 2.2 Characteristics of the Dual Problem
- 2.3 Primal-Dual Optimal Solutions

**Transportation Model**

- 2.4 Introduction and assumptions to the Model
- 2.5 Matrix Terminology
- 2.6 Formulation and Solution of Transportation Model
  - Least Cost method
  - Vogel's Approximation method
  - MODI's Optimality Test
- 2.7 Variants in Transportation Problems

**Unit 3 (12 Hours)**

**Assignment Model**

- 3.1 Formulation and Solution of the Assignment Models
- 3.2 Mathematical Representation of Assignment Models



- 3.3 Comparison with Transportation Model
- 3.4 Hungarian Method for Solution of the Assignment Problems
- 3.5 Travelling Salesman Problem
- Sequencing Models and Related Problems**
- 3.6 Sequencing Problems – Assumptions in Sequencing Problems
- 3.7 Processing  $n$  Jobs through One Machine (SPT rule only)
- 3.8 Processing  $n$  Jobs through Two Machines

**Unit 4 (13Hours)**

**Theory of Games**

- 4.1 Theory of Games
- 4.2 Characteristics of Games
- 4.3 Game Models – Definitions
- 4.4 Rules for Game Theory
  - 4.4.1 Rule 1: Look for a Pure Strategy
  - 4.4.2 Rule 2: Reduce Game by Dominance
  - 4.4.3 Rule 3: Solve for a Mixed Strategy
- 4.5 Mixed Strategies ( $2 \times 2$  Games) – Mixed Strategies ( $2 \times n$  games or  $m \times 2$  games)

**Unit 5 (12 Hours)**

**Network Analysis in Project Planning**

- 5.1 Project – Project Planning – Project Scheduling – Project Controlling
- 5.2 W.B.S. – Basic Tools and Techniques of Project Management
- 5.3 Role of Network Techniques in Project Management
- 5.4 Network Logic-Numbering the Events
- 5.5 Activity on Node Diagram
- 5.6 Merits and Demerits of AON Diagram
- 5.7 Critical Path Method: Measure of Activity – Time Units
- 5.8 Critical Path Analysis
- 5.9 The Three Floats. PERT: Time Estimates
- 5.10 Frequency Distribution Curve for PERT – Probability of Completing the Whole Project by a given Time

**BOOK FOR STUDY**

Gupta, Premkumar and Hira D.S. *Operations Research*, New Delhi: S.Chand, 2007.

Chapter 2	Section 2.6, 2.9 – 2.14, 2.16 – 2.17.1
Chapter 3	Section 3.1 – 3.6
Chapter 4	Section 4.1 – 4.3, 4.5 – 4.7, 4.10
Chapter 5	Section 5.1 – 5.4
Chapter 6	Section 6.1 – 6.2 (Exclude 6.1-3)
Chapter 9	Section 9.10 – 9.19
Chapter 14	Section 14.1 – 14.13

**BOOKS FOR REFERENCE**

Ackoh R.L, *Fundamentals of Operations Research*, New Delhi: Vikas, 1984.

Panneerselvam, R. *Operations Research*. New Delhi : Prentice-hall, 2002.

Ravindran, A., Don. T. Phillips, and James J. Solberg. *Operations Research-Principles and Practice*. 2<sup>nd</sup> ed. New York: John Wiley, 1987.

Richard Bronson, Govindaswami Naadimuthu, *Schaum's Outlines Operations Research*  
New Delhi : Tata McGraw Hill, 2011.

Swarup Kanti, Gupta P.K., Man Mohan, *Operations Research*, New Delhi: Sultan Chand, 2009.

## WEB RESOURCES

<https://www.pitt.edu/~jrclass/or/or-intro.html>

<http://www.businessmanagementideas.com/personnel-management/operation-research/operation-research-definition-scope-and-techniques/6556>

<https://nptel.ac.in/courses/110104073/24>

## PATTERN OF ASSESSMENT

**Theory: 20% ; Problems: 80%**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                                      Total Marks: 50**

Seminars/Quiz/Project/Assignments/Problem Solving

**End-Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH – I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT**

**19MT/ME/PR45**

**CREDITS : 5**

**PREPARATION OF PROJECT**

The project shall contain around 25 pages and shall be typed with double spacing.  
The format is as follows:

1. Cover page shall contain
  - a) Title of the project
  - b) Project submitted at the elective level for the B.Sc. Degree course in the IV semester
  - c) Name of the Candidate  
Department number
  - d) Department of Mathematics  
Stella Maris College (Autonomous), Chennai – 600 086
  - e) Month, Year
2. The project shall contain
  - a) Contents page
  - b) At least 2 chapters including an introductory chapter (comprising motivation, basic concepts needed / used in the project and outline of the project)
  - c) Conclusions / interpretations arrived at may be given at the end of each problem in the chapter concerned
  - d) List of figures / list of abbreviations (if needed) shall be given as an appendix
  - e) Bibliography shall be given in alphabetical order at the end in MLA format
3. Each candidate may prepare 3 copies of the project, one copy for her and submit 2 copies to the Head of the department before the commencement of the fourth semester examination.
4. The candidate may be advised that the project will be valued based on the criteria of
  - a) Motivation towards the chosen area
  - b) formulation of the problem
  - c) Methodology, analysis, logic and reasoning
  - d) Capacity to interpret the results obtained
5. Internal Assessment will be based on Drafts I and II during the semester

6. The Controller of Examination is requested to arrange for the valuation of the Project as well as the conduct of the Viva – Voce at the college where the candidates take examinations, within two weeks of the last date of examination for B.Sc. degree. The panel of examiners will consist of an internal-external examiner and the Supervisor.
- The guidelines for the Viva-Voce examiners would be that
- a) They will satisfy themselves that this is a work of the candidate as certified by the department
  - b) The project is in the given format and
  - c) The candidate has clear understanding of the concepts, discussed in the project.

The department should certify as follows:

This is to certify that the project in the broad area \_\_\_\_\_ titled \_\_\_\_\_ is submitted by \_\_\_\_\_ at the elective level for the degree of Bachelor of Science (Mathematics) during the year \_\_\_\_\_

sd/  
Head of the Department

sd/  
Supervisor

**PATTERN OF ASSESSMENT: (Totally Internal - No End semester Examination)**

Total marks: 100 marks

**Continuous Assessment:**

Project : 25 marks

Draft I

Drafts II

**External Evaluation:**

Project (Final) : 50 marks

Viva-Voce : 25 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH – I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ELEMENTS OF SPACE SCIENCE**

**CODE: 19MT/ME/ES45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To explore the new vistas of the universe governed by mathematics
- To visualize application of mathematics in space science

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- acquire the knowledge of the concepts governed by mathematics to the universe
- visualize the real time application of mathematics in space science
- spot the celestial bodies in the sky by naked eye / binoculars / telescopes

**Unit 1**

**Spherical Trigonometry**

**(12 Hours)**

- 1.1 Spherical Trigonometry
- 1.2 Spherical Triangle- Polar Triangle -Definition
- 1.3 Some properties of spherical triangles
- 1.4 Relations between the Sides and Angles of a Spherical Triangle- Cosine, sine, cotangent Formula, Supplemental cosine Formula, Five Parts Formula, Napier's Formula (statements only)
- 1.5 Napier's analogies
- 1.6 Napier's Rules
- 1.7 Simple worked examples based on the concepts only

**The Earth**

- 1.8 Dip of Horizon and effects of Dip
- 1.9 Twilight-Duration of Twilight – Civil, Nautical and Astronomical Twilights

**Unit 2**

**(11 Hours)**

**Celestial Sphere, Diurnal Motion**

- 2.1 Celestial Sphere, Diurnal Motion- Celestial axis, Celestial Equator - Celestial Horizon, Celestial Meridian
- 2.2 Cardinal points - Declination circles – Verticals – Parallactic angle
- 2.3 Annual motion of the sun – First point of Aries and first point of Libra
- 2.4 Celestial Co-ordinates
- 2.5 To Represent the Different System of Coordinates in the Same Figure
- 2.6 To find the Relation between Right Ascension and Longitude of the Sun
- 2.7 To find the Longitude of Sun on any Day
- 2.8 Latitude of a place
- 2.9 To find the Right Ascension and Declination of a Body

- 2.10 To find the Hour Angle of a Body at Rising or Setting
- 2.11 Morning and evening stars – Circumpolar stars

**Unit 3 (13 Hours)**

**Refraction**

- 3.1 Astronomical refraction - General effects of refraction
- 3.2 To find the Effect of Refraction on the Right Ascension and Declination of a Star
- 3.3 Horizontal Refraction – Effect of Refraction on Dip and Distance of Visible Horizon, Influence of Temperature and Pressure of Atmosphere on Refraction
- 3.4 Simple worked examples

**Geocentric parallax**

- 3.5 Geocentric Parallax – Effects of geocentric parallax
- 3.6 Changes in Right Ascension and Declination of a Body due to Geocentric Parallax, Effect of Geocentric Parallax on the Rising and Setting of a Celestial Body
- 3.7 Angular Diameter-To find relation between horizontal parallax and angular radius of a body
- 3.8 Geocentric Parallax and Refraction compared - Equatorial Horizontal Parallax
- 3.9 Simple worked examples

**Heliocentric parallax**

- 3.10 Heliocentric Parallax (concept only) - Effect of heliocentric parallax

**Aberration**

- 3.11 Aberration of a Star - Effect of Aberration, Comparison of Aberration and Stellar Parallax, Different kinds of Aberration

**Unit 4 (13 Hours)**

**Kepler's Laws**

- 4.1 Kepler's laws of planetary motion
- 4.2 To Calculate the Eccentricity of the Earth's Orbit around the Sun
- 4.3 Verification of Kepler's law - Newton's deduction from Kepler's laws, To derive Kepler's third law from Newton's law of gravitation
- 4.4 To find the mass of a planet

**Eclipse**

- 4.5 Lunar eclipse – Solar eclipse
- 4.6 Condition for the Occurrence of Lunar and Solar Eclipse
- 4.7 Ecliptic Limits - Maximum and Minimum Number of Eclipses near the Node of Lunar Orbit, Maximum Number of Eclipses in a Year
- 4.8 Eclipse Seasons - Effect of Refraction on a Lunar Eclipse – Importance of total solar eclipse
- 4.9 Occultations

**Planetary Phenomena**

- 4.10 Elongation of a planet
- 4.11 Direct and Retrograde Motions of Planets (Geocentric motion of planets)
- 4.12 To find Positions of Two Planets when they are Stationary as seen from each other

**Unit 5 (11Hours)**

**Conversion of Time**

- 5.1 Relation between Sidereal Time and Mean Time
- 5.2 Conversion of Sidereal Time into Mean Solar Time and Vice versa

- 5.3 Standard times
- 5.4 The difference between local times
- 5.5 Simple worked examples based on the concepts only

### **Sky Observation**

**(5 Hours)**

- Stars and Constellations
- Moon
- Planets
- Eclipse (depends on the occurrence)
- Comets, Asteroids and Meteors

## **BOOKS FOR STUDY**

Kumaravelu S., Susheela Kumaravelu, *Astronomy*, Sivakasi: A. Bhaskara Selvan, 2005.

- Chapter 1 Sections 3, 7, 8, 13, 14, 17, 20 – 25, 29, 32
- Chapter 2 Sections 40 - 45, 49 - 53, 56, 57, 60 - 64, 66, 68, 72 - 76, 80, 81
- Chapter 3 Sections 106, 109, 111, 112, 116
- Chapter 4 Sections 119, 121, 124, 131, 133, 134
- Chapter 5 Sections 135 - 138, 141, 144, 145
- Chapter 6 Sections 146, 149, 150, 153-155
- Chapter 7 Sections 180-186
- Chapter 8 Sections 190, 191
- Chapter 9 Sections 195, 196, 202, 203
- Chapter 13 Sections 258, 259, 262, 267 - 269, 272, 273, 276, 279, 282, 284
- Chapter 14 Sections 285, 288, 289, 298, 299, 300, 301

John Scalzi, *The Rough Guide to Universe*, London: Rough Guides Ltd., 2003.  
(only for Sky Observation)

## **BOOKS FOR REFERENCE**

Bhatia, V.B., *Text Book of Astronomy and Astrophysics with elements of Cosmology*,  
New Delhi: Narosa, 2001.

Ramachandran, G.V., *A Text Book of Astronomy*, Madurai: Denobili, 1972.

Sidwick, *Introducing Astronomy*, London : Faber & Faber, 1957.

Smart, W.M., *Stellar Dynamics*, London : Cambridge, 1938.

Smart, W.M., *Some Famous Stars*, London : Orient Longman, 1956.

Smart, W.M., *A Text Book on Spherical Astronomy*, London : Cambridge, 1997.

## **WEB RESOURCES**

<http://www.skyandtelescope.com>

<https://twitter.com/skyandtelescope/>

<http://www.livescience.com/space/>

<http://www.universetoday.com/>

[http://www.sciencedaily.com/news/space\\_time/astronomy/](http://www.sciencedaily.com/news/space_time/astronomy/)

## **PATTERN OF ASSESSMENT**

**Theory: 80%; Problems: 20%**

**Continuous Assessment Test:           Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:**

**Total Marks: 50**

Quiz/Assignments/Presentation

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting at least two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NUMERICAL METHODS WITH PROGRAMS IN C**  
(Theory and Practical)

**CODE: 19MT/ME/NM45**

**CREDITS: 5**

**L T P: 4 0 2**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To expose the standard numerical techniques as a powerful tool in scientific computing
- To enhance the abilities of students to solve problems with the aid of computer

**PRE-REQUISITES**

Knowledge of C Programming

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the basic principles of scientific and engineering programming
- acquire knowledge of developing algorithms for matrix algebra, numerical solution of ordinary differential equations and for finding roots of non-linear equations
- efficiently use the techniques, skills, and computational skills to solve real time numerical problems

**Unit 1 (10 Hours)**

**Numerical Solutions of Algebraic and Transcendental Equations**

1.1 Bolzano's Bisection Method

1.2 Newton Raphson Method

**Iterative Methods of Solving Simultaneous Equations**

1.3 Jacobi's Method

1.4 Gauss Seidel Iteration Method

**Practical (6 Hours)**

1.5 C program to find the Smallest Positive Root / the Largest Negative Root of the equation  $f(x) = 0$  by using the Bisection Method and Newton Raphson Method

1.6 C program to solve a System of Linear Algebraic Equations using Gauss Jacobi's Iteration Method and Gauss Siedel Method

**Unit 2 (12 Hours)**

**Finite Differences**

2.1 Forward Differences

2.2 Backward Differences

2.3 Central Differences

### **Interpolation with Equal Intervals**

- 2.4 Gregory-Newton's Forward and Backward Interpolation Formulae
- 2.5 Central Difference Interpolation Formulae – Gauss Forward and Backward Interpolation Formulae, Stirling's Interpolation Formula

### **Interpolation with Unequal Intervals**

- 2.6 Lagrange's Interpolation Formula for Unequal Intervals

**Practical** (6 Hours)

- 2.7 C program to Interpolate and Extrapolate using the given pairs of values of  $x$  and  $y$  by Newton's Forward and Backward Interpolation Formulae
- 2.8 C program to Interpolate using the given pairs of values of  $x$  and  $y$  by Stirling's Central Difference Interpolation Formula
- 2.9 C program to Interpolate  $y$  using the given pairs of values of  $x$  and  $y$  by Lagrange's Interpolation Formula

**Unit 3** (10 Hours)

### **Numerical Differentiation**

- 3.1 Values of the Derivatives of  $y$  based on Newton's Forward and Backward Interpolation Formulae, Stirling's Formula
- 3.2 Second Order Derivatives of  $f(x)$  using Newton's Formulae - Maximum and Minimum Value of  $f(x)$

**Practical** (4 Hours)

- 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula

**Unit 4** (10 Hours)

### **Numerical Integration**

- 4.1 Newton Cote's Quadrature Formula
- 4.2 Trapezoidal Rule
- 4.3 Simpson's One Third Rule
- 4.4 Simpson's Three Eighth Rule

**Practical** (4 Hours)

- 4.5 C program to Evaluate  $\int_a^b f(x)dx$  numerically using Trapezoidal and Simpson's rule

**Unit 5** (10 Hours)

### **Application**

- 5.1 Numerical Solution to Ordinary Differential Equations
- 5.2 Euler's Method
- 5.3 Runge Kutta Method

**Practical** (6 Hours)

- 5.4 C program to Solve the Differential Equation  $\frac{dy}{dx} = f(x, y)$ ;  $y(x_0) = y_0$  at the Pivotal Points by Euler's Method
- 5.5 C program to Solve Simultaneous Differential Equations  $\frac{dy}{dx} = f(x, y, z)$ ;  $\frac{dz}{dx} = g(x, y, z)$ ;  $y(x_0) = y_0, z(x_0) = z_0$  at the specified pivotal points by using Runge Kutta Method of the Fourth Order

## BOOKS FOR STUDY

Veerarajan T. and Ramachandran T., *Numerical Methods*, New Delhi: McGraw Hill, 2019.  
Chapter 3: Sec. 3.2, 3.4  
Chapter 4: Sec. 4.5  
Chapter 5: Sec. 5.1 – 5.3  
Chapter 6: Sec. 6.1 – 6.7  
Chapter 7: Sec. 7.6  
Chapter 8: Sec. 8.1– 8.3, 8.28  
Chapter 10: Sec. 10.16

## BOOKS FOR REFERENCE

Gupta B.D., *Numerical Analysis*, New Delhi : Konark Publishers Pvt. Ltd, 2000.

Kamala R.S., Solairaj A., Ganesh S., Jansi Rani P.G., *Numerical Method*, Kumbakonam : Anuradha, 2003.

Kandasamy P.K., Thilgavathy K., Gunavathy, *Numerical Methods*, New Delhi: S. Chand 2006.

Venkatachalapathy S.G., *Calculus of Finite Differences and Numerical Analysis*, Chennai: Margham Pub., 2003.

## WEB RESOURCES

<https://numericalmethodstutorials.readthedocs.io/en/latest/>  
<https://www.sanfoundry.com/c-program-solve-linear-equation-one-variable/>  
<https://nptel.ac.in/courses/122106033/>

## PATTERN OF ASSESSMENT

**Derivation: 20%; Problems 80%**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**  
**Theory: (45 minutes)**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

**Practical: (45 Mins.)**

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**  
Seminars/Assignments/Problem Solving /Program Writing Technique

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**  
**Theory: (90 minutes)**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

**Practical: (90 minutes)**

Section C:  $2 \times 20 = 40$  (Three questions to be set)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the Department of Mathematics  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**THE FASCINATING WORLD OF MATHEMATICS**

**CODE: 19MT/GE/WM22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To introduce some Indian Mathematicians and their contributions
- To understand Mathematics through puzzles and paradoxes
- To cite a few real life applications through Mathematical models

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have acquired knowledge of some Indian Mathematicians and their contributions
- understand Mathematics through puzzles and paradoxes
- visualize a few real life applications through Mathematical models

**Unit 1**

**(10 Hours)**

**Some Indian Contributors to Mathematics**

- 1.1 Baudhayana
- 1.2 Aryabhata
- 1.3 Bhaskara I
- 1.4 Shridhara
- 1.5 Bhaskara II
- 1.6 Srinivasa Ramanujan
- 1.7 A.A. Krishnaswami Ayyangar
- 1.8 Ramaswamy S. Vaidyanathaswamy
- 1.9 Alladi Ramakrishnan
- 1.10 P.C. Mahalanobis
- 1.11 C. R. Rao
- 1.12 Harish Chandra
- 1.13 C. S. Seshadri
- 1.14 Sakunthala Devi
- 1.15 S. R. Srinivasa Varadhan
- 1.16 R. Parimala
- 1.17 Other Contemporary Mathematicians

**Unit 2**

**(9 Hours)**

**Mathematical Puzzles and Paradoxes**

- 2.1 Magic Squares
- 2.2 Sleeping Beauty Puzzle

- 2.3 Monty Hall Probability Puzzle
- 2.4 Crossword
- 2.5 Number Puzzles by Shakuntala Devi
- 2.6 Missing Square Paradox
- 2.7 Potato Paradox
- 2.8 Zeno's Paradox
- 2.9 Necktie Paradox
- 2.10 Three Prisoner's Paradox
- 2.11 Boy or Girl Paradox
- 2.12 Sorites Paradox
- 2.13 Elevator Paradox
- 2.14 Barber's Paradox

### Unit 3

(7 Hours)

#### Project

- 3.1 Mathematical Model – Applications of Mathematics in real life

### BOOKS FOR STUDY AND REFERENCE

Anne Rooney, *The Story of Mathematics*, China: Arcturus, 2008.

George Gheverghese Joseph, *The Crest of the Peacock Non-European Roots of Mathematics*, Chennai: East-West, 1990.

Kapur J.N., *IXOHOXI*, New Delhi: Mathematical Sciences Trust Society, 1998.

Kapur J.N., *Mathematical Games for All*, New Delhi: Mathematical Sciences Trust Society, 1998.

Kapur J.N., *Some Eminent Indian Mathematicians of Twentieth Century*, New Delhi: Mathematical Sciences Trust Society, 1994.

Ye.I.P. Perelman, *Mathematics can be Fun*, Mir Publishers Moscow: 1973, English Translation, 1985.

Shakuntala Devi, *Puzzle to puzzle you*, New Delhi: Orient Paperbacks, 1976, 45<sup>th</sup> Edition, 2014.

Shakuntala Devi, *Figuring – The Joy of Numbers*, New Delhi: Orient Paperbacks, 1986.

### WEB RESOURCE

[www.samloyd.com](http://www.samloyd.com), Mathematical puzzles of Sam Loyd.

### PATTERN OF ASSESSMENT: (Totally Internal)

**Theory: 20%; Problem: 80%**

**Continuous Assessment Test: Total Marks: 25 marks Duration: 40 minutes**

Section A:  $5 \times 2 = 10$  marks (Choose five from six questions)

Section B:  $3 \times 5 = 15$  marks (Choose three from five questions)

**Other Components: Total marks: 25**

Quiz/Assignment/Problem Solving

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

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**SYLLABUS**

(Effective from the academic year 2019-2020)

**CELESTIAL WONDERS**

**CODE:19MT/GE/CW22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS : 26**

**OBJECTIVES OF THE COURSE**

- To give insight into astronomy and familiarize with the recent events in space
- To introduce feature of planet, sun, moon and stellar universe

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- acquire some basic knowledge in astronomy
- have understood feature of planet, sun, moon and stellar universe
- explore and study the recent events in space

**Unit 1 (9 Hours)**

**Celestial Sphere and Diurnal Motion**

- 1.1 Celestial Sphere
- 1.2 Diurnal Motion – Celestial Axis and Equator
- 1.3 Celestial Horizon
- 1.4 Zenith and Nadir - Celestial Meridian
- 1.5 Cardinal Points - Different Hemispheres
- 1.6 Visible and Invisible Hemispheres
- 1.7 Declination Circles, Verticals
- 1.8 Rising and Setting
- 1.9 Transit or Culmination
- 1.10 Annual Motion of the Sun – First point of Aries, First point of Libra, Equinoxes and solstices
- 1.11 Circumpolar Stars

**Unit 2 (9 Hours)**

**The Stellar Universe**

- 2.1 The Milky Way Galaxy
- 2.2 Zodiacal Constellations
- 2.3 Stars – Double Stars, Multiple Stars and Variable Stars

**Planetary Phenomena**

- 2.4 Direct Motion and Retrograde Motion
- 2.5 Stationary Points

**The Solar System**

- 2.6 Sun, Planets, Comets, Meteors and Meteoroids

- 2.7 Astronomical Seasons on Earth
- 2.8 Celestial Calendar
- 2.9 Space Probes

### Unit 3

(8 Hours)

#### Moon and Eclipses

- 3.1 Elongation - Conjunction, Opposition, Quadratures.
- 3.2 Daily Motion of the Moon - Age of Moon
- 3.3 Phase of Moon (definition only) - Successive Phases of Moon
- 3.4 Moon Exhibits the Same Side to the Earth
- 3.5 Surface Structure of Moon
- 3.6 The Tides - Tsunami.
- 3.7 Types of Eclipses – Lunar and Solar Eclipse (no derivations), Duration of a Solar Eclipse
- 3.8 Importance of Total Solar Eclipses
- 3.9 Comparison of Solar and Lunar Eclipses

#### Observation and Visit to Planetarium

**Observation in College:** Sun spots, planets, meteors, constellations, moon and its craters, comets and eclipses

### BOOKS FOR STUDY AND REFERENCE

Kumaravelu S., Susheela Kumaravelu, *Astronomy*. Sivakasi: A.Bhaskara Selvan, Revised and Enlarged Edition 2005, Reprint 2009.

Bhatia, V.B, *Text Book of Astronomy and Astrophysics with elements of Cosmology*. New Delhi: Narosa, 2001.

### WEB RESOURCES

Newsletter: <http://www.skyandtelescope.com> & <https://twitter.com/skyandtelescope>  
*National Aeronautics and Space administration*. News and features about NASA research.  
 Newsletter

<http://www.ndtv.com/topic/national-aeronautics-and-space-administration>.

<http://www.nasa.gov/news/index.html>

<http://www.livescience.com/space/>

<http://www.universetoday.com/>

<http://abcnews.go.com/Technology/Space>

[http://www.sciencedaily.com/news/space\\_time/astronomy/](http://www.sciencedaily.com/news/space_time/astronomy/)

### PATTERN OF ASSESSMENT: (Totally Internal)

**Theory: 20%; Problem: 80%**

**Continuous Assessment Test: Total Marks: 25 marks Duration: 40 minutes**

Section A :  $5 \times 2 = 10$  marks (Choose five from six questions)

Section B :  $3 \times 5 = 15$  marks (Choose three from five questions)

**Other Components: Total marks: 25**

Quiz/Assignment/Problem Solving

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

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**SYLLABUS  
(Effective from the academic year 2019-2020)**

**AUTOMATA**

**CODE : 19MT/GE/AM22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To familiarize students with the foundations and principles of theory of computations
- To introduce an abstract model of a computer with an exposure to applications of Automata theory

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the connection between language and computations
- analyze the computational strength of machines
- recognize applications of Automaton

**Unit 1 (10 Hours)**

**Introduction to the Theory of Computation**

- 1.1 Mathematical preliminaries and notations, Sets, Functions and Relations
- 1.2 Graphs and Trees, Proof Techniques
- 1.3 Three Basic Concepts
- 1.4 Languages, Grammars and Automata
- 1.5 Some Applications

**Finite Automata**

- 1.6 Deterministic Finite Accepters
- 1.7 Deterministic Accepters and Transition Graphs
- 1.8 Languages and Dfas, Regular Languages
- 1.9 Nondeterministic Finite Accepters, Definition of a NDA
- 1.10 Why Nondeterminism?

**Unit 2 (8 Hours)**

**Regular Languages and Regular Grammars**

- 2.1 Regular Expressions
- 2.2 Languages Associated with RE
- 2.3 RE Denote RL , RE for RL
- 2.4 RG, Right- and Left-Linear Grammars

**Context Free Languages**

- 2.5 Context Free Grammar
- 2.6 Left Most and Right Most Derivations



**Unit 3****(8 Hours)****Project**

- 3.1 Application of Finite Automata and Formal Language
- 3.2 Design of Vending Machine
- 3.3 Document Language Design
- 3.4 Cryptography
- 3.5 DNA Computing

**BOOK FOR STUDY**

Peter Linz, *An Introduction to Formal Languages and Automata*, 3<sup>rd</sup> Edition. New Delhi: Narosa Publishing House, 2005.

**BOOKS FOR REFERENCE**

Rani Siromoney, *Formal Languages and Automata*. Madras: The Christian Literature Society, 1974.

Behera, Nayak and Pallnayakan, *Formal Languages and Automata Theory*. New Delhi: Vikas, 2014.

Kamala Krithivasan and Rama. R., *Introduction to Formal Languages, Automata Theory and Computation*, Chennai: Pearson, 2009.

**WEB RESOURCE**

<http://www.iitg.ernet.in/dgoswami/Flat-Notes.pdf>  
<https://www.ics.uci.edu/~goodrich/teach/cs162/notes/>  
<https://cs.stanford.edu/people/eroberts/courses/soco/projects/2004-05/automata-theory/apps.html>  
<http://www.sti.uniurb.it/aldini/publications/lfga.pdf>

**PATTERN OF ASSESSMENT: (Totally Internal)****Theory 20%; Problem 80%****Continuous Assessment Test:                      Total Marks: 25 marks                      Duration: 40 minutes**Section A :  $5 \times 2 = 10$  marks (Choose five from six questions)Section B :  $3 \times 5 = 15$  marks (Choose three from five questions)**Other Components:                                      Total marks: 25**

Quiz/Assignment/Problem Solving

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the department of Mathematics  
to students of B A. / B.Sc. / B.V.A. / B.Com. /B.B.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BASIC MATHEMATICS**

**CODE : 19MT/GE/BM22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**ELGIBILTY CRITERION**

Offered to those who had not studied Mathematics or Business Mathematics in their secondary level of education

**OBJECTIVES OF THE COURSE**

- understand some advances in Matrices
- familiarize the basics of Differentiation and Integration
- learn further theory of equations

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have acquired some advanced knowledge in Matrices
- have understood basics of Differentiation and Integration
- explore further in the theory of equations

**Unit 1 (8 Hours)**

**Matrices**

- 1.1 Matrices-Elementary Concepts
- 1.2 Evaluation of Determinant of a square matrix
- 1.3 Types of Matrices-Sum and product of Matrices
- 1.4 Inverse of a square matrix of order 2 and order 3
- 1.5 Rank of Matrix

**Unit 2 (10 Hours)**

**Theory of Equations**

- 2.1 Relation between roots and coefficients
- 2.2 Solution of equations under simple given conditions
- 2.3 Formation and solution of equations with imaginary and surd roots

**Unit 3 (8 Hours)**

**Differential and Integral Calculus**

- 3.1 Differential coefficient of  $f(x)$  with respect to  $x$  - rules for differentiation
- 3.2 Differential coefficient of standard functions
- 3.3 Integration as the inverse process of differentiation
- 3.4 Integration of standard functions

## BOOKS FOR STUDY AND REFERENCE

Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. *Algebra Vol. II*. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.

Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. *Algebra Vol. I*. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.

Venkataraman M.K., Manorama Sridhar, *Classical Algebra and Trigonometry*. Chennai: Sivasankar, 2001

Narayanan S., and T.K. Manicavachgam Pillay, *Ancillary Mathematics: Book II*. Chennai: S. Vishwanthan printers and publishers Pvt. Ltd., 2004 .

Narayanan S., R. Hanumantha Rao, T.K. Manicavachgam Pillay, and P. Kandaswamy. *Ancillary Mathematics Vol. I* Chennai : S.Vishwanthan printers and publishers Pvt. Ltd., 2007.

## PATTERN OF ASSESSMENT: (Totally Internal)

**Theory 20%; Problem 80%**

**Continuous Assessment Test:                      Total Marks: 25                      Duration:40 minutes**

Section A :  $5 \times 2 = 10$  marks (Choose five from six questions)

Section B :  $3 \times 5 = 15$  marks (Choose three from five questions)

**Other Components:                      Total marks: 25**

Quiz/Assignment/Problem Solving

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH – I – MATHEMATICS**

**SYLLABUS**

**(Effective from the academic year 2019 -2020)**

**COMBINATORICS**

**CODE: 19MT/UI/CO23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To introduce the concepts of permutations and combinations
- To introduce the notion of ordinary and exponential generating functions and to study recurrence relations

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- apply diverse counting strategies to solve varied problems involving combinations and permutations
- compute a generating function and apply them to combinatorial problems
- demonstrate competence to set up and solve recurrence relation

**Unit 1**

**Basic Tools**

- 1.1 The Sum Rule and the Product Rule
- 1.2 Permutations and Combinations
- 1.3 The Pigeonhole Principle
- 1.4 Solved Problems
  - 1.4.1 The Sum Rule and Product Rule
  - 1.4.2 Permutations and Combinations
  - 1.4.3 The Pigeonhole Principle
  - 1.4.4 Ramsey Numbers

**Unit 2**

**Further Basic Tools**

- 2.1 Generalized Permutations and Combinations
- 2.2 Sequence and Selections
- 2.3 The Inclusion – Exclusion Principle

**Unit 3**

**Further Basic Tools (contd.)**

- 3.1 Solved Problems
  - 3.1.1 Generalized Permutations and Combinations
  - 3.1.2 Sequence and Selections
  - 3.1.3 The Inclusion – Exclusion Principle

**Unit 4**

**Generating Functions and Recurrence Relations**

- 4.1 Ordinary and Exponential Generating Functions

- 4.2 Partitions of a Positive Integer
- 4.3 Recurrence Relations

## Unit 5

### Generating Functions and Recurrence Relations (contd.)

#### 5.1 Solved Problems

- 5.1.1 Ordinary Generating Functions
- 5.1.2 Partitions of Integer and Their Generating Functions
- 5.1.3 Exponential Generating Functions

## BOOKS FOR STUDY

Balakrishnan V.K., *Schaum's Outlines COMBINATORICS including concepts of Graph Theory*, New Delhi: Tata McGraw-Hill, 2005.

## BOOKS FOR REFERENCE

Cohen Daniel J.A. *Basic Techniques of Combinatorial Theory*, New York : North-eastern University. John Wiley, 1978

Krishnamurthy. V., *Combinatorics – Theory and Applications*, New Delhi: Affiliated East West Press, 1989.

Chandrasekharaiah D.S., *Graph Theory and Combinatorics*, Chennai: Prism, 2005

## WEB RESOURCE

<https://mathigon.org/world/Combinatorics>  
<https://brilliant.org/wiki/ramsey-theory/>  
[https://www.whitman.edu/mathematics/cgt\\_online/book/section03.02.html](https://www.whitman.edu/mathematics/cgt_online/book/section03.02.html)  
<https://www.coursera.org/lecture/analysis-of-algorithms/exponential-generating-functions-WpbNx>

## PATTERN OF ASSESSMENT

**Theory: 40% ; Problems: 60%**

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROGRAMME LEARNING OUTCOMES**

**On Completion of this programme, students will be able to**

- Demonstrate proficiency in solving problems using logical thinking
- use software to visualize mathematical concepts
- interpret problems both physically and geometrically
- use software to solve mathematical and Statistical problems
- demonstrate understanding of probability, statistical distributions and its applications to sampling theory and statistical tools in-depth at the Allied level
- acquire wide range of knowledge from General Electives chosen from different disciplines
- demonstrate competency in solving problems in Calculus, Analytical Geometry of 2 and 3 dimensions, Vector Calculus and Vector Analysis
- demonstrate proficiency in solving linear programming problems and networking models
- solve problems in Laplace Transforms, Fourier Transforms and  $Z$  transforms and to realize the use of these in problem solving
- demonstrate the study of various algebraic structures viz., Group, Ring, Fields, Vector Spaces
- derive challenging outcomes in both Real and Complex Analysis
- proficiency in visualizing Mechanics in real life problems
- visualise Elements of Space Science as an application of mathematics
- proficiency in solving Numerical Analysis problems using C-programming



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH I-MATHEMATICS - SHIFT II**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19MT/MC/DC14	Differential Calculus	4	4	1	0	3	50	50	100
19MT/MC/AT13	Algebra and Trigonometry	3	3	1	0	3	50	50	100
19MT/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
19MT/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
<b>SEMESTER-II</b>									
19MT/MC/IC23	Integral Calculus	3	3	1	0	3	50	50	100
19MT/MC/AG24	Analytical Geometry	4	4	1	0	3	50	50	100
	Life Skills: Personality Development (EL)	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
<b>SEMESTER-III</b>									
19MT/MC/EG34	Elements of Graph Theory	4	4	1	0	3	50	50	100
19MT/MC/DE34	Differential Equations	4	4	1	0	3	50	50	100
19MT/AC/ST35	Mathematical Statistics-I	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Computer Science</b>									
19MT/AC/MS35	Mathematics for Computer Science-I	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Commerce-Shift II(Gen, A&amp;F)</b>									
19MT/AC/MT35	Mathematics for Commerce	5	5	0	0	3	50	50	100
19MT/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
<b>SEMESTER-IV</b>									
19MT/MC/SS44	Sequence and Series	4	4	1	0	3	50	50	100
19MT/MC/DM43	Discrete Mathematics	3	3	1	0	3	50	50	100
19MT/AC/ST45	Mathematical Statistics-II	5	5	0	0	3	50	50	100
<b>Allied Core Offered to the Department of Computer Science</b>									
19MT/AC/MS45	Mathematics for Computer Science-II	5	5	0	0	3	50	50	100
	Major Elective I								
<b>SEMESTER-V</b>									
19MT/MC/VA53	Vector Analysis and Applications	3	3	1	0	3	50	50	100
19MT/MC/AS55	Algebraic Structures	5	5	1	0	3	50	50	100
19MT/MC/RA55	Principles of Real Analysis	5	5	0	0	3	50	50	100
19MT/MC/IT54	Integral Transforms	4	4	1	0	3	50	50	100
<b>Inter Disciplinary Core Course (MT and CS) to Students of Mathematics</b>									
19ID/IC/MS55	Mathematics through Scientific Software	5	1	0	5	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH I-MATHEMATICS - SHIFT II**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
	SAP / SL	2	2	0	0	-	50	-	100
<b>SEMESTER-VI</b>									
19MT/MC/VL64	Vector Spaces and Linear Transformations	4	4	1	0	3	50	50	100
19MT/MC/CA65	Principles of Complex Analysis	5	5	1	0	3	50	50	100
19MT/MC/PM65	Principles of Mechanics	5	5	1	0	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19MT/ME/OT45	Optimization Techniques	5	5	0	0	3	50	50	100
19MT/ME/PR45	Project	5	1	5	0	-	25	75	100
19MT/ME/ES45	Elements of Space Science	5	5	0	0	3	50	50	100
19MT/ME/NM45	Numerical Methods with Programs in C	5	4	0	2	3	50	50	100
<b>General Elective Courses</b>									
19MT/GE/WM22	Fascinating World of Mathematics	2	2	0	0	-	50	-	100
19MT/GE/CW22	Celestial Wonders	2	2	0	0	-	50	-	100
19MT/GE/AM22	Automata	2	2	0	0	-	50	-	100
19MT/GE/BM22	Basic Mathematics	2	2	0	0	-	50	-	100
<b>Independent Elective Courses</b>									
19MT/UI/CO23	Combinatorics	3	0	0	0	3	-	100	100





**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DIFFERENTIAL CALCULUS**

**CODE: 19MT/MC/DC14**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To understand the concepts of differential calculus in depth
- To analyze the behavior of various curves

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- define the basic concepts and principles of differential calculus
- use derivatives to solve a variety of problems
- develop an appreciation of calculus as a coherent body of knowledge

**Unit 1 (12 Hours)**

**Successive Differentiation**

- 1.1 The  $n^{\text{th}}$  derivatives of some special functions
- 1.2 The  $n^{\text{th}}$  derivatives of rational algebraic functions
- 1.3 Leibnitz's Theorem for the  $n^{\text{th}}$  derivative of the product of two functions

**Unit 2 (13 Hours)**

**Curvature**

- 2.1 Formulae for radius of curvature
- 2.2 A theorem on curvature
- 2.3 Curvature at the origin
- 2.4 Chord of curvature through the origin (pole)
- 2.5 Centre of curvature
- 2.6 Property of the centre of curvature
- 2.7 Evolute and Involute
- 2.8 Properties of the evolute

**Unit 3 (14 Hours)**

**Envelopes**

- 3.1 Definition of envelope
- 3.2 Envelope of straight lines
- 3.3 Envelope of the curves
- 3.4 Envelope of a special family
- 3.5 Envelope of two-parameter family

**Unit 4 (13 Hours)**

**Extrema of functions of two variables**

- 4.1 Extrema with two variables
- 4.2 Necessary conditions for maximum and minimum of extrema with two variables
- 4.3 Determination of maxima and minima of extrema with two variables

#### 4.4 Lagrange's method of undetermined multipliers

### Unit 5

(13 Hours)

#### Characteristics of some special curves

- 5.1 Cycloid
- 5.2 Catenary
- 5.3 Evolutes of parabola and ellipse
- 5.4 Logarithmic (or Equiangular) spiral
- 5.5 Spiral of Archimedes
- 5.6 Witch of Agnesi
- 5.7 Cardioid
- 5.8 Limacon
- 5.9 Lemniscate

#### Singular Points

- 5.10 Double Points
- 5.11 Classification of Double Points
- 5.12 Conditions for existence of double points on an algebraic curve

### BOOK FOR STUDY

B.C. Das and B.N. Mukherjee, *Differential Calculus* 52<sup>nd</sup> Edition, Kolkata: U.N. Dhur and sons Pvt. Ltd., 2012.

Chapter 8: 8.1- 8.5, 8.7 and 8.8

Chapter 13: 13.1-13.6

Chapter 15: 15.1 – 15.12

Chapter 17: 17.1-17.9

Chapter 20: 20.2, 20.3, 20.7, 20.13 - 20.18

Chapter 21: 21.1, 21.2, 21.6

### BOOKS FOR REFERENCE

G.C. Chaubey, S.K.D Dubey, M.U Khan, D.S Pandey, *A Textbook of Advanced Calculus*, New Delhi: Wisdom, 2012.

R. Courant, F. John, *Introduction to Calculus and Analysis - Volume One*, New York : Springer-Verlag, 2000.

Elliot Mendelson, *Calculus*, Schaum's solved problem Series, Tata Mcgraw-Hill Publishing Company Limited, New Delhi, 2004.

R.K Ghosh, Maity K.C., *Differential Calculus*, Kolkata: New Central Book, 2001.

Narayanan, S. and T.K. Manicavachagam Pillai. *Calculus Volume-I*. Madras: Viswanathan S., 2000.

F. B. Hildebrand. *Advanced Calculus for Applications*. Prentice-hall, inc.: London, 1962.

### WEB RESOURCES

[http://sydney.edu.au/stuserv/documents/mathsisfun\\_learning\\_centre/differentialcalculus.pdf](http://sydney.edu.au/stuserv/documents/mathsisfun_learning_centre/differentialcalculus.pdf)  
<http://www.mathsisfun.com/calculus/>

## **PATTERN OF ASSESSMENT**

**Problems: 100%**

**Continuous Assessment: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Quiz / Seminar/Presentation/Assignments/Problem solving

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**ALGEBRA AND TRIGONOMETRY**

**CODE: 19MT/MC/AT13**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To impart knowledge of solving algebraic, transcendental and trigonometric equations
- To gain understanding of the different expansions of circular functions and relation between circular and hyperbolic functions and to identify diagonalizable matrices

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- simplify, factor, evaluate and perform operations on polynomial equations
- exhibit competence in calculating Eigen values and Eigen vectors, and thereby diagonalizing square matrices
- demonstrate comprehension involving expansions and expressions of circular and hyperbolic functions

**Unit 1 (11 Hours)**

**Theory of Equations**

- 1.1 Relations between the Roots and Coefficients of Equations involving cubic and higher order
- 1.2 Symmetric Function of Roots
- 1.3 Transformation of Equations
- 1.4 Increase or Decrease the Roots of a Given Equation by a Given Quantity
- 1.5 Removal of terms
- 1.6 To Form an Equation where Roots are any Power of the Roots of a Given Equation

**Unit 2 (10 Hours)**

**Series Expansions**

- 2.1 Exponential series
- 2.2 Logarithmic series
- 2.3 Application of exponential and logarithmic series to limits and approximations

**Unit 3 (10 Hours)**

**Properties of Matrices**

- 3.1 Eigenvalues and Eigenvectors
- 3.2 Cayley - Hamilton Theorem
- 3.3 Similar Matrices
- 3.4 Diagonalization of a Matrix



**Unit 4** **(10 Hours)**  
**Trigonometry**

- 4.1 Expansions of  $\cos n\theta$ ,  $\sin n\theta$  and  $\tan n\theta$
- 4.2 Expansions of  $\cos^n \theta$  and  $\sin^n \theta$  in a Series of Sines and Cosines of Multiples of  $\theta$
- 4.3 Expansions of  $\cos \theta$  and  $\sin \theta$  in Powers of  $\theta$

**Unit 5** **(11 Hours)**  
**Trigonometry (contd.)**

- 5.1 Euler's Formula for  $e^{i\theta}$
- 5.2 Hyperbolic Functions
- 5.3 Relations between Circular and Hyperbolic Functions
- 5.4 Inverse Hyperbolic Functions in Terms of Logarithmic Functions
- 5.5 Logarithm of Complex Quantities

**BOOKS FOR STUDY**

Manicavachagam Pillay T.K., Natarajan T. and K.S. Ganapathy, *Algebra –Vol I*. Madras: S. Viswanathan, 2006.

Chapter 4 Sections 1 - 11

Chapter 6 Sections 11,12, 15 (15.1,15.2 only), 17 - 20

Manicavachagam Pillay T. K., Natarajan T. and K.S. Ganapathy, *Algebra- Vol. II*. Madras: S. Viswanathan, 2006.

Chapter 2 Section 16

Narayanan. S, and Manicavachagam Pillay T. K., *Trigonometry*. Madras: S. Viswanathan, 2007.

Chapter 3 Section 1-5 (excluding formation of equations)

Chapter 4 Section 1-2.3

Chapter 5 Section 5

**BOOKS FOR REFERENCE**

Harikishnan, *Trigonometry*. New Delhi: Atlantic, 2005.

Veerarajan T., *Trigonometry, Algebra and Calculus*. New Delhi: Tata McGraw Hill, 2003.

Venkataraman M.K., Manorama Sridhar, *Classical Algebra and Trigonometry*. Chennai: Sivasankar, 2001.

Singaravelu A., *Algebra & Trigonometry – I*, Chennai: A.R. Publications, 2015.

**WEB RESOURCES**

<http://www.edurite.com/kbase/application-of-matrices-in-real-life>

<http://www.decodedscience.com/practical-uses-matrix-mathematics/40494>

<http://malini-math.blogspot.in/2011/08/applications-of-trigonometry-in-real.html>

<http://www.intmath.com/help/useoftrig.php>

## **PATTERN OF ASSESSMENT**

### **Problems 100%**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                            Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19MT/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)

[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19MT/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTEGRAL CALCULUS**

**CODE: 19MT/MC/IC23**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To evaluate integration of irrational functions and improper integrals
- To understand the concepts of double and triple integration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the concepts of double and triple integration
- use Beta-Gamma functions as a tool to evaluate integrals
- use numerical integration for approximating the integrals that are difficult or impossible to integrate analytically

**Unit 1 (11 Hours)**  
**Methods of Integration**

- 1.1 Integration of irrational functions of the type:  $\frac{1}{(x-k)\sqrt{ax^2+bx+c}}$ ,  $\frac{\sqrt{x-\alpha}}{\sqrt{\beta-x}}$ ,  $\frac{1}{(Ax^2+B)\sqrt{Cx^2+D}}$ ,  $\frac{1}{(ax^2+bx+c)\sqrt{Ax^2+Bx+C}}$ ,  $\frac{1}{\sqrt{(x-\alpha)(\beta-x)}}$ ,  $\frac{1}{\sqrt{(x-\alpha)(\beta-x)}}$
- 1.2 Integration of functions of type:  $\frac{1}{a+b \cos x}$ ,  $\frac{1}{\sqrt{a^2 \cos^2 x + b^2 \sin^2 x}}$

**Unit 2 (10 Hours)**  
**Improper Integrals**

- 2.1 Infinite Integrals  
2.2 Discontinuous Integrands  
2.3 Comparison Test

**Unit 3 (11 Hours)**  
**Beta and Gamma Integrals**

- 3.1 Definitions of Beta and Gamma Integrals  
3.2 Recurrence Formula for Gamma Functions  
3.3 Properties of Beta Functions  
3.4 Relation between Beta and Gamma Functions

**Unit 4 (10 Hours)**  
**Multiple Integrals**

- 4.1 Mid-point rule for Double Integral  
4.2 Iterated Integrals

- 4.3 Double Integrals over General Regions
- 4.4 Double Integrals in Polar Coordinates
- 4.5 Surface Area

**Unit 5 (10 Hours)**

**Multiple Integrals (contd.)**

- 5.1 Triple Integrals
- 5.2 Applications of Triple Integrals
- 5.3 Change of Variable in Double Integral

**BOOKS FOR STUDY**

James Stewart. *Calculus – Concepts and Contexts*, Second Edition. United States: Brooks Cole Thomson Learning, 2001

Chapter 5      Section 5.10

Chapter 12    Section 12.1 – 12.4, 12.6, 12.7, 12.9

Narayanan S. and Manicavachagam Pillay T.K. *Calculus - Vol II*. Chennai: S. Viswanathan, 2012.

Chapter 1    Sec. 8 (cases  $v - x$ ), 9, 10

Chapter 7    Sec. 2.1, 2.3, 3 and 4

**BOOKS FOR REFERENCE**

Alan Jeffrey. *Handbook of Mathematical formulas and Integrals*. United States: Academic, Third Edition 2005.

Khalil Ahmad, Arya Jaganath and Srivastava R J. *Textbook of Integral Calculus and Differential Equations*. New Delhi: Anamaya Publishing, 2005

Singh U.P, Siddiqui N.H, Srivastava R.J. *Integral Calculus*. New Delhi : Wisdom Press, 2011.

**WEB RESOURCES**

<http://www.mathsisfun.com/calculus/>

<https://homepage.tudelft.nl/11r49/documents/wi4006/gammabeta.pdf>

**PATTERN OF ASSESSMENT**

**Theory: 10%; Problems: 90%**

**Continuous Assessment Test:      Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:      Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving



**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting at least two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**ANALYTICAL GEOMETRY**

**CODE: 19MT/MC/AG24**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVE OF THE COURSE**

- To introduce the concepts of two dimensional coordinate geometry in depth
- To introduce the concept of three dimensional geometry

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- recognize the type of conic sections and understand its properties
- be familiar to planes, straight lines, sphere and cone in three dimensional co-ordinate geometry
- demonstrate knowledge of geometry and its applications in the real world

**Unit 1 (12 Hours)**

**General Second Degree Equation**

- 1.1 Condition for a General Second Degree Equation to Represent a Conic
- 1.2 Centre of the Conic given by the General Second degree Equation (concept only)
- 1.3 Lengths and Positions of the Axes of the Central Conic

$$ax^2 + 2hxy + by^2 = 1 \text{ (concept only)}$$

**Unit 2 (13 Hours)**

**Ellipse**

- 2.1 Conjugate Diameters and its Properties
- 2.2 Equi-Conjugate Diameters

**Hyperbola**

- 2.3 Asymptotes
- 2.4 Conjugate Hyperbola
- 2.5 Relation between the Equation of a Hyperbola, its Asymptotes and Conjugate Hyperbola
- 2.6 Rectangular Hyperbola

**Unit 3 (13 Hours)**

**Plane**

- 3.1 General Equation
- 3.2 Intercept Form
- 3.3 Normal Form
- 3.4 Angle Between two Planes
- 3.5 Equation of Plane through the Line of Intersection of two Given Planes
- 3.6 Length of Perpendicular from a given Point to a Plane

**Unit 4****(13 Hours)****Straight Line**

- 4.1 Symmetrical Form
- 4.2 Line through two points
- 4.3 Reduction of the Unsymmetrical Form to the Symmetrical Form
- 4.4 Condition for a Line to Lie on a Plane
- 4.5 Plane through a given Line
- 4.6 Condition for two Lines to be Coplanar
- 4.7 Equation of the Plane Containing the two Lines
- 4.8 Shortest Distance between two Skew Lines and Equation of the Line Containing the Shortest Distance

**Unit5****(14 Hours)****Sphere and Cone**

- 5.1 Equation of a Sphere with given Centre and Radius
- 5.2 General Form of the Equation of a Sphere
- 5.3 Plane Section of a Sphere
- 5.4 Intersection of Two Spheres
- 5.5 Equation of a Circle on a Sphere
- 5.6 Equation of Sphere Passing through given Circle
- 5.7 Tangent Plane to a Sphere
- 5.8 Right Circular Cone; Necessary Condition for a General Equation of Second Degree to Represent a Cone
- 5.9 Equation of a Cone with given Vertex, Axis and Semi-Vertical Angle

**BOOKS FOR STUDY**

Manicavachagam Pillay T.K, and Natarajan T., *A Text book of Analytical Geometry Part I - Two dimensions*. Madras: S. Viswanathan, 2012.

Chapter 7      Sec. 16.1–16.4

Chapter 8      Sec. 4 – 13

Chapter 10     Sec. 3 – 6

Manickavachagam Pillay T.K. and Natarajan T., *A Text Book of Analytical Geometry - Part II (Three Dimensions)*. Chennai: Ananda Book Depot, Reprint 2017.

Chapter 2      Sec. 1 – 10

Chapter 3      Sec. 1 – 8

Chapter 4      Sec. 1 – 8

Chapter 5      Sec. 2.1

**BOOKS FOR REFERENCE**

Singh, Shalini. *Two Dimensional Geometry*. New Delhi: Sarup, 2000.

Hari Krishnan. *Coordinate Geometry of Two Dimensions*. New Delhi: Atlantic, 2006.

Arup Mukherjee. *Analytical Geometry of two and three Dimensions*. Kolkata: Arunabha Sen Books and Allied, 2010.

Narayan, Shanti P.K., *Mittal Analytical Solid Geometry*, New Delhi: S Chand, 2016.

## WEB RESOURCE

<https://www.askiitians.com/blog/co-ordinate-geometry-works-real-space-five-practical-examples/>

[https://www3.ul.ie/~rynnnet/swconics/applications\\_of\\_conic\\_sections.htm](https://www3.ul.ie/~rynnnet/swconics/applications_of_conic_sections.htm)

## PATTERN OF ASSESSMENT

**Theory : 10% ; Problems: 90%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Quiz/Assignments/Problem Solving

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**ELEMENTS OF GRAPH THEORY**

**CODE: 19MT/MC/EG34**

**CREDITS: 4**

**LT P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce basic concepts of graph theory
- To develop theoretical aspects of graph theory
- To apply graph theory based tools in solving practical problems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand fundamental definitions of graph theory
- have learnt a clear perspective of solving real life problems using graph theory
- analyze one way communication problems in networking
- use a combination of theoretical knowledge and independent mathematical thinking for creative research in graph theory

**Unit 1 (13 Hours)**

**Basic Concepts of Graph theory**

- 1.1 Graphs-vertices and edges
- 1.2 Degrees
- 1.3 Subgraphs
- 1.4 Isomorphism
- 1.5 Matrices
- 1.6 Operations on Graphs

**Unit 2 (13 Hours)**

**Degree Sequences**

- 2.1 Degree Sequences
- 2.2 Graphic Sequences

**Connectedness**

- 2.3 Walks, Trails and Paths
- 2.4 Connectedness and Components
- 2.5 Blocks

**Unit 3 (13 Hours)**

**Eulerian and Hamiltonian Graphs**

- 3.1 Eulerian Graphs
- 3.2 Konigsberg Bridge Problem

- 3.3 Fleury's Algorithm
- 3.4 Hamiltonian Graphs
- 3.5 Closure of a graph

**Unit 4 (13 Hours)**

**Trees**

- 4.1 Characterisation of Trees
- 4.2 Centre of a Tree

**Planarity**

- 4.3 Definition and Properties
- 4.4 Characterization of Planar Graphs

**Unit 5 (13 Hours)**

**Directed Graphs**

- 5.1 Directed Graphs
- 5.2 Indegree and Outdegree
- 5.3 Sequential Representation of Directed Graphs
- 5.4 Warshall's Algorithm – Shortest Paths

**BOOKS FOR STUDY**

Arumugam S. & Ramachandran S., *Invitation to Graph Theory*, Chennai: Scitech, 2013.

- Chapter 2 Sections 2.1 - 2.4, (Exclude Ulam's Conjecture) 2.8 - 2.9
- Chapter 3 Sections 3.1, 3.2
- Chapter 4 Sections 4.1 - 4.3
- Chapter 5 Sections 5.1, 5.2
- Chapter 6 Sections 6.1, 6.2
- Chapter 8 Sections 8.1, 8.2

Seymour Lipschutz, Lipson Marc Lars, *Schaum's Outline of Theory and Problems of Discrete Mathematics*, Second Edition, Eleventh reprint 2002, New Delhi: Tata McGraw-Hill Publishing Company Limited, 2010.

- Chapter 9 Sections 9.1 – 9.3, 9.5 (Omit Transitive Closure), 9.6

**BOOKS FOR REFERENCE**

Adrian J. Bondy, U. S. R. Murty, *Graph Theory with Applications*, Wiley, 1991

Balakrishnan B, *Textbook of Graph Theory*, Springer, 2000.

Joyner David W, Melles Caroline Grant, *Adventures in Graph Theory*, Springer International Publishing, 2018

Chartrand Gary, *Introductory Graph Theory*, Courier Corporation, 2012

Deo Narsingh, *Graph Theory with Applications to Engineering and Computer Science*, Courier Dover Publications, 2016

Diestel Reinhard, *Graph Theory*, Springer, 2006

## WEB RESOURCES

<http://www.open-graphtheory.org/>

<https://www.britannica.com/topic/graph-theory>

[http://mathforum.org/library/topics/graph\\_theory/](http://mathforum.org/library/topics/graph_theory/)

## PATTERN OF ASSESSMENT

**Theory: 30%, Derivations: 40% and Problems: 30%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving/Exhibition

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE BRANCH I - MATHEMATICS  
SYLLABUS**

(Effective from the academic year 2019 – 2020)

**DIFFERENTIAL EQUATIONS**

**CODE: 19MT/MC/DE34**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To gain logical skills in the formulation of differential equations
- To expose students to use differential equation as a powerful tool in problem solving and to inculcate the application of differential equations in real world problems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- find the solution of ordinary differential equations and system of differential equations
- use differential equations as a tool to model the real world problems and hence understand the behavior of the dynamical problems
- find complete solution of a non-homogeneous partial differential equation as a linear combination of the complementary function and a particular solution

**Unit 1 (15 Hours)**

**Second order differential equations**

- 1.1 Second order differential equations with constant coefficients, Particular integral of the form  $e^{ax}V$  where  $V$  is a function of  $x$
- 1.2 Linear equations with variable coefficients
- 1.3 Equations reducible to the linear homogeneous equation
- 1.4 Variation of Parameters

**Unit 2 (13 Hours)**

**Simultaneous differential equations**

- 2.1 Simultaneous equations of the first order and first degree
- 2.2 Solutions of  $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$
- 2.3 Simultaneous linear differential equations with constant coefficients

**Unit 3 (12 Hours)**

**Applications of System of Linear Differential Equations**

- 3.1 The Shape of a Hanging Cable
- 3.2 Undamped and Damped Motion.
- 3.3 Electrical Circuits
- 3.4 Coupled Springs
- 3.5 Mixture Problems
- 3.6 Arms Race



**Unit 4 (14 Hours)**

**Partial Differential Equations of the First Order**

- 4.1 Introduction
- 4.2 Formulation of Partial Differential Equation by Eliminating Arbitrary Constants and Arbitrary Functions
- 4.3 Classification of Integrals
- 4.4 Some Particular Method – Type I - IV
- 4.5 Linear Partial Differential Equation of Order One - Lagrange's Method

**Unit 5 (11 Hours)**

**Partial Differential Equations of Higher Order with Constant Coefficients**

- 5.1 Homogeneous Linear Partial Differential Equations with Constant Coefficients
- 5.2 Solutions of Partial Differential Equations
- 5.3 Complementary Function
- 5.4 Particular Integral

**BOOKS FOR STUDY**

Narayanan, S. and Manicavachagam Pillay, T. K. *Calculus - Vol. III*, Chennai: S. Viswanathan Printers & Publishers, 2006

Chapter 2 : Section 4(d), 8 – 10  
Chapter 3 : Sections 1 – 6

Siddiqi, A.H. and P. Manchanda, *A First Course in Differential Equations with Applications*. New Delhi: Macmillan India Ltd., 2006

Chapter 7 : Section 7.3, 7.6  
Chapter 8 : Section 8.7

Bhu Dev Sharma, *Differential Equations*. Meerut: Kedar Nath Ram Bath, Revised Edition 2015.

Chapter 17 Section 17.1 – 17.4  
Chapter 18 Section 18.1, 18.2, 18.5  
Chapter 19 Section 19.1 -19.6

**BOOKS FOR REFERENCE**

William E. Boyce and Richard C. DiPrima, *Elementary Differential Equations and Boundary Value Problems*, USA: Wiley, Reprint 2013.

Amarnath.T, *An Elementary Course in Partial Differential Equation* (2<sup>nd</sup> Edition). New Delhi: Narosa Publishing House, 2003.

Narayan S. and T.K. Manicavachagam Pillay, *Differential Equations and its Applications*. Chennai: S.Viswanathan Printers & Publishers Pvt. Ltd., 2001.

Rai, B., D.P. Choudhury, and H.I. Freedman, *A Course in Ordinary Differential Equations*, New Delhi: Narosa Publishing House, 2002.

Sharma J.N. and Kehar Singh, *Partial Differential Equations for Engineers and Scientists*. New Delhi: Narosa Publishing House, 2000.

Sharma, J.N. and R.K.Gupta, *Differential Equations*. Meerut: Krishna Prakashan Mandir, 1992.

## WEB RESOURCES

[http://www.analyzemath.com/calculus/Differential\\_Equations/applications.html](http://www.analyzemath.com/calculus/Differential_Equations/applications.html)  
<http://faculty.bard.edu/belk/math213s14/ApplicationsOfDifferentialEquations.pdf>  
[www.ugrad.math.ubc.ca/coursedoc/math100/notes/.../intro.html](http://www.ugrad.math.ubc.ca/coursedoc/math100/notes/.../intro.html)

## PATTERN OF ASSESSMENT

**Theory: 20% Problems: 80%**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                      Total Marks: 50**

Seminars/Quiz/Group discussion/Assignments/Project/Problem solving

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**MATHEMATICAL STATISTICS – I**

**CODE: 19MT/AC/ST35**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVE OF THE COURSE**

- To extend and formalize knowledge of the theory of probability and use of Baye's theorem
- To inculcate the concepts of random variables, mathematical expectation and correlation
- Fostering the concept of discrete and continuous probability distributions

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate understanding of probability functions and use Baye's theorem for future events
- compute expectations, moments and correlation coefficients
- acquire knowledge of discrete and continuous distributions and their properties

**Unit 1 (12 Hours)**

**Probability**

1.1 Baye's Theorem for Future Events

**Random Variables**

1.2 Cumulative Distribution Function

1.3 Two-Dimensional Random Variables

**Unit 2 (14 Hours)**

**Moments**

2.1 Introduction

2.2 Definitions of Mean and Variance

2.3 Elementary Properties of Mean and Variance

2.4 Expected Value of a Function of a Random Variable

2.5 Expected Values of a Two Dimensional Random Variable

2.6 Covariance of  $X, Y$

2.7 Conditional Expected Values – Definitions

2.8 Moment Generating Function – Definition

2.9 Properties of Characteristic Function

2.10 Cumulant Generating Function

2.11 Joint Characteristic Function of a Two Dimensional Random Variable

**Unit 3 (14 Hours)**

**Special Discrete Probability Distributions**

3.1 Binomial Distribution

- 3.2 Characteristic Function, Mean and Variance,
- 3.3 Recurrence Formula
- 3.4 Mode of the Binomial Distribution
- 3.5 Poisson Distribution
- 3.6 Poisson Distribution as a Limiting Form of Binomial Distribution
- 3.7 Moment Generating Function and Central Moments
- 3.8 Recurrence Formula
- 3.9 Mode of the Poisson Distribution
- 3.10 Additive property

**Unit 4 (13 Hours)**

**Normal Distribution**

- 4.1 Normal distribution
- 4.2 Normal Probability Curve and its Characteristics
- 4.3 Mean and Variance
- 4.4 Median and Mode
- 4.5 Central Moments
- 4.6 Mean Deviation about the Mean
- 4.7 Moment Generating Functions
- 4.8 Additive Property of Normal Distribution
- 4.9 Normal Distribution as a Limiting Form of Binomial Distribution

**Unit 5 (12 Hours)**

**Correlation**

- 5.1 Correlation
- 5.2 Scatter Diagram and its Uses
- 5.3 Karl Pearson's Coefficient of Correlation
- 5.4 Correlation of Grouped Bi-Variate Data
- 5.5 Probable Error of Correlation Coefficient
- 5.6 Rank Correlation Coefficient
- 5.7 Merits and Demerits of Rank Correlation Coefficient

**BOOKS FOR STUDY**

Gupta S. C. and Kapoor V. K., *Fundamentals of Mathematical Statistics*, New Delhi: Sultan Chand & Sons, Reprint 2016.

Chapter 3: Section 3.8.5

Chapter 4: Section 4.2

Veerarajan T., *Fundamentals of Mathematical Statistics*, First edition, Chennai: Yes Dee Publishing Pvt Ltd, 2017.

Chapter 5: Sections 5.1 – 5.4 (omit 5.4.9)

Chapter 7: Sections 7.1 – 7.6

Chapter 8: Sections 8.1 – 8.4

Chapter 9: Sections 9.1 (9.1.1 – 9.1.3), 9.2 (9.2.1 – 9.2.5, 9.2.7)

Chapter 10: Section 10.9 (10.9.1 – 10.9.5, 10.9.7 – 10.9.9)

Pillai R. S. N. and Bagavathi V., *Statistics*, New Delhi : S. Chand & Company Ltd, Reprint 2007.

Chapter 12: Page No: 363 – 395.

## BOOKS FOR REFERENCE

Arumugam S. and Issac A., *Statistics*, Palayamkottai: New Gamma Publishing House, 1999.

David Freedman, Robert Pisani, Roger Purves, *Statistics*, 4th Edition New Delhi: Vinod Vaishya for Viva Books, 2009.

Sancheti D.C. and Kapoor V. K., *Statistics: Theory, Methods & Application*, New Delhi : S. Chand & Company Ltd, 2014.

Vittal P.R., *Mathematical Statistics*, Chennai: Margham Publications Pvt. Ltd., 2002.

## WEB RESOURCES

<https://fs.blog/2018/09/bayes-theorem/>  
<http://makemeanalyst.com/normal-distribution-binomial-distribution-poisson-distribution/>  
<https://www.statisticshowto.datasciencecentral.com/probability-and-statistics/correlation-coefficient-formula/>

## PATTERN OF ASSESSMENT

**Theory: 60 % (Derivations/Properties/Theorems) Problem: 40 %**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting at least two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Course Offered by the Department of Mathematics for  
B.C.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS FOR COMPUTER SCIENCE I**

**CODE: 19MT/AC/MS35**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the concept of diagonalization through Eigen values and Eigen vectors
- To use appropriate mathematical concepts and skills to solve problems in real-life contexts

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify diagonalizable matrices
- understand the concept of Fourier series and Vector differentiation
- get the basic terminology in Graph Theory used in computer applications
- model real time problems and solve

**Unit 1 (10 Hours)**

**Matrices**

- 1.1 Eigen values and Eigen vectors of square matrices of order  $\leq 3$
- 1.2 Cayley - Hamilton Theorem
- 1.3 Diagonalisation of Matrices

**Unit 2 (13 Hours)**

**Fourier Series**

- 2.1 Definition
- 2.2 Even and Odd Functions
- 2.3 Half Range Fourier Series
- 2.4 Development in Cosine Series
- 2.5 Development in Sine Series

**Unit 3 (14 Hours)**

**Vector Analysis**

- 3.1 Scalar and Vector Point Functions
- 3.2 Gradient
- 3.3 Divergence and Curl
- 3.4 Solenoidal and Irrotational Vectors
- 3.5 Problems using Vector Identities

**Unit 4 (14 Hours)**

**Graph Theory**

- 4.1 Introduction and Basic Terminology
- 4.2 Concepts of Incidence and degrees
- 4.3 Paths, Reachability and Connectedness
- 4.4 Some Special Graphs
- 4.5 Adjacency and Incidence Matrix of Graphs

**Unit 5 (14 Hours)**

**Linear Programming Problem**

- 5.1 Linear Programming Formulation
- 5.2 Graphical Method
- 5.3 General L.P.P.
- 5.4 Canonical and standard forms of L.P.P.
- 5.5 The Simplex Algorithm

**BOOKS FOR STUDY**

Bhishma Rao G.S.S. *Discrete Structures and Graph Theory*. Chennai: Scitech Publications (India) Pvt. Ltd., Second Edition 2002  
Chapter 4 Sections 1-5, 6.1[exclude theorem 6.1.1], 6.2

Venkatachalapathy S.G. *Allied Mathematics*, Chennai: Margham Publications, 2011.  
Chapter 6 : Sections 6.1, 6.10, 6.11, [pages 6.1, 6.36-6.57]  
Chapter 12: Pages 12.1-12.42  
Chapter 17: Pages 17.1-17.41[exclude theorems and identities proof]

Sundaresan V, K.S. Ganapathy Subramanian and K. Ganesan. *Resource Management Techniques*, Chennai: A.R. Publications, 2014.  
Chapter 2: Section 2.1-2.8  
Chapter 3: Section 3.1.1 – 3.1.4

**BOOKS FOR REFERENCE**

Abdul Rasheed A. *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008

Arumugam S. S. Ramachadran. *Invitation to Graph Theory*. Chennai: Scitech Publications (India) Pvt. Ltd., 8<sup>th</sup> Reprint, 2006.

Kalavathy S., *Operations Research*, Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

Sankarappan S., S Kalavathy, S Santha B Prabha. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009

## WEB RESOURCES

<https://ece.uwaterloo.ca/~h23chung/MATH%20215/MATH%20215%20-%20Eigen%20Vectors,%20Eigenvalues,%20and%20the%20Cayley-Hamilton%20Theorem.pdf>  
[https://www.math.cuhk.edu.hk/course\\_builder/1617/mmat5520/Eigen.pdf](https://www.math.cuhk.edu.hk/course_builder/1617/mmat5520/Eigen.pdf)  
<https://www.math.ucla.edu/~tom/LP.pdf>  
<https://www.math.psu.edu/tseng/class/Math251/Notes-PDE%20pt2.pdf>  
[http://www.eas.uccs.edu/~mwickert/ece3110/lecture\\_notes/N3110\\_3.pdf](http://www.eas.uccs.edu/~mwickert/ece3110/lecture_notes/N3110_3.pdf)  
<http://www.hamilton.ie/ollie/Downloads/Graph.pdf>  
<http://ncert.nic.in/ncerts/l/lemh206.pdf>

## PATTERN OF ASSESSMENT

**Theory: 10%; Problems: 90%**

**Continuous Assessment: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Quiz/Assignments/Problem Solving

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Course Offered by the Department of Mathematics for  
B.Com. (Commerce General and Commerce A&F – Shift II) Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS FOR COMMERCE**

**CODE: 19MT/AC/MT35**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To inculcate problem solving skills and quantitative analysis
- To introduce the technique to solve linear programming problem

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- acquire the skill to solve problems and have quantitative analysis
- model real time problems and solve
- solve problems using various techniques

**Unit 1 (13 Hours)**

**Matrices**

- 1.1 Types of matrices
- 1.2 Characteristic equation of a matrix
- 1.3 Cayley - Hamilton Theorem (without proof)
- 1.4 Eigen Values and Eigen Vectors
- 1.5 Diagonalization of  $3 \times 3$  matrices with distinct eigen values

**Unit 2 (15 Hours)**

**Theory of Equations**

- 2.1 Formation and Solution of Equation with Imaginary and Irrational Roots
- 2.2 Relation between Roots and Coefficients
- 2.3 Solution of Equations under given Conditions
- 2.4 Symmetric Functions of the Roots of an Equation in terms of its Coefficients
- 2.5 Reciprocal equations

**Unit 3 (12 Hours)**

**Series Expansion**

- 3.1 Binomial series
- 3.2 Exponential series
- 3.3 Logarithmic series

**Unit 4** **(12 Hours)**

**Numerical Analysis**

- 4.1 The Bisection Method
- 4.2 Newton Raphson Method
- 4.3 Gaussian Jordan Elimination
- 4.4 Gaussian Elimination
- 4.5 Iterative Methods
- 4.6 Jacobi Method
- 4.7 Gauss Seidal Method

**Unit 5** **(13 Hours)**

**Linear Programming Problem**

- 5.1 General L.P.P.
- 5.2 Canonical and standard forms of L.P.P.
- 5.3 The Simplex Algorithm
- 5.4 The Big M – method

**BOOKS FOR STUDY**

Arumugam S., A. Thangapandi Isaac and A. Somasundaram. *Numerical Methods*, Chennai: Scitech, 2002.

Chapter 3: Section 3.3, 3.5

Chapter 4: Section 4.3, 4.4, 4.7, 4.8

Sundaresan V., K.S. Ganapathy Subramanian and K. Ganesan, *Resource Management Techniques*, Chennai: A.R. Publications, 2014.

Chapter 3: Section 3.1.1 – 3.1.4, 3.2.1

Venkatachalapathy S.G, *Allied Mathematics*, Chennai: Margham Publications, 2011.

Chapters 2 – 4

Chapter 5: Pages 5.1 – 5.32

Chapter 6: Pages 6.3 – 6.13, 6.36 – 6.57

**BOOKS FOR REFERENCE**

Abdul Rasheed A. *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008

Kalavathy S. *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

Kandasamy and Thilagavathy. *Mathematics*. New Delhi: S Chand, 2004.

Sankarappan S, S Kalavathy, Santha B Prabha. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009

## WEB RESOURCES

<https://ece.uwaterloo.ca/~h23chung/MATH%20215/MATH%20215%20-%20Eigen%20Vectors,%20Eigenvalues,%20and%20the%20Cayley-Hamilton%20Theorem.pdf>  
[https://www.math.cuhk.edu.hk/course\\_builder/1617/mmat5520/Eigen.pdf](https://www.math.cuhk.edu.hk/course_builder/1617/mmat5520/Eigen.pdf)  
<http://www.universityofcalicut.info/SDE/VI%20Sem.%20B.Sc%20Maths%20-%20Additional%20Course%20in%20lie%20of%20Project%20-Theory%20of%20equations%20&%20fuzzy%20set.pdf>  
<http://www.math.iitb.ac.in/~baskar/book.pdf>  
<https://www.math.ucla.edu/~tom/LP.pdf>  
<http://ncert.nic.in/ncerts/l/lemh206.pdf>

## PATTERN OF ASSESSMENT

**Theory 10%; Problems : 90%**

**Continuous Assessment: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Quiz/Assignments/Problem solving

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19MT/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SEQUENCES AND SERIES**

**CODE: 19MT/MC/SS44**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To understand the concept of convergence of a real sequence
- To discuss the techniques of testing the behavior of infinite series of real Numbers
- To express periodic functions as infinite series

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand countable and uncountable sets of real numbers
- acquire the knowledge of the behavior of the sequence
- develop the techniques of testing the behavior of infinite series of real Numbers
- express periodic functions as infinite series

**Unit 1 (12 Hours)**

**Sets and Functions**

- 1.1 Functions – Real Valued Functions
- 1.2 Equivalence, Countability
- 1.3 Real Numbers
- 1.4 Least Upper Bounds

**Unit 2 (13 Hours)**

**Sequences of Real Numbers**

- 2.1 Definition of Sequence and Subsequence
- 2.2 Limit of a Sequence
- 2.3 Convergent and Divergent Sequences
- 2.4 Bounded Sequences
- 2.5 Monotone Sequences
- 2.6 Operations on Convergent and Divergent Sequences

**Unit 3 (14 Hours)**

**Sequences of Real Numbers (contd.)**

- 3.1 Limit Superior and Limit Inferior
- 3.2 Cauchy Sequences

**Series of Real Numbers**

- 3.3 Convergence and Divergence
- 3.4 Series with Non-negative Terms
- 3.5 Alternating Series
- 3.6 Conditional Convergence and Absolute Convergence

**Unit 4** (14 Hours)  
**Tests for Convergence of a Series of Real Numbers**  
4.1 Tests for Absolute Convergence  
4.2 Series whose terms form a Non-increasing Sequence  
4.3 Summation by Parts

**Unit 5** (12 Hours)  
**Fourier Series**  
5.1 Definition of Fourier Series  
5.2 Expansions of Periodic Functions with Period  $2\pi$   
5.3 Odd and Even Functions  
5.4 Half-range Fourier Series  
5.5 Development in cosine and sine Series

### BOOKS FOR STUDY

Goldberg Richard.R, *Methods of Real Analysis*. New Delhi: Indian Edition. Oxford, Reprint 2017.

Chapter 1 : Section 1.3 – 1.7  
Chapter 2 : Sections 2.1 – 2.10  
Chapter 3 : Sections 3.1 – 3.4, 3.6 – 3.8

Narayanan S. and Manicavachagom Pillay T. K., *Calculus -Volume III*. Madras: S. Viswanathan, 2006.

Chapter 6 : Sections 1 – 5

### BOOKS FOR REFERENCE

Banner Adrian, *The Calculus Lifesaver*, Princeton University Press, ebook.

Bhat V. K, Jarol Scott, *Introduction to Real Analysis*, New Delhi: Narosa, 2012.

Karunakaran V, *Real Analysis*. Chennai: Pearson, 2012.

Kumar Ajit, Kumarasan S. *A Basic Course in Real Analysis*, USA: CPC Press 2014

Robert, G Bartle, *Introduction to Real Analysis*, John Wiley, New York.

Terrance J Quinn, *Pathways to Real analysis*, New Delhi: Narosa, 2009.

### WEB RESOURCES

[https://www.whitman.edu/mathematics/calculus/calculus\\_11\\_Sequences\\_and\\_Series.pdf](https://www.whitman.edu/mathematics/calculus/calculus_11_Sequences_and_Series.pdf)

<http://www.math.utah.edu/online/1220/notes/ch9.pdf>

<http://www.math.harvard.edu/~engelwar/MathS305/Sequences%20and%20Series%20Text%20abridged.pdf>



## **PATTERN OF ASSESSMENT**

**Theory: 70%; Problems: 30%**

**Continuous Assessment Test:           Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                           Total Marks: 50**

Theory writing techniques/Quiz/Assignments/Problem Solving

**End-Semester Examination:           Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019 - 2020)

**DISCRETE MATHEMATICS**

**CODE: 19MT/MC/DM43**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVE OF THE COURSE**

- To introduce the concepts on ordered relations
- To develop logical thinking and problem solving skill
- To introduce formal languages as a tool to model natural language into computer language

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- acquire the knowledge of reasoning and to reason validity of a statement
- understand ordered relations and apply in Boolean expressions
- gain knowledge of using formal language as tool to convert natural language into machine language

**Unit 1 (12 Hours)**

**Logic and Propositional Calculus**

- 1.1 Logical equivalence
- 1.2 Algebra of Propositions
- 1.3 Arguments
- 1.4 Logical Implication
- 1.5 Propositional Functions, Quantifiers
- 1.6 Negation of Quantified Statements
- 1.7 Normal Forms

**Unit 2 (10 Hours)**

**Lattices**

- 2.1 Lattice
- 2.2 Properties of lattices
- 2.3 Lattices as Algebraic System
- 2.4 Bounded, Complemented and Distributive lattices

**Unit 3 (10 Hours)**

**Boolean Algebra**

- 3.1 Basic properties of Boolean algebra
- 3.2 Boolean expressions
- 3.3 Logic gates and circuits
- 3.4 Boolean function
- 3.5 Method to find Truth table of a Boolean Function

### 3.6 Karnaugh Map

## **Unit 4 (10 Hours)**

### **Finite State Automata**

- 4.1 Finite state machines
- 4.2 Finite state automata
- 4.3 Non-deterministic finite state automaton
- 4.4 Equivalence of DFSA and NDFSA

## **Unit 5 (10 Hours)**

### **Languages and Grammars**

- 5.1 Languages and Regular expressions
- 5.2 Languages determined by FSA
- 5.3 Grammars
- 5.4 Derivation trees for context free grammar

## **BOOKS FOR STUDY**

Lipschutz Seymour, Marc Lars Lipson, *Schaum's Outline of Theory and Problems of Discrete Mathematics* Third Edition, New Delhi: Tata McGraw-Hill Publishing Company Limited, 2010

Chapter 4      Sections 4.6, 4.7, 4.9 - 4.13

Babu Ram, *Discrete Mathematics*, Noida: Pearson - Dorling Kindersley (India) Pvt. Ltd., 2011

Chapter 6      Sections 6.1 – 6.3, 6.5

Chapter 7      Sections 7.1, 7.3 – 7.6

Chapter 9      Sections 9.1 (omit sections 9.1.4 – 9.1.6), 9.2 – 9.4

Chapter 10     Sections 10.1 – 10.4

## **BOOKS FOR REFERENCE**

Tremblay J.P. and R. Manohar, *Discrete Mathematical Structures with Applications to Computer Science*, New Delhi: Tata McGraw-Hill Publishing Company Limited, 2004

Malik D.S. and M.K.Sen, *Discrete Mathematics*, India Binding House, Indian Edition, 2008

Norman L.Biggs, *Discrete Mathematics*, Second Edition, India: Oxford University Press, 2003

Ralph P. Grimaldi and B.V. Ramana, *Discrete and Combinatorial Mathematics*, Fifth Edition, New Delhi: Dorling Kindersley (India) Pvt. Ltd., 2004

Rowan Garnier and John Taylor, *Discrete Mathematics*, Third Edition, CRC Press, Special Indian Edition, 2011

Sharma, *Discrete Mathematics*, Chennai: Macmillan India Ltd., 2003

## **PATTERN OF ASSESSMENT**

**Theory: 40%; Problems: 60%**

**Continuous Assessment Test:            Total Marks: 50            Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:            Total Marks: 50**

Quiz/Seminar/Presentation/Group discussion/Assignments/Problem solving

**End-Semester Examination:            Total Marks: 100            Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICAL STATISTICS – II**

**CODE: 19MT/AC/ST45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the notion of regression and time series analysis
- To inculcate the concepts of the sampling distribution, hypothesis testing and analysis of variance

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- use appropriate sampling distribution for the test of hypothesis
- construct the interval estimation for different parameters
- understand the concept of Analysis of Variance

**Unit 1 (12 Hours)**

**Regression**

- 1.1 Definition
- 1.2 Uses of Regression Analysis
- 1.3 Difference Between Correlation and Regression
- 1.4 Method of Studying Regression
- 1.5 Mathematical Properties
- 1.6 Standard Error of Estimate

**Unit 2 (13 Hours)**

**Sampling Theory and Tests of Significance**

- 2.1 Introduction
- 2.2 Point Estimation
- 2.3 Testing of Hypothesis
- 2.4 Standard Error
- 2.5 Tests of Significance for Attributes
- 2.6 Tests of Significance for Large Samples
- 2.7 Testing the difference Between Means of two samples
- 2.8 Tests of Significance for Small Samples (*t*-test)
- 2.9 The Use of *P*-Values for Decision Making in Testing Hypotheses

**Unit 3 (14 Hours)**

**Chi Square test**

- 3.1 Characteristics of  $\chi^2$  – test
- 3.2  $\chi^2$  – test of Goodness of Fit
- 3.3  $\chi^2$  as a test of Independence

### **Interval Estimation**

- 3.4 Confidence Interval for the Mean
- 3.5 Confidence Interval for Difference between the Means
- 3.6 Confidence Interval for Difference between the Means in Case of Paired Observations
- 3.7 Confidence Interval for Proportions
- 3.8 Confidence Interval for Variance and Standard Deviations

### **Unit 4 (13 Hours)**

#### **F – test and Analysis of Variance**

- 4.1 F – test or the Variance Ratio Test
- 4.2 Assumptions in F – test
- 4.3 Applications of F – test
- 4.4 Analysis of Variance
- 4.5 One – Way Classification
- 4.6 Two – Way Classification

### **Unit 5 (13 Hours)**

#### **Analysis of Time Series**

- 5.1 Definition
- 5.2 Uses of Time Series
- 5.3 Time Series Models
- 5.4 Components of Time Series
- 5.5 Measurement of Secular Trend
- 5.6 Measurement of Seasonal Variations

### **BOOKS FOR STUDY**

Pillai R. S. N. and Bagavathi V., *Statistics*, New Delhi: S. Chand & Company Ltd, Reprint 2007.

Chapter 13: Page No: 431 – 480

Chapter 15: Page No: 555 – 595

Chapter 20: Page No: 777 – 799

Chapter 21: Page No: 802 – 812

Gupta O. P. and Vishal Sharma, *Mathematical Statistics*, Meerut: Mohan Print Media (P) Ltd., 2019.

Chapter 21: 21.3 – 21. 9 (Pg. No: 804 – 823)

Gupta S. P., *Statistical Methods*, New Delhi: Sultan Chand & Sons, 2003.

Chapter 15: 15. 1 - 15. 7 (Pg. No: 642 – 672)

Walpole Ronald E. Raymond H. Myers, Sharon L. Myers, Keying Ye. *Probability & Statistics for Engineers & Scientists*. Pearson Education International, 8<sup>th</sup> Edition: 2007

Chapter 10: 10.4

### **BOOKS FOR REFERENCE**

Arumugam S. and Issac A., *Statistics*, Palayamkottai: New Gamma Publishing House, 1999.

Subramaniam N. *Probability and Statistics*. Erode : SCM, 2005.

Richard I, Levin and David S. Rubin. *Statistics for Management*. New Delhi: Prentice Hall, 2000.

Sancheti D.C. and Kapoor V. K., *Statistics: Theory, Methods & Application*, New Delhi : S. Chand & Company Ltd, 2014.

## WEB RESOURCES

<https://stattrek.com/regression/linear-regression.aspx>  
<https://statistics.laerd.com/statistical-guides/hypothesis-testing.php>  
<https://www.spss-tutorials.com/anova-what-is-it/>  
<http://www.statsoft.com/textbook/time-series-analysis>

## PATTERN OF ASSESSMENT

**Theory: 40%**                      **Problem: 60%**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                      Total Marks: 50**

Seminars/Quiz/Assignments/Problem Solving

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Course Offered by the Department of Mathematics for  
B.C.A Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS FOR COMPUTER SCIENCE II**

**CODE: 19MT/AC/MS45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To give a practical exposure on the various statistical methods and to arrive at rational decision through systematic analysis and interpretation
- To educate the application of various statistical tools associated with research in computer field

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have in-depth knowledge about statistical tools
- recognize the importance and value of mathematical and statistical thinking, training and approach to problem solving on a diverse variety of disciplines
- recognize and appreciate the connections between theory and applications

**Unit 1 (12 Hours)**

**Theoretical Distributions**

- 1.1 Binomial Distribution
- 1.2 Poisson Distribution
- 1.3 Normal Distribution

**Unit 2 (13 Hours)**

**Test of Significance**

- 2.1 Procedure for Testing Hypothesis
- 2.2 Standard errors and Sampling Distribution
- 2.3 Estimation
- 2.4 Test of Significance for attributes, large samples, small samples

**Unit 3 (15 Hours)**

**Chi-Square Test and Goodness of Fit**

- 3.1 Meaning and Condition for Applying Chi-Square Test
- 3.2 Yates Correction
- 3.3 Application of Chi Square Test - Test of Goodness of Fit and Test of Independence
- 3.4 Additive property
- 3.5 Uses and Limitations of Chi Square test



**Unit 4** **(13 Hours)**

**Analysis of Variance**

- 4.1 Variance Ratio Test and applications
- 4.2 Assumptions in Variance Ratio Test
- 4.3 Techniques of Analysis of Variance
  - 4.3.1 One-Way Classification Model
  - 4.3.2 Two-Way Classification Model

**Unit 5** **(12 Hours)**

**Correlation and Regression Analysis**

- 5.1 Need and Types of Correlation
- 5.2 Methods of studying Correlation
- 5.3 Difference between Correlation and Regression Analysis
- 5.4 Regression Lines
- 5.5 Regression Equations

**BOOK FOR STUDY**

Gupta, S.P. *Statistical Methods*. New Delhi: Sultan Chand, 2007.

Chapter 6	Sections 6.1- 6.5, 6.9 (related problems only)
Chapter 7	Sections 7.1 -7.5, 7.8 (related problems only)
Chapter 12	Sections 12.1-12.5
Chapter 13	Sections 13.1-13.7, 13.9 (related problems only)
Chapter 14	Sections 14.1-14.6, 14.8 (related problems only), 14.10
Chapter 15	Sections 15.1-15.8

**BOOKS FOR REFERENCE**

Agarwal, Y.P. *Statistical Methods, Concepts, Applications and Computations*. New Delhi: Sterling, 2006

Beri, G.C. *Business Statistics*. New Delhi: Tata Mc Graw Hill, 2007

Pillai R.S.N., Bagavathi. *Practical Statistics*, Second Edition. New Delhi: S.Chand & Co. Ltd. 2003.

Sharma, J.K. *Business Statistics*. New Delhi: Pearson Education, 2006.

Veerarajan T. *Fundamentals of Mathematical Statistics*. Chennai: Yes Dee Publishing Pvt. Ltd. 2017.

**WEBSITE**

<https://www.mv.helsinki.fi/home/jmisotal/BoS.pdf>  
[http://onlinestatbook.com/Online\\_Statistics\\_Education.pdf](http://onlinestatbook.com/Online_Statistics_Education.pdf)  
[www.isical.ac.in/](http://www.isical.ac.in/)  
[www.rss.org.uk/](http://www.rss.org.uk/)  
[www.amstat.org/](http://www.amstat.org/)

## PATTERN OF ASSESSMENT

**Theory: 10%; Problems: 90%**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes.**

Section A:  $3 \times 2 = 6$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:** **Total Marks: 50**

## Quiz/Assignments/Problem Solving

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**VECTOR ANALYSIS AND APPLICATIONS**

**CODE: 19MT/MC/VA53**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To familiarize the concept of magnitude and direction of a quantity
- To introduce the concepts and applications of line, surface and volume integral

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the concepts of divergence, curl, and the Laplacian along with their physical and geometrical interpretations
- develop the ideas of line, surface and volume integrals and its calculations in rectangular, cylindrical and spherical coordinate systems
- investigate the relation between the line, surface and volume integrals

**Unit 1**

**(10 Hours)**

**Vector Differentiation**

1.1 Scalar and Vector Functions

1.2 Scalar Fields and Vector Fields

1.3 Derivative of a Vector Function

1.4 Geometrical Significance of  $\frac{d\vec{r}}{dt}$

1.5 Unit Tangent Vector of a Curve

1.6 Derivative of Sum, Scalar and Vector Product of Vector Functions

1.7 Partial Derivatives of a Vector Function

**Gradient**

1.8 Gradient of a Scalar Point Function

1.9 Formulas involving Gradient

1.10 Directional Derivative of a Scalar Function

**Unit 2**

**(10 Hours)**

**Divergence and Curl**

2.1 Divergence of a Vector Point Function

2.2 Curl of a Vector Point Function

2.3 Solenoidal and Irrotational Vectors

2.4 Laplace's Equation

2.5 Vector Identities

**Unit 3 (10 Hours)**

**Vector Integration**

- 3.1 Integration of Vector Functions
- 3.2 Definite Integrals
- 3.3 Line Integral, Surface Integral, Volume Integral

**Unit 4 (10 Hours)**

**Vector Integration (contd.)**

- 4.1 Relation between the Line Integral and Surface Integral: Stokes' Theorem (statement only)
- 4.2 Relation between the Surface Integral and Volume Integral: Gauss Divergence Theorem (statement only)
- 4.3 A Special Case of Stokes' Theorem: Green's Theorem in Two Dimensions (statement only)
- 4.4 Verification of the Theorems

**Unit 5 (12 Hours)**

**Application of Vector Differentiation and Vector Integration to Differential Geometry and Mechanics**

- 5.1 Geometrical Significance of the gradient
- 5.2 Physical Interpretation of Divergence
- 5.3 Physical Interpretation of Curl
- 5.4 Unit Normal Vector to given Surfaces
- 5.5 Orthogonal Curvilinear Coordinate Systems – Cylindrical and Spherical Coordinate Systems
- 5.6 Divergence and Curl of a Vector Point Function in terms of a Curvilinear Coordinates

**BOOK FOR STUDY**

Shalini Singh, *Vector Calculus*, New Delhi: Sarup & Sons, 2013.  
Chapter 2, 3, 4 (excluding Sections 2.3, 2.4, 2.5)

**BOOKS FOR REFERENCE**

Absos Ali Shaikh and Sanjib Kumar Jana, *Vector Analysis with Applications*, New Delhi: Narosa, 2009

Prasun Kumar Nayak, *Vector Algebra and Analysis with Applications*, Hyderabad: Universities Press Pvt. Ltd., 2017

Seymour Lipschutz, Dennis Spellman, Murray R. Spiegel, *Vector Analysis and an Introduction to Tensor Analysis* (Second Edition), Schaum's Outline Series, New Delhi: Tata McGraw Hill, 2009

## WEB RESOURCES

<https://www.khanacademy.org/math/multivariable-calculus/integrating-multivariable-functions/line-integrals-in-vector-fields-articles/a/line-integrals-in-a-vector-field>  
<https://www.math24.net/geometric-applications-line-integrals/>  
<https://unacademy.com/lesson/surface-integral-geometric-interpretation/ZXI8F1HY>

## PATTERN OF ASSESSMENT

**Theory: 10%; Problems: 90%**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                      Total Marks: 50**

Seminars/Quiz/Open Book Test/Group Discussion/Assignments/Problem Solving

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ALGEBRAIC STRUCTURES**

**CODE: 19MT/MC/AS55**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce the concept of abstract algebra
- To develop an understanding of fundamental algebraic structures

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have a working knowledge of important mathematical concepts in abstract algebra
- understand the structure and characteristics of groups, rings and fields
- gain experience in proving theorems and solving problems

**Unit 1 (15 Hours)**

**Group Theory**

- 1.1 Elementary Properties of Groups
- 1.2 Finite Groups
- 1.3 Subgroups
- 1.4 Cyclic Groups – Properties, Classification of Subgroups of Cyclic Groups

**Unit 2 (16 Hours)**

**Permutation Groups**

- 2.1 Cycle notation
- 2.2 Properties of Permutations
- Symmetry Groups**
- 2.3 Isometries
- 2.4 Classification of Finite Plane Symmetry Groups
- 2.5 Classification of Finite Groups of Rotations in  $\mathbb{R}^3$

**Isomorphisms**

- 2.6 Cayley's Theorem
- 2.7 Properties of Isomorphisms
- 2.8 Automorphisms

**Unit 3 (15 Hours)**

**Cosets and Lagrange's Theorem**

- 3.1 Properties of Cosets
- 3.2 Lagrange's Theorem and Consequences
- 3.3 An Application of Cosets to Permutation Groups
- Normal Subgroups and Factor Groups**
- 3.4 Normal subgroups

### 3.5 Factor Groups

## Unit 4 (16 Hours)

### Group Homomorphism

4.1 Properties of Homomorphisms

4.2 The First Isomorphism Theorem

### Ring Theory

4.3 Properties of Rings

4.4 Subrings

4.5 Integral Domains

4.6 Fields

4.7 Characteristic of a Ring

## Unit 5 (16 Hours)

### Ring Theory (contd.)

5.1 Ideals and Factor Rings

5.2 Prime Ideals and Maximal Ideals

5.3 Ring Homomorphisms

5.4 Properties of Ring Homomorphisms

5.5 Field of Quotients

## BOOKS FOR STUDY

Gallian Joseph A., *Contemporary abstract algebra*, New Delhi: Cengage Learning, 8<sup>th</sup> Edition, Reprint 2016.

Chapters 2 – 7, 9 – 10, 12 – 15, 27 (Pages 42-91, 99-113, 118-152, 185-192, 208-221, 245-293, 461-466 only)

## BOOKS FOR REFERENCE

Dipak Chatterjee, *Abstract Algebra*, 2<sup>nd</sup> Edition, New Delhi: Prentice Hall of India, 2005.

Herstein, I. N., *Topics in Algebra* 2<sup>nd</sup> ed. New Delhi: Wiley, 2007, Reprint 2017.

Kishore Arora, *Concepts and Applications of Group Theory*, New Delhi : Anmol Publications Pvt. Ltd., 2003.

Neal H. McCoy, Gerald J. Janusz, *Introduction to Abstract Algebra*, Sixth Edition. New Delhi: Academic Press, 2005

Santiago, M. L., *Modern Algebra*. New Delhi : Tata McGraw-Hill, 2001.

## WEB RESOURCES

<https://www.maa.org/press/periodicals/loci/joma/group-visualization-with-igroup-exploreri>

[www.mathcs.emory.edu/~dzb/teaching/421Fall2014/VGT-Ch-1-2.pdf](http://www.mathcs.emory.edu/~dzb/teaching/421Fall2014/VGT-Ch-1-2.pdf)

## PATTERN OF ASSESSMENT

**Theory: 80%; Problems: 20%**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                            Total Marks: 50**

Seminars/Quiz/Group Discussion/Assignments/Problem Solving/Theorem Writing Technique

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF REAL ANALYSIS**

**CODE: 19MT/MC/RA55**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To enhance the knowledge of abstract mathematics on the real line
- To introduce the concepts for understanding and analyzing abstract mathematics on the metric space

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have acquired knowledge of abstract mathematics on the real line
- have learnt the concepts for understanding and analyzing abstract mathematics on the metric space
- have the knowledge of real functions, limit of functions and their properties

**Unit 1 (15 Hours)**

**Limits and Continuity on  $\mathbb{R}^1$**

- 1.1 Limit of a Function on the Real Line
- 1.2 Functions Continuous at a Point on the Real Line – Reformulation
- 1.3 Discontinuous functions on  $\mathbb{R}^1$

**Unit 2 (16 Hours)**

**Limits and Continuity on Metric Spaces**

- 2.1 Metric Space
- 2.2 Limits in Metric Spaces
- 2.3 Functions Continuous on a Metric Space
- 2.4 Open Sets
- 2.5 Closed Sets

**Unit 3 (15 Hours)**

**Connectedness and Completeness on Metric Spaces**

- 3.1 Connected Sets
- 3.2 Bounded Sets and Totally Bounded Sets
- 3.3 Complete Metric Spaces

**Unit 4 (16 Hours)**

**Compactness on Metric Spaces**

- 4.1 Compact Metric Spaces
- 4.2 Continuous Functions on a Compact Metric Space
- 4.3 Continuity of an inverse function

#### 4.4 Uniform Continuity

### Unit 5

(16 Hours)

#### Riemann Integration

5.1 Definition of the Riemann Integral

5.2 Properties of the Riemann Integral

5.3 Derivatives

5.4 Rolles' Theorem

5.5 The Law of the Mean

5.6 Fundamental Theorem of Calculus

5.7 Improper Integrals

### BOOK FOR STUDY

Goldberg Richard R. *Methods of Real Analysis*. Indian Edition. New Delhi: Oxford, 1970, Reprint 2017.

Chapter 4 – Section: 4.1 – 4.3

Chapter 5 – Sections: 5.1 – 5.6

Chapter 6 – Sections: 6.1 – 6.8

Chapter 7 – Sections: 7.2, 7.4 - 7.10

### BOOKS FOR REFERENCE

Kumar Ajit, Kumarasan S. *A Basic Course in Real Analysis*, USA: CPC Press 2014

Mainak Mukherjee, *A Course in Real Analysis*, New Delhi: Narosa, 2011.

Malik S C, *Principles of Real Analysis*. Third edition. New Delhi: New Age, 2011.

Nader Vakil, *Real Analysis through Modern Infinitesimals*, Cambridge, 2011.

Shanti Narayan, M.D.Raisinghania, *Elements of Real Analysis*, New Delhi: S.Chand, eighth revised edition 2007.

### WEB RESOURCES

[http://ramanujan.math.trinity.edu/wtrench/texts/TRENCH\\_REAL\\_ANALYSIS.PDF](http://ramanujan.math.trinity.edu/wtrench/texts/TRENCH_REAL_ANALYSIS.PDF)

<http://www.personal.psu.edu/dpl14/java/calculus/limits.html>

<https://www.math.stonybrook.edu/~aknapp/download/b2-realanal-inside.pdf>

<https://www.jirka.org/ra/realanal.pdf>

<https://www.isid.ac.in/~tridip/Teaching/MathEco/LectureNotes/05RealAnalysisBasicConcepts.pdf>

<http://www.freebookcentre.net/Mathematics/Real-Analysis-Books.html>

### PATTERN OF ASSESSMENT

**Theory : 60%; Problem 40%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:****Total Marks: 50**

Theorem writing techniques/Quiz/Assignments/Problem Solving

**End Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTEGRAL TRANSFORMS**

**CODE: 19MT/MC/IT54**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the concept of Laplace, Fourier and **Z** – transform of different functions
- To learn the application of Laplace transform to solve Differential Equations and **Z** transform to solve Difference equations

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the different methods of finding transforms of different functions
- appreciate the procedure to obtain solution of differential equations involving Laplace transform
- visualize the use of **Z**-transform in solving difference equation

**Unit 1 (12 Hours)**

**Laplace Transform**

- 1.1 Definition of Laplace Transform
- 1.2 Laplace Transform of  $e^{-at}$ ,  $\cos at$ ,  $\sin at$  and  $t^n$ , where  $a$  is a Positive Integer
- 1.3 Laplace Transform of Periodic Functions
- 1.4 Some General Theorems
- 1.5 Evaluation of Integrals using Laplace Equations
- 1.6 Inverse Laplace Transform

**Unit 2 (14 Hours)**

**Application of Laplace Transform to Differential Equations**

- 2.1 Laplace Transform to Solve System of Differential Equations with Constant Coefficient
- 2.2 Laplace Transform to Solve Ordinary Differential Equations with Variable Coefficients
- 2.3 Laplace Transform to solve Differential Equations Involving Integrals
- 2.4 Laplace Transform to Evaluate Certain Integrals

**Unit 3 (12 Hours)**

**Fourier Transform**

- 3.1 Definition of Fourier Transform
- 3.2 Fourier Integral Theorem
- 3.3 Fourier Transform Pair
- 3.4 Properties of Fourier Transforms

**Unit 4** **(13 Hours)**

**Z - Transforms**

- 4.1 Definition of  $Z$  – Transform
- 4.2  $Z$  – Transforms of Some Standard Sequences
- 4.3 Existence of  $Z$  – Transform
- 4.4 Properties of  $Z$  – Transform
- 4.5 Initial and Final Value Theorem

**Unit 5** **(14 Hours)**

**Z – Transform (contd.)**

- 5.1 Inverse  $Z$  – Transform
- 5.2 Evaluation of Inverse  $Z$  – Transform – Power Series Method, Partial Fraction Method, Inversion Integral Method
- 5.3 Solution of Difference Equations using  $Z$ – Transform

**BOOKS FOR STUDY**

Narayanan S. and T.K. Manicavachagam Pillay T. K., *Calculus - Volume III*. Madras: S. Viswanathan, 2006.  
Chapter 5            Sections 1 – 12

S. Santha, *Transforms and Partial Differential Equations*, Vijay Nicole Imprints Private Limited, Chennai, 2009.  
Chapter 4            Sections 4.1 – 4.5  
Chapter 5            Sections 5.1 – 5.6, 5.8 – 5.10

**BOOKS FOR REFERENCE**

S. Sankarappan, S. Kalavathy, S. Santha, B. Praba, *Applied Mathematics*, Vijay Nicole Imprints Private Limited, Chennai, 2009.

A.R. Vasishtha and R.K. Gupta, *Integral Transforms*, Krishna Prakashan Mandir, Meerut, 1972.

Baidyanath Patra, *An Introduction to Integral Transforms*, Levant Books, India, 2016.

Erwin Kreyszig, *Advanced Engineering Mathematics*, 8<sup>th</sup> Edition, Wiley India, 2006.

Donald A. McQuarrie, *Mathematical Methods for Scientists & Engineers*, Viva Books Pvt. Ltd. New Delhi, 2009.

**WEB RESOURCES**

<https://www.intmath.com/laplace-transformation/table-laplace-transforms.php>  
[https://www.tutorialspoint.com/signals\\_and\\_systems/fourier\\_transforms.htm](https://www.tutorialspoint.com/signals_and_systems/fourier_transforms.htm)  
[https://www.comm.utoronto.ca/~dkundur/course\\_info/discrete-time-systems/notes/Kundur\\_DTS\\_Chap3.pdf](https://www.comm.utoronto.ca/~dkundur/course_info/discrete-time-systems/notes/Kundur_DTS_Chap3.pdf)

## **PATTERN OF ASSESSMENT**

**Theory: 10% ; Problems: 90%**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                            Total Marks: 50**

Quiz/Open Book Tests/Assignments/Problem Solving

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Inter Disciplinary Core Course Offered to Students of Mathematics by the Departments of  
Mathematics and Computer Science**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MATHEMATICS THROUGH SCIENTIFIC SOFTWARE**

**CODE: 19ID/IC/MS55**

**CREDITS: 5**

**L T P: 1 0 5**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce software tools for implementing Mathematical and Statistical concepts
- To visualize data and mathematical functions
- To prepare and process data for statistical analysis
- To familiarize multimedia techniques to demonstrate a problem or solution

**LEARNING OUTCOMES OF THE COURSE**

On successful completion of the course, students will be able to

- use software tools for implementing Mathematical and Statistical concepts
- understand data and mathematical functions
- demonstrate a situation through multimedia
- develop the ability to build and assess data for further analysis
- continue further studies in advanced R programming

**Unit 1 (13 Hours)**

**Microsoft Excel**

- 1.1 Building Basic Formula – Working with Charts – Pivot Table
- 1.2 Importing Data – Data Cleaning - Data Validation – Creating named ranges and constants
- 1.3 Form Controls
- 1.4 Working with macros and forms
- 1.5 Solver – Goal Seek

**Unit 2 (18 Hours)**

**Multimedia: GIMP**

- 2.1 GIMP Basics – Working with Images – Transformations: Global and Local
- 2.2 Drawing and Illustration – Logos and Textures
- 2.3 Animations – Animated Text – Using Animation Tools – Using GAP

**Unit 3 (15 Hours)**

**Mathematical Software: MATHCAD**

- 3.1 Creating Mathcad Worksheets: Working with Math, text regions
- 3.2 Computational Features: Calculations – Operators – Built-in functions – Vectors, Matrices and Data Arrays
- 3.3 Symbolic Calculations
- 3.4 Graphing: 2D plots and 3D plots

- Unit 4** (16 Hours)  
**Statistical Software: R**  
4.1 Data Types in R – Numeric, Integer, Complex, Logical, Character, Vectors, Matrices & Arrays, Lists, Data Frames, Factors, Strings  
4.2 Graphics using R – Pie Chart, Scatter Plot, Line Plot, Histograms, Box Plot, Bar Plot

- Unit 5** (16 Hours)  
**Statistical Analysis using R**  
5.1 Mean, Median, Mode, Standard Deviation & Variation, Quartile Ranges  
5.2 Normal Distribution and Binomial Distribution  
5.3 Correlation Analysis and Regression Analysis  
5.4 Analysis of Variance (ANOVA)  
5.5 Chi Square Test and Hypothesis Testing

### BOOKS FOR STUDY & REFERENCE

Curtis, D. Frye. Microsoft Excel 2013, Step by Step. 2013.

Jason van Gumster Robert Shimonski, *GIMP Bible*, Wiley Publishing, 2010.

Larsen W Ronald, Introduction to Mathcad 13, New Jersey: Pearson Prentice Hall, 2007.

Olivier Lecarme, Karine Delvare, The Book of GIMP: A Complete Guide to Nearly Everything, No Starch Press, 2013.

Sudhamathy, Jothi Venkateswaran. R Programming – An Approach to Data Analytics. Chennai: MJP Publishers, 2018.

*User's Guide Mathcad 14*. USA: Parametric Technology Corporation, 2007.

### WEB RESOURCES

<https://www.engr.colostate.edu/ECE562/mathcad.pdf>  
<https://docs.gimp.org/2.10/en/>

### PATTERN OF ASSESSMENT

**Practical: 80%; Theory: 20%**

#### Continuous Assessment Test

**Total Marks: 50**

**Duration: 90 minutes**

Section A:  $10 \times 1 = 10$

Section B:  $2 \times 20 = 40$  (Three questions to be set)

#### Other Components:

**Total Marks: 50**

Quiz/Assignments/Problem Solving through software/Project

#### End Semester Examination:

Question paper to be prepared jointly by one course teacher and one internal–external examiner

**Total Marks: 100**

**Duration: 3 hours**

Section A:  $20 \times 1 = 20$  (Twenty questions to be set selecting at least three questions from each unit)

Section B:  $4 \times 20 = 80$  (Five questions to be set without omitting any unit)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**VECTOR SPACES AND LINEAR TRANSFORMATIONS**

**CODE: 19MT/MC/VL64**

**CREDITS: 4**

**L T P: 4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- Intended to develop an understanding of linear algebraic structures
- To enable understanding of the concept of linear transformations and their matrix representation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- critically analyze and construct mathematical arguments that relate to the study of introductory linear algebra
- use computational techniques and algebraic skills essential for the study of systems of linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, orthogonality and diagonalization
- apply the theoretical results developed to obtain the least square curves to fit the data

**Unit 1 (13 Hours)**

**Vector Spaces**

- 1.1 General Vector Spaces and Subspaces
- 1.2 Linear Combinations
- 1.3 Linear Dependence and Independence
- 1.4 Properties of Bases

**Unit 2 (13 Hours)**

**Vector Spaces (contd.)**

- 2.1 Rank
- 2.2 Orthonormal Vectors and Projections
- 2.3 Gram-Schmidt Orthogonalization Process
- 2.4 Kernel, Range and the Rank-Nullity Theorem

**Unit 3 (13 Hours)**

**Transformations**

- 3.1 Matrix Transformations, Rotations and Dilations
- 3.2 One-to-One Transformations and Inverse Transformations
- 3.3 Transformations and Systems of Linear Equations

**Unit 4 (13 Hours)**

**Coordinate Representations**

- 4.1 Coordinate Vectors

- 4.2 Change of Basis
- 4.3 Matrix Representations of Linear Transformations
- 4.4 Importance of Matrix Representation
- 4.5 Diagonalization of Matrices
- 4.6 Diagonalization of Symmetric Matrices - Orthogonal Diagonalization
- 4.7 Diagonal Matrix Representation of a Linear Operator

**Unit 5 (13 Hours)**

**Inner Product Spaces**

- 5.1 Inner Product
- 5.2 Norm of a Vector
- 5.3 Orthogonal Vectors
- 5.4 Approximation of Functions and Coding Theory
- 5.5 Least Squares Curves

**BOOKS FOR STUDY**

Williams Gareth, *Linear Algebra with Applications* 6<sup>th</sup> Edition. New Delhi: Narosa, 2008.

Chapter 2: Section 2.5

Chapter 4: Sections 4.1 – 4.9

Chapter 5: Sections 5.1 – 5.3

Chapter 6: Sections 6.1, 6.3, 6.4

**BOOKS FOR REFERENCE**

Herstein, I. N., *Topics in Algebra* 2<sup>nd</sup> ed. New Delhi: Wiley, 2007, Reprint 2017

Lang Serge, *Algebra* 3<sup>rd</sup> Revised Ed. New Delhi: Springer International Edition, 2004.

Strang, Gilbert. *Linear Algebra and its Applications*, Fourth Edition. New Delhi: Cengage Learning India Pvt. Ltd., 2006.

Stroud, K.A., and Dexter J. Booth, *Linear Algebra*, New York: Industrial Press, 2008.

**WEB RESOURCES**

<http://www.math.ucla.edu/~tao/resource/general/115a.3.02f/GramSchmidt.html>

<http://www.math.ucla.edu/~tao/resource/general/115a.3.02f/EigenMap.html>

**PATTERN OF ASSESSMENT**

**Theory: 60%; Problems: 40%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:**

**Total Marks: 50**

Seminars

Quiz

Group Discussion

Assignments  
Problem Solving  
Theorem Writing Technique

**End-Semester Examination:                      Total Marks: 100                      Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF COMPLEX ANALYSIS**

**CODE : 19MT/MC/CA65**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce the analysis of complex numbers
- To expose a fertile area of pure mathematics as a source of powerful technique that are widely applied in sciences and advanced Engineering mathematics

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate understanding of the basic concepts in complex analysis
- understand the importance of analytic functions in applications to the field of sciences and advanced Engineering
- apply conformal mapping in solving boundary value problems
- apply the methods of complex analysis to evaluate definite integrals and infinite series

**Unit 1 (15 Hours)**

**Analytic Functions**

- 1.1 Functions of a complex variable
- 1.2 Continuity
- 1.3 Derivatives
- 1.4 Cauchy-Riemann Equations
- 1.5 Sufficient Conditions for Differentiability
- 1.6 Polar Coordinates
- 1.7 Analytic Functions
- 1.8 Harmonic Functions
- 1.9 Harmonic conjugates

**Unit 2 (15 Hours)**

**Elementary Functions**

- 2.1 The Exponential Function
- 2.2 The Logarithmic Function
- 2.3 Branches and Derivatives of Logarithms

**Mapping by Elementary Functions**

- 2.4 Linear Transformations

- 2.5 The Transformation  $w = \frac{1}{z}$
- 2.6 Linear Fractional Transformations
- 2.7 An Implicit Form
- 2.8 Mappings of the Upper half plane
- 2.9 The Transformation  $w = \sin z$

**Unit 3**

**Integrals**

**(16 Hours)**

- 3.1 Cauchy-Goursat Theorem
- 3.2 Simply Connected Domains
- 3.3 Multiply Connected Domains
- 3.4 Cauchy Integral Formula
- 3.5 An Extension of the Cauchy Integral Formula
- 3.6 Some Consequences of the Extension
- 3.7 Liouville's Theorem and the Fundamental Theorem of Algebra
- 3.8 Maximum Modulus Principle

**Unit 4**

**Conformal Mapping**

**(16 Hours)**

- 4.1 Preservation of Angles
- 4.2 Scale Factors
- Applications of Conformal Mapping**
- 4.3 Two-dimensional Fluid Flow
- 4.4 The Stream Function
- 4.5 Flows Around a Corner and Around a Cylinder

**Series**

- 4.6 Taylor Series
- 4.7 Laurent Series

**Unit 5**

**Residues and Poles**

**(16 Hours)**

- 5.1 Isolated Singular Points
- 5.2 Residues
- 5.3 Cauchy's Residue Theorem
- 5.4 Residue at Infinity
- 5.5 The Three Types of Isolated Singular Points
- 5.6 Residues at Poles
- 5.7 Zeros of Analytic Functions
- 5.8 Zeros and Poles

**Applications of Residues**

- 5.9 Evaluation of Improper Integrals

- 5.10 Definite Integrals Involving Sines and Cosines
- 5.11 Argument Principle
- 5.12 Rouché's Theorem

### **BOOKS FOR STUDY**

Brown J.W. and R.V. Churchill. *Complex Variables and Applications*. New York: McGraw Hill Education, International Edition 1990, Eleventh reprint 2018.

- Chapter 2 Sections 12, 18, 19, 21 - 26
- Chapter 3 Sections 29 - 31
- Chapter 4 Sections 46 - 54
- Chapter 5 Sections 57 - 62
- Chapter 6 Sections 68 – 75, 76 (Concepts and problems only)
- Chapter 7 Sections 78, 79, 85 - 87
- Chapter 8 Sections 90 - 96
- Chapter 9 Sections 101, 102, 104
- Chapter 10 Sections 113 - 115 (Concepts and examples only)

### **BOOKS FOR REFERENCE**

Arumugam S., A.T. Issac, and A. Somasundaram. *Complex Analysis*. Chennai: Scitech, 2001 Reprint 2019.

Dennis G Zill, *First Course in Complex Analysis With Applications*, Second Edition, Jones and Bartlett, 2010.

Erwin Kreyszig, *Advanced Engineering Mathematics*, Eighth Edition, New Delhi: Wiley India (P) Ltd., 2006.

John H Mathews, *Complex Analysis for Mathematics and Engineering*, New Delhi: Narosa, 2006.

Karunakaran,V, Desai A.R, *Complex analysis*, New Delhi: Narosa, New Delhi, 2005.

### **WEB RESOURCE**

[http://www.malinc.se/math/geogebra/complex\\_numbersen.php](http://www.malinc.se/math/geogebra/complex_numbersen.php)

## **PATTERN OF ASSESSMENT**

**Theory: 70% ; Problems: 30%**

**Continuous Assessment:            Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:            Total Marks: 50**

Seminars

Quiz

Problem Solving

Theorem Writing Technique

**End-Semester Examination:    Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF MECHANICS**

**CODE: 19MT/MC/PM65**

**CREDITS: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To understand the concept of different forces and moments and their equilibrium with reference to a coordinate system
- To widen appreciation of the variety of phenomena covered by mechanics and the techniques available to handle them
- To provide an adequate foundation for further self-study

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the concepts of Statics and Dynamics applicable in real life
- have acquired wide knowledge of handling problems related to Mechanics
- have acquired sufficient knowledge for further studies in Mechanics at a higher level

**Unit 1**

**(16 Hours)**

**Forces acting on a Particle – Concurrent Forces**

- 1.1 Forces
- 1.2 Types of Forces
- 1.3 Parallelogram Law of Forces
- 1.4 Triangle Law of Forces
- 1.5 Polygon Law of Forces
- 1.6 Lami's Theorem
- 1.7 Conditions of Equilibrium of any Number of Forces Acting on a Particle

**Unit 2**

**(17 Hours)**

**Non-Concurrent Coplanar Forces**

- 2.1 Moment of a Force about a Point and a Line
- 2.2 Parallel Forces
- 2.3 Varignon's Theorem
- 2.4 Couples
- 2.5 Properties of Couples
- 2.6 Coplanar Forces
- 2.7 Reduction of any Coplanar System of Forces
- 2.8 Conditions of Equilibrium
- 2.9 Equilibrium of Three Forces Acting on a Rigid Body



**Unit 3 (15 Hours)**  
**Friction**

- 3.1 Laws of Static Friction
- 3.2 Coefficient of Friction
- 3.3 Angle of Friction
- 3.4 Cone of Friction
- 3.5 Law of Kinetic Friction
- 3.6 Equilibrium of a Particle on an Inclined Plane
- 3.7 Condition for Sliding and Toppling

**Unit 4 (16 Hours)**  
**Equilibrium of Strings and Chains**

- 4.1 Equilibrium of Strings and Chains
- 4.2 Common Catenary
- 4.3 Suspension Bridge

**Linear Motion in a Resisting Medium**

- 4.4 Equations of Motion of a Particle Falling under Gravity in a Resisting Medium under Law of Resistance  $mkv$ ,  $mkv^2$
- 4.5 Limiting Velocity

**Unit 5 (15 Hours)**  
**Rigid Body Dynamics**

- 5.1 Moment of Inertia
- 5.2 Theorem of Parallel and Perpendicular Axes (statements only)
- 5.3 Moment of Inertia of Simple Standard Bodies
- 5.4 Motion of a Rigid Body
- 5.5 Rotation about a Fixed Axis
- 5.6 Expressions for Kinetic Energy
- 5.7 Angular Momentum
- 5.8 Equation of Motion

**BOOKS FOR STUDY**

Dharmapadam A.V. *Statics*, Chennai: S. Viswanathan, 2006.

- |           |                                  |
|-----------|----------------------------------|
| Chapter 1 | Sections 1.1 – 1.3               |
| Chapter 2 | Sections 2.1 – 2.10, 2.12 – 2.14 |
| Chapter 3 | Sections 3.1 – 3.8               |
| Chapter 5 | Section 5.1 – 5.3                |

Dharmapadam A.V. *Dynamics*, Chennai: S. Viswanathan, 2006.

- |                              |                                 |
|------------------------------|---------------------------------|
| Chapter 8                    | Section 8.1, 8.2, 8.5, 8.6, 8.7 |
| Appendix II and Appendix III |                                 |

**BOOKS FOR REFERENCE**

Pandit Ashok S. *Mechanics*. New Delhi: Narosa, 2001.

Duraipandian P, Laxmi Duraipandian, Muthamizh Duraipandian, *Mechanics*, New Delhi: S.Chand, 2018

Raisinghania M.D., *Dynamics*, New Delhi: S. Chand, 2006.

Vittal P.R., *Statics*, Margham Publications, Chennai, 2008.

Kakani, S.L., *Mechanics*, New Delhi: Viva, 2005.

Hans H.S., *Mechanics*, New Delhi: Tata McGraw, 2003.

## WEB RESOURCES

<https://physics.gurumuda.net/moment-of-force-problems-and-solutions.htm>

[https://www.iit.edu/arc/workshops/pdfs/Moment\\_Inertia.pdf](https://www.iit.edu/arc/workshops/pdfs/Moment_Inertia.pdf)

<http://www.physicsclassroom.com/class/newtlaws/Lesson-2/Types-of-Forces>

## PATTERN OF ASSESSMENT

**Theory: 50%; Problems: 50%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Seminars/Quiz/Open Book Tests/Group Discussion/Assignments/Problem Solving/  
Exhibition

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE BRANCH I - MATHEMATICS**

**SYLLABUS**

**(Effective from the academic year 2019-2020)**

**OPTIMIZATION TECHNIQUES**

**CODE: 19MT/ME/OT45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To formulate linear programming problem for simple mathematical models
- To develop mathematical skills to analyse and solve linear programming and network models arising from a wide range of applications

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- develop a general understanding of the Operations Research methodology to decision making
- identify best techniques to solve a specific problem in linear model of OR
- gain knowledge to apply CPM and PERT techniques, to plan, schedule, and control project activities.

**Unit 1 (14 Hours)**

**Linear Programming**

- 1.1 Formulation of Linear Programming Problems
- 1.2 Graphical Method of Solution
- 1.3 Canonical and Standard Form
- 1.4 Simplex Method
- 1.5 Artificial Variable Technique: Big-M Method

**Unit 2 (14 Hours)**

**Duality in LPP**

- 2.1 Formulation of Dual LPP
- 2.2 Characteristics of the Dual Problem
- 2.3 Primal-Dual Optimal Solutions

**Transportation Model**

- 2.4 Introduction and assumptions to the Model
- 2.5 Matrix Terminology
- 2.6 Formulation and Solution of Transportation Model
  - Least Cost method
  - Vogel's Approximation method
  - MODI's Optimality Test
- 2.7 Variants in Transportation Problems

**Unit 3 (12 Hours)**

**Assignment Model**

- 3.1 Formulation and Solution of the Assignment Models
- 3.2 Mathematical Representation of Assignment Models

- 3.3 Comparison with Transportation Model
- 3.4 Hungarian Method for Solution of the Assignment Problems
- 3.5 Travelling Salesman Problem
- Sequencing Models and Related Problems**
- 3.6 Sequencing Problems – Assumptions in Sequencing Problems
- 3.7 Processing  $n$  Jobs through One Machine (SPT rule only)
- 3.8 Processing  $n$  Jobs through Two Machines

**Unit 4 (13 Hours)**

**Theory of Games**

- 4.1 Theory of Games
- 4.2 Characteristics of Games
- 4.3 Game Models – Definitions
- 4.4 Rules for Game Theory
  - 4.4.1 Rule 1: Look for a Pure Strategy
  - 4.4.2 Rule 2: Reduce Game by Dominance
  - 4.4.3 Rule 3: Solve for a Mixed Strategy
- 4.5 Mixed Strategies ( $2 \times 2$  Games) – Mixed Strategies ( $2 \times n$  games or  $m \times 2$  games)

**Unit 5 (12 Hours)**

**Network Analysis in Project Planning**

- 5.1 Project – Project Planning – Project Scheduling – Project Controlling
- 5.2 W.B.S. – Basic Tools and Techniques of Project Management
- 5.3 Role of Network Techniques in Project Management
- 5.4 Network Logic-Numbering the Events
- 5.5 Activity on Node Diagram
- 5.6 Merits and Demerits of AON Diagram
- 5.7 Critical Path Method: Measure of Activity – Time Units
- 5.8 Critical Path Analysis
- 5.9 The Three Floats. PERT: Time Estimates
- 5.10 Frequency Distribution Curve for PERT – Probability of Completing the Whole Project by a given Time

**BOOK FOR STUDY**

Gupta, Premkumar and Hira D.S. *Operations Research*, New Delhi: S.Chand, 2007.

Chapter 2	Section 2.6, 2.9 – 2.14, 2.16 – 2.17.1
Chapter 3	Section 3.1 – 3.6
Chapter 4	Section 4.1 – 4.3, 4.5 – 4.7, 4.10
Chapter 5	Section 5.1 – 5.4
Chapter 6	Section 6.1 – 6.2 (Exclude 6.1-3)
Chapter 9	Section 9.10 – 9.19
Chapter 14	Section 14.1 – 14.13

**BOOKS FOR REFERENCE**

Ackoh R.L, *Fundamentals of Operations Research*, New Delhi: Vikas, 1984.

Panneerselvam, R. *Operations Research*. New Delhi : Prentice-hall, 2002.

Ravindran, A., Don. T. Phillips, and James J. Solberg. *Operations Research-Principles and Practice*. 2<sup>nd</sup> ed. New York: John Wiley, 1987.

Richard Bronson, Govindaswami Naadimuthu, *Schaum's Outlines Operations Research* New Delhi : Tata McGraw Hill, 2011.

Swarup Kanti, Gupta P.K., Man Mohan, *Operations Research*, New Delhi: Sultan Chand, 2009.

## WEB RESOURCES

<https://www.pitt.edu/~jrclass/or/or-intro.html>

<http://www.businessmanagementideas.com/personnel-management/operation-research/operation-research-definition-scope-and-techniques/6556>

<https://nptel.ac.in/courses/110104073/24>

## PATTERN OF ASSESSMENT

**Theory: 20% ; Problems: 80%**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**

Seminars/Quiz/Project/Assignments/Problem Solving

**End-Semester Examination: Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH – I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT**

**19MT/ME/PR45**

**CREDITS : 5**

**PREPARATION OF PROJECT**

The project shall contain around 25 pages and shall be typed with double spacing.  
The format is as follows:

1. Cover page shall contain
  - a) Title of the project
  - b) Project submitted at the elective level for the B.Sc. Degree course in the IV semester
  - c) Name of the Candidate  
Department number
  - d) Department of Mathematics  
Stella Maris College (Autonomous), Chennai – 600 086
  - e) Month, Year
2. The project shall contain
  - a) Contents page
  - b) At least 2 chapters including an introductory chapter (comprising motivation, basic concepts needed / used in the project and outline of the project)
  - c) Conclusions / interpretations arrived at may be given at the end of each problem in the chapter concerned
  - d) List of figures / list of abbreviations (if needed) shall be given as an appendix
  - e) Bibliography shall be given in alphabetical order at the end in MLA format
3. Each candidate may prepare 3 copies of the project, one copy for her and submit 2 copies to the Head of the department before the commencement of the fourth semester examination.
4. The candidate may be advised that the project will be valued based on the criteria of
  - a) Motivation towards the chosen area
  - b) formulation of the problem
  - c) Methodology, analysis, logic and reasoning
  - d) Capacity to interpret the results obtained
5. Internal Assessment will be based on Drafts I and II during the semester

6. The Controller of Examination is requested to arrange for the valuation of the Project as well as the conduct of the Viva – Voce at the college where the candidates take examinations, within two weeks of the last date of examination for B.Sc. degree. The panel of examiners will consist of an internal-external examiner and the Supervisor.
- The guidelines for the Viva-Voce examiners would be that
- a) They will satisfy themselves that this is a work of the candidate as certified by the department
  - b) The project is in the given format and
  - c) The candidate has clear understanding of the concepts, discussed in the project.

The department should certify as follows:

This is to certify that the project in the broad area \_\_\_\_\_ titled \_\_\_\_\_ is submitted by \_\_\_\_\_ at the elective level for the degree of Bachelor of Science (Mathematics) during the year \_\_\_\_\_

sd/  
Head of the Department

sd/  
Supervisor

**PATTERN OF ASSESSMENT: (Totally Internal - No End semester Examination)**

Total marks: 100 marks

**Continuous Assessment:**

Project : 25 marks  
Draft I  
Drafts II

**External Evaluation:**

Project (Final) : 50 marks  
Viva-Voce : 25 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH – I – MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ELEMENTS OF SPACE SCIENCE**

**CODE: 19MT/ME/ES45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To explore the new vistas of the universe governed by mathematics
- To visualize application of mathematics in space science

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- acquire the knowledge of the concepts governed by mathematics to the universe
- visualize the real time application of mathematics in space science
- spot the celestial bodies in the sky by naked eye / binoculars / telescopes

**Unit 1**

**Spherical Trigonometry**

**(12 Hours)**

- 1.1 Spherical Trigonometry
- 1.2 Spherical Triangle- Polar Triangle -Definition
- 1.3 Some properties of spherical triangles
- 1.4 Relations between the Sides and Angles of a Spherical Triangle- Cosine, sine, cotangent Formula, Supplemental cosine Formula, Five Parts Formula, Napier's Formula (statements only)
- 1.5 Napier's analogies
- 1.6 Napier's Rules
- 1.7 Simple worked examples based on the concepts only

**The Earth**

- 1.8 Dip of Horizon and effects of Dip
- 1.9 Twilight-Duration of Twilight – Civil, Nautical and Astronomical Twilights

**Unit 2**

**(11 Hours)**

**Celestial Sphere, Diurnal Motion**

- 2.1 Celestial Sphere, Diurnal Motion- Celestial axis, Celestial Equator - Celestial Horizon, Celestial Meridian
- 2.2 Cardinal points - Declination circles – Verticals – Parallactic angle
- 2.3 Annual motion of the sun – First point of Aries and first point of Libra
- 2.4 Celestial Co-ordinates
- 2.5 To Represent the Different System of Coordinates in the Same Figure
- 2.6 To find the Relation between Right Ascension and Longitude of the Sun
- 2.7 To find the Longitude of Sun on any Day
- 2.8 Latitude of a place
- 2.9 To find the Right Ascension and Declination of a Body



- 2.10 To find the Hour Angle of a Body at Rising or Setting
- 2.11 Morning and evening stars – Circumpolar stars

**Unit 3 (13 Hours)**

**Refraction**

- 3.1 Astronomical refraction - General effects of refraction
- 3.2 To find the Effect of Refraction on the Right Ascension and Declination of a Star
- 3.3 Horizontal Refraction – Effect of Refraction on Dip and Distance of Visible Horizon, Influence of Temperature and Pressure of Atmosphere on Refraction
- 3.4 Simple worked examples

**Geocentric parallax**

- 3.5 Geocentric Parallax – Effects of geocentric parallax
- 3.6 Changes in Right Ascension and Declination of a Body due to Geocentric Parallax, Effect of Geocentric Parallax on the Rising and Setting of a Celestial Body
- 3.7 Angular Diameter-To find relation between horizontal parallax and angular radius of a body
- 3.8 Geocentric Parallax and Refraction compared - Equatorial Horizontal Parallax
- 3.9 Simple worked examples

**Heliocentric parallax**

- 3.10 Heliocentric Parallax (concept only) - Effect of heliocentric parallax

**Aberration**

- 3.11 Aberration of a Star - Effect of Aberration, Comparison of Aberration and Stellar Parallax, Different kinds of Aberration

**Unit 4 (13 Hours)**

**Kepler's Laws**

- 4.1 Kepler's laws of planetary motion
- 4.2 To Calculate the Eccentricity of the Earth's Orbit around the Sun
- 4.3 Verification of Kepler's law - Newton's deduction from Kepler's laws, To derive Kepler's third law from Newton's law of gravitation
- 4.4 To find the mass of a planet

**Eclipse**

- 4.5 Lunar eclipse – Solar eclipse
- 4.6 Condition for the Occurrence of Lunar and Solar Eclipse
- 4.7 Ecliptic Limits - Maximum and Minimum Number of Eclipses near the Node of Lunar Orbit, Maximum Number of Eclipses in a Year
- 4.8 Eclipse Seasons - Effect of Refraction on a Lunar Eclipse – Importance of total solar eclipse
- 4.9 Occultations

**Planetary Phenomena**

- 4.10 Elongation of a planet
- 4.11 Direct and Retrograde Motions of Planets (Geocentric motion of planets)
- 4.12 To find Positions of Two Planets when they are Stationary as seen from each other

**Unit 5 (11 Hours)**

**Conversion of Time**

- 5.1 Relation between Sidereal Time and Mean Time
- 5.2 Conversion of Sidereal Time into Mean Solar Time and vice versa

- 5.3 Standard times
- 5.4 The difference between local times
- 5.5 Simple worked examples based on the concepts only

### **Sky Observation**

**(5 Hours)**

Stars and Constellations  
 Moon  
 Planets  
 Eclipse (depends on the occurrence)  
 Comets, Asteroids and Meteors

## **BOOKS FOR STUDY**

Kumaravelu S., Susheela Kumaravelu, *Astronomy*, Sivakasi: A. Bhaskara Selvan, 2005.

- Chapter 1 Sections 3, 7, 8, 13, 14, 17, 20 – 25, 29, 32
- Chapter 2 Sections 40 - 45, 49 - 53, 56, 57, 60 - 64, 66, 68, 72 - 76, 80, 81
- Chapter 3 Sections 106, 109, 111, 112, 116
- Chapter 4 Sections 119, 121, 124, 131, 133, 134
- Chapter 5 Sections 135 - 138, 141, 144, 145
- Chapter 6 Sections 146, 149, 150, 153-155
- Chapter 7 Sections 180-186
- Chapter 8 Sections 190, 191
- Chapter 9 Sections 195, 196, 202, 203
- Chapter 13 Sections 258, 259, 262, 267 - 269, 272, 273, 276, 279, 282, 284
- Chapter 14 Sections 285, 288, 289, 298, 299, 300, 301

John Scalzi, *The Rough Guide to Universe*, London: Rough Guides Ltd., 2003.  
 (only for Sky Observation)

## **BOOKS FOR REFERENCE**

Bhatia, V.B., *Text Book of Astronomy and Astrophysics with elements of Cosmology*,  
 New Delhi: Narosa, 2001.

Ramachandran, G.V., *A Text Book of Astronomy*, Madurai: Denobili, 1972.

Sidwick, *Introducing Astronomy*, London : Faber & Faber, 1957.

Smart, W.M., *Stellar Dynamics*, London : Cambridge, 1938.

Smart, W.M., *Some Famous Stars*, London : Orient Longman, 1956.

Smart, W.M., *A Text Book on Spherical Astronomy*, London : Cambridge, 1997.

## **WEB RESOURCES**

<http://www.skyandtelescope.com>

<https://twitter.com/skyandtelescope/>

<http://www.livescience.com/space/>

<http://www.universetoday.com/>

[http://www.sciencedaily.com/news/space\\_time/astronomy/](http://www.sciencedaily.com/news/space_time/astronomy/)

## **PATTERN OF ASSESSMENT**

**Theory: 80%; Problems: 20%**

**Continuous Assessment Test:           Total Marks: 50**

**Duration: 90 minutes**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components:                           Total Marks: 50**

Quiz/Assignments/Presentation

**End-Semester Examination:           Total Marks: 100**

**Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting at least two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH I - MATHEMATICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NUMERICAL METHODS WITH PROGRAMS IN C**  
(Theory and Practical)

**CODE: 19MT/ME/NM45**

**CREDITS: 5**

**L T P: 4 0 2**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To expose the standard numerical techniques as a powerful tool in scientific computing
- To enhance the abilities of students to solve problems with the aid of computer

**PRE-REQUISITES**

Knowledge of C Programming

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the basic principles of scientific and engineering programming
- acquire knowledge of developing algorithms for matrix algebra, numerical solution of ordinary differential equations and for finding roots of non-linear equations
- efficiently use the techniques, skills, and computational skills to solve real time numerical problems

**Unit 1 (10 Hours)**

**Numerical Solutions of Algebraic and Transcendental Equations**

1.1 Bolzano's Bisection Method

1.2 Newton Raphson Method

**Iterative Methods of Solving Simultaneous Equations**

1.3 Jacobi's Method

1.4 Gauss Seidel Iteration Method

**Practical (6 Hours)**

1.5 C program to find the Smallest Positive Root / the Largest Negative Root of the equation  $f(x) = 0$  by using the Bisection Method and Newton Raphson Method

1.6 C program to solve a System of Linear Algebraic Equations using Gauss Jacobi's Iteration Method and Gauss Siedel Method

**Unit 2 (12 Hours)**

**Finite Differences**

2.1 Forward Differences

2.2 Backward Differences

2.3 Central Differences

### **Interpolation with Equal Intervals**

- 2.4 Gregory-Newton's Forward and Backward Interpolation Formulae
- 2.5 Central Difference Interpolation Formulae – Gauss Forward and Backward Interpolation Formulae, Stirling's Interpolation Formula

### **Interpolation with Unequal Intervals**

- 2.6 Lagrange's Interpolation Formula for Unequal Intervals

**Practical** (6 Hours)

- 2.7 C program to Interpolate and Extrapolate using the given pairs of values of  $x$  and  $y$  by Newton's Forward and Backward Interpolation Formulae
- 2.8 C program to Interpolate using the given pairs of values of  $x$  and  $y$  by Stirling's Central Difference Interpolation Formula
- 2.9 C program to Interpolate  $y$  using the given pairs of values of  $x$  and  $y$  by Lagrange's Interpolation Formula

**Unit 3** (10 Hours)

### **Numerical Differentiation**

- 3.1 Values of the Derivatives of  $y$  based on Newton's Forward and Backward Interpolation Formulae, Stirling's Formula
- 3.2 Second Order Derivatives of  $f(x)$  using Newton's Formulae - Maximum and Minimum Value of  $f(x)$

**Practical** (4 Hours)

- 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula

**Unit 4** (10 Hours)

### **Numerical Integration**

- 4.1 Newton Cote's Quadrature Formula
- 4.2 Trapezoidal Rule
- 4.3 Simpson's One Third Rule
- 4.4 Simpson's Three Eighth Rule

**Practical** (4 Hours)

- 4.5 C program to Evaluate  $\int_a^b f(x)dx$  numerically using Trapezoidal and Simpson's rule

**Unit 5** (10 Hours)

### **Application**

- 5.1 Numerical Solution to Ordinary Differential Equations
- 5.2 Euler's Method
- 5.3 Runge Kutta Method

**Practical** (6 Hours)

- 5.4 C program to Solve the Differential Equation  $\frac{dy}{dx} = f(x, y)$ ;  $y(x_0) = y_0$  at the Pivotal Points by Euler's Method
- 5.5 C program to Solve Simultaneous Differential Equations  $\frac{dy}{dx} = f(x, y, z)$ ;  $\frac{dz}{dx} = g(x, y, z)$ ;  $y(x_0) = y_0, z(x_0) = z_0$  at the specified pivotal points by using Runge Kutta Method of the Fourth Order

## BOOKS FOR STUDY

Veerarajan T. and Ramachandran T., *Numerical Methods*, New Delhi: McGraw Hill, 2019.  
Chapter 3: Sec. 3.2, 3.4  
Chapter 4: Sec. 4.5  
Chapter 5: Sec. 5.1 – 5.3  
Chapter 6: Sec. 6.1 – 6.7  
Chapter 7: Sec. 7.6  
Chapter 8: Sec. 8.1– 8.3, 8.28  
Chapter 10: Sec. 10.16

## BOOKS FOR REFERENCE

Gupta B.D., *Numerical Analysis*, New Delhi : Konark Publishers Pvt. Ltd, 2000.

Kamala R.S., Solairaj A., Ganesh S., Jansi Rani P.G., *Numerical Method*, Kumbakonam : Anuradha, 2003.

Kandasamy P.K., Thilgavathy K., Gunavathy, *Numerical Methods*, New Delhi: S. Chand 2006.

Venkatachalapathy S.G., *Calculus of Finite Differences and Numerical Analysis*, Chennai: Margham Pub., 2003.

## WEB RESOURCES

<https://numericalmethodstutorials.readthedocs.io/en/latest/>  
<https://www.sanfoundry.com/c-program-solve-linear-equation-one-variable/>  
<https://nptel.ac.in/courses/122106033/>

## PATTERN OF ASSESSMENT

**Derivation: 20%; Problems: 80%**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**  
**Theory: (45 minutes)**

Section A:  $3 \times 2 = 06$  (Three questions to be set)

Section B:  $3 \times 8 = 24$  (Four questions to be set)

**Practical: (45 minutes)**

Section C:  $1 \times 20 = 20$  (Two questions to be set)

**Other Components: Total Marks: 50**  
Seminars/Assignments/Problem Solving /Program Writing Technique

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**  
**Theory: (90 minutes)**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)

Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)

**Practical: (90 minutes)**

Section C:  $2 \times 20 = 40$  (Three questions to be set)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the Department of Mathematics  
to students of B A. / B.Sc. / B.V.A. / B.Com. /B.B.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**THE FASCINATING WORLD OF MATHEMATICS**

**CODE: 19MT/GE/WM22**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To introduce some Indian Mathematicians and their contributions
- To understand Mathematics through puzzles and paradoxes
- To cite a few real life applications through Mathematical models

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have acquired knowledge of some Indian Mathematicians and their contributions
- understand Mathematics through puzzles and paradoxes
- visualize a few real life applications through Mathematical models

**Unit 1**

**(10 Hours)**

**Some Indian Contributors to Mathematics**

- 1.1 Baudhayana
- 1.2 Aryabhata
- 1.3 Bhaskara I
- 1.4 Shridhara
- 1.5 Bhaskara II
- 1.6 Srinivasa Ramanujan
- 1.7 A.A. Krishnaswami Ayyangar
- 1.8 Ramaswamy S. Vaidyanathaswamy
- 1.9 Alladi Ramakrishnan
- 1.10 P.C. Mahalanobis
- 1.11 C. R. Rao
- 1.12 Harish Chandra
- 1.13 C. S. Seshadri
- 1.14 Sakunthala Devi
- 1.15 S. R. Srinivasa Varadhan
- 1.16 R. Parimala
- 1.17 Other Contemporary Mathematicians

**Unit 2**

**(9 Hours)**

**Mathematical Puzzles and Paradoxes**

- 2.1 Magic Squares
- 2.2 Sleeping Beauty Puzzle

- 2.3 Monty Hall Probability Puzzle
- 2.4 Crossword
- 2.5 Number Puzzles by Shakuntala Devi
- 2.6 Missing Square Paradox
- 2.7 Potato Paradox
- 2.8 Zeno's Paradox
- 2.9 Necktie Paradox
- 2.10 Three Prisoner's Paradox
- 2.11 Boy or Girl Paradox
- 2.12 Sorites Paradox
- 2.13 Elevator Paradox
- 2.14 Barber's Paradox

**Unit 3** **(7 Hours)**  
**Project**  
 3.1 Mathematical Model – Applications of Mathematics in real life

### BOOKS FOR STUDY AND REFERENCE

Anne Rooney, *The Story of Mathematics*, China: Arcturus, 2008.

George Gheverghese Joseph, *The Crest of the Peacock Non-European Roots of Mathematics*, Chennai: East-West, 1990.

Kapur J.N., *IXOHOXI*, New Delhi: Mathematical Sciences Trust Society, 1998.

Kapur J.N., *Mathematical Games for All*, New Delhi: Mathematical Sciences Trust Society, 1998.

Kapur J.N., *Some Eminent Indian Mathematicians of Twentieth Century*, New Delhi: Mathematical Sciences Trust Society, 1994.

Ye.I.P. Perelman, *Mathematics can be Fun*, Mir Publishers Moscow: 1973, English Translation, 1985.

Shakuntala Devi, *Puzzle to puzzle you*, New Delhi: Orient Paperbacks, 1976, 45<sup>th</sup> Edition, 2014.

Shakuntala Devi, *Figuring – The Joy of Numbers*, New Delhi: Orient Paperbacks, 1986.

### WEB RESOURCE

[www.samloyd.com](http://www.samloyd.com), Mathematical puzzles of Sam Loyd.

### PATTERN OF ASSESSMENT: (Totally Internal)

**Theory: 20%; Problem: 80%**

**Continuous Assessment Test: Total Marks: 25 marks Duration: 40 minutes**

Section A:  $5 \times 2 = 10$  marks (Choose five from six questions)

Section B:  $3 \times 5 = 15$  marks (Choose three from five questions)

**Other Components: Total marks: 25**

Quiz/Assignment/Problem Solving



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the department of Mathematics  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**CELESTIAL WONDERS**

**CODE: 19MT/GE/CW22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To give insight into astronomy and familiarize with the recent events in space
- To introduce feature of planet, sun, moon and stellar universe

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- acquire some basic knowledge in astronomy
- have understood feature of planet, sun, moon and stellar universe
- explore and study the recent events in space

**Unit 1 (9 Hours)**

**Celestial Sphere and Diurnal Motion**

- 1.1 Celestial Sphere
- 1.2 Diurnal Motion – Celestial Axis and Equator
- 1.3 Celestial Horizon
- 1.4 Zenith and Nadir - Celestial Meridian
- 1.5 Cardinal Points - Different Hemispheres
- 1.6 Visible and Invisible Hemispheres
- 1.7 Declination Circles, Verticals
- 1.8 Rising and Setting
- 1.9 Transit or Culmination
- 1.10 Annual Motion of the Sun – First point of Aries, First point of Libra, Equinoxes and solstices
- 1.11 Circumpolar Stars

**Unit 2 (9 Hours)**

**The Stellar Universe**

- 2.1 The Milky Way Galaxy
- 2.2 Zodiacal Constellations
- 2.3 Stars – Double Stars, Multiple Stars and Variable Stars

**Planetary Phenomena**

- 2.4 Direct Motion and Retrograde Motion
- 2.5 Stationary Points

**The Solar System**

- 2.6 Sun, Planets, Comets, Meteors and Meteoroids

- 2.7 Astronomical Seasons on Earth
- 2.8 Celestial Calendar
- 2.9 Space Probes

### Unit 3

(8 Hours)

#### Moon and Eclipses

- 3.1 Elongation - Conjunction, Opposition, Quadratures.
- 3.2 Daily Motion of the Moon - Age of Moon
- 3.3 Phase of Moon (definition only) - Successive Phases of Moon
- 3.4 Moon Exhibits the Same Side to the Earth
- 3.5 Surface Structure of Moon
- 3.6 The Tides - Tsunami.
- 3.7 Types of Eclipses – Lunar and Solar Eclipse (no derivations), Duration of a Solar Eclipse
- 3.8 Importance of Total Solar Eclipses
- 3.9 Comparison of Solar and Lunar Eclipses

#### Observation and Visit to Planetarium

**Observation in College:** Sun spots, planets, meteors, constellations, moon and its craters, comets and eclipses

### BOOKS FOR STUDY AND REFERENCE

Kumaravelu S., Susheela Kumaravelu, *Astronomy*. Sivakasi: A.Bhaskara Selvan, Revised and Enlarged Edition 2005, Reprint 2009.

Bhatia, V.B, *Text Book of Astronomy and Astrophysics with elements of Cosmology*. New Delhi: Narosa, 2001.

### WEB RESOURCES

Newsletter: <http://www.skyandtelescope.com> & <https://twitter.com/skyandtelescope>  
*National Aeronautics and Space administration*. News and features about NASA research.  
 Newsletter

<http://www.ndtv.com/topic/national-aeronautics-and-space-administration>.

<http://www.nasa.gov/news/index.html>

<http://www.livescience.com/space/>

<http://www.universetoday.com/>

<http://abcnews.go.com/Technology/Space>

[http://www.sciencedaily.com/news/space\\_time/astronomy/](http://www.sciencedaily.com/news/space_time/astronomy/)

### PATTERN OF ASSESSMENT: (Totally Internal)

**Theory: 20%;**

**Problem: 80%**

**Continuous Assessment Test:**

**Total Marks: 25 marks**

**Duration: 40 minutes**

Section A :  $5 \times 2 = 10$  marks (Choose five from six questions)

Section B :  $3 \times 5 = 15$  marks (Choose three from five questions)

**Other Components:**

**Total marks: 25**

Quiz/Assignment/Problem Solving

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the department of Mathematics  
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**SYLLABUS  
(Effective from the academic year 2019-2020)**

**AUTOMATA**

**CODE: 19MT/GE/AM22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To familiarize students with the foundations and principles of theory of computations
- To introduce an abstract model of a computer with an exposure to applications of Automata theory

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the connection between language and computations
- analyze the computational strength of machines
- recognize applications of Automaton

**Unit 1 (10 Hours)**

**Introduction to the Theory of Computation**

- 1.1 Mathematical preliminaries and notations, Sets, Functions and Relations
- 1.2 Graphs and Trees, Proof Techniques
- 1.3 Three Basic Concepts
- 1.4 Languages, Grammars and Automata
- 1.5 Some Applications

**Finite Automata**

- 1.6 Deterministic Finite Accepters
- 1.7 Deterministic Accepters and Transition Graphs
- 1.8 Languages and Dfas, Regular Languages
- 1.9 Nondeterministic Finite Accepters, Definition of a NDA
- 1.10 Why Nondeterminism?

**Unit 2 (8 Hours)**

**Regular Languages and Regular Grammars**

- 2.1 Regular Expressions
- 2.2 Languages Associated with RE
- 2.3 RE Denote RL , RE for RL
- 2.4 RG, Right- and Left-Linear Grammars

**Context Free Languages**

- 2.5 Context Free Grammar
- 2.6 Left Most and Right Most Derivations

**Unit 3****(8 Hours)****Project**

- 3.1 Application of Finite Automata and Formal Language
- 3.2 Design of Vending Machine
- 3.3 Document Language Design
- 3.4 Cryptography
- 3.5 DNA Computing

**BOOK FOR STUDY**

Peter Linz, *An Introduction to Formal Languages and Automata*, 3<sup>rd</sup> Edition. New Delhi: Narosa Publishing House, 2005.

**BOOKS FOR REFERENCE**

Rani Siromoney, *Formal Languages and Automata*. Madras: The Christian Literature Society, 1974.

Behera, Nayak and Pallnayakan, *Formal Languages and Automata Theory*. New Delhi: Vikas, 2014.

Kamala Krithivasan and Rama. R., *Introduction to Formal Languages, Automata Theory and Computation*, Chennai: Pearson, 2009.

**WEB RESOURCE**

<http://www.iitg.ernet.in/dgoswami/Flat-Notes.pdf>  
<https://www.ics.uci.edu/~goodrich/teach/cs162/notes/>  
<https://cs.stanford.edu/people/eroberts/courses/soco/projects/2004-05/automata-theory/apps.html>  
<http://www.sti.uniurb.it/aldini/publications/lfga.pdf>

**PATTERN OF ASSESSMENT: (Totally Internal)**

**Theory 20%;          Problem 80%**

**Continuous Assessment Test:          Total Marks: 25 marks          Duration: 40 minutes**

Section A :  $5 \times 2 = 10$  marks (Choose five from six questions)

Section B :  $3 \times 5 = 15$  marks (Choose three from five questions)

**Other Components:          Total marks: 25**

Quiz/Assignment/Problem Solving

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the department of Mathematics  
to students of B A. / B.Sc. / B.V.A. / B.Com. /B.B.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BASIC MATHEMATICS**

**CODE: 19MT/GE/BM22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**ELGIBILTY CRITERION**

Offered to those who had not studied Mathematics or Business Mathematics in their secondary level of education

**OBJECTIVES OF THE COURSE**

- understand some advances in Matrices
- familiarize the basics of Differentiation and Integration
- learn further theory of equations

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have acquired some advanced knowledge in Matrices
- have understood basics of Differentiation and Integration
- explore further in the theory of equations

**Unit 1 (8 Hours)**

**Matrices**

- 1.1 Matrices-Elementary Concepts
- 1.2 Evaluation of Determinant of a square matrix
- 1.3 Types of Matrices-Sum and product of Matrices
- 1.4 Inverse of a square matrix of order 2 and order 3
- 1.5 Rank of Matrix

**Unit 2 (10 Hours)**

**Theory of Equations**

- 2.1 Relation between roots and coefficients
- 2.2 Solution of equations under simple given conditions
- 2.3 Formation and solution of equations with imaginary and surd roots

**Unit 3 (8 Hours)**

**Differential and Integral Calculus**

- 3.1 Differential coefficient of  $f(x)$  with respect to  $x$  - rules for differentiation
- 3.2 Differential coefficient of standard functions
- 3.3 Integration as the inverse process of differentiation
- 3.4 Integration of standard functions

## BOOKS FOR STUDY AND REFERENCE

Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. *Algebra Vol. II*. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.

Manicavachgam Pillay, T.K., T. Natarajan, and K.S. Ganapathy. *Algebra Vol. I*. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.

Venkataraman M.K., Manorama Sridhar, *Classical Algebra and Trigonometry*. Chennai: Sivasankar, 2001

Narayanan S., and T.K. Manicavachgam Pillay, *Ancillary Mathematics: Book II*. Chennai: S. Vishwanthan printers and publishers Pvt. Ltd., 2004 .

Narayanan S., R. Hanumantha Rao, T.K. Manicavachgam Pillay, and P. Kandaswamy. *Ancillary Mathematics Vol. I* Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2007.

## PATTERN OF ASSESSMENT: (Totally Internal)

**Theory 20%;                      Problem 80%**

**Continuous Assessment Test:                      Total Marks: 25                      Duration: 40 minutes**

Section A :  $5 \times 2 = 10$  marks (Choose five from six questions)

Section B :  $3 \times 5 = 15$  marks (Choose three from five questions)

**Other Components:                      Total marks: 25**

Quiz/Assignment/Problem Solving

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH – I – MATHEMATICS**

**SYLLABUS**

**(Effective from the academic year 2019 -2020)**

**COMBINATORICS**

**CODE: 19MT/UI/CO23**

**CREDITS: 3**

**OBJECTIVES OF THE COURSE**

- To introduce the concepts of permutations and combinations
- To introduce the notion of ordinary and exponential generating functions and to study recurrence relations

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- apply diverse counting strategies to solve varied problems involving combinations and permutations
- compute a generating function and apply them to combinatorial problems
- demonstrate competence to set up and solve recurrence relation

**Unit 1**

**Basic Tools**

- 1.1 The Sum Rule and the Product Rule
- 1.2 Permutations and Combinations
- 1.3 The Pigeonhole Principle
- 1.4 Solved Problems
  - 1.4.1 The Sum Rule and Product Rule
  - 1.4.2 Permutations and Combinations
  - 1.4.3 The Pigeonhole Principle
  - 1.4.4 Ramsey Numbers

**Unit 2**

**Further Basic Tools**

- 2.1 Generalized Permutations and Combinations
- 2.2 Sequence and Selections
- 2.3 The Inclusion – Exclusion Principle

**Unit 3**

**Further Basic Tools (contd.)**

- 3.1 Solved Problems
  - 3.1.1 Generalized Permutations and Combinations
  - 3.1.2 Sequence and Selections
  - 3.1.3 The Inclusion – Exclusion Principle

**Unit 4**

**Generating Functions and Recurrence Relations**

- 4.1 Ordinary and Exponential Generating Functions

- 4.2 Partitions of a Positive Integer
- 4.3 Recurrence Relations

## Unit 5

### Generating Functions and Recurrence Relations (contd.)

#### 5.1 Solved Problems

- 5.1.1 Ordinary Generating Functions
- 5.1.2 Partitions of Integer and Their Generating Functions
- 5.1.3 Exponential Generating Functions

## BOOKS FOR STUDY

Balakrishnan V.K., *Schaum's Outlines COMBINATORICS including concepts of Graph Theory*, New Delhi: Tata McGraw-Hill, 2005.

## BOOKS FOR REFERENCE

Cohen Daniel J.A. *Basic Techniques of Combinatorial Theory*, New York : North-eastern University. John Wiley, 1978

Krishnamurthy. V., *Combinatorics – Theory and Applications*, New Delhi: Affiliated East West Press, 1989.

Chandrasekharaiah D.S., *Graph Theory and Combinatorics*, Chennai: Prism, 2005

## WEB RESOURCE

<https://mathigon.org/world/Combinatorics>  
<https://brilliant.org/wiki/ramsey-theory/>  
[https://www.whitman.edu/mathematics/cgt\\_online/book/section03.02.html](https://www.whitman.edu/mathematics/cgt_online/book/section03.02.html)  
<https://www.coursera.org/lecture/analysis-of-algorithms/exponential-generating-functions-WpbNx>

## PATTERN OF ASSESSMENT

**Theory: 40% ; Problems: 60%**

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A:  $10 \times 2 = 20$  (Twelve questions to be set selecting atleast two from each unit)  
Section B:  $5 \times 8 = 40$  (Seven questions to be set without omitting any unit)  
Section C:  $2 \times 20 = 40$  (Three questions to be set without omitting any unit)



## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

### Upon graduation, students of Stella Maris College will

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF PHYSICS**

**PROGRAMME DESCRIPTION**

The goal of the undergraduate programme in Physics is to support and encourage a basic knowledge of the discipline of Physics including phenomenology, theories and techniques, concepts and general principles. It strongly instils in students the ability to ask questions pertaining to the laws of Physics and to obtain solutions by use of qualitative and quantitative reasoning and by experimental investigation. The programme trains students to develop attributes like appreciation of the physical world and the discipline of Physics, curiosity, creativity and reasoned scepticism and understanding links of Physics to other disciplines and to societal issues.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On completion of this programme, students will be able to

- Acquire an understanding of core knowledge in Physics, including the major premises of Classical Mechanics, Electricity and Magnetism and Modern Physics.
- Develop proficiency in mathematics and the mathematical concepts needed for a proper understanding of Physics.
- Exhibit laboratory skills learnt that enabled them to take measurements in physics laboratory and analyze the measurements to draw valid conclusions.
- Establish proficiency in the acquisition of data using a variety of laboratory instruments and in the analysis and interpretation of such data.
- Enhance their oral and written scientific communication, and will prove that they can think critically and work independently.
- Demonstrate an understanding of the impact of Physics and Science on society.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH III-PHYSICS**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
<b>SEMESTER-I</b>										
19PH/MC/PS14	Properties of Matter and Sound	4	4	1	0	3	50	50	100	
19PH/MC/P112	Experimental Physics I	2	0	0	3	3	50	50	100	
19PH/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
<b>Allied Core Offered to the Department of Mathematics</b>										
19PH/AC/PM13	Physics for Mathematics I	3	3	0	0	3	50	50	100	
19PH/AC/P112	Physics Practical I	2	0	0	3	3	50	50	100	
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
<b>SEMESTER-II</b>										
19PH/MC/TS23	Thermal Physics and Statistical Mechanics	3	3	1	0	3	50	50	100	
19PH/MC/ME24	Mechanics	4	4	1	0	3	50	50	100	
19PH/MC/P222	Experimental Physics II	2	0	0	3	3	50	50	100	
19PH/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
<b>Allied Core Offered to the Department of Mathematics</b>										
19PH/AC/PM23	Physics for Mathematics II	3	3	0	0	3	50	50	100	
19PH/AC/P222	Physics Practical II	2	0	0	3	3	50	50	100	
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100	
<b>SEMESTER-III</b>										
19PH/MC/EL33	Electronics I	3	3	1	0	3	50	50	100	
19PH/MC/OP34	Optics	4	4	1	0	3	50	50	100	
19PH/MC/P332	Experimental Physics III	2	0	0	3	3	50	50	100	
<b>Allied Core Offered to the Department of Chemistry</b>										
19PH/AC/PC33	Physics for Chemistry I	3	3	0	0	3	50	50	100	
19PH/AC/P132	Physics Practical I	2	0	0	3	3	50	50	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100	
<b>SEMESTER-IV</b>										
19PH/MC/MP44	Mathematical Physics	4	4	1	0	3	50	50	100	
19PH/MC/P442	Experimental Physics IV	2	0	0	3	3	50	50	100	
<b>Allied Core Offered to the Department of Chemistry</b>										
19PH/AC/PC43	Physics for Chemistry II	3	3	0	0	3	50	50	100	
19PH/AC/P242	Physics Practical II	2	0	0	3	3	50	50	100	
19PH/SS/ PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	
	Major Elective I									
<b>SEMESTER-V</b>										
19PH/MC/MM53	Microprocessors and Microcontrollers	3	3	1	0	3	50	50	100	
19PH/MC/SS54	Solid State Physics	4	4	1	0	3	50	50	100	
19PH/MC/EM54	Electromagnetism	4	4	1	0	3	50	50	100	
19PH/MC/P552	Experimental Physics V	2	0	0	3	3	50	50	100	
19PH/MC/P652	Experimental Physics VI	2	0	0	3	3	50	50	100	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH III-PHYSICS**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>Interdisciplinary Core Courses (PH and EC) to students of Physics and Economics</b>									
19ID/IC/RE55	Renewable Energy and Energy Economics	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100
<b>SEMESTER-VI</b>									
19PH/MC/EL63	Electronics II	3	3	1	0	3	50	50	100
19PH/MC/AN64	Atomic and Nuclear Physics	4	4	1	0	3	50	50	100
19PH/MC/QR64	Quantum Mechanics and Relativity	4	4	1	0	3	50	50	100
19PH/MC/P762	Experimental Physics VII	2	0	0	3	3	50	50	100
19PH/MC/P862	Experimental Physics VIII	2	0	0	3	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19PH/ME/EN45	Essentials of Nanoscience	5	4	1	0	3	50	50	100
19PH/ME/LP45	Laser Physics	5	4	1	0	3	50	50	100
19PH/ME/CS45	Communication Systems	5	4	1	0	3	50	50	100
19PH/ME/SP45	Spectroscopy	5	4	1	0	3	50	50	100
19PH/ME/PR45	Project	5	0	0	5	-	50	50	100
<b>General Elective Courses</b>									
19PH/GE/BP22	Basic Principles of Physics	2	1	0	1	-	50	0	100
19PH/GE/HE22	Home Electrical Installations	2	1	0	1	-	50	0	100
19PH/GE/EP22	Energy Physics	2	2	0	0	-	50	0	100
19PH/GE/WL22	Wireless Communication	2	2	0	0	-	50	0	100
<b>Independent Elective Courses</b>									
19PH/UI/GP23	Geophysics	3	0	0	0	3	-	100	100
19PH/UI/AP23	Astrophysics	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PROPERTIES OF MATTER AND SOUND**

**CODE:19PH/MC/PS14**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To develop in students a theoretical understanding of properties of matter
- To enable the students to understand the fundamental concepts of atomic physics and its application in various fields

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Describe and explain the properties and behavior of liquids and solids
- Identify various properties responsible for their behavior
- Understand the basic principles of Ultrasonics and Acoustics
- Describe the production and propagation of sound
- Visualize wave motion and develop intuition about waves

**Unit 1 (13 Hours)**

**Elasticity**

- 1.1 Elasticity - different moduli of elasticity- relation among the elastic moduli - Poisson's ratio - energy stored per unit volume - bending of beams – expression for the bending moment - depression of the loaded end of a cantilever – expression for depression at the midpoint of a beam loaded at the centre (non-uniform bending using pin and microscope) experiment to determine Young's modulus 'E'- expression for elevation at the centre of a beam (uniform bending using scale and telescope) - experiment to determine 'E'.
- 1.2 Torsion - expression for torque per unit twist-work done in twisting a wire - torsional oscillation of a body - expression for time period of torsional oscillation - experiment to determine rigidity modulus 'G' (Dynamic torsional pendulum).

**Unit 2 (13 Hours)**

**Surface tension**

- 2.1 Surface tension - explanation of surface tension on the basis of Molecular theory - work done in increasing the surface area - angle of contact - excess of pressure inside a curved liquid surface.
- 2.2 Experimental Determination of surface tension and interfacial surface tension by Drop weight method - variation of surface tension with temperature - Jaeger's method - Quincke's drop - Vapour pressure over flat and curved surfaces.

**Unit 3 (13 Hours)**

**Viscosity and low pressure**

- 3.1 Viscosity - coefficient of viscosity - Newton's law - Poiseuille's flow - Determination of coefficient of viscosity of a liquid (variable pressure head method) - Stoke's law - Rotation Viscometer - Ostwald viscometer - variation of viscosity with temperature - Air pump - McLeod gauge.
- 3.2 Stream line flow - turbulent flow - critical velocity - Reynold's number - Euler's equation.

**Unit 4 (13 Hours)**

**Sound – I**

- 4.1 Wave motion - Characteristics - longitudinal and transverse waves - equation of simple harmonic wave - Superposition of two simple harmonic waves in vertical direction - differential equations of wave motion - velocity and frequency of transverse waves along stretched strings - Lissajou's figures – uses.
- 4.2 Law of vibrating strings – Harmonics – Melde's experiment – Stringed instruments – Harp – Violin – Piano – Standing waves – Beats – Doppler effect.

**Unit 5 (13 Hours)**

**Sound - II**

- 5.1 Acoustics - Reverberation time and its measurement - Sabine's formula - Absorption coefficient and its determination - Condition for good acoustical design of an auditorium.
- 5.2 Ultrasonic – Piezo-electric effect - Piezo-electric generator - Detection and applications of Ultrasonics

**BOOKS FOR STUDY**

Mathur, D.S., Elements of Properties of Matter, Shyamlal Charitable Trust, New Delhi. (2010).

Murugesan.R, Properties of Matter and Acoustics, S.Chand and Company Ltd., New Delhi, ( 2013).

Brijlal and Subrahmanyam – A text book of Sound, Vikas publishing house (2018)

**BOOKS FOR REFERENCE**

Halliday, David. Robert Resnick and Jearl Walker, Fundamentals of Physics, John Wiley and Sons, Inc., Replica Press Pvt. Ltd., Kundhi, (2001).

Young Hugh D. Freedman Roger A, University Physics, Addison Wesley Longman, Inc., Pinnacle Book Pvt Ltd., New Delhi, (2016).

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B –  $3 \times 6 = 18$  Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C –  $1 \times 15 = 15$  Marks (1 out of 2 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions-  $10 \times 1 = 10$

Fill in the blanks  $5 \times 1 = 5$

Short answer  $5 \times 2 = 10$

Section B ( $5 \times 6 = 30$ )

Answer any FIVE questions ( $5 \times 6 = 30$ ) (5 out of 7 to be answered, 5 problems & -2 theory)

Section C ( $3 \times 15 = 45$ )

Answer any THREE questions ( $3 \times 15 = 45$ ) (3 out of 5 to be answered)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. PHYSICS: BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the Academic year 2019-2020)

**EXPERIMENTAL PHYSICS I**

**CODE:19PH/MC/P112**

**CREDITS :2**

**L T P :0 0 3**

**TOTAL HOURS :39**

1. Young's Modulus - Non – uniform bending (Pin and Microscope)
2. Potentiometer – Calibration of Voltmeter (Low Range)
3. Young's Modulus - Uniform Bending (Scale and Telescope)
4. Surface Tension and Interfacial Surface Tension - Drop Weight Method.
5. Rigidity Modulus 'G' using Torsion Pendulum with Weights.
6. Lee's Disc – Thermal Conductivity of a Bad Conductor.
7. Spectrometer – Determination of the Refractive Index of the Material of Solid and Liquid Prism.
8. B.G. Figure of Merit - Current Sensitivity.
9. Zener Diode Characteristics

**BOOKS OF STUDY**

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* Chennai: S. Viswanathan, 2007

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, 2011

**PATTERN OF ASSESSMENT:**

<b>Continuous Assessment Test</b>		<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Formula & Procedure	20		
Observation & Calculation	20		
Result & Accuracy	10		

  

<b>End-Semester Examinations</b>		<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Formula & Procedure	20		
Observation & Calculation	20		
Result & Accuracy	10		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19PH/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
**Allied Core Offered by the Department of Physics to Students of Mathematics**

**SYLLABUS**  
(Effective from the academic year 2019–2020)

**PHYSICS FOR MATHEMATICS I**

**CODE:19PH/AC/PM13**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVE OF THE COURSE**

- To understand the fundamental concepts of Mechanics, Properties of matter and theory of Relativity.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify various properties responsible for their behavior
- Understand the concept of elasticity and identify the materials suitable for a particular application
- Apply the concepts of forces existing
- Apply Lagrangian equation to solve complex problems
- Understand the fundamental concepts of the theory of relativity.

**Unit 1** **(6 Hours)**  
**Mechanics - I**

- 1.1 Impulse-Impact-Conservation of linear momentum: Internal forces and momentum conservation – center of mass- examples- General elastic collision of particles of different masses.
- 1.2 Significance of conservation laws- law of conservation of Energy- concepts of work- power – energy – potential energy.

**Unit 2** **(7 Hours)**  
**Mechanics - II**

- 2.1 Simple Harmonic Motion: Periodic and Harmonic Motion- Formula for acceleration, velocity and displacement - Energy of a Harmonic Oscillator- oscillation in spring mass-springs in series and parallel.
- 2.2 Classical mechanics: Degrees of freedom and constraints - Generalized Coordinates - principle of virtual work - De Alembert's principle -Explanation of Lagrangian equation (No derivation) Application of Lagrangian equation in Atwood's machine and Simple pendulum.

**Unit 3** **(6 Hours)**  
**Elasticity**

- 3.1 Elastic properties : Hooke's law - Elastic limit - moduli of Elasticity - Poisson's ratio
- 3.2. Expression for Bending Moment - Depression at the loaded end of the cantilever – depression and elevation at the mid point of a loaded beam (non-uniform and uniform bending) – Torsion in a wire – Torque per unit twist – torsional oscillations – Expression for period

**Unit 4 (7 Hours)**

**Surface Tension and Viscosity**

- 4.1 Stream Line Flow and Turbulent Flow – Critical Velocity – Euler's Equation for unidirectional flow - Newton's formula.
- 4.2 Surface Tension: Definition – molecular theory of surface tension - Determination of Surface Tension by Drop Weight Method- Interfacial Surface Tension

**Unit 5 (13 Hours)**

**Relativity**

- 5.1 Newton's Laws of Motion and its Limitations- Inertial Frames of Reference – Newtonian Relativity – Galilean Transformation Equations
- 5.2 Postulates of Special Theory of Relativity- Lorentz Transformation Equations- Length Contraction - Time Dilation - Twin Paradox and Meson Paradox
- 5.3 Relativistic Momentum (no derivation) – Mass Energy Relation- Physical Significance.

**BOOKS FOR STUDY**

Murugesan R. *Properties of Matter and Acoustics*. New Delhi: S Chand, 2013.  
Narayanamurthi M. & N Nagarathnam. *Dynamics*. Chennai: The National, 1996.  
Resnick, Robert. *Introduction to Special Relativity*. New Delhi: Wiley Eastern, 2007.

**BOOKS FOR REFERENCE**

Goldstein Herbert. Second Edition. *Classical Mechanics*. U.S.A: Addison & Wesley, 1980.  
Halliday, David and Robert, Resnick. *Physics Vol.I*. Chennai: New Age, 1995.  
Halliday, David Robert Resnick and Walker Jearl. *Fundamentals of Physics*. Kundhi: John Wiley, 2001.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B –  $3 \times 6 = 18$  Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C –  $1 \times 15 = 15$  Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions-  $10 \times 1 = 10$

Fill in the blanks  $5 \times 1 = 5$

Short answer  $5 \times 2 = 10$

Section B ( $5 \times 6 = 30$ )

Answer any FIVE questions ( $5 \times 6 = 30$ ) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C ( $3 \times 15 = 45$ )

Answer any THREE questions ( $3 \times 15 = 45$ ) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Offered by the Department of Physics to the Students of Mathematics**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PHYSICS PRACTICAL I**

**CODE:19PH/AC/P112**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

1. Compound Pendulum – Determination of 'g'.
2. Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope
3. Young's Modulus 'E' by Uniform Bending-Scale and Telescope
4. Rigidity Modulus 'G' by Torsional pendulum (Moment Of Inertia to be assumed)
5. Surface Tension and Interfacial Surface Tension – Drop Weight Method.
6. Spectrometer – Determination of the Refractive Index of the material of a prism
7. Post Office Box – Verification of Laws and Determination of Specific Resistance
8. Characteristics of a Zener Diode
9. Newton's Law of Cooling using two liquids – Verification of Law.

**BOOKS FOR STUDY**

Ouseph, C.C., Srinivasan, V., & Balakrishnan, R. *A Text Book of Practical Physics. Vol. I & II.*, Chennai: S. Viswanathan, 2007.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 3 hours**

Formula & Procedure	20
Observation & Calculation	20
Result & Accuracy	10

**End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Formula & Procedure	20
Observation & Calculation	20
Result & Accuracy	10

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**THERMAL PHYSICS AND STATISTICAL MECHANICS**

**CODE:19PH/MC/TS23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To understand the concepts of heat and temperature
- To apply thermodynamic relations to problem solving

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand laws of Thermodynamics both from microscopic and macroscopic point of view.
- Visualize real physical systems and processes by applying laws of thermodynamics.
- Develop a working knowledge of thermal physics and to use this knowledge to explore various applications
- Give an account of the theory of statistical mechanics
- Show an analytic ability to solve problems related to statistical mechanics

**Unit 1 (10 Hours)**

**Transport Phenomena and Radiation**

- 1.1. Blackbody radiation - distribution of energy in the spectrum of a black body - experimental arrangement to study energy distribution in black body spectrum experimental results-statements of Stefan - Boltzmann and Wiens' displacement law -Quantum theory of radiation
- 1.2. Average energy of Planck's oscillator - Planck's hypothesis - Planck's radiation relation - Stefan-Boltzmann law from Planck's radiation relation – Wien's and Rayleigh - Jeans law from Planck's' radiation relation

**Unit 2 (11 Hours)**

**Thermodynamics**

- 2.1 Thermodynamic systems-thermal equilibrium and concept of temperature - zeroth law of thermodynamics – thermodynamic processes- internal energy - first law of thermodynamics (statement) - isothermal and adiabatic elasticity of a gas
- 2.2 Second law of thermodynamics – statements of Clausius and Kelvin - principle of a heat engine - thermodynamics of refrigeration-coefficient of performance - thermodynamic potentials (definition)



**Unit 3** (10 Hours)  
**Entropy**

- 3.1 Entropy- definition-entropy change in reversible and irreversible processes - entropy and unavailable energy - entropy of a perfect gas-temperature – entropy diagram - technical importance of T-S Diagram - law of increase of entropy - entropy and disorder
- 3.2 Second law of thermodynamics in terms of entropy- expression connecting first and second laws of thermodynamics - statement of third law of thermodynamics

**Unit 4** (10 Hours)  
**Maxwell's Thermodynamical Relations**

- 4.1 Maxwell's thermodynamical relations - deduction from thermodynamical relations - first and second Tds equations - variation of intrinsic energy with volume –  $[C_p - C_v = R]$  equation - Clausius – Clapeyron latent heat equation

**Unit 5** (11 Hours)  
**Low Temperature Physics and Statistical Physics**

- 5.1 liquefaction of gases-liquefaction of helium- peculiar properties of liquid helium ii-production of very low temperature - adiabatic demagnetization of paramagnetic salt - theory and experiment
- 5.2 definition of phase space-micro and macro states- concepts of ensembles - definition of thermodynamic probability-relation between entropy and probability - classical statistics - Maxwell-Boltzmann statistics

**BOOKS FOR STUDY**

R. Murugesan. Er. Kiruthiga Sivaprasath. *Thermal Physics*. New Delhi: S Chand: Popular, 2014.

Subrahmanyam. N and Lal Brij. *Heat Thermodynamics and Statistical Physics*. New Delhi: S. Chand, 2018.

Mathur.D.S. *Heat and Thermodynamics*. New Delhi: Sultan Chand, 2008.

**BOOKS FOR REFERENCE**

Rajam,J.B. *Heat and Thermodynamics*. New Delhi: S Chand, 1981

Kakani,S.L. *Heat, Thermodynamics and Statistical Mechanics*. New Delhi: Sultan Chand, 1989.

Bhatia,V.S. *Thermodynamics and Kinetic Theory*, New Delhi: Shobanlal Nagin Chand 1993.

Das Gupta ,A.K. *Fundamentals of Statistical Mechanics*. Calcutta: New central 1994.

Gupta and Kumar. *Elementary Statistical Mechanics*. Meerut: Pragati Prakasham, 1993.

**JOURNALS**

Thermodynamics and Statistical Mechanics - Springer

Classical Continuum Physics – Springer

**WEB RESOURCES**

<http://www.sites.fas.harvard.edu/6346> : Statistical Mechanics and Thermodynamics

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B –  $3 \times 6 = 18$  Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C –  $1 \times 15 = 15$  Marks (1 out of 2 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions-  $10 \times 1 = 10$

Fill in the blanks  $5 \times 1 = 5$

Short answer  $5 \times 2 = 10$

Section B ( $5 \times 6 = 30$ )

Answer any FIVE questions ( $5 \times 6 = 30$ ) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C ( $3 \times 15 = 45$ )

Answer any THREE questions ( $3 \times 15 = 45$ ) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**MECHANICS**

**CODE:19PH/MC/ME24**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand physical laws and concepts of static and dynamic bodies
- To introduce the idea of Lagrangian Mechanics

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Have a basic understanding of the laws and principles of mechanics
- Apply the concepts of forces existing in the system
- Understand the forces of physics in everyday life
- Visualize the conservation laws
- Apply Lagrangian equation to solve complex problems

**Unit 1**

**(13 Hours)**

**Laws of motion**

- 1.1 Newton's Laws- forces – equations of motion - frictional force - motion of a particle in a uniform gravitational field – Newton's law of universal gravitation - examples.
- 1.2 Everyday forces of Physics: gravity - electrostatic force- tension - friction. Electric and magnetic forces on a charged particle - magnetic field and Lorentz force- motion of charged particle in uniform constant electric field.

**Unit 2**

**(13 Hours)**

**Conservation laws of linear and angular momentum**

- 2.1 Conservation of linear and angular momentum - Internal forces and momentum conservation – center of mass- examples
- 2.2 General elastic collision of particles of different masses – system with variable mass – examples
- 2.3 Conservation of angular momentum – torque due to internal forces – torque due to gravity – angular momentum about center of mass- proton scattering by heavy nucleus.

**Unit 3**

**(13 Hours)**

**Conservation laws of energy**

- 3.1 Introduction - significance of conservation laws- law of conservation of Energy- concepts of work- power – energy.
- 3.2 Conservative forces – potential energy and conservation of energy in gravitational and electric field- examples
- 3.3 Non- conservative forces – General law of conservation of energy

**Unit 4 (14 Hours)**

**Rigid Body Dynamics**

- 4.1 Translational and Rotational motion- angular momentum- moment of inertia- General theorems of moment of inertia - examples
- 4.2 Rotation about fixed axis - Kinetic energy of rotation – examples - body rolling along a plane surface – body rolling down an inclined plane
- 4.3 Gyroscopic Precision - Gyrostatic applications

**Unit 5 (12 Hours)**

**Lagrangian Mechanics**

- 5.1 Generalized coordinates - Degrees of Freedom – Constraints
- 5.2 Principle of Virtual Work and D' Alembert's Principle
- 5.3 Lagrange's Equation From D' Alembert's Principle – Application- Simple Pendulum – Atwood's Machine

**BOOKS FOR STUDY**

Mathur D.S. *Mechanics*. New Delhi: S. Chand, 2000.  
Narayanamurthi, M. and Nagarathnam, N. *Dynamics*. Chennai: The National Publishing, 1998.  
Narayanamurthi, M. and Nagarathnam, N. *Statics, Hydrostatics and Hydrodynamics*. Chennai: National, 1982.

**BOOKS FOR REFERENCE**

Goldstein Herbert. *Classical Mechanics*. U.S.A: Addison and Wesley, 1980.  
Halliday, David and Robert, Resnick. *Physics Vol.I*. Chennai: New Age, 1995.  
Halliday, David Robert Resnick and Walker Jearl. *Fundamentals of Physics*. New Delhi: John Wiley, 2001.

**JOURNALS**

Science Direct – Publishers  
European Journal of Mechanics

**WEB RESOURCES**

<https://www.coursera.org/course/particles2planets>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions- 10x1=10

Fill in the blanks 5x1 = 5

Short answer 5x2 = 10

Section B (5x6=30)

Answer any FIVE questions (5x6=30) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C (3x15=45)

Answer any THREE questions (3x15=45) (3 out of 5 to be answered)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. PHYSICS : BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the Academic year 2019-2020)

**EXPERIMENTAL PHYSICS II**

**CODE:19PH/MC/P222**

**CREDITS :2**

**L T P :0 0 3**

**TOTAL HOURS :39**

1. Compound Pendulum – Determination of ‘g’, ‘k’ and ‘I’.
2. Sonometer – Verification of Laws and Determination of frequency of tuning fork – and unknown mass.
3. Rigidity Modulus determination of ‘G’ by Static Torsion
4. Specific Heat of Solid – Method of Mixtures – Barton’s Correction
5. Surface Tension – Capillary Rise method
6. Potentiometer –Ammeter Calibration (High Range and Low range)
7. B. G – Determination of Absolute Capacity of a Condenser
8. Spectrometer – Grating – Normal Incidence (i) Standardization of the Grating (N)  
(ii) Determination of the Wavelength of the prominent lines of the Mercury Spectrum. (iii) Dispersive Power of the Grating
9. UJT Characteristics

**BOOKS OF STUDY**

Ouseph,C. C., V. Srinivasan and R. Balakrishnan. *A Text Book of Practical Physics. Vol. I & II.* Chennai: S.Viswanathan, 2007.

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, 2011

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	
<b>End-Semester Examination:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19PH/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)

[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Offered by the Department of Physics to Students of Mathematics**

**SYLLABUS**

(Effective from the academic year 2019 –2020)

**PHYSICS FOR MATHEMATICS II**

**CODE:19PH/AC/PM23**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To understand the principles of Electricity and Magnetism
- To introduce fundamental concepts of Optics and Electronics

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the basics of various phenomena in geometrical and wave optics
- Understand the differences in the important phenomena namely interference, diffraction and Polarization and apply the knowledge in day to day life.
- They will understand the theoretical and experimental background of Electricity and magnetism and will appreciate their general significance and applications.
- Will be able to understand the working of digital circuits.
- To understand the basic principles of operational amplifier

**Unit 1 (6 Hours)**  
**Electricity**

- 1.1 Quantisation of Charge – Conservation of Electric Charge – Coulomb's Law of Force between Charges – Flux of Electric Field – Gauss's Law – Statement and Proof – Electric Field of a Point Charge Using Gauss Law – Electric Potential – Relation between Potential and Field Strength
- 1.2 Capacitance- Capacitance of Parallel Plate Capacitor with and without Dielectric

**Unit 2 (7 Hours)**  
**Magnetism**

- 2.1 Magnetic Field: Definition of B – Force on a Charge in a Magnetic Field, in an Electromagnetic Field (Lorentz Force) – Maxwell's Electromagnetic Equations (No Derivation) – Physical Significance of the Equations
- 2.2 Electromagnetism: Force on a Current Carrying Conductor in a Magnetic field – Moving Coil Ballistic Galvanometer – Theory, Current and Charge Sensitivity of B.G – Relation between the two

**Unit 3 (6 Hours)**  
**Geometrical Optics**

- 3.1 Defects of Images- Monochromatic Aberrations and its types-Chromatic Aberration – Achromatic Combination of Lenses in Contact and Lenses Separated by a Distance
- 3.2 Optical Instruments: Telescopes – Angular Magnification of Telescopes –

Refractive Astronomical Telescope – Terrestrial Telescope – Reflecting Telescopes – Radio Telescope – Hubble Telescope

**Unit 4 (7 Hours)**

**Physical Optics**

4.1 Interference: Newton's Rings – Measurement of Wavelength - Diffraction:

Introduction – Fraunhofer Diffraction – Transmission Grating – Normal Incidence – Determination of Wavelength

4.2 Polarisation – Double Refraction – Nicol Prism – Optical Activity– Uses of Polaroids.

**Unit 5 (13 Hours)**

**Electronics**

5.1 Introduction to Amplifiers - Operational Amplifier – Ideal Op- Amp - CMRR – Inverting and Non- Inverting Op- Amp - Summing, Difference, Integral and Differential Op- Amp

5.2 Boolean Algebra- De Morgan's Theorem – Verification - Algebraic Simplification – Implementation of Boolean Algebra into Circuits-Karnaugh map upto four variables.

**BOOKS FOR STUDY**

Subramaniam N. and Brijlal. *Optics*. New Delhi: S Chand, 2014.

Kakani, S L, and Bhandari K C. *A Text Book of Optics*. New Delhi: Sultan 2002.

Mahajan, A.S.,and Rangwala, A.A. *Electricity and Magnetism*. New Delhi: Tata McGraw Hill, 2017.

Mehta, V.K. *Principles of Electronics*. New Delhi: S Chand, 2014 .

**BOOKS FOR REFERENCE**

Subrahmanyam, N. and Lal Brij. *A Text Book of Electricity and Magnetism*. Agra: Ratan Prakash, 1994.

Haliday, David and Robert Resnick. *Physics Vol. II*. Chennai: New Age, 1995.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components:**

**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions- 10x1=10

Fill in the blanks 5x1 = 5

Short answer 5x2 = 10

Section B (5x6=30)

Answer any FIVE questions (5x6=30) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C (3x15=45)

Answer any THREE questions (3x15=45) (3 out of 5 to be answered)



**STELLAMARISCOLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Offered by the Department of Physics to the Students of Mathematics**

**SYLLABUS**

**(Effective from the academic year 2019 – 2020)**

**PHYSICS PRACTICAL II**

**CODE:19PH/AC/P222**

**CREDITS:2**  
**L T P:0 0 3**  
**TOTAL HOURS:39**

1. Rigidity Modulus 'G' by Static Torsion
2. Newton's Rings – Determination of Radius of Curvature of a Lens
3. Spectrometer – Grating – Normal Incidence - Determination of Wavelengths ( $\lambda$ )
4. Joule's Calorimeter – Determination of Specific Heat of a Liquid – Half Time Correction
5. Potentiometer – Ammeter Calibration (Low Range)
6. OPAMP- Inverting and Non Inverting Amplifier
7. Specific Capacity of a Solid – Method of Mixtures
8. Carey Foster's bridge –Determination of Specific Resistance
9. Coefficient of Viscosity – Absolute Determination.

**BOOKS FOR STUDY**

Ouseph,C. C., V.Srinivasan and R. Balakrishnan.*A Text Book of Practical Physics. Vol. I & II.*Chennai: S.Viswanathan, 2007.

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	
<b>End-Semester Examination:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	

**PSTELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019 –2020)

**ELECTRONICS I**

**CODE:19PH/MC/EL33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To understand the concept of digital principles as applied to microprocessors and computers
- To develop knowledge in combinational logic and sequential logic circuits and their applications

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain fundamental concepts of decimal number systems and represent them in powers of the base
- Understand the implementation of Boolean Algebra to circuits
- Identify almost all electronic components and their working principles
- Explain basic circuit concepts and responses
- Describe the working of few special purpose diodes

**Unit 1 (10 Hours)**

**Number Systems and Binary Concept**

- 1.1 Introduction – Analog and Digital Signals – Digital Circuit - Decimal- Binary - Octal and Hexa Number Systems
- 1.2 Binary Arithmetic – Principles of Addition –Subtraction- 1s Complement and 2s Complement Method - Multiplication and Division

**Unit 2 (12 Hours)**

**Boolean Algebra, Digital Arithmetic Circuits and K-map**

- 2.1 Morgan's Theorem - Implementation of Boolean Algebra into Circuits  
Half Adder – Full Adder – Half Subtractor – Full Subtractor - Parallel Binary Adder
- 2.2 Fundamental Products – SOP and POS Forms - Karnaugh Map - Simplification up to four Variables (SOP Only)-Don't Care Conditions - Realization of Logic Circuits

**Unit 3 (12 Hours)**

**Flip - Flops, Registers and Counters**

- 3.1 Flip-Flops : RS - Clocked RS – D-T - JK and Master Slave Flip-Flops and Their Truth Tables

- 3.2 Registers and Counters: Shift Registers – Right Shift - Left Shift Registers - Binary Ripple Counter (4 bit up counter-4 bit down counter) - Decade Counter.

**Unit 4 (8 Hours)**

**Integrated Circuits – Fabrication and Characteristics**

- 4.1 Integrated Circuit Technology: Scale of Integration –SSI, MSI, LSI, BLSI.  
Basic Monolithic Integrated Circuits – Fabrication Process-Epitaxial Growth – Masking and Etching - Diffusion of Impurities  
4.2 Transistors for Monolithic Circuits – Monolithic Diodes – Integrated Resistors - and Capacitors

**Unit 5 (10 Hours)**

**Special Purpose Diodes**

- 5.1 Introduction - Light Emitting Diode (LED) – LED Voltage and Current-Advantages.  
5.2. Multicolor Leds - Applications –Power Indicator –Seven Segment Display- Photo Diode – Operation- Characteristics and Applications

**BOOKS FOR STUDY**

Malvino Albert Paul. *Electronic Principles*. New Delhi: Tata McGraw Hill, 1998.  
Malvino Albert Paul and Leach Donald. *Digital Principles and Application*. New Delhi: Tata McGraw Hill, 2006.  
Mehta V.K. *Electronic Principles*. New Delhi: S Chand, 2014.

**BOOKS FOR REFERENCE**

Allen Mottershead. *Electronic Devices and Circuits*. New Delhi: Prentice Hall of India, 1982.  
Ambrose A and T. Vincent Devaraj. *Elements of Solid State Electronics*. New Delhi: Meera, 1990.  
Floyd Thomas L. *Digital Fundamentals*. New Delhi : Universal Book Stall, 1997.  
Milmann and Halkias. *Integrated Electronics*. New Delhi: Tata McGraw Hill, 1992.  
Sedha R.S. *Applied Electronics*. New Delhi: S Chand, 1997.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions- 10x1=10

Fill in the blanks 5x1 = 5

Short answer 5x2 = 10

Section B (5x6=30)

Answer any FIVE questions (5x6=30) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C (3x15=45)

Answer any THREE questions (3x15=45) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE, (AUTONOMOUS), CHENNAI-600 086**

**B.Sc. DEGREE: BRANCH III –PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**OPTICS**

**CODE:19PH/MC/OP34**

**CREDITS:4**

**L T P:4 1 0**

**TOTALTEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To expose the students to the fundamentals of optics.
- To provide the students a clear idea about the applications of optics.

**OUTCOME OF THE COURSE**

On successful completion of the course, students will be able to

- Understand the basics of various phenomena in geometrical and wave optics
- Explain the behavior of light in different mediums
- Understand the differences in the important phenomena namely interference, diffraction and Polarization and apply the knowledge in day to day life.
- Understand the design of optical systems and methods to minimize aberrations
- Solve problems in optics by selecting the appropriate equations and performing numerical or analytical calculations

**Unit 1 (13 Hours)**

**Geometrical optics**

- 1.1 Fermat's principle of least time – importance of Fermat's principle in relation to the main postulates of geometrical optics – rectilinear propagation of light reversibility of the path of the rays of light – the laws of reflection and refraction of light. Huygen's principle of wavefront propagation and its limitations.
- 1.2 Thick lenses – focal length, critical thickness, power and cardinal points of a thick lens.

**Unit 2 (13 Hours)**

**Lens aberrations and Eyepiece**

- 2.1 Lens aberrations: monochromatic aberrations – spherical aberration- coma- astigmatism - curvature of the field – distortion – chromatic aberrations- methods of minimizing aberrations.
- 2.2 Eyepieces: advantage of an eyepiece over a simple lens – Huygen's and Ramsden's eyepieces – construction and working – relative merits and demerits of the eyepiece.

**Unit 3 (13 Hours)**

**Interference**

- 3.1 Division of wave front : Fresnel's biprism –theory- fringes with white light - Division of amplitude : Interference in thin films due to (i) reflected light (ii) transmitted light – colours of thin films- Newton's rings – theory.

- 3.2 Interferometers : Michelson's Interferometer- applications ( i) determination of the wavelength of a monochromatic source of light (ii) standardization of the meter.

**Unit 4 (13 Hours)**

**Diffraction**

- 4.1 Fresnel's assumptions –Zone plate- action of zone plate for an incident spherical wave front- differences between a zone plate and a convex lens. Fresnel type of diffraction :- diffraction pattern due to a straight edge – positions of maximum and minimum intensities – diffraction due to a narrow slit. Fraunhofer type of diffraction : Fraunhofer diffraction at a single slit- plane diffraction grating – theory- experiment to determine wavelengths – width of principal maxima.
- 4.2 Resolving power of optical instruments : Rayleigh's criterion for resolution – limit of resolution for the eye- resolving power of (i) telescope (ii) grating.

**Unit 5 (13 Hours)**

**Polarisation**

- 5.1 Double Refraction- optic axis principal plane – Huyghen's explanation of double refraction in uniaxial crystals.
- 5.2 Elliptically and circularly polarized light –quarter wave plate- half wave plate- production and detection of circularly polarized light and elliptically polarized light. Optical activity- Fresnel's explanation – specific rotation – Laurent half shade polarimeter- experiment to determine specific rotatory power.

**BOOKS FOR STUDY**

Jenkins A.Francis and White, Fundamentals of Optics, 4<sup>th</sup> edition, McGraw Hill Inc., New Delhi, 2011

Subramaniam N. and Brijlal, Optics, S.Chand and Co, Pvt. Ltd. 25<sup>th</sup> edition reprint, New Delhi, 2014

**BOOK FOR REFERENCE**

Agarwal B. S. Optics, Kedarnath Ramnath Publishers, Meerut, 2011

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions- 10x1=10

Fill in the blanks 5x1 = 5

Short answer 5x2 = 10

Section B (5x6=30)

Answer any FIVE questions (5x6=30) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C (3x15=45)



Answer any THREE questions (3x15=45) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. PHYSICS : BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the Academic year 2019-2020)

**EXPERIMENTAL PHYSICS III**

**CODE:19PH/MC/P332**

**CREDITS :2**

**L T P :0 0 3**

**TOTAL HOURS :39**

1. Melde's Apparatus – Determination of the Frequency of the Tuning Fork using – Transverse and Longitudinal Mode of Vibrations of the String.
2. Ballistic Galvanometer – Comparison of Capacitance
3. Potentiometer – Determination of Resistance and Specific Resistance
4. Multimeter- Conversion of Low Range Ammeter to High Range Ammeter.
5. Spectrometer - Dispersive Power of the Prism and Cauchy's Constants
6. Newton's Rings – Determination of radius of curvature of lens.
7. Bifilar Pendulum – Verification of perpendicular axes theorem.
8. Absolute Determination and Comparison of Coefficient of Viscosities of Liquids
9. OPAMP – Adder, Subtractor, Multiplier, Integrator and Differentiator.

**BOOKS FOR STUDY**

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* Chennai: S. Viswanathan, 2007.

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, 2011

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	
<b>End-Semester Examination:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86**

**Allied Core Offered by the Department of Physics to Students of Chemistry**

**SYLLABUS**

(Effective from academic year 2019-2020)

**PHYSICS FOR CHEMISTRY I**

**CODE:19PH/AC/PC33**

**CREDITS:3**

**LTP:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To acquaint students with the fundamental laws and principles of physics
- To familiarise students with developments in modern optics

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- To identify various properties of matter, responsible for their behavior
- To apply the concepts of forces existing
- Understand the basics of various phenomena in geometrical and wave optics
- Understand the differences in the important phenomena namely interference, diffraction and Polarization and apply the knowledge in day to day life.
- Describe the basic concepts of the theory of Relativity

**Unit 1 (6 Hours)**

**Properties of Matter**

- 1.1 Elasticity: Moduli of Elasticity – Poisson's Ratio- Young's Modulus – Bending of Beams - Expression for Bending Moment-Depression at the Loaded End of the Cantilever-Depression and Elevation at the Mid Point of a Loaded Beam- Torsion in a Wire–Torsional Oscillations–Torque Per Unit Twist- Expression for Period

**Unit 2 (7 Hours)**

**Surface Tension and Viscosity**

- 2.1 Introduction-Experimental Determination of Surface Tension and Interfacial Surface Tension by Drop Weight Method –Variation of Surface Tension with Temperature-Streamline and Turbulent Flow –Critical Velocity- Expression for Critical Velocity- Variation of Viscosity with Temperature

**Unit 3 (6 Hours)**

**Mechanics**

- 3.1 Dynamics: Moment of Inertia – Definition - Compound Pendulum - Expression for the Period of Oscillation-Centre of Suspension and Centre of Oscillation–Minimum Period of Oscillation of a Compound Pendulum- Determination of 'G'

**Unit 4** **(13 Hours)**  
**Relativity**

- 4.1 Inertial Frames of Reference-Special Theory of Relativity—Postulates of Special Theory of Relativity-Lorentz Transformation Equations-Length Contraction-Time Dilation – Experimental Evidence – Twin Paradox – Relativistic Momentum (no derivation) – Mass Energy Relation – Physical Significance

**Unit 5** **(7 Hours)**  
**Optics**

- 5.1 Interference: Introduction - Interference Due to Reflected Light – Newton's Rings – Measurements of Wavelength  
Diffraction: Introduction-Fraunhofer Diffraction- Transmission Grating- Normal Incidence – Determination of Wavelength
- 5.2 Polarisation: Introduction-Plane of Polarization-Polarisation by Refraction-Brewster's Law-Polarisation by Reflection-Double Refraction – Nicol Prism – Nicol Prism as a Polarizer and Analyser – Polaroids-uses of Polaroids

**BOOKS FOR STUDY**

Murugesan.R, *Properties of Matter*. New Delhi: S. Chand, 2012.  
Narayanamurthi.M and Nagaratham.N. *Dynamics*. Chennai: The National, 1994.  
Narayanamurthi.M and Nagaratham.N. *Statics*. Chennai: The National, 1994.  
Murugesan.R, *Modern Physics*. New Delhi: S Chand, 2013.  
Subrahmanyam. Nand Lal Brij. *Textbook of Optics*. New Delhi: Vikas, 2013.

**BOOK FOR REFERENCE**

Halliday,David and Robert Resnick. *Physics Vol I and II*. Chennai: New Age, 1995.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components:** **Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions- 10x1=10

Fill in the blanks 5x1 = 5

Short answer 5x2 = 10

Section B (5x6=30)

Answer any FIVE questions (5x6=30) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C (3x15=45)

Answer any THREE questions (3x15=45) (3 out of 5 to be answered)

**STELLAMARISCOLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Offered by the Department of Physics to the Students of Chemistry**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PHYSICS PRACTICAL I**

**CODE:19PH/AC/P132**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

1. Compound Pendulum – Determination of 'g'.
2. Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope
3. Young's Modulus 'E' by Uniform Bending-Scale and Telescope
4. Rigidity Modulus 'G' by Torsional Oscillations (Moment of Inertia to be assumed)
5. Surface Tension and Interfacial Surface Tension – Drop Weight Method
6. Spectrometer – Determination of the Refractive Index of the Material of a Prism
7. Post Office Box – Verification of Laws and Determination of Specific Resistance
8. Characteristics of a Zener Diode
9. Newton's Law of Cooling using two liquids – Verification of Law

**BOOKS FOR STUDY**

Ouseph,C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol.I & II.* Chennai: S.Viswanathan, 2007.

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test :</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	
<b>End-Semester Examination:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**SYLLABUS**  
**(Effective from the year 2019-2020)**

**MATHEMATICAL PHYSICS**

**CODE:19PH/MC/MP44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to learn various mathematical techniques
- To facilitate the applications of these techniques to physical problems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Acquire advanced general knowledge in Mathematics and Physics, and apply the specialized knowledge in specific areas.
- Appreciate practice of relevant mathematical methods to understand concepts in Physics
- Demonstrate accurate and efficient use of specific mathematical physics techniques
- Solve problems using mathematical methods
- Describe the significance of mathematical methods in modern physics

**Unit 1 (13 Hours)**

**Vector Calculus**

- 1.1 Scalar Point Function - Gravitational Potential and Electrostatic Potential - Vector Point Function – Electric Intensity and Magnetic Field - Directional Derivatives - Gradient of a Scalar Field – Work done – Moment of a force
- 1.2 Vector Differentiation – Determination of Velocity and Acceleration From Position Vector - Partial Differentiation of Vectors

**Unit 2 (13 Hours)**

**Vector Analysis**

- 2.1 The Divergence of a Vector Function - the Curl or Rotation of a Vector Function - Geometrical Interpretation - Physical Significance – Directional derivative
- 2.2 Gauss' law in differential form-Relations between Gradient, Divergence and Curl – Electrostatic Potential and Field – Maxwell's Equations.

**Unit 3 (13 Hours)**

**Vector Integration**

- 3.1 Vector Integration: Ordinary Integrals of Vectors - Line Integrals - Surface Integrals - Volume Integrals
- 3.2 Gauss's Divergence Theorem - Statement and Physical Interpretation - Stoke's Theorem and Green's Theorem (Statement Only) - Poisson's Equation and Laplace's Equations - Their Applications in Gravitation, Hydrodynamics and Electromagnetism.

**Unit 4 (13 Hours)**

**Differential Equations**

- 4.1 Initial and Boundary Value Problems - Applications of First Order Differential Equations - Falling Body Problems - Electrical Circuits (RL and RC) – Growth and decay problems
- 4.2 Second Order Differential Equations with Constant Coefficients: The Characteristic Equation – General Solutions - Applications of Second Order Differential Equations - (i) System of Springs (ii) Electrical Circuits (LCR).

**Unit 5 (13 Hours)**

**Complex Analysis**

- 5.1 Complex numbers – fundamental laws of algebra on complex numbers – Argand diagram – properties of moduli – Arguments – Geometry of complex numbers – General equations of line and circle.
- 5.2 Functions of a complex variable – continuity and differentiability – Analytic function – Cauchy Riemann equation – Laplace equation – Harmonic function

**BOOKS FOR STUDY**

Bronson Richard. *Schaum's Outline of Theory and Problems of Differential Equations*. New Delhi: Tata McGraw Hill, 2014.

Gupta B.D. *Mathematical Physics*. New Delhi: Vikas, 2014.

Murray R. Spiegel. *Schaum's Outline of Theory and Problems of Vector Analysis*. New Delhi: Tata McGraw Hill, 2014.

Satyaprakash. *Mathematical Physics*. New Delhi: Sultan Chand, 2004.

**BOOKS FOR REFERENCE**

Dass M.K. *Mathematical Physics*. New Delhi: S.Chand, 2001.

Prakash Satya. *Mathematical Physics with Classical Mechanics*. New Delhi: Sultan Chand, 2004.

**JOURNALS**

Journal of Mathematical Physics

Communications in Mathematical Physics

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components:**

**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions- 10x1=10

Fill in the blanks 5x1 = 5

Short answer 5x2 = 10

Section B (5x6=30)

Answer any FIVE questions (5x6=30) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C (3x15=45)

Answer any THREE questions (3x15=45) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. PHYSICS : BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the Academic year 2019-2020)

**EXPERIMENTAL PHYSICS IV**

**CODE:19PH/MC/P442**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

1. Newton's Law of Cooling – (i) Verification (ii) Determination of Specific Heat Capacity of a Liquid (iii) Determination of Emissivity of the Surface
2. Joule's Calorimeter – Determination of Specific Heat Capacity of a Liquid – Barton's Correction.- using P.O Box to find Resistance of the Coil
3. Determination of Self Inductance using LCR Resonance Circuit
4. Potentiometer – EMF of a thermocouple
5. B.G. – High Resistance by Leakage
6. Field along the axis of the Coil – Determination of H and B
7. Latent Heat of Fusion of Ice - Barton's Correction
8. PV Characteristics of Solar Cell
9. RC Coupled Amplifier

**BOOKS FOR STUDY**

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* Chennai: S. Viswanathan, 2007.

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, 2011

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	
<b>End-Semester Examinations:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	



**STELLA MARIS COLLEGE ( AUTONOMOUS ) CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from academic year 2019-2020)

**PHYSICS FOR CHEMISTRY II**

**CODE:19PH/AC/PC43**

**CREDITS:3**

**LTP:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To understand the basic concepts of electricity and magnetism
- To familiarise students with developments in modern physics and electronics

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the theoretical and experimental background of Electricity and magnetism and will appreciate their general significance and applications.
- Understand the working of digital circuits.
- To understand the basic principles of operational amplifier.
- To understand the basic principles of Laser
- Implement Boolean algebra into circuits.

**Unit 1 (6 Hours)**

**Electricity**

- 1.1 Coulomb's Law of Inverse Squares - Flux of Electric Field - Gauss's Law – Application of Gauss's Law to Determine Field a Point Charge, Spherical Charge Distribution, Infinite Line Charge Distribution and Cylindrical Charge Distribution
- 1.2 Conservative Nature of Electrostatic Field – Electric Field – Electric Potential – Potential at a Point Due to Point Charge- Relation between Potential and Field Strength, Capacitance : Principle- Capacitance of a Parallel Plate Capacitor with and Without Dielectric

**Unit 2 (5 Hours)**

**Magnetism**

- 2.1 Magnetic Field - Force on a Charge in a Magnetic Field - Force on a Charge in an Electro Magnetic Field (Lorentz Force) - Maxwell's Electromagnetic Equations (no derivations) - Physical Significance of the Equations.-Magnetic Properties of Materials - Relation Between Relative Permeability and Susceptibility
- 2.2 Hysteresis- Magnetometer Method of Drawing Hysteresis Curve - Energy Laws – Retentivity - Coercivity - uses of Hysteresis Curves

**Unit 3** (5 Hours)  
**Electromagnetism**

- 3.1 Force on a Current Carrying Conductor in a Magnetic Field – Moving Coil  
Ballistic Galvanometer - Figure of Merit of Ballistic Galvanometer for Charge  
and Current Sensitivity

**Unit 4** (10 Hours)  
**Modern Physics**

- 4.1 MASER : Description and working of Ammonia MASER  
LASER : LASER Action – Population Inversion – Carbon Dioxide LASER  
Applications  
4.2 Holography : Principles – Preparation of Holograms Applications- Fibre  
Optics : Principles – Characteristics – Classification – Applications

**Unit 5** (13 Hours)  
**Electronics**

- 5.1 Introduction to Amplifiers - Operational Amplifier - Ideal Op - Amp - CMRR -  
Inverting and Non- Inverting Op-Amp – Summing - Difference - Integral and  
Differential Op - Amp.  
5.2 Boolean Algebra- De Morgan's Theorem – Verification. Algebraic  
Simplification – Implementation of Boolean Algebra into Circuits

**BOOKS FOR STUDY**

Mehta, V.K. *Principles of Electronics*. New Delhi: S Chand , 2014.  
Murugesan.R. *Modern Physics*, New Delhi: S Chand, 2013.  
Subrahmanyam, N. and Lal Brij. *A Text Book of Electricity and Magnetism*. Agra: Ratan  
Prakash, 1994.

**BOOKS FOR REFERENCE**

Haliday, David and Robert Resnick. *Physics Vol. II*. Chennai: New Age, 1995.  
Kakani, S L, and Bhandari K C. *A Text Book of Optics*. New Delhi: Sultan Chand, 2002.  
Laud .B.B. *Lasers and Non – Linear Optic*. New Delhi: Wiley Eastern, 1991.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components:** **Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions- 10x1=10

Fill in the blanks 5x1 = 5

Short answer 5x2 = 10

Section B (5x6=30)

Answer any FIVE questions (5x6=30) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C (3x15=45)

Answer any THREE questions (3x15=45) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Allied Core Offered by the Department of Physics to the Students of Chemistry**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PHYSICS PRACTICAL II**

**CODE:19PH/AC/P242**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

1. Rigidity Modulus 'G' By Static Torsion
2. Newton's Rings – Determination of Radius of Curvature of a Lens
3. Spectrometer – Grating – Normal Incidence - Determination of Wavelengths ( $\lambda$ )
4. Joule's Calorimeter – Determination of Specific Heat of a Liquid – Half Time Correction
5. Potentiometer – Ammeter Calibration (Low Range)
6. OP AMP- Inverting And Non Inverting Amplifier
7. Specific Heat Capacity of A Solid – Method of Mixtures
8. Carey Foster's Bridge –Determination of Specific Resistance
9. Coefficient of Viscosity – Absolute Determination

**BOOKS FOR STUDY**

Ouseph,C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* Chennai: S.Viswanathan, 2007.

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	
<b>End-Semester Examinations:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19PH/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH – III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**MICROPROCESSORS AND MICROCONTROLLERS**

**CODE:19PH/MC/MM53**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To understand the architecture of microprocessor 8085
- To develop programming skills for writing assembly languages for microprocessor 8085
- To learn the basic concepts of microcontroller 8051

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Analyze the architecture of 8085 and 8051
- Understand the concept of embedded system
- Distinguish and analyze the properties of microprocessors and microcontrollers
- Understand the instruction set and write programs for basic arithmetic operations
- Describe the application of the microprocessor and microcontroller in electronic devices.

**Unit 1 (10 Hours)**

**Central Processing Unit (CPU)**

- 1.1 Bus Structure - Address, Data and Control System Bus - Memory and I/O Interface Block Diagram - CPU 8085
- 1.2 Architecture: General Purpose Registers, ALU, Accumulator, Program Counter, Instruction Register, Stack, subroutines, Push/Pop Operations, Flag Register.

**Unit 2 (10 Hours)**

**Addressing Modes and Instruction Set**

- 2.1 Addressing Modes: Direct, Register, Immediate, Register in-Direct Addressing Modes
- 2.2 Instruction Set: Data Transfer Group, Arithmetic Group, and Logic Group Instruction
- 2.3 Timings of 8085 - fetch and execute cycle.

**Unit 3 (10 Hours)**

**Software Program**

- 3.1 Arithmetic Operations: Addition, Subtraction, Multiplication and Division of Single Byte Numbers - Square Root of a Positive Single Byte Number
- 3.2 Sorting an Array in Ascending / Descending Order

**Unit 4 (10 Hours)**

**Interfacing I/O devices and Interrupt Circuit**

- 4.1 Type of Interfacing Devices: Address Decoding for I/O - Input and Output Ports
- 4.2 8085 Interrupt Circuit-Restart Instructions - Hardware Interrupts - Interrupt Priorities

**Unit 5 (12 Hours)**

**Microcontrollers and Embedded systems**

- 5.1 Micro-Controller - 8051 - Architecture-Applications
- 5.2 Embedded System Concept - Embedded Microcontroller Pic Series - Applications

**BOOKS FOR STUDY**

Ramesh Gaonkar. *Microprocessor Architecture, Programming and Applications with the 8085*. New Delhi: Penram, 2013.  
Adithya .P. Mathur. *Introduction to Microprocessors*. New Delhi: Tata McGraw Hill, 2017.  
Vahid Frank and Givargis Tony. *Embedded System Design-Unified Hardware Software Introduction*. New Delhi, John Wiley, 2002.

**BOOKS FOR REFERENCE**

Vijayendran, V. *Fundamentals of Microprocessor- 8085 Architecture Programming and Interfacing*. Chennai: S. Viswanathan, 2006.  
Er.R Gopalsamy. *Microcontroller*. Madurai: Veni, 2004.  
Ghosh,A.K., and P.K. Sridhar. *0000 to 8085 Introduction to Microprocessor for Engineers and Scientists*. New Delhi: PHI, 1995.  
Kenneth J. Ayala. *8051 Microcontroller – Architecture, Programming and applications*. New Delhi: Penram, 1996.  
Mohammed Rafi Qubbaman. *Microprocessors and Microcomputer – Based System Design*. New Delhi: UBS, 1986.  
Rajkamal. *Microcontroller, Architecture, Programming, Interfacing and System Design*. U. K: Pearson, 2005.

**JOURNALS**

Elsevier - Journal of Microprocessors and Microsystems: Embedded Hardware Design

**WEBRESOURCES**

<http://www.phy.davidson.edu/FacHome/dmb/py310/8085.pdf>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions-  $10 \times 1 = 10$

Fill in the blanks  $5 \times 1 = 5$

Short answer  $5 \times 2 = 10$

Section B ( $5 \times 6 = 30$ )

Answer any FIVE questions ( $5 \times 6 = 30$ ) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C ( $3 \times 15 = 45$ )

Answer any THREE questions ( $3 \times 15 = 45$ ) (3 out of 5 to be answered)



**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the year 2019–2020)

**SOLID STATE PHYSICS**

**CODE :19PH/MC/SS54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To study crystal bonding and imperfections in crystals
- To learn the properties of solids

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain mechanical properties of solids and connect these to the type of bonding in them.
- Employ the classical and quantum mechanical theories needed to understand the physical properties of solids.
- Appreciate the physics of metals, semiconductors and insulators.
- Understand the impact of crystal imperfections on the properties of solids
- Explain simple theories for conduction of heat and electrical current in metals

**Unit 1 (11 Hours)**

**Crystal Bonding**

- 1.1 Bonding in Solids – Bond Energy- Bond Length-Types of Bonding –Primary Bonds- Ionic Bonding – cohesive energy of Ionic solids.
- 1.2 Covalent Bond (Qualitative Treatment Only) – Properties of Covalent Solids  
Metallic Bond – Properties of Metallic Solids.
- 1.3. Secondary bonds- Van der Waal's bond (molecular bond) – Van der Waal's Bond formation in Helium- properties of Van der Waal bonded solids- hydrogen bonding – hydrogen bond formation in water-properties of hydrogen bonded solids.

**Unit 2 (14 Hours)**

**Crystal Imperfections**

- 2.1 Classification of Imperfections- Point Defects - Schottky and Frenkel Defects – Electronic Defects- Energy of Formation of a Vacancy-Equilibrium Concentration of Schottky and Frenkel Defects in Ionic Crystals
- 2.2 Line Defects- Edge Dislocation- Burgers Vector- Screw Dislocation

**Unit 3 (12 Hours)**

**Electrical Properties of Solid**

- 3.1 Classical Free Electron Theory of Metals – the Free Electron Gas – Drude Lorentz Free Electron Theory – Ohm's Law – Expressions for Electrical Conductivity – Thermal Conductivity-Wiedemann and Franz Ratio
- 3.2 Hall Effect– Hall Voltage – Hall Coefficient – Mobility and Hall Angle – Experimental Determination of Hall Coefficient

**Unit 4 (14 Hours)**

**Magnetic Properties of Solids**

- 4.1 Different Types of Magnetic Materials– Langevin's Theory of Diamagnetism (Qualitative Treatment Only)–Langevin's Theory of Paramagnetism-Curie's Law-Failure of Langevin's Theory-Weiss Theory of Paramagnetism-Curie-Weiss Law
- 4.2 Ferromagnetism-Domain Theory of Ferromagnetism- Exchange Energy-Magnetic Energy-Anisotropic Energy-Domain Wall-Hysteresis Loop of a Ferro Magnetic Material-Explanation of Hysteresis with Domain Theory- Antiferro and Ferrimagnetic Materials- Application of Ferromagnets .

**Unit 5 (14Hours)**

**Superconductivity**

- 5.1 Introduction – experimental survey – effect of magnetic field – magnetic properties of superconductors – perfect diamagnetism or the Meissner effect – type I and type II superconductors – isotope effect
- 5.2 Thermodynamic effects – entropy, specific heat, thermal conductivity – energy gap –electrodynamics of superconductors – first and second London equations drawback of London theory
- 5.3. Qualitative explanation of BCS theory of superconductivity – application of superconductors.

**BOOKS FOR STUDY**

Ilangovan. K. *Solid State Physics*. Chennai: S.Viswanathan 2013.  
 S.O. Pillai. *Solid State Physic. New Delhi*: MJP Publishers 2011.  
 Singhal, R.L. *Solid State Physics*. Meerut: K. Nath, 2015.

**BOOKS FOR REFERENCE**

Dr.Rita John. *Solid State Physic. New Delhi*: McGraw Hill, 2010.  
 Saxena, B.S., R.C. Gupta and P.C. Saxena. *Fundamentals of Solid State Physics*, Meerut: Pragati, 2001.  
 Azarof Leonid. V. *Introduction to Solids*. New Delhi: Tata McGraw Hill, 2002.  
 Charles Kittel. *Introduction to Solid State Physics*. Singapore: Kin Keong, 2005.  
 Ali Omar M.. *Elementary Solid State Physics*. New Delhi: Replik, 2006.  
 Saxena. H.C. and Agarwal. K.L. *Principles of Electronics and Solid State Physics*. Agra: Ravi, 2005.

**JOURNALS**

Journal of Solid State Physics — An Open Access Journal  
 Solid State Sciences - Journal - Elsevier

**WEBRESOURCES**

[www.solid.phys.ethz.ch/](http://www.solid.phys.ethz.ch/)  
[www.springer.com](http://www.springer.com) › Home › Materials

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions- 10x1=10

Fill in the blanks 5x1 = 5

Short answer 5x2 = 10

Section B (5x6=30)

Answer any FIVE questions (5x6=30) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C (3x15=45)

Answer any THREE questions (3x15=45) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086**

**B.Sc. BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ELECTROMAGNETISM**

**CODE:19PH/MC/EM54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS 65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the fundamental concepts of classical electromagnetic theory
- To understand the complementary nature of electric and magnetic phenomena

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the theoretical and experimental background of Electricity and magnetism
- Appreciate their general significance and applications.
- Explain natural physical processes and related technological advances by applying the knowledge of electricity and magnetism.
- Calculate the electric field, force, potential for various charge distributions
- Apply Maxwell's equations for electromagnetic wave propagation

**Unit 1 (13 Hours)**

**Electrostatics**

- 1.1 Electrostatic Field - Coulomb's Law – Divergence and Curl of Electrostatic Field – Gauss's Law – Application – Cylindrical Charge Distribution
- 1.2 Electric Potential - Poisson's Equation – Laplace's Equation – Work Done in Moving a Charge – Energy of a Point Charge Distribution - Energy of a Continuous Charge Distribution – Electrostatic Boundary Conditions

**Unit 2 (13 Hours)**

**Electrostatic Fields In Matter**

- 2.1 Polarisation - Induced Dipoles – Alignment of Polar Molecules
- 2.2 Capacitors - Parallel Plate Capacitors-Field Inside a Dielectric – Gauss's Law in the Presence of Dielectrics – Spherical Capacitor – Capacitance of two wires – Cylindrical Capacitor.

**Unit 3 (15 Hours)**

**Magnetostatics**

- 3.1 Biot – Savart Law – Steady Currents – Magnetic Fields due to Steady Currents Flowing (i) in a Long Straight Wire at a Point Near it (ii) Along a Circular Coil at a Point on Its Axis (iii) Along a Solenoid at a Point on its Axis- Divergence and Curl of **B**.

- 3.2 Ampere's Law – (I) Magnetic Field at a Point Near a Long Straight Wire Carrying Steady Current. – (ii) Magnetic Field of a Long Solenoid (iii) Magnetic Field of a Toroidal Coil – Comparison of Magnetostatics and Electrostatics
- 3.3 Lorentz Force – Gauss law in magnetostatics-Ballistic galvanometer-dead beat and BG conditions-damping-applications of BG.

**Unit 4 (12 Hours)**

**Magnetostatic Fields in Matter**

- 4.1 Magnetic Properties of Materials – Torque and Forces on Magnetic Dipoles– Magnetization
- 4.2 Linear and Non-Linear Media – Magnetic Susceptibility – Magnetic Field and its Equations (I)  $B = \mu_0 (H + M)$  (ii)  $\mu = \mu_0 (1 + \chi_M)$  (iii)  $\mu_x = 1 + \chi_M$  - Hysteresis – Energy Loss in Hysteresis loop.

**Unit 5 (12 Hours)**

**Electrodynamics**

- 5.1 Faraday's Laws - Electromagnetic Induction - Inductance - Self Inductance - Mutual Inductance - Energy in Magnetic Fields – Relation between Self-inductance and Mutual inductance.
- 5.2 Maxwell's Equations in vacuum and medium - Maxwell's Equations and Magnetic Charge - Maxwell's Equations inside Matter - Boundary Conditions

**BOOKS FOR STUDY**

Tewari K.K. *Electricity and Magnetism*. New Delhi: S Chand, 1995.  
 Sehgal, D.L., K.L. Chopra, N.K. Sehgal. *Electricity and Magnetism*. New Delhi: Sultan Chand, 1992.

**BOOKS FOR REFERENCE**

Halliday David, Resnik Robert and Walker Jearl. *Fundamentals of Physics*. New Delhi: John Wiley, 2005.  
 Chattopadhyay D., and Rakshit P.C. *Electricity and Magnetism*. Kolkata: New Central Book Agency, 2005.  
 Griffiths David J. *Introduction to Electrodynamics*. New Delhi: Prentice, 1997.  
 Mahajan A.S and A. A Rangwala. *Electricity and Magnetism*. New Delhi: Tata McGraw Hill, 1988.

**JOURNALS**

Journal of Magnetism and Magnetic Materials - Elsevier  
[www.journals.elsevier.com/journal-of-magnetism-and-magnetic-materials](http://www.journals.elsevier.com/journal-of-magnetism-and-magnetic-materials)  
 Student Science Journal: Electricity and Magnetism  
[www.planetseed.com](http://www.planetseed.com) › Science › Student Science Journal

**WEB RESOURCES**

Electricity and Magnetism | Physics | MIT OpenCourseWare  
[ocw.mit.edu](http://ocw.mit.edu) › Courses › Physics  
 Science Center Spectrum - Electricity and magnetism  
[www.sdtb.de/Electricity-and-magnetism.1107.0.html](http://www.sdtb.de/Electricity-and-magnetism.1107.0.html)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B –  $3 \times 6 = 18$  Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C –  $1 \times 15 = 15$  Marks (1 out of 2 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions-  $10 \times 1 = 10$

Fill in the blanks  $5 \times 1 = 5$

Short answer  $5 \times 2 = 10$

Section B ( $5 \times 6 = 30$ )

Answer any FIVE questions ( $5 \times 6 = 30$ ) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C ( $3 \times 15 = 45$ )

Answer any THREE questions ( $3 \times 15 = 45$ ) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. PHYSICS : BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the Academic year 2019-2020)

**EXPERIMENTAL PHYSICS V**

**CODE:19PH/MC/P552**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

1. Spectrometer – i– d Curve.
2. Spectrometer - Solar Spectrum
3. Ballistic Galvanometer –Coefficient of Mutual Inductance
4. Air wedge - Determination of thickness of wire
5. Field along the Axis– Determination of m and M
6. Polarimeter – Determination of Specific Rotatory Power
7. Carey Foster's Bridge- Verification of Laws and Specific Resistance.
8. Potentiometer – Calibration of High Range Voltmeter
9. Young's Modulus – Koneig's Method

**BOOKS FOR STUDY**

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* Chennai: S. Viswanathan, 2007.

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, 2011

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	
<b>End-Semester Examination:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. PHYSICS : BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the Academic year **2019-2020**)

**EXPERIMENTAL PHYSICS VI**

**CODE:19PH/MC/P652**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

1. Flasher using relay – 555 Timer
2. Study of Waveforms - Differentiator and Integrator using IC 741.
3. Light to frequency converter
4. Temperature to Voltage converter
5. OP AMP –Adder, Subtractor, Inverting and Non- Inverting, Source follower and Multiplier.
6. Half adder and half subtractor using NAND and NOR gates
7. 4 bit Binary adder
8. Microprocessor application – Arithmetic operation (8 bit)- addition, subtraction, multiplication and division
9. Microprocessor application- sorting an array in ascending and descending order

**BOOKS FOR STUDY**

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* Chennai: S.Viswanathan, 2007

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, 2011

Sathian G. Kumar, (2006), *Computer Science - Manual for Digital Electronics and Microprocessor Lab.*

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	
<b>End-Semester Examination:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Interdisciplinary Core Course Offered by the Departments of Physics and Economics  
to B.Sc. Physics and B.A. Economics Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**RENEWABLE ENERGY AND ENERGY ECONOMICS**

**CODE: 19ID/IC/RE55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To understand the importance of renewable energy with special reference to solar and wind energy
- To understand various concepts in utilization of Solar energy
- To acquire knowledge about the principle of wind energy production
- To study the consumer and producer preference for renewable energy
- To understand and evaluate the energy policies adopted in India.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- To analyze solar radiation on earth's surface
- To evaluate the wind energy production at a site
- Evaluate the demand and supply of renewable energy
- To calculate the cost and benefits of alternative energy
- To critically analysis the energy policies adopted in India

**Unit 1 (15 Hours)**

**Energy Resources**

- 1.1 Energy routes for non- renewable energy resources – age renewables and alternatives – moving towards renewable energy sources- energy conservation practices.
- 1.2 Types of energy sources- Renewable and Non –Renewable sources.
- 1.3 Energy developments – energy requirements and future prospects.
- 1.4 Energy consumption - energy consumption (per capita) & economic growth
- 1.5 Global energy consumption - energy demand - primary energy demand and cumulative energy demand

**Unit 2 (17 Hours)**

**Solar Energy**

- 2.1 Fundamentals of solar radiation – nature of solar radiation – radiation on earth's surface – sun path chart.
- 2.2 Photovoltaics – principles – physics and operation of solar cells – solar panels- solar power plants.
- 2.3 fundamentals of solar collectors – conversion of solar energy to heat energy – applications - solar cooking- solar water heaters.

**Unit 3 (16 Hours)**

**Wind energy**

- 3.1 Introduction – basic principles of wind energy conversion.
- 3.2 Nature of wind – power in the wind -, forces on the blades and wind energy conversion – site selection
- 3.3 Classification of wind energy conversion systems – advantages and limitations.

**Unit 4 (15 Hours)**

**Micro Foundation**

- 4.1 Demand and supply and elasticity of renewable energy and Elasticity of Renewable energy
- 4.2 Consumer theory - preference and utility - Budget Constraints - Consumer Surplus
- 4.3 Producers theory -Producers equilibrium
- 4.4 Cost and revenue and pricing
- 4.5 Market Structure - Different Types of markets in renewable industry

**Unit 5 (15 Hours)**

**Energy Decision Policies**

- 5.1 Energy used by households and individuals - energy consumption - energy calculation
- 5.2 Alternative energy - cost and benefits
- 5.3 Price regulations, deregulation and market - world oil markets & energy security
- 5.4 Public Policies - Indian environmental policies - National Solar policies & Wind (national wind-solar hybrid policy 2018)- social movements - energy efficiency policies - renewable energy policies - regulation- emission trading
- 5.5 Global climate change issues and responses - greenhouse gas emission and potential effects - effect on ecology and biodiversity - responses to CO<sub>2</sub> - Carbon tax - Command and Control

**BOOKS FOR STUDY**

- 1. Ramesh R. Kumar K.U Renewable Energy Technologies , Narosa Publishing House, New Delhi, 1997.
- 2. Thipse. S.S. Nonconventional and Renewable energy sources, Narosa Publishing House, New Delhi, 2014.
- 3. G.D Rai, Solar Energy Utilization, 5<sup>th</sup> edition Khanna Publishers, 2010
- 4. Banks F.E Energy Economics ; A Modern Introduction, Kluwer Academic Publishers Dordrecht 2000
- 5. Griffin J H and H B Steel Energy Economics and Policy Academic Orlando 1986
- 6. Samuelson Paul A, William D Nordhaus ; Economics; 19<sup>th</sup> edition, McGraw Hill Education 2006

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Economics (25 marks)

Physics (25 marks)

Students should answer for minimum of 20 / 40 marks from each of the subjects.

Section A –  $5 \times 3 = 15$  (All questions to be answered)

Section B –  $4 \times 5 = 20$  (4 out of 5 to be answered)

Section C –  $1 \times 15 = 15$  (1 out of 2 to be answered)

### **Other Components:**

Seminars/Concept test/Quiz/Assignments/Case studies/Project

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Economics (50 marks)

Physics (50 marks)

### **Question Paper Pattern:**

Section A –  $10 \times 3 = 30$  Marks (All questions to be answered)

Section B –  $5 \times 5 = 25$  Marks (5 out of 7 to be answered)

Section C –  $3 \times 15 = 45$  Marks (3 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**

**B.Sc. DEGREE : BRANCH III - PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ELECTRONICS II**

**CODE:19PH/MC/EL63**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To study the design and applications of amplifiers
- To understand the basic principles of operational amplifier

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply circuit theory to analyze the electronic circuits
- Analyze A/D and D/A conversion methods
- Explain the functioning of solid state devices including unijunction transistor and field effect transistor
- Understand and analyze the methods of transistor biasing
- Have a knowledge of implementing operational amplifiers in various digital applications

**Unit 1 (10 Hours)**

**Circuit Analysis**

- 1.1 Linear Circuit Analysis - Open and Short Circuits - the Voltage and Current Divider Circuit
- 1.2 Superposition Theorem - Transfer Theorems – Thevenin's Theorems – Norton's Theorem

**Unit 2 (12 Hours)**

**Transistor Amplifiers**

- 2.1 Transistor Biasing – Voltage Divider Bias Method– Stability Factor - Operating Point–DC Load Lines
- 2.2 Single Stage Transistor Amplifier– Practical Circuit of Transistor Amplifier – Multistage Transistor Amplifier - RC Coupled Transistor Amplifier (No Derivation) – Operation – Frequency Response - Advantages – Disadvantages

**Unit 3 (10 Hours)**

**Special Semiconductor Devices**

- 3.1 Field Effect Transistors – JFET – Working – Channel Conductance – Space Charge Distribution – Difference Between JFET and Bipolar Transistor – JFET as an Amplifier – IV Characteristics – Pinch Off Voltage – Parameters of JFET
- 3.2 Uni Junction Transistor – Construction – Operation – Inter base Resistor – Equivalent Circuit – Intrinsic Stand Off Ratio – IV Characteristics – Peak Voltage Valley Current – Valley Voltage Negative Resistance Region – Relaxation Oscillator

**Unit 4 (10 Hours)**

**Operational Amplifier**

- 4.1 Differential Amplifier – CMRR – Operational Amplifier - Functional Diagram – Virtual Ground – Non Inverting – Inverting Modes of Operation – Gain Equation
- 4.2 Operational Amplifier Application – Adder- Subtractor - Scale and Sign Changer – Differentiator – Integrator – Voltage Follower- Comparator.  
Electronic Analog Computation – Solution of Simultaneous Equations – Differential Equation

**Unit 5 (10 Hours)**

**D/A and A/D converters**

- 5.1 Weighted resistor D/A converter – R – 2R ladder D/A converter – parallel A/D converter
- 5.2 A/D conversion by counter method - A/D conversion using voltage to frequency converter.

**BOOKS FOR STUDY**

Gayakwad R.A. *Op. Amps & Linear Integrated Circuits*. New Delhi: Prentice, 2015.  
Malvino Albert Paul and Leach Donald. *Digital Principles and Applications*. New Delhi: Tata McGraw Hill, 2014.  
Malvino Albert Paul. *Electronic principles*. New Delhi: Tata McGraw Hill, 1999.  
Mehta, V. *Principles of Electronics*. New Delhi: S Chand, 2014.  
Sedha R.S. *Applied Electronics*. New Delhi: S Chand, 2008.

**BOOKS FOR REFERENCE**

Allen Mottershead. *Electronic Devices and Circuits*. New Delhi: Prentice, 1982.  
Ambrose A & T Vincent Devaraj. *Elements of Solid State Electronics*. K.K. Dist: Meera 1990.  
Floyd Thomas L. *Digital Fundamentals*. New Delhi: Universal, 1997.  
Milmann and Halkias. *Integrated Electronics*. New Delhi: Tata McGraw Hill, 1992.

**JOURNAL**

IOSR – Journal of Electrical and Electronics Engineering. (IOSR – JEEE)

**WEBRESOURCE**

[www.Electronics.com/](http://www.Electronics.com/)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions-  $10 \times 1 = 10$ Fill in the blanks  $5 \times 1 = 5$ Short answer  $5 \times 2 = 10$ Section B ( $5 \times 6 = 30$ )Answer any FIVE questions ( $5 \times 6 = 30$ ) (5 out of 7 to be answered, 5 problems & 2 theory)Section C ( $3 \times 15 = 45$ )Answer any THREE questions ( $3 \times 15 = 45$ ) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086**

**B. Sc. DEGREE: BRANCH III - PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ATOMIC AND NUCLEAR PHYSICS**

**CODE:19PH/MC/AN64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To learn the fundamental concepts of nuclear physics
- To acquaint students with the phenomenon of radioactivity, nuclear energy and elementary particles

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the properties of the nucleus
- Appreciate the various significant processes in nucleus and its behavior
- Explore the interaction between subatomic particles
- Understand the theoretical aspect of the nuclear fusion and fission process
- Acquire knowledge and understand about the electronic and nuclear structure of atoms

**Unit 1 (13 Hours)**

**Positive rays and photoelectric effect**

- 1.1 Positive rays- Aston's mass spectrograph-Dempster's mass spectrograph. Photoelectric effect: Introduction-photoelectric laws-laws of photoelectric effect-Einstein's photoelectric equation-experimental verification of Einstein's photoelectric equation-Millikan's experiment-photoelectric cells.
- 1.2 Production of X-rays-Bragg's law-Bragg's spectrometer-X-ray spectra-continuous and characteristic X-ray spectrum-Moseley's law-Compton effect-experimental verification

**Unit 2 (13 Hours)**

**Atom model**

- 2.1 Excitation and ionization potentials-vector atom model-spatial quantization-spin quantum number associated with vector atom model- shell character-electronic structure-selection rules-electronic configuration-experimental confirmation of the vector atom model- Stern- Gerlach's experiment-Bohr magneton.
- 2.2 Zeeman effect-experimental arrangement of the normal Zeeman effect-expression for the Zeeman shift-Paschen Back effect-Stark effect.

**Unit 3 (13 Hours)**

**Nucleus and Radioactivity**

- 3.1 Nuclear Density - Binding Energy Per Nucleon - Packing Fraction - Nuclear

Stability - Magnetic Moment - Nuclear Radius - Nuclear Charge - Nuclear Force - Meson Theory of Nuclear Force

- 3.2 Relation between half-life and mean life – Law of Disintegration - Alpha Decay - Tunneling Effect - Range of Alpha Particle- Geiger Nuttal Law- Fine Structure - Beta Decay – K Electron Capture - Fermi Neutrino Theory - Beta Energy Spectrum, Gamma Decay – Principles of Internal Conversion - Interaction of Gamma Ray with Matter - Units of Radioactivity - Radiation Effects

**Unit 4 (13 Hours)**

**Nuclear Energy**

- 4.1 Nuclear reactions – Q value, threshold value – endoergic reaction, artificial radioactivity, radioisotopes, uses  
4.2 Nuclear fission – chain reaction – controlled and uncontrolled, multiplication factor – four factor formula, power reactors, reactors in India, nuclear fusion, thermonuclear reaction, C- N cycle, proton – proton cycle, plasma – Nuclear Magnetic bottle.

**Unit 5 (13 Hours)**

**Elementary Particles and Nuclear Resonance**

- 5.1 Elementary Particles - Leptons - Mesons - Baryons - Fundamental Interactions - Their Strength – Antiparticle - Strange Particles - Quarks, Conservation Laws  
5.2 Cosmic Rays Introduction – Neutrino – Van Allen Belt.

**BOOKS FOR STUDY**

Murugesan .R. Modern Physics. New Delhi: S Chand and Company Ltd., Eighteenth Edition 2016.

Gupta A. B. and Dipak Ghosh. Atomic and Nuclear physics. Calcutta: Books and Allied,. 1999.

**BOOKS FOR REFERENCE**

Beiser, Arthur. *Concepts of Modern Physics*. New Delhi: Tata McGraw Hill, 2004.

Chang, Raymond, , *Basic principles of Spectroscopy*, New Delhi: Tata McGraw Hill, 1971.

Ilandovan. K. *Nuclear Physics*. Chennai: MJP, 2012.

Littlefield, T A and Thorley N. *Atomic and Nuclear Physics – an Introduction*. London: Van Nostrand, 1979.

Rajam J. B. *Atomic Physics*. New Delhi: S Chand, 2000.

Ronald Gautreau and William Savin. *Schaum's Series*. New Delhi: Tata McGraw Hill, 2004.

Sanjiv Puri. *Modern Physics – Concepts and Applications*. New Delhi: Narosa, 2009.

**Journals**

Journal of Nuclear Physics

Physics Letters B: Nuclear, Elementary and High Energy Physics

Nuclear Engineering and Design

**Web resources**

www. Journal of nuclear Physics.com

Scienceenergy.gov/np

www.saha.ac.in



## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B –  $3 \times 6 = 18$  Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C –  $1 \times 15 = 15$  Marks (1 out of 2 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions-  $10 \times 1 = 10$

Fill in the blanks  $5 \times 1 = 5$

Short answer  $5 \times 2 = 10$

Section B ( $5 \times 6 = 30$ )

Answer any FIVE questions ( $5 \times 6 = 30$ ) (5 out of 7 to be answered, 5 problems & 2 theory)

Section C ( $3 \times 15 = 45$ )

Answer any THREE questions ( $3 \times 15 = 45$ ) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE : BRANCH – III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**QUANTUM MECHANICS AND RELATIVITY**

**CODE:19PH/MC/QR64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce the basic concepts and fundamental phenomena of quantum physics
- To understand the relationship between space and time, mass and energy.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Perform calculations using the Lorentz transformation formulae and define the notion of an inertial frame and the concept of an observer.
- State the principles of Special Relativity and use them to derive time dilation and length contraction.
- Define relativistic energy and momentum, and use these to solve problems in mechanics.
- Use the ideas of a wave-particle duality and the uncertainty principle to solve problems in quantum mechanics.
- Perform calculations using the quantum wave function of a particle moving in one dimension, including making use of the momentum operator.

**Unit 1 (12 Hours)**

**Wave like Properties of Particles**

- 1.1 Wave-Particle Duality-De Broglie hypothesis for matter waves-De Broglie Wavelength-Davisson and Germer Experiment.
- 1.2 Uncertainty Principle- Einstein's Interpretation of Duality for Radiation-Wave Functions- Superposition Principles
- 1.3 Properties of Matter Waves- Relation Between Wave, Group and Particle Velocities

**Unit 2 (12 Hours)**

**Schrödinger's Equations and Applications**

- 2.1 Time Independent Schrödinger's Equation
- 2.2 Applications to One Dimensional Problem: Particle in a One Dimensional Box-the Step Potential Rectangular Potential Barrier- Examples of Barrier Penetration by Particles
- 2.3 Application to Three Dimensional Problems: the Free Particle- Particle in Three Dimensional Box- Degeneracy
- 2.4 Introduction to Time Dependent Schrodinger Equation – Qualitative aspects.

**Unit 3 (14 Hours)**

**Quantum Mechanical Operators**

- 3.1 Definition of an Operator- Operator Algebra- Eigen Values and Eigen Functions
- 3.2 Commutation Relation between Momentum and Free Particle Hamiltonian Operators
- 3.3 Linear Operators- Hermitian Operators- Properties- Parity Operators- Properties- Commutation Relation between Parity and Symmetric Hamiltonian Operators

**Unit 4 (13 Hours)**

**Relativity**

- 4.1 The Experimental Background of the Theory of Relativity- Galilean Transformations- Newtonian Relativity
- 4.2 Michelson-Morley Experiment- Explanation of Negative Results- Postulates of Special Theory of Relativity
- 4.3 Inertial and Non-inertial frame of reference.

**Unit 5 (14 Hours)**

**Relativistic Mechanics**

- 5.1 Relativistic Kinematics - Lorentz Transformation Equation (Derivation) – Consequence of Lorentz Transformation Equation (i) Length Contraction (ii) Time Dilation Experimental Verification of Length Contraction and Time Dilation Concepts- Meson Paradox- Twin Paradox
- 5.2 Relativistic Mechanics - Relativistic Energy and Momentum
- 5.3 Mass - Energy Equivalence- Evidence in Support of Mass- Energy Relation between Momentum and Energy

**BOOKS FOR STUDY**

Kamal Singh, S.P.Singh. *Elements of quantum mechanics*. New Delhi: S Chand, 2005.  
Gupta S.L., V. Kumar, H V Sharma, R C Sharma. *Quantum Mechanics*. Meerut: Jai Prakash Nath, 2004.  
Prakash Sathya. *Relativistic Mechanics*. Meerut: Pragathi, 2017.

**BOOKS FOR REFERENCE**

Beiser Arthur. *Concepts of Modern Physics*, New Delhi: Tata McGraw Hill, 2004.  
Eisberg Robert, Robert Resnick. *Quantum Physics*. New York: John Wiley, 2002.  
Mathews P.M. *A Text Book of Quantum Mechanics*. New Delhi: Tata McGraw Hill, 1976.

**JOURNAL**

International Journal of Quantum Information (World Scientific)  
Quantum Physics News - Phys.org

**WEB RESOURCE**

[www.quantumrelativity.com/](http://www.quantumrelativity.com/)  
[phys.columbia.edu/~cqft/physics.htm](http://phys.columbia.edu/~cqft/physics.htm)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 17 Marks (All questions to be answered) in 20 minutes

Multiple choice – 7, Fill in the blanks – 4, Answer briefly – 3

Section B – 3 x 6 = 18 Marks (3 out of 4 to be answered (2 problems & 2 theory)

Section C – 1 x 15 = 15 Marks (1 out of 2 to be answered)

**Other Components:****Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A (25 Marks)

Multiple Choice Questions-  $10 \times 1 = 10$ Fill in the blanks  $5 \times 1 = 5$ Short answer  $5 \times 2 = 10$ Section B ( $5 \times 6 = 30$ )Answer any FIVE questions ( $5 \times 6 = 30$ ) (5 out of 7 to be answered, 5 problems & 2 theory)Section C ( $3 \times 15 = 45$ )Answer any THREE questions ( $3 \times 15 = 45$ ) (3 out of 5 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. PHYSICS : BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the Academic year 2019-2020)

**EXPERIMENTAL PHYSICS VII**

**CODE:19PH/MC/P762**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

1. Spectrometer - narrow angled prism
2. Spectrometer : i –i' curve of a prism.- Stoke's formula
3. Field along the axis – Searle's Vibration Magnetometer
4. Potentiometer – Comparison of EMF and Internal Resistance
5. Hysteresis – Magnetometer method – B-H curve
6. Ballistic Galvanometer – Comparison of Mutual Inductance
7. Carey Foster's Bridge- Temperature Coefficient
8. Copper Voltameter – Determination of E.C.E of Copper – T. G
9. Specific Heat Capacity of Liquid – Method of Mixtures.- Barton's Correction

**BOOK FOR STUDY**

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* Chennai: S.Viswanathan, 2007.

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, 2011

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	
<b>End-Semester Examination:</b>	<b>Total Marks : 50</b>	<b>Duration : 3 hours</b>
Formula & Procedure	20	
Observation & Calculation	20	
Result & Accuracy	10	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. PHYSICS : BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the Academic year 2019-2020)

**EXPERIMENTAL PHYSICS – VIII**

**CODE:19PH/MC/P862**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

1. R – 2R ladder - D/A Converter
2. Sine wave generation - Phase shift oscillator
3. Karnaugh map simplification
4. Astable multivibrator using 555 Timer
5. Data Selector – Study of multiplexer.
6. BCD Adder (7483)
7. Decade Counter (7490)
8. Ripple counter
9. Microprocessor - HEX to BCD and BCD to HEX conversion.

**BOOKS FOR STUDY**

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* Chennai: S. Viswanathan, 2007

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, 2011

Sathian G. Kumar, (2006), *Computer Science - Manual for Digital Electronics and Microprocessor Lab.*

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 3 hours**

Formula & Procedure	20
Observation & Calculation	20
Result & Accuracy	10

**End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Formula & Procedure	20
Observation & Calculation	20
Result & Accuracy	10

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self**

**(10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family**

**(17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ESSENTIALS OF NANOSCIENCE**

**CODE:19PH/ME/EN45**

**CREDITS:5**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce the students to the developing field of nanoscience and technology
- To understand the methods of synthesis, characterization techniques and applications of nanomaterials

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply optical properties of materials at nano scale and analyze the synthesis techniques
- Analyze various characterization techniques
- Discern the basic knowledge of nanomaterials to technological applications
- Implement the synthesis techniques in tailoring of nanomaterials
- Describe the basic science behind the properties of materials at the nanometer scale

**Unit 1 (13 Hours)**

**Introduction to Nanoscience and Nanotechnology**

- 1.1 Introduction- Nano and Nature- Scientific Revolution, Definition of Nanotechnology, Emergence of Nanotechnology
- 1.2 Bulk to Nano Transition- Nanosize Effects - Size Dependent Phenomena - Bohr Excitonradius, Quantum Confinement

**Unit 2 (13 Hours)**

**Types of Nanostructures and Functional Nanomaterials**

- 2.1 Definition of a Nano System - Types of Nanocrystals-One Dimensional (1D)-Two Dimensional (2D) -Three Dimensional (3D) Nanostructured Materials - Quantum Dots (0 D) - Quantum Wire - Core/Shell Structures
- 2.2 Carbon (Fullerene, CNT, Graphene), Noble Metals (Au, Ag), Metal Oxides ( $\text{TiO}_2$ ,  $\text{SnO}_2$ ,  $\text{ZnO}$ ), Semiconductors (CdS, CdSe, CdTe), Magnetic Nanoparticles, Semiconductor Nanocomposites (Si:Ge)

**Unit 3 (13 Hours)**

**Synthesis of Nanomaterials**

- 3.1 Physical Method: Ball Milling, Sputter Deposition, Ion Beam Techniques.
- 3.2 Chemical Method: Wet Chemical Synthesis – Sol-Gel Processing, Co-Precipitation, Hydrothermal, Chemical Bath Deposition
- 3.3 Vapour Method: Thermal Evaporation - Chemical Vapor Deposition (CVD)

**Unit 4 (13 Hours)**

**Characterisation Techniques**

- 4.1 Powder X-Ray Diffraction
- 4.2 UV-Vis Absorption Spectroscopy-Photo Luminescence
- 4.3 Scanning Electron Microscopy(SEM)- Transmission Electron Microscopy(TEM)

**Unit 5 (13 Hours)**

**Applications of Nanomaterials**

- 5.1 Applications in Physics: Nanoelectronics, Quantum Dot and Dye Sensitized Solar Cells, Photovoltaics, Photocatalytic Applications, CNT Based Transistor and Field Emission Display
- 5.2 Applications in Other Fields of Science: Nanosensors, Nanomedicine, Nanocoatings, Nanopaints

**BOOKS FOR STUDY**

GuoZhong Cao. *Nanostructures and Nanomaterials*. U.K: Imperial College Press, 2004.  
Viswanathan. B. *Nano Materials*. India: Narosa, 2010.  
Pradeep T. *Nano: The Essentials*. New Delhi: Tata Mcgraw Hill, 2007.

**BOOKS FOR REFERENCE**

John D. Miller. *A Hand Book on Nanophysics*. India: Dominant, 2008.  
Charles P. Poole, Jr., Frank J. Owens. *Introduction to Nanotechnology*. New Delhi: Wiley, 2009.  
Mick Wilson, Kamalikkannangora Geoff Smith, Michelle Simmons, Burkhard Raguse. *Nanotechnology- Basic Science and Emerging Technologies*. New Delhi: Overseas, 2005.

**JOURNALS**

American Chemical Society publishers  
Journal of Physical Chemistry (Review articles)  
Chemical Reviews  
Springerlink Publishers  
Journal of Nanoparticle Research  
Elsevier Publishers  
Nano Today

**WEBRESOURCE**

<http://www.slideshare.net/MazharLaliwala/introduction-to-nanoscience-and-nanotechnology>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A –  $5 \times 3 = 15$  (All questions to be answered)

Section B –  $4 \times 5 = 20$  (4 out of 5 to be answered)

Section C –  $1 \times 15 = 15$  (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Project/Assignments/Seminar

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A –  $10 \times 3 = 30$  Marks (All questions to be answered)

Section B –  $5 \times 5 = 25$  Marks (5 out of 7 to be answered)

Section C –  $3 \times 15 = 45$  Marks (3 out of 4 to be answered)

**STELLA MARIS COLLEGE, (AUTONOMOUS), CHENNAI-600 086**

**B.Sc. DEGREE: BRANCH III –PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LASER PHYSICS**

**CODE:19PH/ME/LP45**

**CREDITS :5**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To study the principles of Laser
- To acquaint student with different types of Lasers and their applications

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand light matter interaction
- Understand the basic principle and operation of a Laser
- Differentiate various types of lasers and their means of excitation
- Identify the various types of Lasers
- Appreciate the usage of Lasers in fields like Medicine, Industry, Defence etc.

**Unit 1 (13 Hours)**

**Basic Theory**

- 1.1 Quantum Nature of Light – Energy Levels – Thermal Equilibrium - Population-Population Inversion - Absorption – Spontaneous and Stimulated Emission – Condition for Stimulated Emission
- 1.2 Einstein's Coefficients – Relation Between Them – Schawlow -Towne's Threshold Condition for Laser Oscillations in Terms of Population Difference
- 1.3 Basic Components of a Laser- Active Medium- Pumping Agents- Different Pumping Methods- Optical Resonator- Action of Optical Resonator- Optical Resonator – Cavity Configuration - Plane Parallel Cavity-Confocal Cavity- Hemispherical and Long Radius Cavity

**Unit 2 (16 Hours)**

**Rate Equations and Solid State Lasers**

- 2.1 Laser Rate Equation- Two Level System- Three Level System- Four Level System (Qualitative Treatment Only)-Qualitative Explanation of Line Broadening Mechanism
- 2.2 Classification of Lasers (on the Basis of Active Medium) - Solid State Laser -Nd: YAG Laser–General Description-Structure- Energy Level Diagram – Working
- 2.3 Laser Beam Characteristics – Introduction- Directionality-Divergence- Coherence- Temporal and Spatial Coherence- Monochromaticity

**Unit 3 (10 Hours)**

**Gas and Liquid Lasers**

- 3.1 Gas Lasers–Molecular Gas Laser (Helium Neon laser and Carbon Dioxide Laser)-General Description-Structure - Energy Level Diagram – Working
- 3.2 Liquid Laser – Dye Laser - Description - Energy Level Diagram – Working
- 3.3 Chemical Laser– HCl Laser- HF Laser

**Unit 4 (13 Hours)**

**Semiconductor Laser and Holography**

- 4.1 Semiconductor Laser – Intrinsic Semiconductor Laser - Doped Semiconductor Laser
- 4.2 PN Junction– Population Inversion-Energy Level Diagrams- Homojunction Laser- Diode Laser Operation- Advantages of Laser Diodes over LED
- 4.3 Introduction to Holography –Recording and Reconstruction of the Image - Characteristics – Applications in Holography

**Unit 5 (13 Hours)**

**Applications**

- 5.1 Laser in Industry – Drilling - Cutting – Welding – Laser Printing - Lasers in Nuclear Energy – Isotope Separation – Nuclear Fusion- Lasers in Defense- Lidar – Precision Length Measurement – Velocity Measurement
- 5.2 Lasers in Medicine – Cancer Therapy– Laser Eye Surgery- Laser Angioplasty
- 5.3 Lasers in Consumer Electronics Industry –Bar Code Scanners - Lasers in Communications-Block Diagram-Basic Principles of Optical Computers-Laser Ablations.

**BOOKS FOR STUDY**

Avadhanulu .M.N. Hemne P.S *Introduction to Lasers*. New Delhi: S Chand, 2017.  
Laud B.B. *Lasers and Non – Linear Optics*. New Delhi: Wiley, 1985.

**BOOKS FOR REFERENCE**

Mohan. S, Arjunan. V, M. Selvarani and M. Kanachanamala, Laser Physics MJp Publishers, 2012.  
Thyagarajan K. & Ghatak, A.K. *Lasers*. Chennai: Macmillan, 1981.  
Wison, J & Hawkes J F B. *Optoelectronics–An Introduction*. New Delhi: Prentice Hall, 1987.

**JOURNALS**

Laser Physics – Springer  
[link.springer.com/journal/11490](http://link.springer.com/journal/11490)  
Journal of Laser Applications  
[Scitation.aip.org/content/lia/journal/jla](http://Scitation.aip.org/content/lia/journal/jla)

**WEBRESOURCE**

Institute of Physics - For physics • For physicists • For all ...  
[www.iop.org/](http://www.iop.org/)  
Laser Physics - Complete University Guide  
[www.thecompleteuniversityguide.co.uk](http://www.thecompleteuniversityguide.co.uk) › Courses › Options

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A –  $5 \times 3 = 15$  (All questions to be answered)

Section B –  $4 \times 5 = 20$  (4 out of 5 to be answered)

Section C –  $1 \times 15 = 15$  (1 out of 2 to be answered)

### **Other Components:**

**Total Marks: 50**

Quiz/Open book tests/Group discussion/Assignments/Seminar/Problem solving

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 3 = 30$  Marks (All questions to be answered)

Section B –  $5 \times 5 = 25$  Marks (5 out of 7 to be answered)

Section C –  $3 \times 15 = 45$  Marks (3 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**COMMUNICATION SYSTEMS**

**CODE:19PH/ME/CS45**

**CREDITS:5**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To acquaint students with concepts of communication systems
- To understand the principles of optical and mobile communication systems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand basics elements of communication systems
- Analyze the various types of modulation principles
- Apply the concepts of communication techniques to various modes of communication
- Demonstrate understanding of various modulation and demodulation techniques
- Recognize and classify the structures of optical fibre

**Unit 1 (13 Hours)**

**Communication Principles**

- 1.1 Types of Modulation – Amplitude Modulation – Modulation Factor – Analysis of Amplitude Modulated Wave – Energy Distribution in AM Wave
- 1.2 Frequency Modulation - Analysis of Frequency Modulated Wave – Phase Modulation – Comparison of Frequency and Amplitude Modulation
- 1.3 Pulse Amplitude Modulation – Pulse Width – Pulse Coded Modulation (Principles Only)

**Unit 2 (13 Hours)**

**Radiation Propagation**

- 2.1 Fundamentals of Electromagnetic Waves – Propagation of Waves – Ground Waves – Sky Waves – Waveguides and attenuation.
- 2.2 Space Wave Propagation – Effect of Earth's Curvature – Atmospheric Effects- Ionosphere and Its Stratification

**Unit 3 (13 Hours)**

**RADAR Systems and Microwave Generations**

- 3.1 Radar Systems – Basic Principles – Basic Pulsed Radar System – Block Diagram and Description – Radar Range Equation – Uses of Radar – Doppler Radar Systems

- 3.2 Microwave Communication – Introduction – Generation of Microwaves – Magnetron Oscillator – Working – Klystron Oscillator – Velocity Modulation– Multicavity Klystron – Reflex Klystron

**Unit 4 (13 Hours)**

**Fibre Optic Communication**

- 4.1 Introduction – Importance of Optical Fibres – Propagation of Light Waves in an Optical Fibre – Basic Structure of an Optical Fibre – Propagation of Light Wave Through an Optic Fibre – Acceptance Angle and Acceptance Cone of a Fibre – Modes of Propagation – Meridinal and Skew Rays
- 4.2 Classification of Optical Fibres – Fibre Losses – Attenuation in Optic Fibres- Material or Impurity Loss – Absorption Loss – Radiation Induced Losses

**Unit 5 (13 Hours)**

**Basics of Wireless and Mobile Communications**

- 5.1 Introduction - Radio Transmission Techniques- Cellular Concept - Operational Channels - Making a Call
- 5.2 Modern Wireless Communication Systems : First Generation Networks - Second Generation Networks - TDMA/FDD - CDMA/FDD Standard - Mobile Networks – 3G - Third Generation Networks - 4G networks- Bluetooth - Wireless Local Area Networks (W-Lan)

**BOOKS FOR STUDY**

Ambrose, A., T. Vincent Devraj. *Elements of Solid State Electronics*, K. K. DT: Meera 1990.

Mehta. V.K. *Principles of Electronics*. New Delhi : S Chand, 2014.

Sarkar Subir Kumar. *Optical Fibres and Fibre Optic Communication Systems*. New Delhi: S Chand, 2007.

Jochen Schiller. *Mobile Communications*. Second Edition. U.K: Pearson Education, 2008.

**BOOKS FOR REFERENCE**

Haykin, Simon. *Digital Communications*. New Delhi: John Wiley, 1998.

Kennedy, George. *Electronic Communication Systems*. New Delhi: McGraw, 1984.

Lathi B.P. *Communication System*. New Delhi: New Delhi: Wiley, 1981.

Kaveh Pahlavan, Prasanth Krishnamoorthy. *Principles of Wireless Networks*. First Edition. U.K: Pearson Education, 2003.

**JOURNAL**

AEU - International Journal of Electronics and Communications

IOSR Journal of Electronics and Communication Engineering(IOSR-JECE)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 5x3= 15 (All questions to be answered)

Section B – 4x5= 20 (4 out of 5 to be answered)

Section C – 1x15=15 (1 out of 2 to be answered)

**Other Components:**

**Total Marks: 50**

Project/Assignments/Seminar

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 5 = 25 Marks (5 out of 7 to be answered)

Section C – 3 x 15 = 45 Marks (3 out of 4 to be answered)



**STELLA MARIS COLLEGE, (AUTONOMOUS), CHENNAI-600 086**

**B.Sc. DEGREE: BRANCH III –PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SPECTROSCOPY**

**CODE:19PH/ME/SP45**

**CREDITS:5**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To expose the students to the basic principles of spectroscopy
- To provide an idea about instrumentation and the applications of spectroscopy

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Have knowledge about interactions of electromagnetic radiation and matter
- Understand the various spectroscopic techniques
- Explain the basic science behind the Microwave, Infrared and Raman spectroscopic techniques
- Show an ability to select a suitable characterization technique for their research
- Describe the basic concepts related to Nuclear Magnetic Resonance

**Unit 1 (9 Hours)**

**Introduction**

- 1.1 Characteristics of electromagnetic spectrum – The quantization of energy – regions of the spectrum – representation of spectra – basic elements of practical spectroscopy.
- 1.2 Resolving power – width of spectral lines – intensity of spectral lines

**Unit 2 (14 Hours)**

**Microwave Spectroscopy**

- 2.1 Rotation of molecules - Rotational spectra - Rigid and non-rigid diatomic rotator- Intensity of spectral lines - Isotopic substitution - Poly atomic molecules (Linear, symmetric top and asymmetric top) - Hyperfine structure
- 2.2 Techniques and instrumentation - Chemical analysis by microwave spectroscopy

**Unit 3 (14 Hours)**

**Infrared spectroscopy**

- 3.1 Energy of diatomic molecules - The simple harmonic oscillator - The diatomic vibrating rotator - Vibrational rotational spectrum - Interactions of rotations and vibrations-Influence of rotation on the Vibrational spectrum of linear and symmetric top and poly atomic molecules
- 3.2 Techniques and instrumentation – Single and double beam Spectrophotometer – applications

**Unit 4 (14 Hours)**

**Raman spectroscopy**

- 4.1 Classical and quantum mechanical picture of Raman effect-Polarizability –Pure rotational Raman spectrum- Vibrational Raman Spectrum- Rule of mutual exclusion-Overtones and combination- Rotational fine structure - Depolarization ratio-Vibrations of spherical top molecule-structural determination from IR and Raman spectroscopy
- 4.2 Techniques and instrumentation – applications

**Unit 5 (14 Hours)**

**Nuclear magnetic resonance spectroscopy**

- 5.1 Introduction-Interaction of spin and magnetic field-population of energy levels- Larmor precession-Relaxation - times- Double resonance- Chemical shift and its measurement- Coupling constant-Coupling between several nuclei - Quadrupole effects-C13 NMR spectroscopy
- 5.2 Experimental methods - Interpretation of simple spectrum

**BOOKS FOR STUDY**

C. N. Banwell, Fundamentals of molecular spectroscopy, Tata Mcgraw Hill, New Delhi(2016)

H.V. Sharma,S.L. Gupta,V. Kumar , Elements of Spectroscopy Pragati Prakashan 2011

**BOOKS FOR REFERENCE:**

Rajat K. Chaudhuri, M.V. Mekkaden, A. V. Raveendran, A. Satya Narayanan Recent Advances in Spectroscopy:

Berman Paul R., Malinowski Vladimir S. Principles of Laser Spectroscopy and Quantum Optics Princeton University Press

**PATTERN OF EVALUATION**

**Continuous Assessment Test : Total Marks: 50 Duration: 90 minutes**

Section A –  $5 \times 3 = 15$  (All questions to be answered)

Section B –  $4 \times 5 = 20$  (4 out of 5 to be answered)

Section C –  $1 \times 15 = 15$  (1 out of 2 to be answered)

**Other Components:**

Quiz/Open book tests/Group discussion/Assignments/Seminar/Problem solving

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A –  $10 \times 3 = 30$  Marks (All questions to be answered)

Section B –  $5 \times 5 = 25$  Marks (5 out of 7 to be answered)

Section C –  $3 \times 15 = 45$  Marks (3 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. BRANCH III – PHYSICS**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**PROJECT**

**CODE:19PH/ME/PR45**

**CREDITS:5**

**GUIDELINES FOR PROJECT**

Project should be done individually. Each student will choose a topic of her interest and the student will be assigned a supervisor.

Each candidate should submit a research proposal to the Supervisor and the abstract of the project to be developed in guidance with the supervisor

The project will require practical work with the submission of a project report. It should include experimental lab work. The duration of the project work is one semester

The project report should be submitted in the prescribed format containing a minimum of 30 pages.

Each candidate has to give three periodical reviews to the internal guide on the scheduled dates prescribed by the Department

Each candidate will submit 3 hard copies of the project thesis and submit on the scheduled date. The student will appear for Viva-voce before a panel comprising External Examiner, supervisor and Head of the Department

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

Periodical review and submission of reports

**End Semester Examination:**

**Total Marks: 50**

Dissertation and Viva-Voce

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86**

**General Elective Course Offered by Department of Physics to  
B A./ B.Sc (Other than Mathematics, Physics, Chemistry) / B.V.A / B.Com.  
/B.B.A / B.C.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**BASIC PRINCIPLES OF PHYSICS**

**CODE:19PH/GE/BP22**

**CREDITS:2**

**L T P:1 0 1**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To learn the basic concepts of physics
- To understand the principles of various machines through experiments

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate conceptual understanding of the fundamental Physics principles.
- Explain the behavior of light in different mediums
- Understand the basic concepts of Current, Electricity and Voltage.
- Apply the basics laws of mechanics to understand the working of simple machines.
- Appreciate the usage of the basic concepts of Physics in everyday life.

**Unit 1 (8 Hours)**

**Mechanics**

- 1.1 Newton's Laws of Motion- Conservation of Linear Momentum. Impulse- Collision- Centripetal and Centrifugal Forces –First and Second Order of Levers –Simple Machines
- 1.2. Experiments
  - I Conservation of Linear Momentum
  - II Centripetal and Centrifugal Forces
  - III Simple Machines

**Unit 2 (9 Hours)**

**Optics**

- 2.1 Light – Characteristics of Light- Reflection – Refraction – Interference – Diffraction -Polarization- Electromagnetic Spectrum- Microscope-Telescope- Spectrometer
- Laser- Stimulated Emission – Principle of Laser Action
- 2.2 Experiments
  - i. Parts of Optical Instruments
  - ii Study of Spectrum Using Prism and Transmission Grating
  - iii Determination of Thickness of Thin Wire Using LASER

**Unit 3****(9 Hours)****Electricity**

3.1 Ohm's Law- Resistance in Series and Parallel- Electromagnetic Induction- Lenz's Law- Magnetic Materials- Different Types of Magnetic Materials- DC and AC- Three Phase AC

3.2 Experiments

- i. Verification of Ohm's Law
- ii Study of Magnetic Properties
- iii Generation of EMF Using Induction Coil

**BOOKS FOR STUDY**

Halliday, David and Robert Resnick. *Physics Vol I and II*. Chennai: New Age, 1995.

**BOOKS FOR REFERENCE**

Narayanamurthi. M and Nagaratham. N. *Dynamic*. Chennai: The National, 1994.

Subrahmanyam. Nand Lal Brij. *Textbook of Optics*. New Delhi: Vikas, 2013.

Murugesan R. *Electricity and Magnetism*. New Delhi: S Chand, 2013.

**PATTERN OF ASSESSMENT****No End-Semester Examination.****Continuous Assessment Test****Total : 25 Marks**

Section A – 5 x 3 = 15 Marks (All questions to be answered)

Section B – 2 x 5 = 10 Marks (2 out of 4 to be answered)

**Other Components:****Total : 25 Marks**

Seminar/Quiz/Open book tests/Assignment/Presentation of working model

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086**

**General Elective Course Offered by Department of Physics to  
B A./ B.Sc (Other than Mathematics, Physics, Chemistry) / B.V.A / B.Com.  
/B.B.A / B.C.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HOME ELECTRICAL INSTALLATIONS**

**CODE:19PH/GE/HE22**

**CREDITS:2**

**L T P:1 0 1**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To understand the working principles of domestic electrical appliances
- To gain the ability to carry out simple electrical repair works

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the basic concepts of Current, Electricity and Voltage.
- Understand the working and usage of basic circuit components in circuits.
- Implement various safety measures and precautions when handling electrical appliances
- Have a knowledge of the working principles of few home electrical appliances
- Make comprehensive use of the technical knowledge gained from hands on training to undertake simple electrical repair works.

**Unit 1 (9 Hours)**

**Basic Electric Circuits**

- 1.1 Basic Facts : Electric Circuits – Basic Components Used in an Electric Circuit – Complete Circuit- Lighting Circuits - Series and Parallel Circuits
- 1.2 Switches – Types of Switches – Plugs and Its Types – Safety Practices and Measurements

**Unit 2 (9 Hours)**

**Electrical Connections**

- 2.1 Principles of Single Phase and Three Phase Connections. Fuses-Fuse Wire – Melting Point – Causes and Repairing a Fuse- the Earth Wire – Lightning Conductor
- 2.2 Home Appliances: Inverter - Electric Fan- Electric Iron.

**Unit 3 (8 Hours)**

**Demonstration and Hands-on Training**

- 3.1 Experiments on Closed, Open, Short, Series and Parallel Circuits.
- 3.2. Wiring Practice of Switches and Plugs.
- 3.3 Measurement of Current and Voltage Using Multimeter.
- 3.4. Replacing Fuses
- 3.5 A Model of House Wiring
- 3.6. Tubelight Connection

**BOOKS FOR REFERENCE:**

Bob Fairbrother. *Electricity in the Home*. New York: Bell and Bain, 1998.

Lindsaey Trevor. *Basic Electrical Installation Work*. Great Britain: Newnes, 2005.

**PATTERN OF ASSESSMENT****No End-Semester Examination****Continuous Assessment Test****Total : 25 Marks**

Section A – 5 x 3 = 15 Marks (All questions to be answered)

Section B – 2 x 5 = 10 Marks (2 out of 4 to be answered)

**Other Components:****Total : 25 Marks**

Presentation of working models/Assignments/Problem solving/Seminars

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086**

**B.Sc. DEGREE: BRANCH III – PHYSICS**

**General Elective Course Offered by Department of Physics to  
B A./ B.Sc (Other than Mathematics, Physics, Chemistry) / B.V.A / B.Com.  
/B.B.A / B.C.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**ENERGY PHYSICS**

**CODE:19PH/GE/EP22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To understand various types of energy
- To stress the importance of conservation of energy and the need for alternate source of energy

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Learn what energy and work mean in Physics and how they are related to each other.
- Describe the environmental impact of the fossil fuels and the need for cleaner sources of energy.
- Acquire knowledge about all proposed renewable energy technologies
- Explain the production of electricity from renewable sources of energy
- Understand and be aware of the importance of sustainable energy.

**Unit 1 (9 Hours)**

**Introduction**

- 1.1 Energy : Sources of Energy - Forms of Energy- Potential , Kinetic, Mechanical, Chemical and Thermal Units of Energy, Uses of Energy, Energy Conversion
- 1.2 Non-Renewable Energy – Coal, Petroleum, Gas , Renewable Energy- Solar, Wind, Biomass, Geothermal and Nuclear , Advantages and Disadvantages

**Unit 2 (8 Hours)**

**Non-Renewable Energy**

- 2.1 Coal - Early Uses as Fuel,-Electricity Generation, Petroleum- Composition, Reservoirs – Uses
- 2.2 Natural Gas – Process, Conversion to Electrical Energy

**Unit 3 (9 Hours)**

**Renewable Energy**



- 3.1 Solar Energy- Solar Energy Conversion, Solar Pond, Solar Voltaic Cell Conversion, Wind Energy , Wind Mill Types , Geothermal- Power Plants, Uses of Geothermal Water
- 3.2 Biomass Energy – Biofuel Conversion Process, Gasification of Bio Mass, Nuclear:  
Nuclear Fission and Fusion, Power Reactors Hydroelectric Power, Principle - Production of Power

### **BOOKS FOR STUDY**

Ashok V. Desai. *Non-conventional Energy*. New Delhi: New Age, 2001.

### **BOOKS FOR REFERENCE**

Ashwin Paramar. *Energy Future*, New Delhi: Dominant, 2001.

Tiwari. G. N. and Ghosal M. K. *Renewable Energy resources*. New Delhi: Narosa, 2007.

Vandana. S. *Alternative Energy*. New Delhi: A P H, 2002.

### **PATTERN OF ASSESSMENT**

#### **No End-Semester Examination.**

#### **Continuous Assessment Test**

**Total : 25 Marks**

Section A – 5 x 3 = 15 Marks (All questions to be answered)

Section B – 2 x 5 = 10 Marks (2 out of 4 to be answered)

#### **Other Components:**

**Total : 25 Marks**

Seminars/Quiz/Group discussion/Assignments

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course Offered by Department of Physics to  
B A./ B.Sc (Other than Mathematics, Physics, Chemistry) / B.V.A / B.Com.  
/B.B.A / B.C.A. / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**WIRELESS COMMUNICATION**

**CODE:19PH/GE/WL22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To study the basic concepts of communication
- To understand the principles of optical and mobile Communications

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand types of propagation of electromagnetic radiation
- Understand the basics of AM and FM transmission and reception
- Describe the basics of wireless communication
- Differentiate four generations of wireless standard for cellular networks
- Acquire a basic understanding of concepts related to Bluetooth, GPS and Hotspot.

**Unit 1 (9 Hours)**

**Radiation Propagation**

- 1.1 Fundamentals of Electromagnetic Waves – Propagation of Waves - Ground Waves – Sky Waves – Space Waves.
- 1.2 Radio Broadcasting –Transmission and Reception – AM and FM.

**Unit 2 (9 Hours)**

**Basics of Wireless Communication**

- 2.1 Wireless Transmission: Introduction to Mobile Communications - Frequencies -
- 2.2 Signals - Signal Propagation - Cellular Systems – GSM

**Unit 3 ( 8 Hours)**

**Mobile Communications**

- 3.1 Modern Wireless Communication Systems : 1G, 2G, 3G and 4G network
- 3.2 Bluetooth – GPS – Hotspot.

**BOOKS FOR STUDY**

Ambrose, A., T. Vincent Devraj, *Elements of Solid State Electronics*. K.K. Dist: Meera, 1990.

Jochen Schiller, *Mobile Communications*. 2nd edition. New Delhi: Addison-Wesley, 2003.  
Mehta. V.K., *Principles of Electronics*. New Delhi: S Chand, 1993.

Sarkar Subir Kumar, *Optical Fibres and Fibre Optic Communication Systems*. New Delhi: S Chand, 1997.

### **BOOKS FOR REFERENCE**

Haykin, Simon, *Digital Communications*. New Delhi: John Wiley, 1998.  
Kennedy, George, *Electronic Communication Systems*. New Delhi: Tata McGraw Hill, 1984.  
Lathi B.P., *Communication System*, New Delhi: Wiley Eastern Limited, 1981.

### **PATTERN OF ASSESSMENT**

#### **No End-Semester Examination**

**Continuous Assessment Test** **Total : 25 Marks**

Section A – 5 x 3 = 15 Marks (All questions to be answered)

Section B – 2 x 5 = 10 Marks (2 out of 4 to be answered)

**Other Components:** **Total : 25 Marks**

Seminars/Quiz/Group discussion/Assignments

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Independent Elective Course Offered by Department of Physics to  
B A. / B.Sc. / B.Com. / B.C.A. / B.S.W. Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**GEOPHYSICS**

**CODE:19PH/UI/GP23**

**CREDITS:3**

**OBJECTIVE OF THE COURSE**

- To learn the basics of Geophysics and the dynamics of Earth

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the structure and evolution of our planet
- Acquire knowledge on the formation of oil and gas.
- Apply physics to the study of earth
- Describe the Earth and the Universe in their generality.
- Understand the fundamentals of Seismology for the exploration of oil reservoirs.

**Unit 1**

**The Earth as a Planet**

- 1.1 Solar System - Kepler's Law of Planetary Motion - Bode's Law
- 1.2 Characteristics of Planet - Origin of the Solar System - Earth's Structure

**Unit 2**

**Gravity and the Figure of the Earth**

- 2.1 Earth Size and Shape - Gravitation- Law of Universal Gravitation- Gravitational Acceleration - Gravitational Potential
- 2.2 Earth's Rotation - Earth's Figure and Gravity

**Unit 3**

**Seismology and Seismic Waves**

- 3.1 Elastic Theory- Elastic - an Elastic and Plastic Behavior of Materials - Elastic Waves - Body Waves - Surface Waves
- 3.2 Seismograph – Introduction - Various Seismometers - Seismic Wave Propagation- Introduction - Huygens's Principle – Diffraction - Fermat's Principle

**Unit 4**

**Geomagnetism**

- 4.1 Introduction - Discovery of Magnetism - Magnetic Properties of Material- Diamagnetic - Paramagnetic – Ferromagnetic - Curie Temperature
- 4.2 Magnetometers - Flux Gate Magnetometer - Proton Precession Magnetometer

**Unit 5**

**Petroleum Geology**

- 5.1 Introduction (Origin and Theory of Hydrocarbons) - Source Rock – Migration - Reservoir Rock - Classification of Reservoir Rocks - Physical Characteristic of Reservoir Rock (Depth, Area and Thickness, Porosity, Permeability) - Cap Rocks
- 5.2 Traps - Types of Traps (Structural Traps, Salt Dome Traps, Stratigraphic Traps, Combinational Traps)

### **BOOKS FOR STUDY**

Baker Hugher *INTEQ. Petroleum Geology*. Mexico: Bureau of Mines, 2016.  
Robert.J.Lilie. *Whole Earth Geophysics*. New Jersey: Prentice, 1999.  
William Lowrie, *Fundamentals of Geophysics*. U.K: Cambridge, 1997.

### **BOOKS FOR REFERENCE**

Don.L.Anderson. *Theory of the Earth*, Boston: Blackwell Scientific, 1989

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 5 = 25 Marks (5 out of 7 to be answered)

Section C – 3 x 15 = 45 Marks (3 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Independent Elective Course Offered by Department of Physics to  
B A. / B.Sc. / B.Com. / B.C.A. / B.S.W. Degree Programmes**

**SYLLABUS**

**(Effective from the academic year 2019–2020)**

**ASTROPHYSICS**

**CODE:19PH/UI/AP23**

**CREDITS: 3**

**OBJECTIVE OF THE COURSE**

- To learn about stars and constellations

**OUTCOME OF THE COURSE**

On completion of the course students will be able to

- Demonstrate a basic understanding of the stars, galaxies and our Universe.
- Understand the violent universe -white dwarf, neutron stars and black hole.
- Acquire knowledge about unsolved mysteries of the universe
- Understand the exoplanets in the solar system
- Describe the general observed properties of star and their formation and evolution with respect to HR diagram.

**Unit 1**

**Our Place in the Universe and Solar System**

- 1.1 Introduction: Our Place in the Universe-the Sky- the Constellation- Annual Motion of the Sun-Wanderers-Time and the Calendar
- 1.2. The Solar System: Introduction-Asteroids-Meteoroids-Meteors-Comets-Solar Photon- Magnetosphere- Solar Flares-Maunder Minimum-Solar-Terrestrial Relations

**Unit 2**

**Stars-Introduction**

- 2.1 Stars: Description-Stellar Distances -Absolute Magnitude- Stellar Spectra- the Hertzsprung Russell Diagram
- 2.2 Stellar Sizes-Binary Stars-Eclipsing Binaries-Common Stars- Stellar-Mileposts

**Unit 3**

**Life History of Stars**

- 3.1 Life History of Stars: The Internal Structure of a Star
- 3.2 Stellar Evolution- Supernovae, Pulsars, Black Holes- Chandrasekhar's Limit and Neutron Stars

**Unit 4**

**Our Galaxy**

- 4.1 Our Galaxy: Star Clusters-Interstellar Matter - the Galaxy-Stellar Population- the Centre of the Galaxy

4.2 Light and Telescope : the Nature of Light – Telescopes- Detecting Light – Invisible Radiation- the Inverse Square Law

**Unit 5**

**The Universe**

5.1 The Universe-Galaxies-the Distance Scale-the Expanding Universe

5.2 Radio Galaxies- Cosmology

**BOOKS FOR STUDY**

Abhyankar. *Astrophysics-Stars and Galaxies*. Hyderabad: University, 2001.

**BOOKS FOR REFERENCE**

Baidayanath Basu. *An Introduction to Astrophysics*. New Delhi: Prentice, 1997.

Bhatia V.B. *Astronomy and Astrophysics with Elements of Cosmology*. New Delhi: Narosa, 2001.

Kumaravelu and Susheela Kumaravelu. *Astronomy*. Nagercoil: Diocesan, 1981.

Owen Gingerich. *New Frontiers in Astronomy*. San Fransisco: W.H.Freeman, 1970.

**JOURNAL**

The Astrophysical Journal - IOPscience

[iopscience.iop.org/0004-637X/](http://iopscience.iop.org/0004-637X/)

International Journal of Astronomy and Astrophysics

[www.scirp.org/journal/ijaa/](http://www.scirp.org/journal/ijaa/)

**WEB RESOURCES**

Astrophysics - NASA Science - Science@NASA

[science.nasa.gov/astrophysics](http://science.nasa.gov/astrophysics)

Astronomy, astrophysics & cosmology - physicsworld.com

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 5 = 25 Marks (5 out of 7 to be answered)

Section C – 3 x 15 = 45 Marks (3 out of 4 to be answered)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)



## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF PSYCHOLOGY**

**PROGRAMME DESCRIPTION**

The Bachelor's programme will place emphasis on the genetic, physical, physiological, sensory, cognitive, temperamental and social components that mediate the study of human behaviour. The course covers topics such as developmental psychology, basic psychology, social psychology, biological psychology, research methods and statistics, counselling psychology, abnormal psychology, experimental psychology, rehabilitation psychology, psychological testing, applied psychology and organizational psychology. Students will explore these topics through lectures, assignments, audio-visual teaching aids and laboratory practices. By the end of the programme, students will be able to effectively apply theoretical knowledge in different domains of psychological practice.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of this programme, it is expected that students will be able to

- Demonstrate an understanding of basic concepts in psychology
- Demonstrate an understanding of the dynamics of human interaction within an organizational context
- Communicate knowledge of various approaches in counselling and be able to incorporate the same in critiquing counselling process
- Demonstrate a deep understanding of the psychological implications of physical disabilities and physiological illnesses and conceptualize the same through a bio-psychosocial lens
- Assess, and interpret psychological constructs in individuals using standardised psychometric tests
- Accurately diagnose psychological disorders based on an appropriate classification system; and determine the etiology of the illness
- Demonstrate an ability to undertake, conduct and publish a systematic psychological research study

- Demonstrate sensitivity to the need for individualised intervention programmes in rehabilitation of those with physical disabilities and ailments, and those with psychopathological conditions
- Exhibit a strong ethical sensibility and abide by the ethical guidelines for psychotherapeutic practice
- Demonstrate a non-judgemental attitude, treat all clients equally
- Strive to provide only support to those who seek their aid
- Create an inclusive, integrated and healthy community that facilitates an empathetic, humane and empowered society
- Demonstrate in-depth knowledge and skill in specific areas of psychology
- Communicate effectively, think critically, behave ethically and with cultural Awareness
- Demonstrate the ability to work cordially with people from a wide variety of backgrounds

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE:PSYCHOLOGY**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19PY/MC/GP14	General Psychology I	4	4	1	0	3	50	50	100
19PY/MC/BP14	Biological Psychology I	4	4	1	0	3	50	50	100
19PY/AC/SP15	Social Psychology I	5	5	0	0	3	50	50	100
19PY/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
<b>SEMESTER-II</b>									
19PY/MC/GP24	General Psychology II	4	4	1	0	3	50	50	100
19PY/MC/BP23	Biological Psychology II	3	3	1	0	3	50	50	100
19PY/AC/SP25	Social Psychology II	5	5	0	0	3	50	50	100
19PY/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective I								
<b>SEMESTER-III</b>									
19PY/MC/DP34	Developmental Psychology I	4	4	1	0	3	50	50	100
19PY/MC/RM34	Introduction to Research Methodology	4	4	1	0	3	50	50	100
19PY/AC/ST35	Statistics in Psychology	5	5	0	0	3	50	50	100
19PY/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
<b>SEMESTER-IV</b>									
19PY/MC/DP44	Developmental Psychology II	4	4	1	0	3	50	50	100
19PY/MC/EP45	Experimental Psychology Practical	5	3	0	4	3	50	50	100
19PY/AC/HP45	Health Psychology	5	5	0	0	3	50	50	100
	Major Elective I								
<b>SEMESTER-V</b>									
19PY/MC/AB55	Abnormal Psychology I	5	5	1	0	3	50	50	100
19PY/MC/AP54	Applied Psychology	4	4	1	0	3	50	50	100
19PY/MC/PA55	Psychological Assessment Practical	5	3	0	4	3	50	50	100
<b>Inter Disciplinary Core Course (PY and CE) to students of Psychology&amp;Eng. and Commun. Skills</b>									
19ID/IC/LP55	Literature and Psychology	5	5	1	0	3	50	50	100
<b>Inter Disciplinary Core Courses (CS and PY) to students of Computer Science</b>									
19ID/IC/HC55	Human Computer Interaction	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100
<b>SEMESTER-VI</b>									
19PY/MC/AB65	Abnormal Psychology II	5	5	1	0	3	50	50	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Sc. DEGREE:PSYCHOLOGY**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
19PY/MC/CP64	Counselling Psychology	4	4	1	0	3	50	50	100
19PY/MC/RP65	Rehabilitation Psychology	5	5	1	0	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	2	2	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19PY/ME/CY45	Consumer Psychology	5	5	0	0	3	50	50	100
19PY/ME/OP45	Organisational Psychology	5	5	0	0	3	50	50	100
19PY/ME/TP45	Theories of Personality	5	5	0	0	3	50	50	100
19PY/ME/FP45	Foundations of Psychotherapy	5	5	0	0	3	50	50	100
19PY/ME/PR45	Project	5	1	0	4	-	50	50	100
<b>General Elective Courses</b>									
19PY/GE/HB22	Fundamentals of Human Behaviour	2	2	0	0	-	50	-	100
19PY/GE/BC22	Basic Skills in Counselling	2	2	0	0	-	50	-	100
19PY/GE/SB22	Introduction to Social Behaviour	2	2	0	0	-	50	-	100
19PY/GE/PP22	Principles of Psychology	2	2	0	0	-	50	-	100
19PY/GE/GS22	Gender and Sexuality	2	2	0	0	-	50	-	100
19PY/GE/AD22	Psychology of Adolescence	2	2	0	0	-	50	-	100
<b>Independent Elective Course</b>									
19PY/UI/PC23	Psychology Classics	3	0	0	0	-	-	100	100
19PY/UI/PE23	Personality Enrichment	3	0	0	0	-	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GENERAL PSYCHOLOGY- I**

**CODE:19PY/MC/GP14**

**CREDITS:4**

**LTP:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce students to the basic concepts in Psychology.
- To familiarize students in the application of these concepts.
- To acquaint students with the scientific nature of Psychology
- To introduce students to the basic psychological processes such as memory, perception and sensation.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Describe the different schools, subfields and possible careers in psychology.
- Understand the differences between and process involved in sensation and perception.
- Explain the biological rhythms and the various levels of consciousness.
- Explicate the theories and practical applications on learning and memory.
- Apply the different techniques to enhance memory.

**Unit 1 (10 Hours)**

**Introduction**

- 1.1 Definition of Psychology
- 1.2 Psychology as a science: Research methods of Psychology
- 1.3 Different schools of Psychology and modern perspectives of Psychology
- 1.4 Scope and branches of Psychology

**Unit 2 (14 Hours)**

**Sensation and Perception**

- 2.1 Sensation: Basic concepts and processes in sensation
- 2.2 Types of senses- visual, auditory, olfactory, vestibular and kinesthetic.
- 2.3 Sensory adaptation, habituation and integration of senses
- 2.4 Perception- basic concepts, learning, set, motivation and emotion; figure ground separation.
- 2.5 Different processes of perception- laws of organization, depth perception, constancy of perception, perception of movement

**Unit 3 (14 Hours)**

**Consciousness**

- 3.1 Fundamental Process, nature of consciousness
- 3.2 Variations in levels of consciousness and brain activity
- 3.3 Sleep and dreams:stages of sleep and sleep disorders
- 3.4 Dreams: theory of dreams
- 3.5 Meditation, Hypnosis, psi phenomena
- 3.6 Psychoactive drugs

**Unit 4 (12 Hours)**

**Learning**

- 4.1Definition of learning
- 4.2Classical conditioning
- 4.3Operant conditioning
- 4.4Cognitive Learning
- 4.5Social Learning

**Unit 5 (15 Hours)**

**Memory**

- 5.1 Meaning and Stages of memory
- 5.2 Atkinson and Shiffrin Model: sensory, short-term, long term memory
- 5.3 Levels of processing theories
- 5.4 Long term memory-organizations and process
  - 5.4.1 Organization of long term memory
  - 5.4.2 Encoding and storing long term memories
  - 5.4.3 Retrieval from long term memory
- 5.5 Forgetting- Motivated forgetting, Interference, amnesia
- 5.6 Techniques of improving memory

**BOOKS FOR STUDY**

- Baron, R.A. (2002). *Psychology (5<sup>th</sup> ed )*.India: Prentice Hall.
- Hilgard ,E.R., Atkinson,R.L.,Atkinson,R.C. (2009)..*Introduction to Psychology (14<sup>th</sup> ed)*. Wordsworth Pub. Co.
- Morgan, C.T., King, R.A., Weisz, J.R., &Schopler, J. (2007). *Introduction to Psychology (7<sup>th</sup> ed)*. Singapore: McGraw- Hill.

**BOOKS FOR REFERENCE**

- Feldman, R.S. (2006).*Understanding Psychology (6th ed)*.New Delhi:Tata McGraw Hill.
- Kalat, J. (2007). *Introduction to Psychology (8th ed)*. Wordsworth Pub.Co.
- Myers, D.G. (2004). *Psychology (5th ed)*. New York: Worth Publishers.

## **WEB RESOURCES**

<https://www.youtube.com/watch?v=D-RS80DVvrg>

[https://www.ted.com/talks/elizabeth\\_loftus\\_the\\_fiction\\_of\\_memory?language=en](https://www.ted.com/talks/elizabeth_loftus_the_fiction_of_memory?language=en)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component:**

**Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BIOLOGICAL PSYCHOLOGY I**

**CODE:19PY/MC/BP14**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the physiological basis of behavior.
- To familiarize students to the applications of the concepts.
- To understand the neurobiological underpinnings of behaviour.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discern the structure and functioning of the nervous system.
- Describe the various parts of the brain and its functions.
- Explain the influence of nature and nurture on behavior.
- Display an understanding of the various research methods within the realm of biological psychology.
- Exhibit an awareness of the career prospects pertaining to biopsychology.

**Unit 1 (13 Hours)**

**Biopsychology as a neuroscience**

- 1.1 Definition of Biopsychology
- 1.2 Biological approach to behaviour
  - 1.2.1 Biological explanations of behaviour
  - 1.2.2 Career Opportunities

**Genetics and Behaviour**

- 1.3 Mendelian Genetics
- 1.4 Heredity and Environment
- 1.5 The Evolution of Behavior

**Unit 2 (13 Hours)**

**Nervous system**

- 2.1 Structure of the Vertebrate Nervous System
  - 2.1.1 The Spinal Cord
  - 2.1.2 The Autonomic Nervous System
  - 2.1.3 The Hindbrain
  - 2.1.4 The Midbrain
  - 2.1.5 The Forebrain
  - 2.1.6 The Ventricles
- 2.2 The Cerebral Cortex
  - 2.2.1 Organization of the Cerebral Cortex
  - 2.2.2 The Occipital Lobe

- 2.2.3 The Parietal Lobe
- 2.2.4 The Temporal Lobe
- 2.2.5 The Frontal Lobe
- 2.2.6 Functioning of the Cerebral Cortex

**Unit 3 (15 Hours)**

**Nerve Cells and Nerve Impulses**

- 3.1 The Cells of the Nervous System
  - 3.1.1 Anatomy of Neurons and Glia
  - 3.1.2 The Blood–Brain Barrier
  - 3.1.3 Nourishment in Vertebrate Neurons
- 3.2 The Nerve Impulse
  - 3.2.1 The Resting Potential of the Neuron
  - 3.2.2 The Action Potential
  - 3.2.3 Propagation of the Action Potential
  - 3.2.4 The Myelin Sheath and Saltatory Conduction
  - 3.2.5 Local Neurons

**Unit 4 (15 Hours)**

**Synapses and Synaptic transmission**

- The Concept of the Synapse
  - The Properties of Synapses
  - Relationship among EPSP, IPSP, and Action Potentials
- Chemical Events at the Synapse
  - The Discovery of Chemical Transmission at Synapses
  - The Sequence of Chemical Events at a Synapse

**Unit 5 (9 Hours)**

**Research methods in biological psychology**

- 5.1 Effects of Brain Stimulation
- 5.2 Recording Brain Activity
- 5.3 Correlating Brain Anatomy with Behavior
- 5.4 Brain Size and Intelligence
- 5.5 The Use of Animals in Research
  - 5.5.1 Reasons for Animal Research
  - 5.5.2 The Ethical Debate

**BOOKS FOR STUDY**

- Carlson, N. R. (2007). *Foundations of Physiological Psychology (6th ed)*. New Delhi: Pearson Education.
- Kalat, J. W. (2012). *Biological Psychology (11th ed)*. USA: Wadworth, Belmont, 2013.

**BOOKS FOR REFERENCE**

- Pinel, J. P. (2007). *Biopsychology (6th ed)*. New Delhi: Pearson Education.
- Rosenzweig, M. R., Breedlove, M. S. & Leiman, A. L. (2002). *Biological psychology (3rd ed)*. Sunderland: Sinauer Associates Inc.

## **WEB RESOURCES**

<https://www.youtube.com/watch?v=eOoPAcvkKQk>

<https://www.youtube.com/watch?v=nvXuq9jRWKE>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

### **Other Component:**

**Total Marks: 50**

Seminars/Assignments/Quiz

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIAL PSYCHOLOGY I**

**CODE:19PY/AC/SP15**

**CREDITS:5**

**LTP :5 0 0**

**TOTAL TEACHING HOURS :65**

**OBJECTIVES OF THE COURSE**

- To introduce students to the basic concepts of Social Psychology.
- To familiarise students with the various applications of Social Psychology.
- To enable students to understand the theories related to social behaviour.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the aspects of social psychology in real life.
- Understand how attitudes can be formed and changed.
- Demonstrate understanding of social pressure and prosocial behaviour.
- Evaluate and critique the theoretical concepts of social psychology.
- Communicate knowledge of the various theoretical underpinnings of interpersonal attraction.

**Unit 1 (13 Hours)**

**Introduction to Social Psychology:**

- 1.1 Meaning and Definition of Social Psychology
- 1.2 Nature of Social Psychology
- 1.3 Scope of Social Psychology
- 1.4 Research methods in social psychology

**Unit 2 (13 Hours)**

**Social Perception**

- 2.1 Definition of Self-concept: self- image, self-esteem, self-presentation
- 2.3 Impression Formation and Impression Management
- 2.4 Attribution- Meaning and definition
- 2.5 Theories of attribution; attribution errors

**Unit 3 (13 Hours)**

**Attitude**

- 3.1 Nature and Formation of Attitudes
- 3.2 Theories of attitude change
- 3.3 Persuasion- meaning and definition
- 3.4 Resistance to Persuasion

**Unit 4** (13 Hours)

**Conformity**

- 4.1 Definition of Conformity
- 4.2 Factors influencing conformity
- 4.3 Classic studies- Sherif, Asch, Milgram's obedience studies
- 4.4 Resisting Social Pressure

**Unit 5** (13 Hours)

**Interpersonal Attraction and Altruism**

- 5.1 The Beginning of Attraction: Proximity, physical attraction, similarity, the need to affiliate.
- 5.2 Theories of interpersonal attraction- Sternberg's love triangle, learning and cognitive theory
- 5.3 Altruism, Prosocial Behaviour: meaning and definition
- 5.4 Internal and external influences on decision to help
  - 5.4.1 Increasing helping Behaviour

**BOOKS FOR STUDY**

Baron, R. A., & Byrne, D. (2014). *Social Psychology (13th ed)*. Prentice-Hall of India.

Myers, D. G. (2012). *Social psychology (11th ed)*. New York, NY: McGraw.

**BOOKS FOR REFERENCE**

Fiske, S. T. (2010). *Handbook of Social Psychology*. New Jersey: John Wiley and Sons.

Gruman, J. A., Schneider, F. W. (2012). *Applied Social Psychology-Understanding Social problems and Practical Problems*. New Delhi: Sage South Asia.

Singh, A. (2015). *Social Psychology*. Eastern Economy Edition, India.

**WEB RESOURCES**

<https://www.youtube.com/watch?v=wdUu3u9Web4>

<https://www.youtube.com/watch?v=NyDDyT1lDhA>

**PATTERN OF ASSESSMENT**

**Continuous Assessment:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component:** **Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19PY/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc.DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GENERAL PSYCHOLOGY II**

**CODE:19PY/MC/GP24**

**CREDITS:4**

**LTP :4 1 0**

**TOTAL TEACHING HOURS :65**

**OBJECTIVES OF THE COURSE**

- To introduce students to the basic concepts of Psychology.
- To familiarize students to the applications of the concepts.
- To acquaint students to the basic psychological processes such as motivation, emotions and personality.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Communicate knowledge of cognitive processes
- Discern the influences of motivation and emotion through the various theories
- Demonstrate an understanding of the theories of personality
- Understand the role of emotions and motivation with respect to human behaviour.
- Evaluate and critique the different theoretical conceptualizations of intelligence.

**Unit 1 (10 Hours)**

**Thinking, Reasoning and Language**

- 1.1 Basic elements of thought-Concepts , propositions and images
- 1.2 Reasoning
- 1.3 Decision Making
- 1. 4 Problem Solving
- 1.5 Language

**Unit 2 (15 Hours)**

**Intelligence and Creativity**

- 2.1 Definition and determinants of Intelligence
- 2.2 Theories of intelligence: Factor theories and cognitive theories; assessment of intelligence
- 2.3 Recent trends in intelligence-multiple intelligence, emotional intelligence, social intelligence, environmental intelligence
- 2.4 Creative Thinking- insight in creative thinking, stages in creative thinking, nature of creative thinking and characteristics of creative thinkers.

**Unit 3 (12 Hours)**

**Motivation**

- 3.1 Definition of Motivation, Motivation and Behavior
- 3.2 Theories of motivation – Instinct, Drive reduction, Arousal, Incentive, Cognitive, Humanistic approaches.



- 3.3 Types - Biological motives, Social motives
- 3.4 Frustration and conflict of motives

**Unit 4 (13 Hours)**  
**Emotion**

- 4.1 Definitions of Emotions: Nature of emotions
- 4.2 Cognitive appraisal and emotion, Subjective experience and emotion, bodily Changes and emotion, facial expression and emotion
- 4.3 Theories of emotion – James Lange Theory, Cannon Bard Theory, Cognitive Theory
- 4.4 Assessment of Emotions- Management of emotions

**Unit 5 (15 Hours)**  
**Personality**

- 5.1 Definition and Concept of Personality
- 5.2 Determinants of Personality
- 5.3 Approaches - Psychoanalytic approach, Behaviouristic approach, Cognitive approach, Humanistic approach
- 5.4 Assessment of Personality – Questionnaire, Rating Scales and Projective Tests

**BOOKS FOR STUDY**

Baron, R.A. (2016). *Psychology (14<sup>th</sup> ed)*. India: Prentice Hall.  
 Hilgard, E.R., Atkinson, R.L., Atkinson, R.C. (2014). *Introduction to Psychology (16<sup>th</sup> ed)*. Wordsworth Pub. Co.  
 Morgan, C.T., King, R.A., Weisz, J.R., & Schopler, J. (2007). *Introduction to Psychology (7<sup>th</sup> ed)*. Singapore: McGraw- Hill.

**BOOKS FOR REFERENCE**

Feldman, R.S. (2006). *Understanding Psychology (6th ed)*. New Delhi: Tata McGraw Hill.  
 Kalat, J. (2007). *Introduction to Psychology (8th ed)*. Wordsworth Pub. Co.  
 Myers, D.G. (2004). *Psychology (5th ed)*. New York: Worth Publishers.

**WEB RESOURCES**

<https://www.youtube.com/watch?v=gwfn6ffh-tk>

**PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component: Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc.DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BIOLOGICAL PSYCHOLOGY II**

**CODE:19PY/MC/BP23**

**CREDITS:3**

**LTP:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To understand the physiological basis of behavior
- To familiarize students to the applications of the concepts in biological psychology.
- To enable understanding of how bodily processes are controlled on a physiological level.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate understanding of how the nervous system develops
- Comprehend the biological basis for homeostasis
- Communicate knowledge of neuroanatomical underpinnings of human emotions.
- Explain the influence of hormones on behaviour.
- Expound the biological rationale in psychological processes like learning and memory.

**Unit 1 (10 Hours)**

**Development of the nervous system**

- 1.1 Phases of neurodevelopment
- 1.2 Postnatal development in Human Infants
- 1.3 Neuro-plasticity in Adults
- 1.4 Disorders of Neurodevelopment – ASD, motor disorders.

**Unit 2 (10 Hours)**

**Homeostasis I: Biological basis of temperature regulation and sex**

- 2.1 Homeostasis and Allostasis
- 2.2 Controlling body temperature- advantages of constant high body temperature, brain mechanisms and fever.
- 2.3 Sex and hormones- organizing effects of sex hormones, activating effects of sex hormones, parental behavior.
- 2.4 Evolutionary interpretations of mating behavior.

**Unit 3 (11 Hours)**

**Homeostasis II: Biological basis of thirst and hunger**

- 3.1 Mechanisms of water regulation
- 3.2 Osmotic thirst, hypovolemic thirst, sodium-specific hunger
- 3.3 Digestion and food selection
- 3.4 Brain mechanisms of hunger
- 3.5 Eating disorders

**Unit 4 (11 Hours)**

**Learning and memory**

- 4.1 Localized representations of memory
- 4.2 Theories of the function of the hippocampus
- 4.3 Basal Ganglia, other brain areas in memory
- 4.4 Types of amnesia

**Unit 5 (10 Hours)**

**Biology of emotions**

- 5.1 Emotions, autonomic arousal
- 5.2 Brain areas associated with emotions
- 5.3 Functions of emotions

**BOOKS FOR STUDY**

Carlson, N. R. (2007). *Foundations of Physiological Psychology (6th ed)*. New Delhi: Pearson Education.

Kalat, J. W. (2012). *Biological Psychology (11th ed)*. USA: Wadworth, Belmont, 2013.

**BOOKS FOR REFERENCE**

Pinel, J. P. (2007). *Biopsychology (6th ed)*. New Delhi: Pearson Education.

Rosenzweig, M. R., Breedlove, M.S & Leiman, A. L. (2002). *Biological psychology (3rd ed)*. Sunderland: Sinauer Associates Inc.

**WEB RESOURCES**

<https://www.youtube.com/watch?v=LfFbjqRp3EQ>

<https://www.youtube.com/watch?v=-aRut2kyksQ>

**PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component: Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIAL PSYCHOLOGY II**

**CODE:19PY/AC/SP25**

**CREDITS 5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To facilitate students to have a deeper understand of the concepts in Social Psychology
- To enable students to understand the application of social psychology in social life
- To promote application of theories in social psychology to interdisciplinary fields.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate understanding of social psychological principles.
- Identify processes in group dynamics.
- Display an understanding of the process that contributes to differential treatment of group members.
- Be familiar with the aspects related to aggression, prejudice and conflict
- Appreciate the concepts relating to social psychology and apply them in everyday life

**Unit 1 (12 Hours)**

**Group Dynamics**

- 1.1 Meaning and Definition Group
- 1.2 Formation of groups, Types of Groups
- 1.3 Social facilitation, social loafing
- 1.4 Deindividuation
- 1.5 Group Polarization
- 1.6 Group think
- 1.7 Leadership

**Unit 2 (13 Hours)**

**Aggression**

- 2.1 Meaning and Definition of aggression
- 2.2 Types of Aggression
- 2.3 Theoretical Perspectives- Biological theories, Drive theories, Social learning theories, frustration-aggression theory
- 2.4 Influence on aggression- Social determinants, Situational determinants
- 2.5 Management of aggression

**Unit 3** **(14 Hours)**  
**Prejudice**

- 3.1 Meaning and definition of prejudice
- 3.2 The Nature of Prejudice
- 3.3 Sources of Prejudice- Social, cognitive, motivational sources
- 3.4 Features of prejudice- discrimination, Stereotypes, Racism, Sexism, Ageism
- 3.5 Consequences of prejudice; methods to reduce prejudice

**Unit 4** **(13 Hours)**  
**Conflict and Peace Making**

- 4.1 Meaning and Definition of conflicts
- 4.2 Conflict: Social dilemmas, competition, perceived injustice, Misperception.
- 4.3 Conflict resolution – concept and strategies
- 4.4 Peacemaking; meaning and definition
- 4.5 Strategies for peace: Contact, co-operation, communication, conciliation.

**Unit 5** **(13 Hours)**  
**Application of Social Psychology:**

- 5.1 Legal System: Effects of police procedures and media coverage; Eyewitness Testimony- Effects of judges and defendants.
- 5.2 Clinical Settings- accuracy of clinical judgements, cognitive processes accompanying behavior problems, social-psychological approaches to treatment, social relationships and wellbeing.
- 5.3 Positive wellbeing- introduction to optimism- pessimism, benefits of optimism, positive coaching exercises
- 5.4 Applying Social Psychology in political behaviour- causes of political behaviour, political attitudes and beliefs; cognitive processes in deciding, role of groups, group identification and intergroup competition in political behaviour.

**BOOKS FOR STUDY**

Myers, D. G. (2012). *Social Psychology* (11th ed.). McGraw-Hill Education.  
Baron, R. A., & Byrne, D. (2014). *Social Psychology* (13th ed.). Prentice-Hall of India.  
Schneider, F. W., & Gruman, J. A. (2012). *Applied Social Psychology-Understanding and Social and Practical Problems*. New Delhi: Sage South Asia.

**BOOKS FOR REFERENCE**

Singh, A. K. (2015). *Social Psychology*. India: Eastern Economy Edition.  
Fiske, S. T., & Gilbert, D. T. (2010). *Handbook of Social Psychology* (Vol. I & II). New Jersey: John Wiley and Sons.

**WEB RESOURCES**

[https://www.youtube.com/watch?v=i0lcj9b1D\\_g](https://www.youtube.com/watch?v=i0lcj9b1D_g)  
<https://www.youtube.com/watch?v=ewE2K8A7Ddw>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

### **Other Component:**

**Total Marks: 50**

Seminars/Assignments/Quiz

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19PY/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DEVELOPMENTAL PSYCHOLOGY I**

**CODE:19PY/MC/DP34**

**CREDITS: 4**

**LTP:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the developmental concepts and processes of development of the human being
- To comprehend the development through the various life stages, challenges in development
- To familiarize students to the concepts, theories and research which define the field of developmental psychology.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Compare the different theories of development
- Comprehend the development that occurs from the prenatal stage to adolescence
- Illustrate the physical, cognitive, and psychosocial aspects of development in these stages
- Connect course content to their personal behaviour.
- Identify the characteristics that signify each developmental stage.

**Unit 1 (13 Hours)**

**Human Development**

- 1.1 Human Development through the Life Span
- 1.2 Psychosexual development (Freud)
- 1.3 Cognitive Development (Piaget)
- 1.4 Moral Development - Kohlberg
- 1.5 Psychosocial Development – Eric Erickson
- 1.6 Social Learning theory – Albert Bandura

**Unit 2 (13 Hours)**

**Prenatal Development, Infancy and Babyhood**

- 2.1 Conception: Fertilization, Heredity and Environment
- 2.2 Prenatal Development, Birth: stages, methods and settings of childbirth.
- 2.3 Characteristics of infancy and babyhood,
- 2.4 Physical and motor development in infancy and babyhood
- 2.5 Cognition and language development in infancy and babyhood
- 2.6 Psychosocial development- emotions, temperament, attachment
- 2.7 Hazards in infancy and babyhood

**Unit 3 (13 Hours)**

**Early Childhood**

- 3.1 Characteristics of early childhood.
- 3.2 Physical and motor development in early childhood.
- 3.3 Cognition and language development in early childhood.
- 3.4 Play development in early childhood
- 3.5 Effect of parenting in early childhood
- 3.6 Hazards in early childhood.

**Unit 4 (13 Hours)**

**Late childhood**

- 4.1 Characteristics of late childhood
- 4.2 Physical and motor development in late childhood
- 4.3 Cognition and language development in late childhood
- 4.4 Family influence in late childhood
- 4.5 Peer group influence in late childhood
- 4.5 Hazards in late childhood

**Unit 5 (13 Hours)**

**Adolescence**

- 5.1 Characteristics of Adolescence, Developmental tasks of adolescence
- 5.2 Physical development- physical changes, physical and mental health
- 5.3 Cognitive development in adolescence
- 5.4 Psychosocial development- identity formation, family relationships, sex roles, relationship with peers, personality changes, children in conflict with the law.

**BOOKS FOR STUDY**

Hurlock, E. B. (2010). *Developmental Psychology: A Life-Span Approach*. Tata McGraw-Hill Education Pvt.

Santrock, J. W. (2007). *Life Span Development (13th ed)*. McGraw Hill Education.

Shaffer, D. R. (2014). *Developmental Psychology (9th Edition)*. Wadsworth, Canada.

**BOOKS FOR REFERENCE**

Papalia, D. E., Olds, S. W., & Feldman, R. D. (2009). *Human development (11th ed)*. New York, NY: McGraw-Hill Companies.

Santrock, J. W. (2007). *Child Development (11th edition)*. Tata McGraw Hill Publishing Company.

**WEB RESOURCES**

<https://www.youtube.com/watch?v=Eqxjc4IUDyY>

<https://www.youtube.com/watch?v=WH9ZJu4wRUE>

**PATTERN OF ASSESSMENT**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3= 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5= 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15= 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component:**

Seminars/Assignments/Quiz

**Total Marks: 50****End-Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A:  $10 \times 3 = 30$  Marks (all 10 questions to be answered in 50 words each)Section B:  $5 \times 8 = 40$  Marks (5 out of 8 questions to be answered in 250 words each)Section C:  $2 \times 15 = 30$  Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO RESEARCH METHODOLOGY**

**CODE:19PY/MC/RM34**

**CREDITS:4**

**L T P :4 1 0**

**TOTAL TEACHING HOURS :65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the research process and techniques in Psychology.
- To equip students with the skills to undertake and complete mini research studies.
- To impart students with ethical values and moral principles of research as outlined by the American Psychological Association.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Possess the ability to understand and critique research articles.
- Understand the importance of abiding by the ethical guidelines of behavioural research.
- Discern an appropriate method of research investigation based on the research question.
- Read, interpret and evaluate social research.
- Apply theory and existing literature to create and test research questions and hypotheses.

**Unit 1 (13 Hours)**

**Introduction to Research Methods in Psychology**

- 1.1 Definition and Meaning of Research
- 1.2 Characteristics of Research
- 1.3 Objectives of Research
- 1.4 Types of Research
- 1.5 Significance of Research
- 1.6 Criteria of Good Research

**Unit 2 (15 Hours)**

**Research Process**

- 2.1 Formulation of research problem
- 2.2 Concepts, Variables
- 2.3 Hypothesis- types, procedure for hypothesis testing, types of errors, one tailed and two tailed tests.
- 2.4 Review of Literature
- 2.5 Research Designs- exploratory, descriptive, and experimental
- 2.6 Sampling- definition, significance of sampling, types of sampling designs- non probability and probability sampling.

**Unit 3 (12 Hours)**

**Methods and Tools of Data Collection and Analysis of Data**

- 3.1 Sources of data – Primary and Secondary sources
- 3.2 Observation as a method of data collection
- 3.3 Interview as a method of data collection
- 3.4 Questionnaires and survey as a method of data collection
- 3.5 Case study as a method of data collection
- 3.6 Processing and Interpretation of data

**Unit 4 (15 Hours)**

**Measurement and Scaling Techniques**

- 4.1 Measurement in Research
- 4.2 Levels of Measurement
- 4.3 Scaling Techniques- Guttman, Likert, Thurstone, and semantic differential scales.
- 4.4 Reliability- test-retest, split half, parallel forms, inter rater
- 4.5 Validity- content, construct, criterion
- 4.6 Sources of error in measurement

**Unit 5 (10 Hours)**

**Report Writing and Ethics**

- 5.1 Significance of Report writing
- 5.2 Types of Report writing
- 5.3 American Psychological Association (APA) style of report writing – An Overview
- 5.4 Writing of a Research Proposal
- 5.5 Ethical considerations in conducting behavioural research

**BOOKS FOR STUDY**

- Kothari, C. R. (1985). *Research methodology: Methods and Techniques*. New Delhi: Wiley Eastern.
- Kerlinger, F. N. (2004). *Foundations of Behavioral Research*.

**BOOKS FOR REFERENCE**

- Haslam, S. A., & MacGarty, C. (2003). *Research Methods and Statistics in Psychology*. New Delhi: Sage Publications.
- Tripathi, P. C. (2005). *A Text Book of Research Methodology in Social Science*. New Delhi: Sultan Chand & Sons.

**WEB RESOURCES**

- <https://www.youtube.com/watch?v=8xWdCuO6vqE>
- [https://www.ted.com/talks/ilona\\_stengel\\_the\\_role\\_of\\_human\\_emotions\\_in\\_science\\_and\\_research?language=en](https://www.ted.com/talks/ilona_stengel_the_role_of_human_emotions_in_science_and_research?language=en)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

### **Other Component:**

**Total Marks: 50**

Seminars/Assignments/Quiz

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**STATISTICS IN PSYCHOLOGY**

**CODE:19PY/AC/ST35**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarize students to various descriptive statistical methods used in Psychology
- To train students in the use of statistical tools for data analysis
- To enable students to understand the assumptions underlying different statistical techniques.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Clarify the need and importance of statistics in psychology
- Comprehend basic elements of statistical testing
- Distinguish and describe parametric and non-parametric tests
- Compute and interpret basic statistics.
- Use appropriate statistical techniques for research purposes.

**Unit 1 (13 Hours)**

**Introduction to Statistics**

- 1.1 Meaning, need and importance of statistics in psychology
- 1.2 Functions and limitations of statistics
- 1.3 Organization of data
  - 1.3.1 Coding, Tabulation and Classification of Data
  - 1.3.2 Frequency Distributions- Discrete and continuous, Cumulative frequencies, Percentage frequencies
  - 1.3.3 Graphical Representations- Bar Graph, Histogram, Pie Graph, Frequency Polygon
- 1.4 Introduction to descriptive and inferential statistical methods

**Unit 2 (16 Hours)**

**Measures of Central Tendency & Variability**

- 2.1 Arithmetic & Weighted Mean, Median, Mode
- 2.2 Merits and demerits of the measures of central tendencies.
- 2.3 Range, Quartile Deviation, Average Deviation, Standard Deviation, Coefficient of variation.

**Unit 3 (10 Hours)**

**Normal Distribution**

- 3.1 Sampling distribution and standard error of means, z test
- 3.2 Characteristics of normal distribution
- 3.3 Applications of Normal Distribution
- 3.4 Measures of Divergence from normality- Kurtosis, Skewness

**Unit 4** (13 Hours)

**Parametric tests**

- 4.1 Characteristics of parametric tests
- 4.2 Correlation- types of correlation, estimating correlation coefficient (Pearson's product moment)
- 4.3 t test- single sample t test, independent sample t test, paired samples t test.
- 4.4 Theoretical foundations- F test\*, ANOVA\*

**Unit 5** (13 Hours)

**Non-parametric tests**

- 5.1 Characteristics and assumptions of non-parametric distributions
- 5.2 Estimating Spearman's rank order correlation coefficient, chi square test
- 5.3 Theoretical foundations- Mann Whitney U test\*, Sign test\*

\* These tests are for theoretical understanding only; not for computation.

**BOOKS FOR STUDY**

Gupta, S. P. (2002). *Statistical Methods*. New Delhi: Sultan Chand and Sons.  
Mangal, S. K. (2002). *Statistics in Psychology and Education* (2nd ed.). New Delhi: Prentice-Hall of India.  
Garrett, H. E. (1968). *Statistics in Psychology and Education*.

**BOOKS FOR REFERENCE**

Aron, A., Aron, E. N., & Coups, E. J. (2006). *Statistics for Psychology* (4th ed.). New Delhi: Pearson Education Inc.  
Gravetter, F. J., & Wallnau, L. B. (1995). *Essentials of Statistics for the Behavioral Sciences* (2nd ed.). New York: West Publishing Company.  
Levin, J., & Fox, J. A. (2006). *Elementary Statistics in Social Research* (10th ed.). New Delhi: Pearson Education.

**WEB RESOURCE**

<https://www.youtube.com/watch?v=iYiOVISWXS4>

**PATTERN OF ASSESSMENT**

**Continuous Assessment:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component:** **Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19PY/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1**

**(13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DEVELOPMENTAL PSYCHOLOGY II**

**CODE:19PY/MC/DP44**

**CREDITS:4**

**LTP:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the developmental concepts and processes of development of the human being
- To comprehend the development through the various life stages, challenges in development
- To familiarize students to the concepts, theories and research which define the field of developmental psychology.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Conceptualize human functioning and behaviour from a developmental perspective.
- Understand the development of humans across the life span.
- Identify psychological and social factors that influence development of personality, emotions and other aspects of human development.
- Communicate knowledge of the key issues specific to different developmental stages of humans.
- Identify the characteristics that signify each developmental stage.

**Unit 1 (13 Hours)**

**Early Adulthood**

- 1.1 Characteristics of adulthood developmental task
- 1.2 Physical development
- 1.3 Health in adulthood, changes in interest in adulthood, social mobility, sex role adjustment
- 1.4 Personal and social hazards of adulthood, intellectual development
- 1.5 Vocational adjustment, marital adjustment, adjustment to parenthood.

**Unit 2 (13 Hours)**

**Middle Adulthood**

- 2.1 Characteristics of middle age, developmental tasks
- 2.2 Physical changes, Sensory and Psychomotor functioning
- 2.3 Health in middle age
- 2.4 Cognitive development during middle adulthood

**Unit 3 (13 Hours)**

**Middle Adulthood-Psychosocial Aspects**

- 3.1 Personal and social hazards
- 3.2 Changes in interests, work in the middle age
- 3.3 Adjustment to changed family patterns, marital hazards of middle age
- 3.4 Relationship with maturing children and aging parents.

**Unit 4 (13 Hours)**

**Late Adulthood**

- 4.1 Characteristics of old age, developmental tasks
- 4.2 Physical development, sensory and psychomotor functioning, intellectual changes
- 4.3 Health in old age, social adjustment in old age
- 4.4 Physical hazards, psychological hazards, successful aging

**Unit 5 (13 Hours)**

**Late Adulthood-Psychosocial Aspects**

- 5.1 Lifestyle and social issues related to aging
- 5.2 Relationship with siblings, friends, adult children; family management of elder care
- 5.3 Adjustment to retirement, adjustment to single-hood, vocational and family hazards of old age, living arrangements for the elderly;
- 5.4 Death: facing death; three aspects of death, coping with loss

**BOOKS FOR STUDY**

Hurlock, E. B. (2010). *Developmental Psychology: A Life-Span Approach*. Tata McGraw-Hill Education Pvt.

Papalia, D. E., Olds, S. W., & Feldman, R. D. (2009). *Human development (11th ed)*. New York, NY: McGraw-Hill Companies.

**BOOKS FOR REFERENCE**

Santrock, J. W. (2007). *Life Span Development (13th ed)*. McGraw Hill Education.

Shaffer, D. R. (2014). *Developmental Psychology (9th Edition)*. Wadsworth, Canada.

**WEB RESOURCES**

<https://www.youtube.com/watch?v=Eqxjc4IUDyY>

<https://www.youtube.com/watch?v=WH9ZJu4wRUE>

**PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section A – 5 x 3= 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5= 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15= 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component: Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**EXPERIMENTAL PSYCHOLOGY - PRACTICAL**

**CODE:19PY/MC/EP45**

**CREDITS:5**

**L T P:3 0 4**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students understand the use of experiments in Psychology
- To acclimatize them to interpret and draw conclusions based on the norms given in the manual
- To facilitate students to write reports of experiments while adhering to APA conventions.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Interact respectfully with people of diverse backgrounds
- Use the knowledge and skills acquired to use relevant and appropriate experiments based on the need
- Demonstrate competencies in conducting experiments and reporting the same
- Explain the experimental procedures in scientific testing.
- Behave ethically and responsibly towards participants of research.

Ten Experiments to be conducted.

1. Distraction of Attention
2. Determination of two point threshold
3. Division of Attention
4. Span of Attention
5. Visual Acuity
6. Mapping of Blind Spot
7. Colour Blindness
8. Muller Lyer Illusion
9. Set in perception
10. Perception of Space in Depth
11. Perception of Size Constancy
12. Transfer of Learning - Habit Interference
13. Maze Learning
14. Knowledge of Results
15. Study of Learning by Insight
16. Proactive and Reactive Inhibition
17. Study of Bilateral Transfer
18. Concept Formation
19. Problem Solving

20. T Puzzle
21. Heart and Bow
22. Motor Learning
23. Manual Dexterity
24. Finger Dexterity
25. Steadiness Test
26. Minnesota Rate of Manipulation Test
27. Effect of meaning on memory
28. Triads test
29. Word Association Test
30. Muscular fatigue

#### **PATTERN OF ASSESSMENT**

##### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

50 (Viva Voce, Record, Test)

##### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

(Viva Voce, Record, Conduction, Plan and Procedure, Results and Tabulation, Discussion, Conclusion)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HEALTH PSYCHOLOGY**

**CODE:19PY/AC/HP45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS :65**

**OBJECTIVES OF THE COURSE**

- To familiarize students to health and wellness
- To understand the impact of psychological factors on health and disease.
- To enable students to understand specific health issues that warrant an in-depth look

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate an understanding on the importance of health psychology
- Compare and contrast the various models on the modification of health habits
- Elucidate on the impact of stress and the ways to cope with it
- Describe the value of health psychology and possible career prospects within the field.
- Evaluate the strengths and weaknesses of various psychotherapeutic approaches employed in health promotion and wellness.

**Unit 1 (13 Hours)**

**Introduction to Health Psychology- Health Behaviour**

- 1.1 Health psychology- Definition and Need
- 1.2 The biopsychosocial model, patient practitioner relationship
- 1.3 Training for a career in health psychology
- 1.4 Introduction to health behaviour
- 1.5 Factors influencing the practice of health behavior

**Unit 2 (13 Hours)**

**Modification of Health Behaviour**

- 2.1 Changing health habits using theoretical models- Health belief model, Theory of planned behaviour
- 2.2 Cognitive behavioural approaches to change health behaviour
- 2.3 Transtheoretical model of behaviour change
- 2.4 Avenues for health habit modification

**Unit 3 (16 Hours)**

**Chronic Illness and Pain**

- 3.1 Illness Factors- Onset, Progression, Types of Symptoms
- 3.2 Quality of Life
- 3.3 Personal issues in chronic illness
  - 3.3.1. Coping with chronic illness
  - 3.3.2 Comanagement of chronic illness
  - 3.3.3 Psychosocial Interventions



- 3.4 Pain- definition, types of pain
  - 3.4.1 Pain control techniques
  - 3.4.2 Pain management

**Unit 4 (13 Hours)**

**Stress**

- 4.1 Stress- definition, dimensions of stress, sources of chronic stress.
- 4.2 Theoretical contributions- Lazarus's Appraisal Model, Flight or fight response, General adaptation Syndrome, Tending and Befriending Model.
- 4.3 Physiology of Stress- HPA Activation, SAM Activation, Individual differences in stress reactivity.
- 4.4 Psychoneuroimmunology

**Unit 5 (10 Hours)**

**Coping**

- 5.1 Coping with Stress
- 5.2 Coping and external resources
- 5.3 Social Support
- 5.4 Coping Interventions

**BOOKS FOR STUDY**

Boyer, B & Paharia, I. (2008). *Comprehensive Handbook of Clinical Health Psychology*. New Jersey: John Wiley & Sons.  
 Sarafino, E. (1994). *Health Psychology*. New Jersey: John Wiley and Sons.  
 Taylor, S. (1995). *Health psychology (6<sup>th</sup> ed)*. Toronto: McGraw-Hill Ryerson.

**BOOKS FOR REFERENCE**

Marks, D., Murray, M., Evans, B., Willig, C., Woodall, C & Sykes, C.M. (2008). *Health Psychology: Theory, Research and Practice (2<sup>nd</sup> ed)*. New Delhi: Sage Publications.

**WEB RESOURCES**

<https://youtu.be/BlfK0L8xDP0>  
[https://www.ted.com/talks/elliott\\_krane\\_the\\_mystery\\_of\\_chronic\\_pain?language=en](https://www.ted.com/talks/elliott_krane_the_mystery_of_chronic_pain?language=en)

**PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section A – 5 x 3= 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5= 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15= 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component: Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ABNORMAL PSYCHOLOGY I**

**CODE:19PY/MC/AB55**

**CREDITS:5**

**LTP:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To enable students to differentiate between abnormal and normal behaviour.
- To impart knowledge about the theoretical approaches in understanding abnormality.
- To help ascertain the diagnosis based on the clinical manifestation of the illness using an appropriate classification system.
- To enable students to discern the causal factors of presenting illnesses and formulate a case conceptualization.
- To learn the appropriate evidence based approaches in treatment and management of mental illnesses.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Define the basis of abnormal psychology and the differences between normal and abnormal behaviour.
- Differentiate between major theoretical orientations in abnormal psychology.
- Identify the standards for the diagnosis and classification of major psychopathological conditions.
- Possess knowledge of multiple influences of abnormal behaviour as viewed from different theoretical perspectives.
- Construct diagnostic formulations and thereby develop and implement psychotherapeutic interventions.

**Unit 1**

**(15 Hours)**

**Introduction to Abnormal Psychology**

- 1.1 Psychological Abnormality -Definition of abnormal behaviour
- 1.2 Historical views of abnormal behaviour and its treatment, Current Perspectives of abnormality
- 1.3 Incidence of mental disorders. Classification of mental disorders – International Classification of Diseases – 10 (ICD-10) and Diagnostic and Statistical Manual of Mental Disorders (DSM) – An Overview
- 1.4 Humanitarian approach, Contemporary views of abnormal behaviour

- Unit 2** (16 Hours)  
**Childhood and adolescence Disorders**  
2.1 Defiant and conduct disorder  
2.2 Attention- Deficit/Hyperactivity disorders  
2.3 Autism spectrum disorders  
2.4 Childhood onset mental illness  
2.5 Learning disabilities  
2.6 Treatment
- Unit 3** (16 Hours)  
**Anxiety and obsessive-compulsive related disorders**  
3.1 Anxiety disorders – Generalized Anxiety Disorder, Panic Disorders  
3.2 Phobias - Specific Phobias, Social Phobia  
3.3 Biological, Psychosocial and Socio Cultural causal factors of anxiety disorders  
3.4 Treatment of anxiety disorders  
3.5 Obsessive compulsive disorder- causes, diagnostic criteria, and treatment outcomes.  
3.6 Overview of intermittent explosive disorder, pyromania, kleptomania, gambling, excoriation disorder, trichotillomania
- Unit 4** (16 Hours)  
**Somatoform and Dissociative Disorders**  
4.1 Somatoform Disorder- Conversion Disorder, Somatization Disorder, Pain Disorder, Hypochondriasis and Body Dysmorphic Disorder  
4.2 Dissociative Disorders- Dissociative Amnesia and Fugue, Depersonalization Disorder, Dissociative Identity Disorder  
**Stressor and Trauma Related Disorders**  
4.3 Acute Stress Disorder and Post Traumatic Stress Disorder  
4.4 Overview of Adjustment Disorders  
4.5 Biological, Psychosocial and Socio cultural causal factors of Somatoform, Dissociative, Stress and Trauma Related Disorders  
4.6 Treatment and Management
- Unit 5** (15 Hours)  
**Sexual Disorders and Gender Identity Disorder**  
5.1 Sexual dysfunctions  
5.2 Causes and treatment of sexual dysfunctions  
5.3 Paraphilias – causes and treatment  
5.4 Sexual variants, Sexual and gender variants  
5.5 Gender Identity Disorder  
5.6 Treatment and Management

## BOOKS FOR STUDY

Comer, R. J. (2009). *Fundamentals of Abnormal Psychology*. New York: Worth Publishers.  
Durand, V. M., & Barlow, D. H. (2000). *Abnormal Psychology: An Introduction*. Thomson Brooks/Cole.  
Durand, V. M., & Barlow, D. H. (2009). *Abnormal Psychology- An Integrative Approach (6th ed)*. Wadsworth: Cengage Learning.  
Sarason, I. G., & Sarason, B. R. (2005). *Abnormal Psychology*. New Delhi : Prentice Hall.

## BOOKS FOR REFERENCE

Carson, R.C., Butcher, J. N., Mineka, S., & Hooley, J. M. (2007). *Abnormal Psychology (13th ed)*. Delhi, India: Pearson Education.

## WEB RESOURCES

[https://www.youtube.com/watch?v=HJe0\\_pPA0x8](https://www.youtube.com/watch?v=HJe0_pPA0x8)  
[https://www.youtube.com/watch?v=MOQcOQ4Mk\\_I](https://www.youtube.com/watch?v=MOQcOQ4Mk_I)

## PATTERN OF ASSESSMENT

**Continuous Assessment:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 3= 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5= 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15= 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component:** **Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019- 2020)

**APPLIED PSYCHOLOGY**

**CODE:19PY/MC/AP54**

**CREDITS:4**

**LTP :4 1 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To introduce students to an understanding about the interface between Society and Psychology
- To familiarise students with the various Applications of Psychology
- To impart knowledge of theoretical foundations employed in a variety of applied settings in the field of psychology.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate an understanding of the application of psychological principles in various real world settings.
- Communicate knowledge about social issues at the local, national and global levels and its impact on the society.
- Develop creative and practical solutions to challenges faced by the larger community.
- Evaluate and choose career prospects within the field of psychology.
- Demonstrate knowledge of how theoretical foundations of psychology translate into practical applications.

**Unit 1 (13 Hours)**

**Introduction to Applied Psychology**

- 1.1 Definition of Applied Psychology
- 1.2 Importance of Applied Psychology
- 1.3 Geriatric Psychology
  - 1.3.1 Meaning and Definition of Geriatric Psychology
  - 1.3.2 Nature and scope of Geropsychology
  - 1.3.3 Cognitive, Social and health factors that impact aging
  - 1.3.4 Role of Geriatric Psychologist

**Unit 2 (13 Hours)**

**Sports Psychology**

- 2.1 Meaning and definition of Sports Psychology
- 2.2 Nature and Scope of Sports Psychology
- 2.3 Personality, attitude, motivation, aggression and social factors in sports
- 2.4 Role of Sports Psychologist

- Unit 3** **(13 Hours)**  
**Forensic Psychology**  
 3.1 Meaning and Definition of Forensic Psychology  
 3.2 Nature and Scope of Forensic Psychology  
 3.3 Areas of Forensic Psychology  
 3.4 Role of Forensic Psychologist
- Unit 4** **(13 Hours)**  
**Positive Psychology**  
 4.1 Definition and nature of positive psychology  
 4.2 Happiness and Psychological well-being  
 4.3 Coping and Resilience  
 4.4 Cultivating positive emotions  
 4.5 Role of positive psychology in mental health
- Unit 5** **(13 Hours)**  
**Education Psychology**  
 5.1 Meaning and Definition of education psychology  
 5.2 Classroom management and learning environment  
 5.3 Student Diversity- individual styles of learning and thinking, , multiple intelligences, gifted and talented students, gender differences, accommodating cultural diversity in practice  
 5.4 Role of education psychologist

### **BOOKS FOR STUDY**

Bartol, R.C. (2012). *Forensic Psychology*. New Delhi: Sage Publications.

Gregory, W.L. & Burroughs, W.J. (1989). *Introduction to Applied Psychology*. Scott, Foresman and Company.

Jain, R. (2005). *Sports Psychology*. New Delhi: D.K Publishers.

Schaie, W. & Willis, S. L. (2011). *Hand Book Of the Psychology of Aging*. New York :Elsevier Publication.

Sharma, R. (2004). *Advanced Applied Psychology*. Atlantic. New Delhi.

Snyder, C. R., Lopez, S. J. (2011). *Positive Psychology*. Sage South Asia Edition.

Seifert, K., & Slutton, R. (2011). *Education Psychology* [Adobe Digital] (3rd ed.).

### **BOOKS FOR REFERENCE**

Davey, G. (2011). *Applied Psychology (1st ed)*. Britain: BSP Blackwell and British Council Library.

Jarvis, M. (2006). *Sport Psychology: A Student's Handbook*. London, England: Routledge.

Style, C. (2011). *Brilliant Positive Psychology*. Pearson India.

## WEB RESOURCES

[https://www.ted.com/talks/jim\\_fallon\\_exploring\\_the\\_mind\\_of\\_a\\_killer?language=en](https://www.ted.com/talks/jim_fallon_exploring_the_mind_of_a_killer?language=en)

[https://www.ted.com/talks/scott\\_fraser\\_the\\_problem\\_with\\_eyewitness\\_testimony?language=en](https://www.ted.com/talks/scott_fraser_the_problem_with_eyewitness_testimony?language=en)

[https://www.youtube.com/watch?v=yG7v4y\\_xwzQ](https://www.youtube.com/watch?v=yG7v4y_xwzQ)

## PATTERN OF ASSESSMENT

### Continuous Assessment:

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

### Other Component:

**Total Marks: 50**

Seminars/Assignments/Quiz

### End-Semester Examination:

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PSYCHOLOGICAL ASSESSMENT - PRACTICAL**

**CODE:19PY/MC/PA55**

**CREDITS:5**

**L T P:3 0 4**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To familiarize students on the different types of testing used in the clinical setting; and the appropriate use of a test.
- To enable students to develop the skills required for Psychological testing.
- To impart knowledge about the ethical considerations of psychological testing and administration.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the significance of psychometric properties of an assessment; and evaluate the effectiveness of the test based on the same.
- Discern the test that will be most applicable for a given target group based on norms, psychometric properties and contradictors for the test.
- Administer psychological assessments to relevant population groups.
- Interpret results of a psychological assessment and report results of the test.
- Behave ethically and responsibly towards participants of research.

**Ten tests to be conducted.**

1. Multiple Intelligence Scale
2. Raven's Standard Progressive Matrices
3. Bhatia's Battery of performance test
4. Wechsler Adult Intelligence Test (WAIS)
5. Wechsler Intelligence Scale for Children (WISC)
6. Binet Kamath Test of Intelligence
7. Achievement Motivation Scale
8. Wallach-Kogan Creativity Test
9. Eysenck Personality Inventory
10. Test of Self -concept scale
11. Test of values
12. Locus of Control
13. Adjustment Scale
14. Self-esteem Scale
15. Trait and State Anxiety Scale



16. Trait and State Anger Expression Inventory
17. Becks Depression Scale
18. Sentence completion test
19. Chatterjee's non language preference record
20. NEO-FFI
21. Career Maturity Scale
22. Vocational Preference Inventory
23. MMPI
24. Vineland Social Maturity Scale
25. Marriage Attitude Scale
26. Alcohol and Drugs Attitude Scale
27. Differential Aptitude Test
28. Family Environment Scale
29. Suicidal Ideation scale
30. Hamilton's Anxiety Scale

### **PATTERN OF ASSESSMENT**

**Continuous Assessment:**                      **Total Marks: 50**                      **Duration: 90 minutes**  
50 (Record, Assignment, Test)

**End-Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 hours**  
(Viva-, Record-, Conduction-, Plan and Procedure-, Results and Tabulation-, Discussion-, Conclusion)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Interdisciplinary Core Course Offered by the Departments of Psychology and English(English and Communication Skills) to B.Sc. Psychology and B.A. English(English and Communication Skills) Degree Programmes**

**SYLLABUS**

**(Effective from the academic year 2019-2020)**

**LITERATURE AND PSYCHOLOGY**

**CODE: 19ID/IC/LP55**

**CREDITS: 5**

**LTP: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To introduce students to the interdisciplinary aspects between Literature and Psychology
- To help students understand the fundamentals of human behaviour
- To encourage students to employ psychological concepts in their understanding of literary texts

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate an ability to interpret literary texts from literary and psychological perspectives
- explain psychological theories and their application in the attitude of individuals and group behaviour
- integrate basic concepts of psychology to explain human behavior in everyday life
- critique literary works using key concepts in psychology
- appreciate and identify various attribute of interdisciplinarity of texts

**Unit 1 Introduction to Core Concepts**

**(14 Hours)**

- 1.1 Personality- nature, brief overview of determinants of personality
- 1.2 Overview of social behaviour and positive psychology
- 1.3 Overview of developmental psychology and abnormal psychology
- 1.4 Introduction to major theorists – Freud, Jung, Lacan, Kristeva

**Unit 2 Developmental Psychology**

**(20 Hours)**

- 2.1 Stephen Chbosky *The Perks of Being a Wallflower*
- 2.2 Psychosocial issues in adolescence
- 2.3 Identity development in adolescence
- 2.4 Trauma, abuse and sexual identity

**Unit 3 Abnormal Psychology**

**(16 Hours)**

- 3.1 Henry James *The Turn of the Screw*
- 3.2 Psychosis- losing touch with reality, visual hallucinations
- 3.3 Edgar Allan Poe *The Tell-Tale Heart*
- 3.4 Psychosis- delusions and paranoia
- 3.5 Psychopathy- presentation and traits

<b>Unit 4 Social Psychology</b>		<b>(12 Hours)</b>
4.1 Anne Sexton	<i>“Pain for Daughter”</i>	
4.2 Grief, stages of grieving		
4.3 Meena Kandasamy	<i>“ONE-eyed”</i>	
4.4 Prejudice, discrimination and casteism		

<b>Unit 5 Positive Psychology</b>		<b>(16 Hours)</b>
5.1 Gabriele Muccino	<i>The Pursuit of Happyness</i>	
5.2 Resilience, optimism and hope		
5.3 Coping and gratitude.		

## BOOKS FOR REFERENCE

Baron. *Psychology*. Pearson Education India, 2001

Gottschall, Jonathan and David Sloan Wilson, editors. *The Literary Animal: Evolution and the Nature of Narrative*. Northwestern University Press, 2005.

Haycock, Dean. *Characters on the Couch: Exploring Psychology through Literature and Film*. Greenwood, 2016.

Knapp, John V. “New Psychologies and Modern Assessments: Rethinking Classics in Literature, including Film and Music.”

Lindauer, Martin S. *Psyche and the Literary Muses: The Contribution of Literary Content to Scientific Psychology*.

Santos, Rosemary Conceição et al. “Psychology of Literature and Literature in Psychology.”

Snyder, C. R., Lopez, S. J., & Pedrotti, J. T. *Positive Psychology: The Scientific and Practical Explorations of Human Strengths*. SAGE Publications, 2011

Winterowd, W. R., & Preston, C. *Themes and Variations: A College Reader*. Harcourt, 1985

## PATTERN OF EVALUATION

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – Two out of four in 250 words		2 x 10 = 20
Section B – Passage analysis 350 words		2 x 15 = 30

<b>Other Components:</b>	<b>Total Marks: 50</b>
Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Passage Analysis	
Quiz/Panel Discussion/Group Presentation	

**Term paper:** **Total Marks: 100**  
 students will choose a theory and will be tested on its application to a corresponding texts  
 (Word limit: 1500-2000 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Departments of Computer Science and Psychology to B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**HUMAN COMPUTER INTERACTION**

**CODE:19ID/IC/HC55**

**CREDITS:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To learn the foundations of Human Computer Interaction concepts
- To be familiar with the design technologies for individuals and persons with disabilities
- To learn the guidelines for user interface
- To understand constraints, get an insight into the design space, and on deep knowledge of the materials of the design, that is, the user, the task, and the machine
- To discuss the psychological and physiological attributes of the user, providing the students with a basic overview of the capabilities and limitations that affect the ability to use computer systems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- To design an effective HCI for any interface
- To design an effective HCI for individuals and persons with disabilities
- To assess the importance of user feedback
- To explain the HCI implications for designing Multimedia/ VR
- To develop meaningful user interface

**Unit 1**

**(15 Hours)**

**1.1 Introduction to Interaction Design**

Introduction-Good and poor design-What is Interaction Design? -What is involved in the process of Interaction Design? -The goals of interaction design-More on usability: Design and usability principles.

**1.2 The Human**

Understanding the human mind- computation: connectionism and symbol systems. Levels of information processing. Memory- Atkinson and Shrifin model; structure of the working memory.

**1.3 The Computer**

Devices – Memory – Processing and Networks.

**1.4 Interaction**

Models – Frameworks – Ergonomics: Bias - Arrangement of controls and displays, physical environment of interaction, health issues, use of colours, and ergonomics and HCI. – Styles – Elements – Interactivity- Paradigms-Experience, engagement and fun-understanding and designing experience and physical design & engagement.

<b>Unit 2</b>	<b>(12 Hours)</b>
<b>2.1 Understanding Users</b> Cognition- Attention: visual and auditory attention. Parallel processing. Perception-perceptual grouping- figure and ground, similarity, proximity, continuity, symmetry, closure.	
<b>2.2 Designing for collaboration and communication</b> Introduction- Social mechanisms used in communication and Collaboration- Ethnographic studies of collaboration and Communication-Conceptual frameworks	
<b>2.3 Understanding how interfaces affect users</b> Introduction- What are affective aspects? - Expressive Interfaces-User Frustration Virtual characters: agents	
<b>Unit 3</b>	<b>(15 Hours)</b>
<b>3.1. Types of Users</b> Visualizers and verbalizers. High and low OSL. Variety and Novelty Seekers. Need for cognition. Designing for special populations- children, the elderly and the disabled.	
<b>3.2 Observing users</b> Introduction-Goals, questions and Paradigms-What and when to observe -How to observe- Participant observation and Ethnography-Data collection- Indirect observation tracking users' activities- Analyzing, interpreting and presenting data.	
<b>3.3. Asking users and experts</b> Introduction -Asking users: Interviews- Asking users: Questionnaires- Asking users: Inspections- Asking users: Walkthroughs	
<b>Unit 4</b>	<b>(18 Hours)</b>
<b>4.1. Interactive Design Basics</b> Process – Scenarios – Navigation – Screen Design – Iteration and Prototyping.	
<b>4.2. HCI in Software Process</b> Software Life Cycle – Usability Engineering – Prototyping in Practice – Design Rationale.	
<b>4.3. Design Rules</b> – Principles, Standards, Guidelines, Rules -Universal Design-User-centred approaches to interaction design	
<b>Unit 5</b>	<b>(18 Hours)</b>
<b>5.1 Modelling Interaction</b> Descriptive models. Predictive model- A model continuum model	
<b>5.2 Groupware</b> Introduction-Groupware Systems-Computer-mediated Communication-Meeting and decision support systems-Shared applications and artifacts-Frameworks for groupware- Implementing synchronous groupware	
<b>5.3 Ubiquitous computing and augmented realities</b> Introduction-Ubiquitous computing applications research-Virtual and augmented reality-Information and data visualization	
<b>5.4. Hypertext, multimedia and the World Wide Web</b> Introduction-Understanding hypertext- Finding Things-Web technology and issues - Static web content-Dynamic web content	

## **BOOKS FOR STUDY**

Dix Alan, Finlay Janet, Abowd Gregory, Beale Russell. Human Computer Interaction, 3rd Edition, Pearson Education, 2004 (Unit 1(Chap1,2,3), Unit 4(Chap 5,6,7,10), Unit 5(Chap 19,20,21))

MacKenzie, I. Scott. *Human-computer interaction: An empirical research perspective*. Newnes, 2013. Elsevier. (Unit 5(Chap 7).

Preece Jenny. Rogers Yvonne. Interaction design beyond human-computer interaction, John Wiley & Sons, 2<sup>nd</sup> Edition 2002 (Unit 1(Chap1), Unit 2(Chap 3,4,5), Unit 3(Chap12,13), Unit 4(Chap 9))

## **BOOKS FOR REFERENCE**

Cooper Alan. Riemann Robert. Cronin David. Essentials of Interaction Design, Wiley India

Hourcade, J. P. (2008). *Interaction Design and Children*. Now Publishers.

Lauesen Soren. User Interface Design. Pearson Education Asia, 4<sup>th</sup> Edition.

O. Galitz, Wilbert. The Essential Guide to User Interface Design. Wiley India, 3<sup>rd</sup> Edition

Pullin, G. (2009). *Design Meets Disability*. Cambridge, MA: MIT Press.

Rogers Preece. Sharps Interaction Design. Wiley India, 3<sup>rd</sup> Edition.

Schiffman, Leon G, Wisenblitt, Joseph, Kuman S Ramesh. *Consumer behaviour*. Chennai. Pearson Education, Inc. 2015.

Sears, A., & Jacko, Julie. A (2008) *The Human- Computer Interaction Handbook*, New York. Taylor and Francis Group.

Sears, A., & Jacko, Julie. A (2009) *The Human- Computer Interaction- Interaction Designs and Usability*, Boca Raton, FL: CRC Press.

Shneidermann Ben. Designing the user interfaces. Pearson Education Asia, 3<sup>rd</sup> Edition.

## **WEB RESOURCES**

<http://www.hcibook.com/e3/online/>

[http://teaching.paulos.net/cs160\\_FL2018/syllabus.html](http://teaching.paulos.net/cs160_FL2018/syllabus.html)

<http://www.it.bton.ac.uk/staff/rng/teaching/CS221/CS221syllabus.html>

<https://course.ccs.neu.edu/is4300f15/schedule.htm>

<https://graphics.tu-bs.de/teaching/ss17/AHCI>

## **CASE STUDY**

<http://reports-archive.adm.cs.cmu.edu/anon/2000/CMU-CS-00-132.pdf>

<https://medium.com/mlreview/case-study-sign-to-speech-converter-facilitated-wireless-communication-358b3914d398>

<http://campar.in.tum.de/pub/bigdelou2012m2cai/bigdelou2012m2cai.slides.pdf>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration:1 1/2 hours**

Section A -  $3 \times 2 = 6$  (3 out of 5)

Section B -  $3 \times 8 = 24$  (3 out of 5)

Section C -  $1 \times 20 = 20$  (1 out of 2)

### **Other Components:**

**Total Marks: 50**

Assignment/Seminars/Quiz/Open book tests/Case Studies

### **End-Semester Examination:**

**Total Marks: 100**

**Duration:3 hours**

**Section A** –  $10 \times 2 = 20$

**Section B** -  $8 \times 5 = 40$  marks (8 out of 10)

**Section C** -  $2 \times 20 = 40$  marks (2 out of 4)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: PSYCHOLOGY**

**SYLLABUS**

**(Effective from the academic year 2019 - 2020)**

**ABNORMAL PSYCHOLOGY II**

**CODE: 19PY/MC/AB65**

**CREDITS: 5**

**LTP: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To help ascertain the diagnosis based on the clinical manifestation of the illness using an appropriate classification system.
- To enable students to discern the causal factors of presenting illnesses and formulate a case conceptualization.
- To learn the appropriate evidence based approaches in treatment and management of mental illnesses.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Define the basis of abnormal psychology and the differences between normal and abnormal behaviour.
- Differentiate between major theoretical orientations in abnormal psychology.
- Identify the standards for the diagnosis and classification of major psychopathological conditions.
- Possess knowledge of multiple influences of abnormal behaviour as viewed from different theoretical perspectives.
- Construct diagnostic formulations and thereby develop and implement psychotherapeutic interventions.

**Unit 1**

**(17 Hours)**

**Mood Disorders**

- 1.1 Mood Disorders- Unipolar Mood Disorders
- 1.2 Biological, psychosocial, socio-cultural causal factors in Unipolar Mood Disorders
- 1.3 Bipolar Disorders
- 1.4 Biological, Psychosocial and socio cultural causal factors affecting Bipolar Disorders
- 1.5 Treatment and Management

**Unit 2**

**(15 Hours)**

**Schizophrenia and related disorders**

- 2.1 Schizophrenia- Clinical features of Schizophrenia, subtypes of schizophrenia
- 2.2 Overview of schizophrenia related disorders- delusional disorder, brief psychotic disorder, schizophreniform disorder, schizoaffective disorder, shared psychotic disorder.



- 2.3 Causes of Schizophrenia
- 2.4 Treatment and Management

**Unit 3 (12 Hours)**

**Personality Disorders**

- 3.1 Disorders of Adult Personality and Behaviour - Clinical features, Causes
- 3.2 Specific Personality Disorders – Paranoid, Schizoid, Dissocial, Histrionic, Borderline
- 3.3 Treatment and Management

**Unit 4 (17 Hours)**

**Substance Related Disorders**

- 4.4 Addiction Disorders- Alcohol abuse and dependence
- 4.5 Addiction Disorders - Drug abuse and drug dependence
- 4.6 Treatment and Prevention

**Unit 5 (17 Hours)**

**Neurocognitive Disorders**

- 5.1 Delirium
- 5.2 Major & Mild Neurocognitive Disorder
- 5.3 Specific Neurocognitive Disorders - Traumatic Brain Injury, Parkinson's, Huntington's, Alzheimer's, Frontotemporal Disorder, Lewy Body Disease.
- 5.4 Causes of Neurocognitive Disorders
- 5.5 Treatment and Management of Neurocognitive Disorders

**BOOKS FOR STUDY**

Comer, R. J. (2009). *Fundamentals of Abnormal Psychology*. New York: Worth Publishers.  
Durand, V. M., & Barlow, D. H. (2000). *Abnormal Psychology (2<sup>nd</sup> ed)*. Thomson Brooks/Cole.  
Sarason, I. G., & Sarason, B. R. (2005). *Abnormal Psychology*. New Delhi : Prentice Hall.

**BOOKS FOR REFERENCE**

Carson, R.C., Butcher, J. N., Mineka, S., & Hooley, J. M. (2007). *Abnormal Psychology (13<sup>th</sup> ed)*. Delhi, India: Pearson Education.  
Durand, V. M., & Barlow, D. H. (2009). *Abnormal Psychology- An Integrative Approach (6<sup>th</sup> ed)*. Wadsworth: Cengage Learning.

**WEB RESOURCES**

<https://www.youtube.com/watch?v=IehtMYlOuIk>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 mins**

Section A – 3 x 2 = 6 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words)

### **Other Component:**

**Total Marks: 50**

Seminars/Assignments/Quiz

### **End semester examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 2 = 20 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 20 = 40 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019- 2020)

**COUNSELLING PSYCHOLOGY**

**CODE: 19PY/MC/CP64**

**CREDITS: 4**

**L T P : 4 1 0**

**TOTAL TEACHING HOURS : 65**

**OBJECTIVES OF THE COURSE**

- To help students understand the basic processes of counselling.
- To enable students to learn the various approaches of counselling.
- To learn the application of counselling skills.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to:

- Exhibit an understanding of the counselling process and the role of a counsellor in the same.
- Demonstrate micro and macro skills used in the counselling process.
- Respect and follow the ethical guideline laid down by the APA.
- Discern the approach of counselling most appropriate for a given client or use their discretion to use an eclectic approach.
- Critique and evaluate various approaches in counselling.

**Unit 1 (12 Hours)**

**Counselling- An Introduction**

- 1.1 Introduction: Definitions of counselling
- 1.2 Characteristics of an effective counsellor
- 1.3 Functions of counsellors
- 1.4 Goals of counselling
- 1.5 Ethics in counselling

**Unit 2 (14 Hours)**

**Approaches to Counselling**

- 2.1 Psychodynamic Approach
- 2.2 Behaviouristic Approach
- 2.3 Humanistic Approach
- 2.4 Trait-Factor Approach
- 2.5 Gestalt Approach
- 2.6 Existential Approach
- 2.7 The Eclectic approach

**Unit 3 ( 13 Hours)**

**The Egan Model of Counselling – the Skilled Approach**

- 3.1 Stage – 1 Problem Exploration and Clarification  
Part I – Attending and Listening, orienting oneself to the present

Micro skills – active listening – verbal and non-verbal messages and behaviour  
Part II – Helper's response and clients self-exploration  
Helpers skills – accurate empathy (primary level), respect, genuineness, concreteness  
Client's skill – self-exploration

3.2 Stage – 2 Integrative understanding / dynamic self-understanding  
Part I – Focusing, summarizing, probing for missing experiences, behaviour Feelings  
Part II – Helper's skills – all the skills of Stage-1, self-disclosure, immediacy, confrontation.  
Client's skill – non-defensive listening, dynamic self-understanding.

**Unit 4 (13 Hours)**

**The Egan Model of Counselling – the Skilled Approach**

4.1 Stage-3 Facilitating action; developing a new perspective; preferred scenario  
Part I – Helping the client see alternatives  
Helping the client choose and formulate an action plan  
Helping the client implement and evaluate.  
Part II – Helper's skill-  
All the skills of stages 1 & 2  
4.2 Termination of counselling- readiness of termination, client responses to termination, counsellors responses to termination, ending in a positive way.

**Unit 5 (13 Hours)**

**Counselling of Special Groups**

5.1 Marital and Family Counselling  
5.2 School counselling  
5.3 Youth Counselling  
5.4 Career counselling  
5.5 Work place counselling  
5.6 De-addiction Counselling  
5.7 AIDS Counselling  
5.7 Grief counselling  
5.8 Counselling suicidal clients.  
5.9 Gerontological Counselling  
5.10 Telephone, Online Counselling  
5.11 Crises Counselling  
5.12 Counselling in disaster situation

**BOOKS FOR STUDY**

Egan, G. (1982). *The Skilled Helper*. Brooks: Cole Publishing.  
Patterson, L. E., & Welfel, E. R. (2001). *The Counselling Process*. Bangalore: Eastern Press.

**BOOKS FOR REFERENCE**

Gibson, R. L., & Mitchell, M. H. (2003). *Introduction to Counseling and Guidance* (6th ed.). Delhi: Pearson Education  
Jones, R. N. (2007). *The Theory and Practice of Counselling* (2nd ed.). London: Holt, Rinehart & Winston.

## **WEB RESOURCES**

<https://www.youtube.com/watch?v=it0j6FIxIog>

[https://www.ted.com/talks/johann\\_hari\\_everything\\_you\\_think\\_you\\_know\\_about\\_addiction\\_is\\_wrong/discussion](https://www.ted.com/talks/johann_hari_everything_you_think_you_know_about_addiction_is_wrong/discussion)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90**

**minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component:**

**Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**REHABILITATION PSYCHOLOGY**

**CODE: 19PY/MC/RP65**

**CREDITS: 5**

**LTP: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To deepen the students' understanding of conceptual frameworks within disability and rehabilitation.
- To familiarize students to rehabilitation psychology, a branch of psychology that focuses on the needs and resources of persons with disabilities.
- To help students understand the role of a rehabilitation psychologist in practice and services within a network of biological, psychological, social, environmental and political capacities.
- To impart knowledge regarding the existing policies for persons with disabilities at both the national and the international levels.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Classify disabilities and be sensitive to the needs and potentials of those with disabilities.
- Conduct a needs analysis for persons with disabilities and formulate an intervention plan based on the same.
- Demonstrate an appreciation for the services provided by each member of the multidisciplinary team and understand the importance for the same.
- Identify techniques to reduce barriers in attitude that affect individuals with disabilities.
- Articulate a working knowledge of the stages of human development and the different needs of individuals with disabilities across the life span.

**Unit 1**

**(15 Hours)**

**Introduction to Rehabilitation Psychology**

1.1 Basic constructs- Impairment, handicap, disability

1.2 Meaning and definition of rehabilitation

1.3 Goals, objectives and principles of rehabilitation

1.4 Impact of Disability on the

1.4.1 Individual- person variables, immediate environment, larger culture and sub-culture.

1.4.2 Family- family systems theory, family coping resources.

1.4.3 Community

1.5 Individual and community based rehabilitation

- Unit 2** (15 Hours)  
**Personality attributes of persons with disabilities**  
2.1 Personality development of persons with disabilities  
2.2 Personality traits and coping styles of persons with disabilities  
2.3 Psychological adjustment to disability- Kerr's levels of adaptation to disability, stage theories of disability.  
2.4 Personality assessment- observational methods, personality inventories and projective techniques.
- Unit 3** (16 Hours)  
**Classes of disabilities and their management**  
**Nature, causes and types, characteristics, assessments, management techniques**  
3.1 Vision impairment  
3.2 Hearing and speech impairment  
3.3 Intellectual disability  
3.4 Neuromuscular and orthopaedic disabilities  
3.5 Mental Illness
- Unit 4** (16 Hours)  
**Psychological assessments and training**  
4.1 Assessment of intelligence, cognitive functions and adaptive behaviours  
4.2 Assessment of aptitude, interests and special abilities.  
4.3 Training need analysis, planning and implementation of training programme  
4.4 Careers for the disabled  
4.5 Role of rehabilitation psychologist in different settings
- Unit 5** (16 Hours)  
**Frameworks for intervention**  
5.1 Addressing barriers to rehabilitation  
5.2 Overview of policies, laws, and programs for the disabled (national and international)  
5.3 National action plan for skill training of persons with disabilities.  
5.4 Increasing human resources for rehabilitation

## **BOOKS FOR STUDY**

Baroff, G. S., & Olley, J. G. (2014). *Mental Retardation: Nature, Cause, and Management*. London, England: Routledge.

Farrell, M. (2006). *The Effective Teacher's Guide to Sensory Impairment and Physical Disability: Practical Strategies*. Oxfordshire, England: Taylor & Francis.

McDaniel, J. W. (2013). *Physical Disability and Human Behavior: Pergamon General Psychology Series*. Amsterdam, Netherlands: Elsevier.

Miller, F. (2005). *Cerebral Palsy*. Berlin, Germany: Springer Science & Business Media.  
Sharma, K. (2006). *Aural Rehabilitation of Hearing Impaired Children*. Sarup & Sons.

Smart, J. (2011). *Disability Across the Developmental Life Span: For the Rehabilitation Counselor*. New York, NY: Springer Publishing Company.

T.F. Riggall, E., & Dennis R. Maki, C. (2003). *Handbook of Rehabilitation Counseling*. New York, NY: Springer Publishing Company.

### **BOOKS FOR REFERENCE**

Algozzine, B., & Ysseldyke, J. (2006). *Teaching Students With Medical, Physical, and Multiple Disabilities: A Practical Guide for Every Teacher*. Thousand Oaks, CA: Corwin Press.

Lieberman, R. P. (2009). *Recovery From Disability: Manual of Psychiatric Rehabilitation*. Arlington, VA: American Psychiatric Pub.

McGinley, V. A., & Alexander, M. (2017). *Parents and Families of Students With Special Needs: Collaborating Across the Age Span*. Thousand Oaks, CA: SAGE Publications.

Vash, C. L., & Crewe, N. M. (2003). *Psychology of Disability: Second Edition*. New York, NY: Springer Publishing Company.

### **WEB RESOURCES**

[http://www.who.int/disabilities/world\\_report/2011/chapter4.pdf](http://www.who.int/disabilities/world_report/2011/chapter4.pdf)  
[www.un.org/disabilities/convention/conventionfull.shtml](http://www.un.org/disabilities/convention/conventionfull.shtml)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component:** **Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CONSUMER PSYCHOLOGY**

**CODE:19PY/ME/CY45**

**CREDITS :5**

**L T P :5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the rationale behind 'how and why' consumers behave
- To understand the internal and external influences that impel individuals to act in consumption- related ways
- To provide an insight into the strategies that are most likely to reach, inform, and persuade consumers.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Distinguish between different consumer behaviour influences and their relationships
- Establish the relationship between theories of consumer behaviour and marketing concepts.
- Identify the social influences on consumer behaviour specifically in the Indian market, given its cultural diversity.
- Display an understanding of consumer motivations and decision process.
- Effectively develop, interpret and analyse different forms of messages and multimedia presentation used in business.

**Unit 1 (12 Hours)**

**Introduction to Consumer Psychology**

- 1.1 Definition and meaning of Consumer Behaviour
- 1.2 Nature and importance of Consumer Behaviour
- 1.3 General model of Consumer Behaviour

**Consumer Perception**

- 1.4 Elements of perception- sensory input, absolute threshold, differential threshold and subliminal perception

**Unit 2 (13 Hours)**

**Consumer Motivation**

- 2.1 Meaning of Motivation, Types of Motives, Dynamic Nature of Motives-Needs and Goals of Consumers

**Consumer Personality**

- 2.2 Meaning of Personality, Facets of Personality, Personality Traits and Consumer Behaviour

**Unit 3** **(13 Hours)**  
**Consumer Learning**

3.1 Elements of Consumer Learning

3.2 Approaches to Learning- Classical Conditioning, Operant Conditioning

**Consumer Communication Process**

3.3 Definition of Communication, Communication Process-Traditional Media and New Media

3.4 Designing Persuasive Communication Messages

**Unit 4** **(15 Hours)**  
**Consumer in the Social and Cultural Settings**

4.1 Family as a socialization agent-Parental Styles and Consumer socialization

4.2 Family Decision making and Consumption related roles- Husband and Wife Decision making, Children's influence in decision making, Family member's roles

4.3 Family Life Cycle, Non Traditional Families

4.4 Social Class & Social Status, Social Class Characteristics

4.5 Reference Groups- types of reference groups, factors influencing reference groups influence

4.6 Culture's role and Dynamics- Levels of cultural norms, symbolism, Psychographics

**Unit 5** **(12 Hours)**  
**Consumer Decision-Making Process**

5.1 Stages of Decision Making

5.2 Types of Decision Making

5.3 Consumer Decision Making Model- EK B Model

5.4 Consumer Insights

**BOOKS FOR STUDY**

Schiffman, Leon G, Wisenblitt, Joseph, Kuman S Ramesh. *Consumer behaviour*. Chennai. Pearson Education, Inc.2015.

Sharma, Rajwanti, Sharma, Jai Pal. *Consumer Behaviour*. New Delhi. JBC Press.2014.

**BOOKS FOR REFERENCE**

Blythe, Jim *Consumer Behaviour*. New Delhi. Sage .2013.

Graves Philip. *Consumer.ology*. London. Nicholas Brealey. 2013.

Pasricha, Seema. *Consumer Psychology*. New Delhi. Deep & Deep .2005

Sharan, A.K. *Consumer Psychology*. Bangalore. Neha Publishers & Distributors.1999.

## **JOURNALS**

Journal of Consumer Behaviour

<http://www.ingentaconnect.com/content/jws/cbh/2004/00000004/00000002;jsessionid=51ede bvsd1c7i.alice#>

## **WEB RESOURCES**

Consumer-Brand Relationship

[http://dx.doi.org/10.1207/s15327663jcp1501\\_10](http://dx.doi.org/10.1207/s15327663jcp1501_10)

What consumers want?

[https://img-](https://img-ssl.tedcdn.com/r/images.ted.com/images/ted/65912_240x180.jpg?quality=89&w=320)

[ssl.tedcdn.com/r/images.ted.com/images/ted/65912\\_240x180.jpg?quality=89&w=320](https://img-ssl.tedcdn.com/r/images.ted.com/images/ted/65912_240x180.jpg?quality=89&w=320)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component:**

**Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ORGANISATIONAL PSYCHOLOGY**

**CODE:19PY/ME/OP45**

**CREDITS: 5**

**LTP :5 0 0**

**TOTAL TEACHING HOURS :65**

**OBJECTIVES OF THE COURSE**

- To enable students to gain an understanding of the dynamics of human interaction within an organisational context.
- To understand and appreciate the role of Psychology in organizations
- To help the students understand how theory and research are applied to work settings

**COUSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate an understanding of the major areas of organisational psychology.
- Apply theoretical frameworks to real life organisational situations.
- Communicate knowledge of the various roles of the psychologist within an organization.
- Understand influence of personal attributes on job performance, motivation and output.
- Appreciate and be sensitive towards ethical guidelines in work culture.

**Unit 1 (10 Hours)**

**Introduction to Organisational Psychology**

- 1.1 Definition of organization and organisational structure
- 1.2 Relevance of psychology in organisation
- 1.3 Meaning, definition and scope of organisational psychology
- 1.4 Historical development of organisational psychology; pioneers of personnel selection
- 1.5 Challenges for organisational psychology- virtual workplace, virtual employees, worker involvement, changing technology and skills.

**Unit 2 (12 Hours)**

**Organisational culture and dynamics**

- 2.1 Organisational culture
  - 2.1.1. Definition, creating and sustaining an ethical and customer responsive culture.
  - 2.1.2. Employees learn culture
- 2.2 Organisational Dynamics
  - 2.2.1 Contemporary issues for managers
  - 2.2.2 Forces for change
  - 2.2.3 Managing planned change
  - 2.2.4 Resistance to change
  - 2.2.5 Overview to the approaches to change

**Unit 3 (13 Hours)**

**Assessment of job, performance and people**

- 3.1 Job analysis- definition
  - 3.1.1 Job oriented approach, person oriented approach
  - 3.1.2 Purpose of job analysis
- 3.2 Performance appraisal- definition
  - 3.2.1 Reasons for appraisal
  - 3.2.2 Methods of performance appraisal
- 3.3 Selecting employees- definition
  - 3.3.1 Recruitment process, interviews and psychological tests
- 3.4 Training-Definition
  - 3.4.1 Training methods- on the job and off the job training

**Unit 4 (14 Hours)**

**Work Motivation and Job Satisfaction**

- 4.1 Meaning and definition of motivation
  - 4.1.1 Early theories of work motivation- need hierarchy, two-factor theory
  - 4.1.2 Contemporary theories of motivation- ERG theory; Mclelland's theory of needs, reinforcement theory.
- 4.2 Job satisfaction
  - 4.2.1 Nature of job satisfaction
  - 4.2.2 Antecedents of job satisfaction- environmental and personal antecedents.
  - 4.2.3 Potential effects of job satisfaction

**Unit 5 (16 Hours)**

**Work Groups, Work Teams and Leadership**

- 5.1 Definition of work groups and work teams
  - 5.1.1 Important group concepts- roles, norms, group cohesiveness, process loss
  - 5.1.2 Building effective teams- context, composition, work design, process
- 5.2 Leadership
  - 5.2.1 Definition of leadership
  - 5.2.2 Styles of leadership
  - 5.2.3 Behavioural theories- Managerial Grid
  - 5.3.4 Contingency theories- Fred Fiedler model
  - 5.3.5 Situational theory- Hersey and Blanchard's model.

**BOOKS FOR STUDY**

- Robbins, S. P. (2005). *Organisational Behavior* (11th ed.). New Delhi: Prentice Hall of India.
- Schultz, D., & Schultz, S. E. (2015). *Psychology and Work Today: Pearson New International Edition CourseSmart eTextbook*. New Delhi, England: Pearson India.
- Spector, P. E. (2016). *Industrial and Organisational Psychology: Research and Practice, 7th Edition: Research and Practice*. Hoboken, NJ: Wiley Global Education.

**BOOKS FOR REFERENCE**

- Davis, K., & Newstrom, J. W. (2002). *Human Behavior at Work: Organisational Behavior* (11th ed.). New York, NY: McGraw-Hill College.

Pandey, M., & Singh, Y. (2004). *Organisational Behaviour*. New Delhi: A.I.T.B.S Publishers.

### **WEB RESOURCES**

[https://www.ted.com/talks/diana\\_dosik\\_why\\_we\\_need\\_to\\_treat\\_our\\_employees\\_as\\_thoughtfully\\_as\\_our\\_customers](https://www.ted.com/talks/diana_dosik_why_we_need_to_treat_our_employees_as_thoughtfully_as_our_customers)

[https://www.ted.com/talks/dan\\_ariely\\_what\\_makes\\_us\\_feel\\_good\\_about\\_our\\_work?language=en](https://www.ted.com/talks/dan_ariely_what_makes_us_feel_good_about_our_work?language=en)

### **PATTERN OF ASSESSMENT**

#### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

#### **Other Component:**

**Total Marks: 50**

Seminars/Assignments/Quiz

#### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**THEORIES OF PERSONALITY**

**CODE:19PY/ME/TP45**

**CREDITS:5**

**LTP:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To help students develop knowledge about the dimensions of human personality
- To familiarize students with the various contributions made by eminent psychologists in the realm of personality theories.
- To familiarize students with major models related to the study of personality.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Possess skills required to identify and personality theories and translate theoretical knowledge to explanations of individual behaviour.
- Exhibit an understanding of human personality, its dimensions and its application in psychology.
- Compare and contrast the various personality theories based on their premises and postulates.
- Categorize and evaluate personality tests based on their approach to measuring personality.
- Appreciate individual differences and be sensitive towards these differences.

**Unit 1 (12 Hours)**

**Introduction to Personality Theories**

- 1.1 Definition and meaning of personality
- 1.2 Meaning and definition of theory, Scientific Statements- Objective & Subjective data, operational definition
- 1.3 Personality in the history of psychology, Dimensions of personality
- 1.4 Application of Personality Theories-assessment, research and psychotherapy

**Unit 2 (13 Hours)**

**Psychoanalytic and Neo-psychoanalytic theories**

- 2.1 Sigmund Freud- Structure, Psychosexual Stages, Defense Mechanisms
- 2.2 Carl Jung-Psychic Energy, The Ego, Psychological Types, Personal and Collective unconscious, Self realization
- 2.3 Alfred Adler- Inferiority Feelings, Striving for superiority, Style of life, Social interest, Birth Order

**Unit 3 (15 Hours)**

**Trait and Type Theories**

- 3.2 Raymond Cattell- Approach to Personality Traits, Source Traits, Dynamic Traits, Influence of Heredity and Environment, Stages of Personality Development
- 3.3 Hans Eysenck- Dimensions of Personality

**Unit 4 (12 Hours)**

**Humanistic Theories**

- 4.1 Carl Rogers- Actualization, The Self, Congruence and Incongruence, Development of Personality, Fully Functioning Person
- 4.2 Abraham Maslow- Personality Development, Hierarchy of Needs, Study of Self-Actualizers

**Unit 5 (13 Hours)**

**Other Theories**

- 5.1 Hippocrates and Galen's initial conceptualizations of personality.
- 5.2 Sheldon's theory of personality.
- 5.3 Contributions of Indian Philosophers (Overview)-J.Krishnamurthy, Sri Aurobindo, Rajneesh (Osho)

**BOOKS FOR STUDY**

Engler, B. (2013). *Personality Theories*. Boston, MA: Cengage Learning.

Schultz, D. P., & Schultz, S. E. (2016). *Theories of Personality*. Boston, MA: Cengage Learning.

Hall, C.S., Lindzey, G., Loehlin, J. C., & Manosevitz, M. (1985). *Introduction to personality theorie*. Wiley.

Krishnamurthy, J. (1967). *Life Ahead*. California: New World Library.

Osho. (2010). *Joy: The Happiness That Comes from Within*. New York, NY: St. Martin's Griffin.

**WEB RESOURCES**

[https://www.ted.com/talks/brian\\_little\\_who\\_are\\_you\\_really\\_the\\_puzzle\\_of\\_personality?language=en](https://www.ted.com/talks/brian_little_who_are_you_really_the_puzzle_of_personality?language=en)

**PATTERN OF ASSESSMENT**

**Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section A – 5 x 3= 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5= 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15= 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component: Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATIONS OF PSYCHOTHERAPY**

**CODE:19PY/ME/FP45**

**CREDITS: 5**

**LTP: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- The course introduces students to various theoretical orientations to psychotherapy.
- It provides students with the opportunity to learn the nuances of psychotherapeutic techniques and its application.
- To enable students to compare and contrast different approaches to psychotherapy.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate knowledge of the basic principles and practices in psychotherapy.
- Apply principles of psychotherapy in personal and professional contexts to develop a better understanding of others.
- Conceptualize a given presenting problem from various psychotherapeutic approaches.
- Evaluate and critique view-points offered by various realms of psychotherapy.
- Demonstrate sensitivity towards cultural and diversity issues in psychotherapy.

**Unit 1 (10 Hours)**

**Introduction to Psychotherapy**

- 1.1 Definition of Psychotherapy
- 1.2 Objectives of Psychotherapy
- 1.3 Difference between Counselling and Psychotherapy
- 1.4 Processes of change in Psychotherapy
- 1.5 Overview of psychotherapeutic approaches

**Unit 2 (13 Hours)**

**Overview of Psychoanalytic Therapy**

- 2.1 Psychoanalytic Psychotherapy: Key concepts- structure of personality, Consciousness and unconscious, development of personality.
- 2.2 Therapeutic process- goals, therapeutic relationship, phases of therapy
- 2.3 Therapeutic techniques and procedures

**Overview of Person Centred Psychotherapy**

- 2.4 Introduction to Carl Rogers's person centred approach
- 2.5 Key concept- view of human nature, therapeutic process, goals, functions and role of a therapist.
- 2.6 Therapeutic techniques and procedures

**Unit 3 (13 Hours)**

**Overview of Behaviour therapy**

- 3.1 Introduction to behavioural theories and key concepts- view of human nature, basic characteristics and assumptions
- 3.2 Goals of therapy and therapeutic process
- 3.3 Therapeutic techniques: relaxation procedure, exposure therapy, flooding, implosive therapy and systematic desensitization, contingency management, reinforcement techniques.

**Overview of Cognitive Behaviour therapy**

- 3.4 Introduction to Ellis's REBT and Beck's CBT.
- 3.5 Key concepts and basic principles; client-therapist relationship
- 3.6 Therapeutic process and goals

**Unit 4 (16 Hours)**

**Couples and Family therapy**

- 4.1 Theoretical approaches to couples and family therapy
- 4.2 Key concepts in marital and family therapy- cohesion, adaptability, developmental influences.
- 4.3 Formats of marital and family therapy

**Group therapy**

- 4.4 Introduction to group therapy- types of group, advantages.
- 4.5 Principles of group dynamics- leader behaviours, leadership strategies, member behaviours
- 4.6 Stages in group therapy

**Unit 5 (13 Hours)**

**Overview and basic tenets of Contemporary approaches**

- 5.1 Art-based therapy
- 5.2 Play therapy
- 5.3 Dance and movement therapy
- 5.4 Psychodrama

**BOOKS FOR STUDY**

- Capuzzi, D. and Gross, D.R. (2016). *Counselling and Psychotherapy: Theories and interventions*. New Delhi: Pearson Education.
- Corey, G. (2001). *Theory and practice of counseling and psychotherapy*. New York: Brooks/Cole
- Prochaska, J.O. & Norcross, J.C. (2010) *Systems of Psychotherapy*. Cengage

**BOOKS FOR REFERENCE**

- Kaslow, H. W. (Ed.). (2002). *Comprehensive handbook of psychotherapy (Vols. I to IV)*. New York : John Wiley and Sons.
- Nelson, K. (2013). *Principles & Techniques of Psychotherapy* (6<sup>th</sup> ed). Sage publications: London.

## WEB RESOURCES

<https://www.youtube.com/watch?v=24d-FEptYj8>

<https://www.youtube.com/watch?v=odnoF8V3g6g>

<https://www.youtube.com/watch?v=05Elmr65RDg>

## PATTERN OF ASSESSMENT

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 5 x 3 = 15 marks (all questions to be answered in 50 words)

Section B – 4 x 5 = 20 marks (4 out of 6 questions to be answered in 250 words)

Section C – 1 x 15 = 15 marks (1 out of 2 questions to be answered in 1200 words)

**Other Component:**

**Total Marks: 50**

Seminars/Assignments/Quiz

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT**

**CODE:19PY/ME/PR45**

**CREDITS: 5**

### **COURSE LEARNING OBJECTIVES**

- To enable students to understand and apply basic research methods in psychology including research methodology, data analysis and interpretation.
- To enable students to critically analyse major theoretical positions in research methodology.
- To enable an understanding of basic research methods such as research methodology, data analysis, and interpretation.

### **COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Formulate research hypotheses and test the same by designing empirical studies.
- Carry out data collection, organise the collected data, analyse and interpret the results.
- Read, interpret, and evaluate social research.
- Critique existing literature and identify gaps in knowledge within the field of psychology.
- Write research papers and scientific material as per APA conventions.

Students must undertake a survey on a relevant topic. Every student is required to complete this project under the supervision and guidance of a faculty member. This report will be evaluated internally by two examiners.

The project report will be evaluated for 100 Marks

### **PATTERN OF ASSESSMENT**

Internal – Total 50

Project report – 25 marks

Internal VIVA – 25 marks

External – Total 50

Project report – 25 marks

External VIVA – 25 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086.**

**General Elective offered by the Department of Psychology to students of  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**FUNDAMENTALS OF HUMAN BEHAVIOUR**

**CODE:19PY/GE/HB22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TECHING HOURS:26**

**OBJECTIVES OF THE COURSE:**

- To help students understand basic Principles of Psychology
- To Create Self-Awareness and Understanding of various aspects of Human Behaviour

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate an understanding of psychology as the scientific study of human behaviour.
- Develop knowledge on the overarching themes in psychology.
- Apply learnt psychological concepts to one's own interaction and social behaviour.

**Unit 1**

**Introduction to Psychology**

**(10 Hours)**

- 1.1 Definition of Psychology and Basic concepts- Cognitive and Affective factors
- 1.2 Methods of studying Human Behaviour- Introspection, Observation, Interview, Case Study, Questionnaire, Experimental Method

**Unit 2**

**Affective Factors and Personality**

**(8 Hours)**

- 2.1 Motivation (Primary and Secondary Motives)
- 2.2 Emotion (Negative and Positive Emotions), physiological Basis of Emotions
- 2.3 Definition, Assessment and Development of Personality

**Unit 3**

**Social Perception**

**(8 Hours)**

- 3.1 Attitudes, prejudice, stereotypes, discrimination
- 3.2 Developing positive first impression.

**BOOKS FOR STUDY**

Baron, A. Robert. *Psychology*. New Delhi: Prentice Hall, 2007.

Baron. (2009). *Social Psychology*. Delhi, India: Pearson Education India.

Bowdon-Tom Butler. *50 Psychology Classics*. London: Nicholas Brealey, 2008.

## **WEB RESOURCES**

<http://tedtalkspsychology.com/10-myths-about-psychology-debunked-with-ben-ambridge/>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 3 x 5 = 15 marks (3 out of 5 questions to be answered in 200 words each)

Section B – 1 x 10 = 10 marks (1 out of 2 questions to be answered in 500 words)

### **Other Components:**

**Total Marks : 25**

Seminars / assignments / film analysis

### **No End Semester Exam**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086.**

**General Elective offered by the Department of Psychology to students of  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**BASIC SKILLS IN COUNSELLING  
(Skill Development Course)**

**CODE:16PY/GE/BC22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TECHING HOURS:26**

**OBJECTIVES OF THE COURSE:**

- To understand Basics in Helping Relationships
- To train students in individual and group approaches to counselling through the participatory method

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Understand the role of a counselor
- Understand the concerns for which counselling is used
- Develop, apply and analyse the counselling skills in practice sessions and role plays

**Unit 1**

**Introduction to Counselling**

**(10 Hours)**

- 1.1 Definition and Goals of Counselling
- 1.2 Characteristics of a Counsellor
- 1.3 Concepts of Advice, Guidance and Psychotherapy in relation to counselling
- 1.4 Ethics in counselling
- 1.5 Individual and Group Counselling

**Unit 2**

**Counselling Process**

**(10 Hours)**

- 2.1 Basics Steps to Counselling (Case study &Role play) – Practical Sessions
- 2.2 Skills in Building Counselling Relationships

**Unit 3**

**Areas in Counselling**

**(6 Hours)**

- 3.1 Counselling in Educational institutions
- 3.2 Counselling in Organizations
- 3.3 Counselling in Families
- 3.4 Counselling in Communities
- 3.5 Online Counselling

## **BOOKS FOR STUDY**

Baron, A. Robert. *Psychology*. New Delhi: Prentice Hall, 2007.

Patterson. Lewis, Welfel. Reynolds, Elizabeth. *The Counselling Process*. Bangalore: Eastern Press, 2001.

## **WEB RESOURCES**

Basic Counselling Skills: Role-play

[https://youtu.be/OwW8x\\_0YGLI](https://youtu.be/OwW8x_0YGLI)

01-Carl Rogers on Empathy

<http://www.youtube.com/watch?v=iMi7uY83z->

## **PATTERN OF EVALUTION**

**Continuous Assessment Test:**  
**minutes**

**Total Marks: 25**

**Duration:60**

Section A – 3 x 5 =15 marks (3 out of 5 questions to be answered in 200 words each)

Section B – 1 x 10=10 marks (1 out of 2 questions to be answered in 500 words)

**Other Components:**

**Total Marks : 25**

Seminars / assignments / film analysis

**No End Semester Exam**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086**

**General Elective offered by the Department of Psychology to students of  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO SOCIAL BEHAVIOR**

**CODE:19PY/GE/SB22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TECHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To provide students with a basis for understanding interactions of individuals and societies.
- To enable students to understand perception of people and social events.
- To enable students to understand the basis of social behaviour.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Communicate knowledge about social behaviour.
- Understand the forces that create multiple patterns of social behaviours.
- Understand the dynamics of inter and intragroup conflict, and cooperation.
- Explain how various social behaviours unfold in the society.
- Identify process in group dynamics.

**Unit 1 (10 Hours)**

**Introduction to Social behaviour**

- 1.1 Definition of Social Behaviour
- 1.2 Understanding social behaviour
- 1.3 Social influence and Social Cognition

**Unit 2 (8 Hours)**

**Social Perception**

- 2.1 Meaning of Social Perception
- 2.2 Basic principles of Social Perception
- 2.3 Prejudice, Stereotypes, Discrimination

**Unit 3 (8 Hours)**

**Types of Social Behaviour**

- 3.1 Pro-Social Behaviour
- 3.2 Anti- Social Behaviour

**BOOKS FOR STUDY**

Baron. A Robert, Byrne. Donn. *Social Psychology*. New Delhi: Prentice Hall, 2004.

## **WEB RESOURCES**

<https://www.youtube.com/watch?v=F-o8nIYxEIQ>

I'll have What She's Having: Mapping social behaviour

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 3 x 5 =15 marks (3 out of 5 questions to be answered in 200 words each)

Section B – 1 x 10=10 marks (1 out of 2 questions to be answered in 500 words)

### **Other Components:**

**Total Marks : 25**

Seminars / assignments / film analysis

**No End Semester Exam**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective offered by the Department of Psychology to students of  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF PSYCHOLOGY**

**CODE:19PY/GE/PP22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**\*Students of BSW are not eligible**

**OBJECTIVES OF THE COURSE**

- To Introduce the basic principles of Psychology
- To familiarize students to the applications of these principles

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate an understanding of psychology as the scientific study of human behaviour
- Comprehend the historical trends and theoretical perspectives in psychology
- Develop a knowledge on the overarching themes in psychology

**Unit 1**

**Introduction to Psychology**

**(8 Hours)**

- 1.1 Definition and Scope of Psychology
- 1.2 Scientific Methods in Psychology
- 1.3 Schools of Psychology
- 1.4 Branches of Psychology

**Unit 2**

**Cognitive Processes & Language**

**(8 Hours)**

- 2.1 Learning and memory
- 2.2 Intelligence and creativity
- 2.3 Basic language acquisition milestones
- 2.4 Language and thought

**Unit 3**

**Personality and Emotions**

**(10 Hours)**

- 3.1 Definition of Personality
- 3.2 Theories of personality- overview of Freud's, Eysenck's, Roger's contributions
- 3.3 Nature of motivation, types of motivation
- 3.4 Nature of emotions, types of emotions

## BOOKS FOR STUDY

Baron, A. Robert. *Psychology*. New Delhi: Prentice Hall, 2004.

Meyers, G. David. *Exploring Psychology*. New York: Worth, 2008.

## BOOKS FOR REFERENCE

Christensen, I.P. H.L. Wagner. *Psychology*. U.K: BIOS Scientific, 2004

Hall, Calvin and Lindzey Gardner. *Introduction to Personality theory*. New York: John Wiley, 2000.

## JOURNALS

Journals of Psychology

## WEB RESOURCES

Youtube: Classical Conditioning, Operant Conditioning, Cognitive Learning Theories

<https://www.youtube.com/watch?v=hhqumfpxuzI>

<https://www.youtube.com/watch?v=H6LEcM0E0io>

[https://www.youtube.com/watch?v=NjTxQy\\_U3ac](https://www.youtube.com/watch?v=NjTxQy_U3ac)

<https://i.ytimg.com/vi/6-YWrPzsmEE/mqdefault.jpg>

[https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.montgomeryschoolsmd.org/curriculum/esol/cpd/module2/docs/chomsky.pdf&ved=2ahUKEwj8oqH3\\_nfAhVMro8KHYmzCkwQFjAAegQIAhAB&usg=AOvVaw0qO64E\\_rmYrhYQBg8EfonW](https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.montgomeryschoolsmd.org/curriculum/esol/cpd/module2/docs/chomsky.pdf&ved=2ahUKEwj8oqH3_nfAhVMro8KHYmzCkwQFjAAegQIAhAB&usg=AOvVaw0qO64E_rmYrhYQBg8EfonW)

## PATTERN OF EVALUTION

### Continuous Assessment Test:

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 3 x 5 = 15 marks (3 out of 5 questions to be answered in 200 words each)

Section B – 1 x 10 = 10 marks (1 out of 2 questions to be answered in 500 words)

### Other Components:

**Total Marks : 25**

Seminars / assignments / film analysis

## No End Semester Exam

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective offered by the Department of Psychology to students of  
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GENDER AND SEXUALITY**

**CODE:19PY/GE/GS22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students understand the theoretical foundations of gender; to promote deconstruction of sexism.
- To develop an appreciation and sensitivity for asymmetries and complexities across genders.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Evaluate, compare and critique theories of gender and sexuality.
- Identify the effect of gender and sexual identities on the experience of privilege, power dynamics and political voice across cultures and time.
- Critically evaluate the social position of various sexual groups given the Indian context.

**Unit 1 (7 Hours)**

**Introduction to gender and sexuality**

- 1.1 Difference between gender and sex; gender identity versus sexual identity
- 1.2 Cis-genders, transgenders and transsexuals
- 1.3 Socio-Cultural construction of gender
- 1.4 Gender stereotypes
- 1.5 Gender differences in personality, emotions and sexuality

**Unit 2 (9 Hours)**

**Theoretical perspectives of gender and sex**

- 2.1 Biological theories- genetic inheritance, role of hormones
- 2.2 Social learning theory in acquiring gender roles
- 2.3 Gender schema theory
- 2.4 Eysenck's theory of gender and sexuality
- 2.5 Kohlberg's theory of cognitive competency development in relation to gender

**Unit 3 (10 Hours)**

**Gender and sexuality in operation across time and culture**

- 3.1. Status of women: pre and post colonization- sati, widowhood, dowry, child marriage and the modern woman.
- 3.2. Transsexuality in India: discrimination at the workplace, social exclusion and the law.

- 3.3. The second sex- transgender discrimination, laws and their empowerment.
- 3.4. Sex crimes and rape- consent, power and social scripts
- 3.5. Relationships- monogamy and open non-monogamy.

## **BOOKS FOR STUDY**

Ember, C. R., & Ember, M. (2003). *Encyclopedia of sex and gender: men and women in world's culture*. New York: Kluwer Academic/Plenum Publishers.

Richards, C., & Barker, M. (2015). *The Palgrave Handbook of the Psychology of Sexuality and Gender*. Basingstoke, England: Springer.

Stainton Rogers, W., & Stainton Rogers, R. (2001). *The Psychology Of Gender And Sexuality: An Introduction*. Milton Keynes, United Kingdom: McGraw-Hill Education (UK).

White, J. W., & Travis, C. B. (2000). *Sexuality, Society, and Feminism*. NE, WA, D.C.: American Psychological Association.

## **BOOKS FOR REFERENCE**

Siann, G. (2013). *Gender, Sex and Sexuality: Contemporary Psychological Perspectives*. Oxfordshire, England: Taylor & Francis.

## **RESEARCH ARTICLES/ BOOKS FOR FURTHER READING**

Parekh, S. (2003). Homosexuality in India: The Light at the End of the Tunnel. *Journal of Gay & Lesbian Psychotherapy*, 7(1-2), 145-163. doi:10.1300/j236v07n01\_09

Mead, M. (2016). *Sex and Temperament: In Three Primitive Societies*. New York, NY: HarperCollins.

## **WEB RESOURCES**

[www.youtube.com/watch?v=GLkgotALxTg](http://www.youtube.com/watch?v=GLkgotALxTg)

[www.ted.com/talks/johanna\\_blakley\\_social\\_media\\_and\\_the\\_end\\_of\\_gender?language=n](http://www.ted.com/talks/johanna_blakley_social_media_and_the_end_of_gender?language=n)

## **PATTERN OF EVALUTION**

**Continuous Assessment Test:** **Total Marks: 25** **Duration:60 minutes**

Section A – 3 x 5 =15 marks (3 out of 5 questions to be answered in 200 words each)

Section B – 1 x 10=10 marks (1 out of 2 questions to be answered in 500 words)

**Other Components:**

**Total Marks : 25**

Seminars / assignments / film analysis

**No End Semester Exam**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-86.**

**General Elective offered by the Department of Psychology to students of  
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PSYCHOLOGY OF ADOLESCENCE**

**CODE:19PY/GE/AD22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To give students a basic understanding of Adolescent Psychology
- To help them understand the impact of Mass Media in shaping their Personality

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Show improved knowledge of the characteristics of adolescence
- Display an understanding of requisites and difficulties in adolescence
- Heightened awareness of the role played by media during adolescence

**Unit 1**

**Introduction to Adolescence**

**(10 Hours)**

- 1.1 Meaning of Adolescence
- 1.2 Needs and Problems of Adolescence
- 1.3 Physical development: Growth Spurt and its Psychological impact  
Health Concerns- Psychological Impact (Eating Disorders & Substance Abuse, Sexual Behaviour, Teenage Pregnancy).
- 1.4 Social Development: Egocentrism, Relationship with Family, Peer Group and Society

**Unit 2**

**Adolescence and personality development**

**(8 Hours)**

- 2.1 Identity Development- Marcia, Erikson
- 2.2 Personality Development: Personality Traits and Temperament in Adolescence

**Unit 3**

**Adolescence and the Mass Media**

**(8 Hours)**

- 3.1 Media Habits of Today's Youth
- 3.2 Developmental differences in processing Mass Media
- 3.3 Aggression, fear, desensitization, eating disorders, sexual behaviour, adolescent consumer behaviour and occupation choice.

## BOOKS FOR REFERENCE

Kirsh, Steven, Children, *Adolescents and Media Violence*. London: Sage, 2006

Kroger, Jane. *Identity Development*, London: Sage Publications, London.2007

Papalia.E. Diane, Feldman, Duskin Feldman. *Human Development*, New Delhi: TATA McGraw-Hill.2005.

Santrock, John, *Adolescence*. New Delhi: Tata McGraw-Hill Publishing Company Ltd. 2007.

Singhal, Suhila. Dua Pratibha, *Budding Teens-Understanding Adolescence*. New Delhi. Atlantic Publishers.2010.

Strasburger. Victor C, Wilson, Barbara, J. *Children Adolescents and the Media*. New Delhi. Sage Publications.2006

## JOURNALS

Journal of Adolescence- Francis and Taylor online

Journal of Adolescence and Youth-Springer pub

The Role of Communication Technology in Adolescent Relationships and Identity Development Betty, Steven L. Berman, Megan L. Smith

## WEB RESOURCE

<http://link.springer.com/journal/10566/44/1/page/1>

## PATTERN OF EVALUTION

**Continuous Assessment Test:**  
**minutes**

**Total Marks: 25**

**Duration:60**

Section A – 3 x 5 =15 marks (3 out of 5 questions to be answered in 200 words each)

Section B – 1 x 10=10 marks (1 out of 2 questions to be answered in 500 words)

**Other Components:**

**Total Marks : 25**

Seminars / assignments / film analysis

**No End Semester Exam**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PSYCHOLOGY CLASSICS**

**CODE:19PY/UI/PC23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To help students understand and appreciate the process of self-taught material.
- To instill a deeper understanding of the self.
- To develop knowledge about the work of influential psychologists.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Demonstrate knowledge of a few classical theories in psychology.
- Connect and compare learnt material with mainstream theories.
- Apply learnt material to other course work.
- Develop the skills required to draft a self-learning plan/schedule.
- Interpret and analyse original work of eminent psychologists.

**Unit 1**

**Introduction to Personality Theories**

- 1.1 Meaning and Definition of Personality
- 1.2 Personality and Human Nature
- 1.3 Myers Briggs- Understanding Personality Type
- 1.4 John Bowlby- Attachment Theory

**Unit 2**

- 2.1 Mihaly Csikszentmihalyi- Creativity: Flow and the Psychology of Discovery and Invention
- 2.2 Daniel Goleman- Working with emotional intelligence

**Unit 3**

- 3.1 V.S. Ramachandran- Phantoms in the Brain
- 3.2 RD Laing- The divided self: A study of sanity and madness

**Unit 4**

- 4.1 Alfred Kinsey- Sexual Behavior in the human female
- 4.2 Harry Harlow- The nature of love

**Unit 5**

- 5.1 Otto Rank- The Trauma of Birth
- 5.2 Flora Rheta Schreiber- Sybil

### **BOOKS FOR STUDY**

Butler-Bowdon, T. (2007). *50 Psychology Classics: Who We Are, How We Think, What We Do Insight and Inspiration from 50 Key Books*.

Rank, O. (1999). *The Trauma of Birth*. London, England: Psychology Press.

Schreiber, F. R. (1975). *Sybil: The True Story of a Woman Possessed by Sixteen Separate Personalities*.

### **WEB RESOURCES**

<https://www.youtube.com/watch?v=c7-ieoYsPQ4>

[https://www.youtube.com/watch?v=\\_DeuGU6KiZc](https://www.youtube.com/watch?v=_DeuGU6KiZc)

### **PATTERN OF ASSESSMENT**

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086**

**B.Sc. DEGREE : PSYCHOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PERSONALITY ENRICHMENT**

**CODE:19PY/UI/PE23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE:**

- To help students understand themselves in relationship with others
- To enable students improve their Personal and Communication Skills
- To enable to students to effective manage stress.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Define personality in the psychological context
- Demonstrate an understanding on the various factors that determine personality
- Exhibit an enhanced understanding of oneself
- Display better interpersonal relations and assertive style of conflict resolution
- Possess an improved sense of stress management

**Unit 1**

**Introduction to Personality**

- 1.1 Overview of Determinants of Personality: Physical, Intellectual, Emotional, Social, Education, Sex, and Family

**Unit 2**

**Getting Acquainted with Ourselves**

- 2.1 Self-Discovery
- 2.2 Self-Disclosure- Advantages; Johari Window
- 2.3 Self-Esteem- Strategies to improve Self- Esteem
- 2.4 Values- Development of Values, Clarifying Personal Values

**Unit 3**

**Interpersonal Communication and Relationships**

- 3.1 Communication Process
- 3.2 Verbal and Nonverbal Communication
- 3.3 Listening- Barriers to Listening
- 3.4 The Fear of Getting Acquainted- Inaccuracy in Social Perception
- 3.5 Developing Positive Relationships

**Unit 4**

**Resolving Interpersonal Conflict**

- 4.1 Causes of Conflicts
- 4.2 Positive and Negative effects of Conflicts
- 4.3 Behaviour Styles of Conflict Management
- 4.4 Learning to be Assertive

## **Unit 5**

### **Emotions & Stress**

5.1 Characteristics of Emotions

5.2 Dealing with Emotions like Fear, Anxiety, Anger and Guilt

5.3 Stress- Causes

5.4 Tips for Managing Stress

## **BOOKS FOR STUDY**

Hurlock, Elizabeth .*Personality Development*. New Delhi: Tata McGraw Hill Publishing Co, Ltd. 2003.

Walker, Velma. Lynn Brooke. *Becoming aware*, Iowa: Kendall/Hunt Publishing Company.2009.

## **BOOKS FOR REFERENCE**

Kindler, Herbert S., Ginsburg, Marilyn. *Measure and Manage Stress*. C.A: Crip Publications and Inc.2004.

Schwebel, Andrew, I. Harvey, A. Barocas. *Personal Adjustment and Growth*. U.S.A: Wm.C.Brown Publishers. 2000.

## **WEB RESOURCES**

Stress

<https://www.youtube.com/watch?v=O0OkAs8nD0k>

Johari Window

[https://i.ytimg.com/vi\\_webp/-7FhcvoVK8s/mqdefault.webp](https://i.ytimg.com/vi_webp/-7FhcvoVK8s/mqdefault.webp)

## **PATTERN OF ASSESSMENT**

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A: 10 x 3 = 30 Marks (all 10 questions to be answered in 50 words each)

Section B: 5 x 8 = 40 Marks (5 out of 8 questions to be answered in 250 words each)

Section C: 2 x 15 = 30 Marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.C.A. / B.S.W. DEGREE**

**FOUNDATION COURSE : SANSKRIT**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-I</b>									
19SN/FC/VN13	Vyakarana and Niti Dvisastika	3	3	1	0	3	50	50	100
<b>SEMESTER-II</b>									
19SN/FC/RR23	Ramodanta and Ramayana	3	3	1	0	3	50	50	100
<b>SEMESTER-III</b>									
19SN/FC/MN33	Mahabharata and Nalopakhyanam	3	3	1	0	3	50	50	100
<b>SEMESTER-IV</b>									
19SN/FC/KA43	Karnabharam and Alankara	3	3	1	0	3	50	50	100
<b>GENERAL ELECTIVE COURSES</b>									
19SN/GE/SB22	Sanskrit for Beginners	2	2	0	0	-	50	-	100
19SN/GE/SR22	Stress Relieving Techniques in Sanskrit Literature	2	2	0	0	-	50	-	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE**

**SYLLABUS**

Effective from the academic year 2019-2020

**FOUNDATION COURSE–SANSKRIT**

**VYAKARANA AND NITI DVISASTIKA**

**CODE:19SN/FC/VN13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVE OF THE COURSE**

- To encourage and motivate students to practice the pragmatic moral and ethical codes embedded in Gnostic & Didactic forms of lyrical poems of Sanskrit Literature.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify alphabets of Sanskrit language
- read and write simple words and to know the meanings of limited vocabulary
- conjugate and decline similar verbs and nouns respectively.
- understand the broad classification of Sanskrit literature.
- appreciate and imbibe didactic codes prescribed in Nitikavyas of Sanskrit Literature

**Unit 1 (7 Hours)**

**Basics of Sanskrit**

- 1.1 Introduction to Language
- 1.2 Introduction to Alphabets Of Sanskrit
- 1.3 Swara Vyanjana- Samyuktakshara, Linga(Gender), Vacana(Number), Purusha(Person)
- 1.4 Sabdas(Nouns), Dhatus (Verbs)

**Unit 2 (15 Hours)**

**Vyakarana**

- 2.1 Introduction to Reading and Writing –2 &3 Letter Words,
- 2.2 Sabdas (Noun) Declension with Vibhakti artha
- 2.3 Decline ‘a’ ending Masculine and ‘aa’ ending Feminine Nouns
- 2.4 Dhatu (Verb) Conjugation in Present Tense (Parasmaipada only)
- 2.5 Sandhi- Vowel & Consonant
- 2.6 Simple Sentence Constructions (using Present tense)
- 2.7 Translation exercises for simple sentences

**Unit 3 (10 Hours)**

**History of Sanskrit Literature**

- 3.1 Introduction to Sanskrit Literature,
- 3.2 Classification of Literature

- 3.3 Important Works of Sanskrit Khandakavyas & Gnostic Poetry  
3.4 Introduction to Niti Kavyas and some important authors of gnostic genre

**Unit 4 (10 Hours)**

**Niti Dvisastika**

- 4.1 Introduction to Sundarapandya and his Gnostic work Nitidvisastika  
4.2 Selected verses of Nitidvisastika (1-5 )  
4.2.1 Selected verses of Nitidvisastika 6-10)

**Unit 5 (10 Hours)**

- 5.1 Selected verses of Nitidvisastika (11-15 )  
5.2 Selected verses of Nitidvisastika (16-20 )  
5.2.1 Selected verses of Nitidvisastika (21-25 )

**TEXT BOOKS**

*Samskrta Pustika I* (Compilation of Vyakarana & Nitidvisastika) prepared by Dr.R.Subasri,  
Stella Maris College, Chennai

**BOOKS FOR REFERENCE**

SamskrtaSri (Part 1-3)

*Nitidvisastika of Sundarapandya*, cr.ed by Dr.S.Jayasree, The Adyar Library and Research  
Centre, Chennai, 1984

Sanskrit for beginners by Dr.Ramaratnam, N.R. Publications, Chennai, 2000

*A Short History of Sanskrit Literature*, by T.K.RamachandraAiyar, R.S.Vadhyar&Sons,  
Palghat, 2011.

*History of Sanskrit Literature* by A.A.Macdonell

**WEBSITES**

[www.learnsanskrit.org](http://www.learnsanskrit.org)

[www.sanskrit.samkrtam.com](http://www.sanskrit.samkrtam.com)

<http://shastranethralaya.org>

[www.forum.shastranethralaya.org](http://www.forum.shastranethralaya.org)

[www.sanskritebooks.org](http://www.sanskritebooks.org)

<https://grammarofsanskrit.wordpress.com/>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

### **SECTION A**

- I 5x3=15 All questions to be answered  
All questions are based on Grammar

### **SECTION B**

- II 3x5=15 Any three out of five questions to be answered  
Annotate and explain - two questions are choice based on Nitidvisastika  
Three text based questions on Khanda kavyas- Gnostic poems

### **SECTION C**

- III 2x10=20 Any two questions to be answered out of three  
Questions based on Grammar, Nitidvisastika and History of Sanskrit Literature

**Other Components:**

**Total Marks: 50**

- i) Assignment
- ii) Flash cards on Verbs and Nouns (Vyakarana)
- iii) MCQ Test on Khandakavyas – Authors and Words

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

### **SECTION A**

- (10x3=30) Answer any 10 questions out of 12  
Questions 1-4 based on Nitidvisastika  
Question 5 on Give the meanings {simple words from the text} in English  
Questions 6-10 based on History of Sanskrit Literature – Khandakavya-Gnostic poems.  
Questions 11 & 12 based on Grammar .

### **SECTION-B**

- (5x8=40) Answer any 5 questions out of 8  
Questions 13 – 15 based on Text (Nitidvisastika)  
Questions 16 –18 based on History of Sanskrit Literature- Khandakavya- Gnostic poems  
Question No: 19 &20 based on Grammar-Translation

### **SECTION-C**

- (3x10=30) Answer any 3 questions out of 5  
Questions 21 & 22 on texts based on Text (Nitidvisastika)  
Questions 23 & 24 on History of Sanskrit Literature – Khandakavya-Gnostic poems  
Question 25 based on Grammar.



**STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE**

**SYLLABUS**

Effective from the academic year 2019-2020

**FOUNDATION COURSE – SANSKRIT**

**RAMODANTA AND RAMAYANA**

**CODE:19SN/FC/RR23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVE OF THE COURSE**

- To acquaint the students with the rich treasures of Sanskrit Literature through short lyrical verses of Devotional type and Classical Indian Epic- Ramayana.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the use of Prefix and Indeclinable in Sanskrit language
- change affirmative sentences to interrogative sentences
- trace the historical importance of Indian Classical Epic – RAMAYANA
- appreciate the wide range of Devotional lyrics of Sanskrit literature and importance of Bhakti movement in Indian History.
- observe the influence of Epic Ramayana over other later Sanskrit Literature

**Unit 1 (12 Hours)**

**Vyakarana**

- 1.1 Declension of Masculine & Feminine Noun ending in 'i' and 'u'
- 1.2 Verb Conjugation in Past and Future tense (Parasmai pada only)
- 1.3 Avyayas, Upasargas
- 1.4 Krdanta Pratyayas (Ktva, Lyap and Tumun),
- 1.5 Simple Interrogative Sentences,
- 1.6 Simple Sentence Construction using Avyayas, Upasargas, Pratyayas
- 1.7 Simple Translation Exercises

**Unit 2 (15 Hours)**

**Ramodanta**

- 2.1 Introduction to Ramodanta- the lyrical work based on Ramayana
- 2.2 Introduction to Bhakti kavyas and Ramayana based other Sanskrit works
- 2.3 Selected verses from Ramodanta (Balakanda)

**Unit 3 (5 Hours)**

**Ramayana**

- 3.1 Introduction to Ramayana- Origin, Date of the Epic & Development
- 3.2 Authorship of Ramayana
- 3.3 Kandas of the Epic-Ramayana
- 3.4 Influence of Ramayana in later Sanskrit Literature.

**Unit 4** **Ramodanta** **(10 Hours)**  
4.1 Selected verses from Ramodanta (Ayodhya kanda)  
4.2 Selected verses from Ramodanta (Aranya kanda)  
4.3 Selected verses from Ramodanta (Kishkinda kanda)

**Unit 5** **Ramodanta** **(10 Hours)**  
5.1 Selected verses from Ramodanta (Sundara kanda)  
5.2 Selected verses from Ramodanta (Yuddha kanda)

### TEXTBOOKS

*Samskrta Pustika II* (Compilation of Vyakarana & Ramodanta) prepared by Dr.R.Subasri, Stella Maris College, Chennai

### BOOKS FOR REFERENCE

SamskrtaSri (Part 4-6)

*Ramodanta*(Sanskrit text with translation) <http://hinduebooks.blogspot.com>

*Ramakatha*, Samskrta bhasa Pracarini Sabha, Chittoor, 2001

*A Short History of Sanskrit Literature*, by T.K.RamachandraAiyar, R.S.Vadhyar&Sons, Palghat, 2011.

*History of Sanskrit Literature* by A.A.Macdonell

*Poems from the Sanskrit* by John Brough, Penguin Publication,1977

### WEBSITES

[www.learnsanskrit.org](http://www.learnsanskrit.org)

[www.sanskrit.sankrtam.com](http://www.sanskrit.sankrtam.com)

<http://shastranethralaya.org>

[www.forum.shastranethralaya.org](http://www.forum.shastranethralaya.org)

[www.sanskritebooks.org](http://www.sanskritebooks.org)

<https://grammarofsanskrit.wordpress.com>

<http://hinduebooks.blogspot.com>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

### **SECTION A**

I 5x3=15 All questions to be answered  
All questions are based on Grammar

### **SECTION B**

II 3x5=15 Any three out of five questions to be answered  
Annotate and explain - two questions are choice based on Ramodanta  
Three text based questions on Khandakavyas- Bhakti /Devotional poems

### **SECTION C**

III 2x10=20 Any two questions to be answered out of three  
Each based on Grammar , Ramodanta and History of Sanskrit literature

**Other Components:**

**Total Marks: 50**

- i) Assignment
- ii) Recitation on Ramodantam
- iii) MCQ Test on Vyakarana

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 Hours**

### **SECTION A**

(10x3=30) Answer any 10 questions out of 12

Questions 1-4 based on Sri Ramodanta  
Question 5 on Give the meanings {simple words from the text} in English  
Questions 6-10 based on History of Sanskrit Literature- Ramayana  
Questions 11 & 12 based on Grammar

### **SECTION-B**

(5x8=40) Answer any 5 questions out of 8

Questions 13 – 15 based on Text Sri Ramodanta  
Questions 16 –18 based on History of Sanskrit Literature- Ramayana  
Question No: 19 &20 based on Grammar- Translation , Verb Conjugation

### **SECTION-C**

(3x10=30) Answer any 3 questions out of 5

Questions 21 & 22 on texts based on Sri Ramodanta  
Questions 23 & 24 on History of Sanskrit Literature- Ramayana  
Question 25 based on Grammar (Declension)

**STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.S.W. DEGREE**

**SYLLABUS**

Effective from the academic year 2019-2020

**FOUNDATION COURSE – SANSKRIT**

**MAHABHARATA AND NALOPAKHYANAM**

**CODE:19SN/FC/ MN33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVE OF THE COURSE**

- To facilitate the students to read and appreciate the Sanskrit Poetry and to understand the greatness of Classical Indian Epic- Mahabharata

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand and use Sarvanama sabdas (Personal Pronouns) in simple sentences
- trace the historical importance of Indian Classical Epic – MAHABHARATAM
- conjugate verbs in Imperative form and Potential mood
- observe the influence of Epic Mahabharatam over other later Sanskrit Literature
- translate sentences from English to Sanskrit.

**Unit 1 (12 Hours)**

**Vyakarana**

- 1.1 Declension of Personal pronouns (Sarvanama sabdas) and Interrogative Pronouns
- 1.2 Upapada vibhakti and usage
- 1.3 Conjugations of selected verbs in Imperative form and Potential mood
- 1.4 Sentences using Personal pronouns and Imperative forms of verbs etc
- 1.5 Simple Translation exercises

**Unit 2 (10 Hours)**

**Mahabharata**

- 2.1 Introduction to Mahabharata
- 2.2 Stages of development of the Epic and Date of the Epic
- 2.3 Parvas/ Books of Mahabharata and Harivamsa
- 2.4 Influence of Mahabharata in later Sanskrit literary works

**Unit 3 (10 Hours)**

**Nalopakhyanam**

- 3.1 Nalopakhyanam Selected verses (Adhyaya 50 & 51)

**Unit 4** (10 Hours)  
**Nalopakhyanam**  
4.1 Nalopakhyanam Selected verses (Adhyaya 52&53)

**Unit 5** (10 Hours)  
**Nalopakhyanam**  
5.1 Nalopakhyanam Selected verses (Adhyaya 54)

### TEXT BOOKS

*Samskrita Pustika III* (Compilation of Vyakarana & Nalopakhyanam) prepared by  
Dr.R.Subasri, Stell Maris College, Chennai

### BOOKS FOR REFERENCE

SamskritaSri (Part 4-6)

*Nalopakhyanam*, (Mahabharata Vana Parva, Chapters 50 to 54) by T.K.RamachandraAiyar,  
R.S.Vadhyar&Sons, Palghat, 2009.

*Nalopakhyanam*(Excerpts from Vyasa's Mahabharatam) Vanaparva (VI Chapter – 53 Section)

*The Story of Nala*, Text with Translation by Sir Monier Williams, Oxford Clarendon Press,  
1879

*A Short History of Sanskrit Literature*, by T.K.RamachandraAiyar, R.S.Vadhyar&Sons,  
Palghat, 2011.

### WEBSITES

[www.learn Sanskrit.org](http://www.learn Sanskrit.org)  
[www.sanskrit.samskritam.com](http://www.sanskrit.samskritam.com)  
<http://shastranethralaya.org>  
[www.forum.sastranethralaya.org](http://www.forum.sastranethralaya.org)  
[www.sanskritebooks.org](http://www.sanskritebooks.org)  
<https://grammarofsanskrit.wordpress.com>  
[www.vedicbooks.com](http://www.vedicbooks.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment:** **Total Marks: 50** **Duration: 90 minutes**

#### SECTION A

I 5x3=15 All questions to be answered  
All questions are based on Grammar

#### SECTION B

II 3x5=15 Any three out of five questions to be answered  
Annotate and explain - two questions are choice based on Nalopakhyanam  
Two questions based on Mahabharatam

**SECTION C**

III 2x10=20 Any two questions to be answered out of three

Questions based on Grammar, Mahabharatam and Nalopakhyanam

**Other Components:**

**Total Marks: 50**

i) Assignment

ii) Recitation on Nalopakhyanam

iii) MCQ Test on Vyakarana

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**SECTION A**

(10x3=30) Answer any 10 questions out of 12

Questions 1-4 based on Nalopakhyanam

Question 5 on Give the meanings {simple words from the text} in English

Questions 6-10 based on History of Sanskrit Literature- Mahabharata.

Questions 11 & 12 based on Grammar

**SECTION-B**

(5x8=40) Answer any 5 questions out of 8

Questions 13-15 based on Nalopakhyanam

Questions 16-18 based on History of Sanskrit Literature- Mahabharata.

Questions 19 & 20 based on Grammar- Translation & Conjugation

**SECTION-C**

(3x10=30) Answer any 3 questions out of 5

Questions 21 & 22 on texts based on Nalopakhyanam

Questions 23 & 24 on History of Sanskrit Literature- Mahabharata.

Question 25 based on Grammar.- Declension

**STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086**

**B.A. / B.Sc. / B.S.W. DEGREE**

**SYLLABUS**

Effective from the academic year 2019-2020

**FOUNDATION COURSE – SANSKRIT**

**KARNABHARAM AND ALANKARA**

**CODE:19SN/FC/KA43**

**CREDITS: 3**

**L T P: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVE OF THE COURSE**

- To enable the students to appreciate the Sanskrit Natakas (Indian Theatre art) to understand figures of speech and its application in Sanskrit literature

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the Indian Classical Theatre
- identify the influence of Sanskrit theatre over Greek theatre
- appreciate the contribution of playwright Bhasa to Sanskrit dramas.
- frame simple sentences using adjectives
- translate Non-Textual Passages.
- appreciate and understand the charm of Figures of Speech in Sanskrit Literature

**Unit 1**

**(10 Hours)**

**Vyakarana**

- 1.1 Adjectives
- 1.2 Conjugation-IV and X type (selected roots) Present tense
- 1.3 Declension- 'r' ending Masculine nouns
- 1.4 Non-Textual Translations,
- 1.5 Prose order for Simple Verses
- 1.6 Simple Comprehension

**Unit 2**

**(12 Hours)**

**Dasarupaka**

- 2.1 Introduction To Dramas,
- 2.2 Traditional and Secular Origin of Nataka and its Development,
- 2.3 Types of Sanskrit Dramas - Dasarupaka
- 2.4 Characteristics of Nataka,
- 2.5 Some Important Dramas of Sanskrit Literature
- 2.6 Allegorical Plays,
- 2.7 Bhasa's 13 Plays
  - 2.7.1 Authorship and Divisions of Bhasa's Plays

<b>Unit 3</b>	<b>(10 Hours)</b>
<b>Karnabharam</b>	
3.1 One Act Play – Bhasa’s Karnabharam (1-10)	
<b>Unit 4</b>	<b>(13 Hours)</b>
<b>Karnabharam</b>	
4.1 One Act Play – Bhasa’s Karnabharam (11-25)	
<b>Unit 5</b>	<b>(7 Hours)</b>
<b>Alankaras</b>	
5.1 Introduction to Alankaras from Candraloka	
5.2 Upama, Rupaka	
5.3 Svabhavokti , Ullekha	
5.4 Vyatireka, Vyajastuti	

### TEXT BOOKS

*Samskrta Pustika IV* (Compilation of Vyakarana & Bhasa’s Karnabharam) prepared by Dr.R.Subasri, SMC, Chennai

### BOOKS FOR REFERENCE

SamskrtaSri (Part 6-7)

*Candraloka* by Jayadeva

*Kuvalayanandam*, of AppayyaDikshita, R.S.Vadhyar & Sons, Palghat, 1992

*Karnabharam* of Bhasa, Bhasanatakachakram, CR.Devdhar, MLBD.

*Bhasa Natakachakra* Translations and Notes by A.C.Woolner.

*A Short History of Sanskrit Literature*, by T.K.RamachandraAiyar, R.S.Vadhyar & Sons, Palghat, 2011

### WEBSITES

[www.learnsanskrit.org](http://www.learnsanskrit.org)

[www.sanskrit.samkrtam.com](http://www.sanskrit.samkrtam.com)

<http://shastranethralaya.org>

[www.forum.shastranethralaya.org](http://www.forum.shastranethralaya.org)

[www.sanskritebooks.org](http://www.sanskritebooks.org)

<https://grammarofsanskrit.wordpress.com>

[www.vedicbooks.com](http://www.vedicbooks.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

#### SECTION A

I 5x3=15 All questions to be answered

All questions are based on Grammar

#### SECTION B

II 3x5=15 Any three out of five questions to be answered

Annotate and explain - two questions are choice based from text Karnabharam



Two questions based on Bhasa's 13 plays  
One question on Grammar- Translation

### SECTION C

III 2x10=20 Any two questions to be answered out of three  
Questions based on Grammar, Karnabharam, Other important dramas of Sanskrit literature

**Other Components: Total Marks: 50**

- i) Assignment
- ii) Drama Reading (Role play)
- iii) MCQ Test on Vyakarana

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

### SECTION A

(10x3=30) Answer any 10 questions out of 12

Questions 1-4 based on Karnabharam  
Question 5 on Give the meanings {simple words from the text} in English  
Questions 6-8 based on History of Sanskrit Literature- Bhasa's Plays  
Questions 9&10 based on Alankaras  
Questions 11 & 12 based on Grammar

### SECTION-B

(5x8=40) Answer any 5 questions out of 8

Questions 13 & 14 based on Karnabharam  
Questions 15&16 based on Alankaras  
Questions 17 & 18 based on History of Sanskrit Literature.  
Questions 19 &20 based on Grammar- Comprehension, Non-Textual Passages

### SECTION-C

(3x10=30) Answer any 3 questions out of 5

Questions 21 & 22 on texts based on Karnabharam  
Questions 23 & 24 on History of Sanskrit Literature- Bhasa, 13 plays,  
And other important Sanskrit dramas  
Question 25 based on Grammar- Declension.

**STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086**

**General Elective Course Offered by the Department of Sanskrit for  
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE**

**SYLLABUS**

Effective from the academic year 2019-2020

**SANSKRIT FOR BEGINNERS**

**CODE:19 SN/GE/SB22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- Practical applicability of the Language is encouraged
- Opportunity to speak the language fluently.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- read write and speak Sanskrit language

**Unit 1 (11 Hours)**

**Introduction**

- 1.1 Introduction to language Sanskrit
- 1.2 Introduction to Alphabets, Verbs, Nouns

**Unit 2 (10 Hours)**

**Nouns and Verbs**

- 2.1 Introducing two letter words
- 2.2 Three letter words
- 2.3 Samasa(compound words)
- 2.4 Tense and Moods
- 2.5 Noun declension
- 2.6 Sentence translations

**Unit 3 (5 Hours)**

**Translation**

- 3.1 Exercises from unknown passages for translation.

**TEXT BOOKS**

Spoken Sanskrit by Dr. S.S.Janaki , KSRI Publication, Chennai-600004

## **BOOKS FOR REFERENCE**

Samskrta Sri (Series1-7), Samskrta Sri Publications, Bangalore, 2015

Samskrta Patamala (Series 1-7), R.S Vadyar & Sons, Phalghat

Sanskrit for Beginners, N.R. Publications, Chennai

## **WEBSITES**

[www.learnsanskrit.org](http://www.learnsanskrit.org)

[www.sanskrit.samkrtam.com](http://www.sanskrit.samkrtam.com)

## **PATTERN OF EVALUATION**

**Continuous Assessment Test:**

Situational conversation (25 Marks)

**Total Marks: 25**

**Duration: 60 minutes**

**Other Components:**

A presentation about themselves (10 Marks)

My favorite Location/Holiday trip etc (15 Marks)

**Total Marks: 25**

**STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086**

**General Elective Course Offered by the Department of Sanskrit for  
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE**

**SYLLABUS**

Effective from the academic year 2019-2020

**STRESS RELIEVING TECHNIQUES IN SANSKRIT LITERATURE**

**CODE:19SN/GE/SR22**

**CREDITS : 2**

**LTP : 2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To adapt Ayurveda methods of good health to suit the modern living
- To practice the simple steps prescribed in Sanskrit texts for stress management.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Implement healthy eating habits as prescribed in Ayurveda thus enabling them to live stress free life
- De-stress themselves by following Ayurvedic advice on health and by practicing relevant yoga asanas

**Unit 1 (4 Hours)**

**Introduction**

- 1.1 Introduction
- 1.2 Modern life style
- 1.3 Causes of stress

**Unit 2 (10 Hours)**

**Ayurveda and Health**

- 2.1 Role of Mind in attaining physical, mental and spiritual health
- 2.2 Ayurvedic references on food (Vata, Pitta and Kapha) and control of stress
- 2.3 Mind control references from Bhagavad Gita and Upanishads.
- 2.4 Energy chakras and Yoga asanas.

**Unit 3 (12 Hours)**

**Yoga in Managing Stress**

- 3.1 Practical sessions on Asanas and Pranayama to manage stress

**TEXTBOOK**

Bhagavad Gita Shri Bhavans Publications

108 Upanishads Shri Bhavans Publications

Ayurveda for health

## BOOKS FOR REFERENCE

David Frawley, (1999), *Yoga and Ayurveda*, MLBD, Delhi

Witz, Klaus.G (1993) , *The supreme Wisdom of the Upanishads*, MLBD, Delhi

Joshi Kireet (1993), *Bhagavad gita and Contemporary Crisis*, Nag publishers, Delhi

## WEBSITES

[www.indiaheritage.org](http://www.indiaheritage.org)

[www.sanskritdocuments.org](http://www.sanskritdocuments.org)

[www.vedpradip.com](http://www.vedpradip.com)

## PATTERN OF EVALUATION

**Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

25 questions on Ayurvedic diet, Yoga Asanas etc. with multiple choice each carrying one mark

**Other Components:**

**Total Marks: 25**

Yoga Asanas practical demo of Asanas (25 Marks)

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE(AUTONOMOUS), CEHNNAI – 600 08**

**DEPARTMENT OF SOCIOLOGY**

**PROGRAM DESCRIPTION**

Sociology Programme aims to develop sociological imagination among students. This involves the ability to understand how individual and group behavior is influenced by society's past and present developments. The so called personal issues are in fact connected to societal structure and problems and Sociological perspective provides an objective view of these issues. This imaginative ability will promote critical thinking for effective participation in professional and personal affairs.

**PROGRAMME SPECIFIC LEARNING OUTCOMES**

At the end of a Undergraduate programme in Sociology, students will be able to

- Develop sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues.
- Demonstrate effective and convincing written and/or oral arguments
- Demonstrate an understanding of, and the ability to use, several of the major classical and/or contemporary perspectives in social theory.
- Develop the ability to demonstrate an understanding of several of the major social science research methodologies.
- Demonstrate an understanding of gender issues.
- Diverse papers and certificate courses offered by the department will enhance their employability skills



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. DEGREE : BRANCH III-SOCIOLOGY**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
19SC/MC/PS14	Principles of Sociology I	4	4	1	0	3	50	50	100
19SC/MC/IS13	Sociology of Indian Society	3	3	1	0	3	50	50	100
19SC/AC/SG15	Social Gerontology	5	5	0	0	3	50	50	100
19SC/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
19SC/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
SEMESTER-II									
19SC/MC/PS24	Principles of Sociology II	4	4	1	0	3	50	50	100
19SC/MC/DI24	Development of Indian Social Thought	4	4	1	0	3	50	50	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective-I	2	2	0	0	-	50	-	100
SEMESTER-III									
19SC/MC/DS34	Development of Social Thought	4	4	1	0	3	50	50	100
19SC/MC/SR34	Social Research and Social Statistics	4	4	1	0	3	50	50	100
19SC/AC/GE35	Sociology of Gender	5	5	0	0	3	50	50	100
19SC/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective-II	2	2	0	0	-	50	-	100
SEMESTER-IV									
19SC/MC/ST44	Sociological Theory	4	4	1	0	3	50	50	100
19SC/MC/SD44	Sociology of Development	4	4	1	0	3	50	50	100
19SC/AC/SA45	Social Anthropology	5	5	0	0	3	50	50	100
	Major Elective-I								
SEMESTER-V									
19SC/MC/SM54	Sociology of Media	4	4	1	0	3	50	50	100
19SC/MC/CV54	Sociology of Crime and Victims	4	4	1	0	3	50	50	100
19SC/MC/ER54	Sociology of Ethnic Relations	4	4	1	0	3	50	50	100
19SC/MC/UR53	Urban and Rural Sociology	3	3	1	0	3	50	50	100
Interdisciplinary Core Courses (SC and ZL) to students of Sociology and Zoology									
19ID/IC/SZ55	Socioethnozoology	5	5	1	0	3	50	50	100
	General Elective-III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100
SEMESTER-VI									
19SC/MC/SR64	Sociology of Religion	4	4	1	0	3	50	50	100
19SC/MC/ES64	Environmental Sociology	4	4	1	0	3	50	50	100
19SC/MC/SL63	Sociology of Law	3	3	1	0	3	50	50	100
19SC/MC/SM63	Social Movements	3	3	1	0	3	50	50	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.A. DEGREE : BRANCH III-SOCIOLOGY**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
<b>Subject Code</b>	<b>Title of Course</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Ex</b>	<b>CA</b>	<b>ES</b>	<b>M</b>
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective-II								
	General Elective-IV	2	2	0	0	-	50	-	100
<b>Major Elective Courses</b>									
19SC/ME/NG45	Non Governmental Organizations	5	5	0	0	3	50	50	100
19SC/ME/LS45	Logic and Scientific Methods	5	5	0	0	3	50	50	100
19SC/ME/IS45	Industrial Sociology	5	5	0	0	3	50	50	100
19SC/ME/CS45	Corporate Social Responsibility	5	5	0	0	3	50	50	100
19SC/ME/PR45	Project	5	0	0	5	-	-	100	100
<b>General Elective Courses</b>									
19SC/GE/SS22	Sociology of Sports	2	2	0	0	-	50	-	100
19SC/GE/SP22	Sociology of Popular Culture	2	2	0	0	-	50	-	100
19SC/GE/GS22	Gender Studies	2	2	0	0	-	50	-	100
19SC/GE/SM22	Society and Media	2	2	0	0	-	50	-	100
19SC/GE/SL22	Society and Law	2	2	0	0	-	50	-	100
<b>Indpendent Elective Courses</b>									
19SC/UI/SN23	Social Networking	3	0	0	0	3	-	100	100
19SC/UI/SE23	Social Entrepreneurship	3	0	0	0	3	-	100	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**  
**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF SOCIOLOGY I**

**CODE:19SC/MC/PS14**

**CREDITS: 4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To introduce the students to the basic concepts in Sociology.
- To acquaint the students with the discipline as a social science.
- To initiate a Sociological imagination of the society.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Develop broad knowledge of the discipline
- The students will develop analytical skills towards social issues
- Students will learn to approach issues with a Sociological imagination
- Students develop a social consciousness, leading to heightened sense of social responsibility.

**Unit: 1 (15 Hours)**

**Introduction**

1.1 Nature and Scope of Sociology

1.2 Definition, Subject Matter

1.3 Sociology as Science, Importance of Sociology

**1.4 Relationship to other Social sciences**

1.4.1 History

1.4.2 Political Science

1.4.3 Economics

1.4.4 Anthropology

1.4.5 Philosophy

1.4.5 Psychology

**Unit: 2 (12 Hours)**

**Primary Concepts**

2.1 Society

2.2 Community

2.3 Institutions

2.4 Association

2.5 Status and Role

**Unit: 3** (12 Hours)

**Socialisation**

3.1 Definition, Process of Socialisation

3.2 Theories of Socialisation

3.3 Agencies of Socialisation: Family, Peer Group, School, Neighbourhood, Mass Media, Religion, and State.

**Unit: 4** (13 Hours)

**Social groups**

4.1 Definition, Classification

4.2 Characteristics of Social Groups

4.3 Types of Social Groups.

4.4 Functions of primary and secondary groups

**Unit: 5** (13 Hours)

**Culture**

5.1 Definition, elements of culture

5.2 Characteristics, significance of culture

**5.3 Cultural Processes**

5.3.1 Assimilation

5.3.2 Diffusion

5.3.3 Acculturation

5.3.4 Cultural Lag

5.3.5 Culture Shock

**BOOKS FOR STUDY**

Applebaum, Richard P., William J. Chambliss, *Sociology*, Addison - New York Wesley Educational Publishers inc., 1997.

Harlambo, M, *Sociology : Themes and Perspectives*. New Delhi: Oxford University Press, 1980.

**BOOKS FOR REFERENCE**

Caplow, Theodore, *Elementary Sociology*. New Jersey: Prentice Hall., Inc. 1971.

Duncan, O.D., & Mitchell, R., *A New Dictionary of Sociology*, London: Routledge, Kegan Paul 1978.

Inkeles, Alex, *Foundations of Modern Sociology*. New Jersey: Prentice Hall ., Inc. 1982.

MacIver, R.M. & Page, C. H., *Society : An Introductory Analysis*. London: Macmillan Press Limited, 1974.

Ogburn, W.F. & Nimkoff, M. F., *Handbook of Sociology*. New Delhi: Eurasia Publishing House, 1966.

Robertson, Ian, *Sociology*. New York: Worth Publishers., Inc., 1977.

**WEB RESOURCES**

<http://ocw.mit.edu/courses/anthropology/21a-219-law-and-society-spring-2003/study-materials/hobasicconcepts.pdf>

[http://www.sagepub.com/upm-data/45619\\_4.pdf](http://www.sagepub.com/upm-data/45619_4.pdf)

## **JOURNALS**

<http://www.asanet.org/>

<http://www.britsoc.co.uk/>

<http://www.sociology.org/>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

### **Other Components:**

**Total Marks: 50**

Seminar/Quiz/Assignments

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIOLOGY OF INDIAN SOCIETY**

**CODE:19SC/MC/IS13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the intriguing aspects of Indian Society
- To acquaint students about changes occurring in Indian Society
- To understand the issues and challenges of Indian Society

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the nature of Indian social reality
- comprehend the differences and similarities with Indian Society and Western Society
- actively engage in intellectual discourses facilitating progressive change
- equip the students to analyse and comment on the contemporary challenges of the Indian society

**Unit 1 (10 Hours)**

**Overview of Indian Society**

- 1.1 Basis of Indian Society- Historical and Cultural
- 1.2 Sociology of the composition of Indian Society- Racial, Religious, Linguistic Groups in India
- 1.3 Indian Pluralism and Multi-Culturalism

**Unit 2 (10 Hours)**

**Basis of Indian Social Organization**

- 2.1 Purusharthas, Karma, Varnashrama Dharma
- 2.2 Jainism, Buddhism-Karma
- 2.3 Islam, Christianity-Basic Tenets.

**Unit 3 (10 Hours)**

**Caste in India**

- 3.1 Meaning of the Caste system
- 3.2 Varna, Jati and Casteism
- 3.3. Caste and Politics
- 3.4 Changing dimensions of caste system
- 3.5 Castes among the Hindus, Muslims and Christians

**Unit 4 (11 Hours)**

**Social Structure and Institutions in India**

- 4.1 Marriage in India: Hindu, Muslim and Christianity
- 4.2 Family: Definition, structure and functions of Family
- 4.3 Types of family; Changes in the family system and factors of changes in the family
- 4.4 Village structure and Change

**Unit 5 (11 Hours)**

**Tradition and Modernity: Continuity and change**

- 5.1 Sanskritization
- 5.2 Islamization
- 5.3 Westernization
- 5.4 Secularization
- 5.5 Urbanization

**BOOKS FOR STUDY**

Ahuja, Ram., Society in India : Concepts, Theories and Changing Trends. Jaipur: Rawat Publications, 1999.

Dube S C, Indian Society. New Delhi : NBT 1995 16

**BOOKS FOR REFERENCE**

Das, Veena Ed. The Oxford India Companion to Sociology and Social Anthropology, New Delhi: Oxford University Press. 2003 (Selected Essays).

Gupta Dipankar (ed). Social Stratification, New Delhi: Oxford University Press,. 1991

Hutton, J. K., Caste in India: Its Nature, Function, and Origin. New Delhi: Oxford University Press, 1977.

Jayabalan N., Indian Society and Social Institutions, New Delhi, Atlantic Publishers, 2001

Mandelbaum David. G, Society in India Vol 1 and 2, Popular Prakasham, 2008

Prabhu, P.H, Hindu Social Organization. Madras: Popular Prakasham, 1970.

Singh, Yogendra, Modernization of Indian Tradition. New Delhi: Thompson Press, 1973.

Srinivas, M.N., Social Change in Modern India. Madras: Allied Publishers, 1970.

Venugopal, Religion and Indian Society: A Sociological Perspective. New Delhi, Gyan Publishing house, 1999.

Verma R.C. Indian Tribes through the Ages, Government of India Publication. 1995

**WEB RESOURCES**

<http://www.hinduwedding.info/marriage-ceremony.html>

[http://dev.epw.in/system/files/pdf/1961\\_13/25/sanskritization\\_and\\_westernizationa\\_dynamic\\_view.pdf](http://dev.epw.in/system/files/pdf/1961_13/25/sanskritization_and_westernizationa_dynamic_view.pdf)

<http://voiceofdharma.org/books/imwat/ch6.htm>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:****Total Marks: 50**

Seminar/Quiz/Assignments

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A –  $10 \times 2 = 20$  marks (All 10 questions to be answered in 50 words each)Section B –  $5 \times 8 = 40$  marks (5 out of 8 questions to be answered in 250 words each)Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1200 words each)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III - SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIAL GERONTOLOGY**

**CODE:19SC/AC/SG15**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce to the students to the concept of Social Gerontology.
- To understand the Sociological aspects of aging.
- To understand the problems of the aged, the course provides an understanding of human aging as a combination of psychological, social, and biological processes.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Students develop knowledge-based approach from learning and using
- theories of aging; biological, psychological, and social aspects of aging; and diseases of aging
- The course provides the academic background necessary to practice in the field of aging or to further specialize in the field of gerontology
- Students will become advocate for older adults and increase public awareness of needs and services
- The course helps to build a sociological understanding of 'Aging' as a layer in comprehending individuals and groups in the society

**Unit 1 (12 Hours)**

**Introduction to Social Gerontology**

- 1.1 Definition
- 1.2 Evolution of Social Gerontology
- 1.3 Scope and Importance
- 1.4 Gerontology and Social Gerontology
- 1.5 Gerontology & Geriatrics.

**Unit 2 (15 Hours)**

**Theories of Aging**

- 2.1 Biological Theories
- 2.2 Psychological Theories
- 2.3 Sociological Theories**
  - 2.3.1 Disengagement Theory
  - 2.3.2 Activity Theory
  - 2.3.3 Subculture Theory
  - 2.3.4 Social Exchange Theory
  - 2.3.5 Conflict Theory
  - 2.3.6 Age Stratification Theory.

**Unit 3 (12 Hours)**

**Understanding the aged**

**3.1 Dimensions of ageing**

3.1.1 Demographic Aspects

3.1.2 Physical Aspects

3.1.3 Social Aspects

**3.2 Support systems for the aged**

3.2.1 Family

3.2.2 Relatives / Kin

3.2.3 Friends

3.2.4 Religion

**3.3 Institutional Care**

**Unit 4 (13 Hours)**

**Problems of the Aged**

4.1 Health and Social determinants of Health

4.2 Housing

4.3 Employment

4.4 Retirement

4.5 Exploitation

4.6 Problems of the aged Women

4.7 Institutionalisation of the Care of the Aged

**Unit 5 (13 Hours)**

**Re-examining the concept of the aged**

5.1 Old age Programmes

5.2 Social Legislations in India

5.3 Global Aging, Positive Aging

5.4 Future of Ageing

5.6 Field Visit

**BOOKS FOR STUDY**

Bali, P. Arun, *Understanding Greying People of India*. New Delhi: Inter India Publication, 1999.

Bai, Thara. L., *Ageing Indian Perspectives*. New Delhi: Decent Books, 2002.

**BOOKS FOR REFERENCE**

Arthur. N. Schwartz and Anne Fonner, *Introduction to Gerontology*. New York Holt: Rinehart and Winston, 1979.

David Repetto (editor) *Aging*, 7th Edition, New Delhi, Sage Publication, 2012

Hooyman Nancy R., Kiyak Asuman h., *Social Gerontology: a multidisciplinary perspective*, New York, 1988

Kunkel, Suzanne, Leslie Morgan, *Ageing: The Social Context*. California: Sage Publications, 1998.

Loethur, Herman. J., *Problems of Ageing, Sociological & Social Psychological Perspectives*. California: Dickenson Publishing Company. Inc., 1967.

Mc Clymont, Mary. Silvea Thomas Michael J. Denham, *Health Visiting and the Elderly*. U.K: Longman Group UK Limited, 1986.

Rajan, S. Irudaya, Mishra, Sarkara Sharma P. *India 's Elderly: Burden or Challenge*. New Delhi: Sage Publication, 1999.

Russel A. Ward, *The Ageing Experience: An Introduction to Social Gerontology*. New Delhi: JB Lippincott Company, 1979.

Sharma M.L. and T.M. Dale, *Ageing in India, Challenge for Society*. New Delhi: Ajantha Publications, 1987

Tournier, Paul, *Learning to Grow Old*. London: SCM Press Ltd. 1973

## **JOURNALS, ADDITIONAL READING & WEB RESOURCES**

Considering Life Course Concepts- John Hendricks

<http://psychsocgerontology.oxfordjournals.org/content/67B/2/226.short>

Introduction: Critical Perspectives in Social Gerontology-Jan Baars, Dale Dannefer,Chris Phillipson and Alan Walker

<https://www.baywood.com/intro/358-5.pdf>

Study of the Life Course: Implications of Social Gerontology-Dale Dannefer and Richard.A.Settersten

<http://health.oregonstate.edu/sites/default/files/hallie-ford/pdf/biblio/the-sage-handbook-of-social-gerontology-chapter-1.pdf>

Understanding the Ageing Population of the World

<https://www.youtube.com/watch?v=x4r0S5qoIXc>

UN report into Ageing in developing countries. BBC News night report-2008

<https://www.youtube.com/watch?v=EY0AvDhqeN8>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:**

**Total Marks: 50**

Field Visit/Report Submission/Presentation

**End-Semester Examination:**

**Total Marks: 100**

**Duration:3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.A / B.Sc / B.Com / B.B.A. / B.C.A / B.V.A / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the Academic Year 2019–2020)

**ENVIRONMENTAL STUDIES**

**CODE:19SC/GC/ES12**

**CREDIT :2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To create an awareness on current environmental issues
- To educate the students about conservation and management of natural resources
- To make the students eco sensitive and ecofriendly

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Develop knowledge-based approach to understand the environment
- The course will enable the urgent and important need to relate to environment and society
- The course will help in understanding the varied political and economic relationships between society and the environment
- It will equip the understanding of the individual in relation to societal and environmental systems

**Unit 1 (6 Hours)**

**Introduction**

- 1.1 Components of the environment – Classification and characteristics of Resources – Renewable and non – renewable resources
- 1.2 Need for Public awareness in conservation of natural resources
- 1.3 Energy Flow in ecosystems – aquatic and terrestrial – food chain and food Web.

**Unit 2 (10 Hours)**

**Pollution and Socio Economic Aspects of the Environment**

- 2.1. Types of pollution – Air, Water, Solid Waste, Noise
- 2.2 .Problems - greenhouse effect – depletion of the ozone layer – climate Change
- 2.3. Bio diversity - Definition - Loss of bio diversity – Threats to biodiversity and Conservation of biodiversity.
- 2.4. Human behaviour: - Population – urbanization – poverty ( as cause and result of pollution and degradation)
- 2.5. Technology: - Agriculture and industry – deforestation. Use, Misuse and Abuse of the resources
- 2.6 Effects and consequences of environmental problems.

**Unit 3****(10 Hours)****Sustainable Development, Remedies and Policy Implications**

- 3.1 Environmental disasters natural and human made – Bhopal gas Tragedy – Chernobyl Accident – Fukushima Nuclear Crisis - Gulf War – Love Canal Episode – Tsunami – Volcanic eruptions.
- 3.2 Methods evolved to measure and check environmental degradation and pollution – carbon footprint, carbon credit, ecological footprint, and ecological shadow.
- 3.3 Environmental movements in India – Chipko movement, Narmada bachao Andolan, Sethu Samudram Project
- 3.4 Environmental Acts – Policy measures with respect to India.
- 3.5 International environmental agreement – Stockholm Conference – Montreal protocol – RIO Meet – Kyoto Conference – UN conference on Climate change (Copenhagen)

**Field visit**

Eco initiatives at the campus : Garbage segregation and Vermicomposting – Graywater recycling – Rainwater harvesting – Solar powered lights – Bio diversity.

**BOOKS FOR STUDY**

Bharucha, E., *Textbook of Environmental Studies*. (1st edition), Hyderabad: Universities Press, 2005.

**BOOKS FOR REFERENCE**

Ignacimuthu, S. *Environmental Awareness and Protection*. New Delhi: Phoenix Publishing House, 1997.

Jadhav, H and. Bhosale V. M., *Environmental Protection and Laws*. New Delhi: Himalaya Publication House, 1995.

Mies, M. and V. Shiva. *Ecofeminism*. London: Zed Books, 1989.

Odum, E.P., *Fundamentals of Ecology*. U.S.A: W.B. Saunders Co. 1971.

Singh, H.R., *Environmental Biology*. (1st edition), New Delhi: S.Chand and Co., Ltd., 2005.

**PATTERN OF ASSESSMENT (Totally Internal)****Continuous Assessment Test:****Total Marks : 25 Marks****Duration: 1 hour**

Objective Quiz – 25 Marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19SC/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PRINCIPLES OF SOCIOLOGY II**

**CODE:19SC/MC/PS24**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarise the students with static and dynamic aspects of the basic concepts in Sociology
- To enable students to develop sociological imagination
- To examine social change and its impact on society

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- develop sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues
- apply sociological concepts and theories to analyze issues related to social stratification
- apply sociological perspectives and use their sociological imagination in analyzing the causes and consequences of social problems
- learn how social change affects social structures and individuals

**Unit 1 (14 Hours)**

**Social Stratification**

**1.1 Theories**

- 1.1.1 Marxists
- 1.1.2 Functionalists

**1.2 Systems of Stratification**

- 1.2.1 Slavery
- 1.2.2 Estate
- 1.2.3 Caste
- 1.2.4 Class
- 1.2.5 Gender

**Unit 2 (13 Hours)**

**Social Mobility**

**2.1 Definition**

**2.2 Types:**

- 2.2.1 Individual Mobility
- 2.2.2 Structural Mobility
- 2.2.3 Vertical Mobility
- 2.2.4 Horizontal Mobility
- 2.2.5 Inter-generational Mobility



- 2.2.6 Intra generational Mobility
- 2.2.7 Exchange Mobility
- 2.3 Factors affecting Social Mobility
- 2.4 Theory of Social Mobility: Pitrim Sorokin

**Unit 3 (12 Hours)**

**Social Process**

- 3.1 Cooperation
- 3.2 Accommodation
- 3.3 Assimilation
- 3.4 Competition
- 3.5 Conflict.

**Unit 4 (12 Hours)**

**Social Control**

- 4.1 Definition
- 4.2 Mechanisms of social control**
  - 4.2.1 Folkways
  - 4.2.2 Norms
  - 4.2.3 Mores
  - 4.2.4 Values
  - 4.2.5 Morality
  - 4.2.6 Religion
  - 4.2.7 Convention
  - 4.2.8 Fashion
  - 4.2.9. Public Opinion
  - 4.2.10 Laws

**Unit 5 (14 Hours)**

**Social Change**

- 5.1 Concepts of social change
- 5.2 Evolution, development and progress
- 5.3 Factors of social change
- 5.4 Theories of social change–**
  - 5.4.1 Marxist
  - 5.4.2 Evolutionary
  - 5.4.3 Cyclical
  - 5.4.4 Functional

**BOOKS FOR STUDY**

Applebaum, Richard P., William J. Chambliss, *Sociology*. Addison - New York: Wesley Educational Publishers inc., 1997.  
 Inkeles, Alex, *Social Change, Reading in Modern Society*. NY : Prentice Hall, , 1982.

**BOOKS FOR REFERENCE**

Abraham Francis, John Henry Morgan, *Sociological Thought*. Cambridge, Macmillan India Ltd., 1985.  
 Caplow, Theodore, *Elementary Sociology*. New Jersey: Prentice Hall Inc. 1971.  
 Duncan, O.D & Mitchell, R., *A New Dictionary of Sociology*. London: Routledge Kegan Paul, 1979.

Haralambos, M., *Sociology - Themes and Perspectives*. New Delhi: Oxford University Press. 1980.  
Ogburn, W.F. & Nimkoff, M. F., *A Handbook of Sociology*. New Delhi: Eurasia Publishing House, 1966.  
Rao Shankar, C N., *Sociology: Primary Principles*. New Delhi, S. Chand & Co., 1990.  
Robertson, Ian, *Sociology*. New York, Worth Publishers, Inc., 1977.  
Schaefer Richard, T., Robert P Lamm, *Sociology*. McGraw Hill Company, 1998.

### **WEB RESOURCES**

[http://faculty.upj.pitt.edu/dsantoro/davis\\_moore.htm](http://faculty.upj.pitt.edu/dsantoro/davis_moore.htm)

[http://www.sagepub.com/ritzerintro/study/materials/reference/77708\\_8.1r.pdf](http://www.sagepub.com/ritzerintro/study/materials/reference/77708_8.1r.pdf)

### **JOURNALS**

<http://www.inoso.org/>

<http://www.jsswnet.com/>

### **PATTERN OF ASSESSMENT**

#### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

#### **Other Components:**

**Total Marks: 50**

Seminar/Quiz/Assignments

#### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DEVELOPMENT OF INDIAN SOCIAL THOUGHT**

**CODE:19SC/MC/DI24**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To understand the historical development of Indian Sociology.
- To familiarize the students with the perspectives and approaches in Indian Sociological Thought
- To critically analyze the perspectives and approaches in Indian Sociological Thought

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Apply the Sociological perspectives and approaches to issues and challenges of Indian Society
- compare and contrast the basic theoretical perspectives and approaches in reference to a particular social phenomenon in India
- interpret how theories reflect the social context of times and culture in which they developed
- equip the student to explore and expand on Indian Sociological thinking

**Unit I (15 Hours)**

**Historical Development of Sociology in India**

- 1.1 Stages of development of Sociology in India-Proto-Professional, Professional and Diagnostic Stage
- 1.2 Historical Perspectives- D.D.Kosambi
- 1.3 Indian Sociological Research Methods, Fieldwork in India, Discourses and future directions

**Unit 2 (12 Hours)**

**G S Ghurye**

- 2.1 Meaning: Caste and Kinship, Scheduled Tribes
- 2.2 National Unity and Integration
- 2.3 Rural- Urban community

**Unit 3 (12 Hours)**

**M N Srinivas**

- 3.1 Dominant Caste
- 3.2 Social Change in Modern India
- 3.3 India's villages

**Unit 4** (12 Hours)  
**A. R Desai**  
4.1 Social Background of Indian Nationalism  
4.2 Transformation of Indian Society  
4.3 Peasant Struggles

**Unit 5** (14 Hours)  
**Yogendra Singh**  
5.1 Modernisation of Indian Tradition  
5.2 Social Stratification and Change  
5.3 Cultural change in India

**BOOKS FOR STUDY:**

Nagla, B.K , “Indian Sociological Thought”, Rawat Publications. 2008  
Oommen, T.K. and P.N.Mukerjee, Indian Sociology: Reflections and Introspections, Mumbai: Popular Prakashan. 1986.

**BOOKS FOR REFERENCE:**

Atal, Yogesh “Sociology in the Indian Campus”, in Giri Raja Gupta (ed), Main Currents in Indian Sociology (Vol.1), New Delhi: Vikas, pp.117-31.1976.  
Das, Veena .“Sociological Research in India: The State of Crises”, Economic and Political Weekly, XXIX (10), March 5:575-576. 1993.  
Kosambi, D.D. .“Brahman Clans”, Journal of the American Oriental Society, 73:202-208. 1953  
Mukherjee, Ramakrishna “ Indian Sociology: Historical Development and Present Problems”, Sociological Bulletin, Volume 22, Issue 1: 29-58 .1973  
Panini,M.N and M.N.Srinivas “ Development of Sociology and Social Anthropology in India”, Sociological Bulletin, Volume 22, Issue 2 : 179-215. 1973  
Singh, Yogendra (1986), Indian Sociology: Social Conditioning and Emergent Concerns, New Delhi: Vistaar. 1986.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**  
Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)  
Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)  
Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)  
**Other Components:** **Total Marks: 50**  
Seminar/Quiz/Assignments

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**  
Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)  
Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)  
Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DEVELOPMENT OF SOCIAL THOUGHT**

**CODE:19SC/MC/DS34**

**CREDITS:4**

**L T S:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarise the students with the historical emergence of Sociology
- To expose students to the key ideas of the founding thinkers of the discipline
- To critically analyze the theories of Sociological Thought

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- apply the Sociological thought to issues and challenges of the Society
- compare and contrast the basic theories in reference to a particular social phenomena
- interpret how theories reflect the social context of times and culture in which they developed.
- comprehend and expand on social questions.

**Unit 1 (15 Hours)**

**History of Social Thought**

- 1.1 Pre-Comteian thought - Emergence of Sociology as a distinct discipline.
- 1.2 Auguste Comte
- 1.3 Positivism
- 1.4 Theory of Evolution and Progress
- 1.5 Social Statics and Social Dynamics
- 1.6 Hierarchy of Sciences

**Unit 2 (13 Hours)**

**Herbert Spencer**

- 2.1 Social Darwinism
- 2.2 The Evolutionary Theory
- 2.3 The Organismic Analogy

**Unit 3 (13 Hours)**

**Emile Durkheim**

- 3.1 Sociology as the study of Social Facts
- 3.2 Mechanical and Organic Solidarities
- 3.3 Division of Labour
- 3.4 Theory of Suicide
- 3.5 Sociology of Religion

**Unit 4** (12 Hours)

**Karl Marx**

- 4.1 Historical Materialism
- 4.2 Dialectical Materialism
- 4.3 Theory of Class Struggle
- 4.4 Alienation

**Unit 5** (12 Hours)

**Max Weber**

- 5.1 Ideal Type and Verstehen
- 5.2 Study of Social Action
- 5.3 Types of Authority
- 5.4 Religion - Protestant Ethic and Spirit of Capitalism
- 5.5 Bureaucracy

**BOOKS FOR STUDY**

Abraham Francis, John Henry Morgan, *Sociological Thought*. Cambridge: Macmillan India Ltd, 1985.

Haralambos, Michael (with Robin Heald), *Sociology: Themes and Perspectives*. Bombay, Delhi: Oxford University Press, 1980.

**BOOKS FOR REFERENCE**

Aron, Raymond, *Main Currents in Sociological Thought*. Part 1 and 2. London: Penguin Books, 1967.

Coser, Lewis, A., *Masters of Sociological Thought: Ideas in Historical and social context*. New York : Harcourt Brace Jovanovidi Inc., 1971.

Craib Ian. *Classical Social Theory*. Great Britain: Oxford University Press, 1997.

Hearn, Frank, *Reason and Freedom in Sociological Thought*. U.S.A., Allen and Unwin Inc., 1985.

Timasheff, *Sociological Theory: its nature and growth*. New York, Random House, 1976.

**WEB RESOURCES**

[http://www.sagepub.in/upm-data/44172\\_1.pdf](http://www.sagepub.in/upm-data/44172_1.pdf)

<http://theory.routledgesoc.com/category/profile-tags/ideal-types>

<http://faculty.frostburg.edu/phil/forum/Marx.htm>

**JOURNAL**

<http://www.jstor.org/discover/10.2307/2779049?sid=21105950089033&uid=62&uid=3&uid=308734711&uid=2&uid=308734551&uid=67&uid=3738256>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:**

**Total Marks: 50**

Quiz/Assignment/Presentations

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

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Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIAL RESEARCH AND SOCIAL STATISTICS**

**CODE:19SC/MC/SR34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce scientific research and methods for conducting scientific enquiry
- To familiarize basic statistical tools of data analysis
- To emphasize on quantitative and qualitative aspects of data collection

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- demonstrate the ability to choose methods appropriate to research aims and objectives
- develop the skill to construct a coherent research proposal that includes an abstract, introduction, literature review, research questions, ethical considerations, and methodology
- understand the nature of statistical data and choose appropriate methods for presenting research results
- learn basic skills in organization, presentation, and interpretation of data

**Unit 1 (11 Hours)**

**Social Research**

- 1.1 Definition and Meaning of Social Research
- 1.2 Characteristics of Social Research
- 1.3 Uses of Social Research
- 1.4 Types of Social Research

**Unit 2 (13 Hours)**

**Steps in Social Research and Basic Terms**

- 2.1 Formulating the research problem
- 2.2 Research Design-qualitative and quantitative
- 2.3 Review of Literature
- 2.4 Variables and Hypothesis
- 2.5 Data collection and Analysis

**Unit 3 (15 Hours)**

**Sampling and Tools of Data Collection**

- 3.1 Population Definition
- 3.2 Sampling –Definition

- 3.2.1 Probability Sampling
- 3.2.2 Simple Random Sampling
- 3.2.3 Stratified Sampling
- 3.2.4 Quota Sampling
- 3.2.5 Cluster Sampling.
- 3.3 **Non-Probability-**
  - 3.3.1 Convenient
  - 3.3.2 Judgmental Sampling.
- 3.4 **Tools of Data collection**
  - 3.4.1 Questionnaire
  - 3.4.2 Interview
  - 3.4.3 Observation.

**Unit 4 (14 Hours)**

**Report writing and Introduction to Statistics**

- 4.1 Report writing and characteristics of a good report.
- 4.2 Meaning, Definition and relevance of Statistics.
- 4.3 Introduction to levels of measurement, Statistical Tools.
- 4.4 Classification of Data: Discrete and Continuous series
- 4.5 Class Limits, Class Intervals, Class Frequency, Mid-points, Simple Frequency, Cumulative Frequency.

**Unit 5 (12 Hours)**

**Tabulation and Diagrammatic representation of data**

- 5.1 Types of tables, Parts of a table, Functions of tables.
- 5.2 Diagrams: Bar diagram, Pie-diagrams.
- 5.3 (Pre-requisites) Measures of Central Tendency: Mean, Median & Mode and Mean Deviation and Standard Deviation.
- 5.4 Measures of Dispersion: Range, Quartile, Deciles and Percentiles.

**BOOKS FOR STUDY**

Gupta, S.P. *Statistical Methods*. New Delhi: Sultan Chand and Co. Ltd., 2004.  
 O'Leary, Zina, *The Essential Guide to Doing Research*. London: Sage Publications, 2004.

**BOOKS FOR REFERENCE**

Alan Bryman, *Social Research Methods*, New Delhi, Oxford 2009  
 Arora, P.N, Sumeet Arora and S. Arora, *Comprehensive Statistical Methods*. New Delhi: S. Chand and Company Ltd., 2007  
 Babbie, E.R. *Practising Social Research*, California: Wadsworth Publishing Company, 2001.  
 Bryman Alan, *Social Research Methods*. New Delhi: Oxford University Press, 2014.  
 Ethance, D.N. *Practical Problems in Statistics*. New Delhi: Kitab Mahal, 2004.  
 Ellis, Lee, *Research Methodology, A Step-by-Step Guide for Beginners*. London: Sage Publications, 1994.  
 Kothari C.R., *Research Methodology - Methods and Techniques*, New Delhi: Wiley Eastern Ltd. 1985.  
 Sarantakos S *Social research*, New Delhi, Harvard Business School Press 2005



Singleton Royce, Bruce C. Straits and Margaret M. Straits and Ronald J. McAllister, *Approach to Social Research*, New York: Oxford University Press, 1988.  
Tripathi, P.C., *A Text Book of Research Methodology in Social Sciences*. New Delhi: Sultan Chand & Sons, 2005.

### WEB RESOURCES

<http://www.mheducation.co.uk/openup/chapters/0335206123.pdf>  
<https://www.nyu.edu/classes/bkg/methods/005847ch1.pdf>  
[http://onlinestatbook.com/2/summarizing\\_distributions/measures.html](http://onlinestatbook.com/2/summarizing_distributions/measures.html)  
<https://www.youtube.com/watch?v=pwgxI-JjKDQ>

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:** **Total Marks: 50**

Quiz/Project

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIOLOGY OF GENDER**

**CODE:19SC/AC/GE35**

**CREDITS:5**

**LTP:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To inculcate a thorough understanding of gender.
- To initiate critical understanding of the contemporary society in the context of historic gender inequality
- To relate and reflect to the gendered self, through the sociological lens in understanding gender

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- equip the student to question the normalised cis-heteronormative society
- analyse the role of individual and societal structures, through the sociological understanding of gender
- equip the students to expand on the ideas of gender and justice in contemporary contexts
- focus on structured discrimination and hence, will equip the student to reflect on larger societal concerns around gender discrimination

**Unit I (13 Hours)**

**Introduction**

- 1.1 Sex and Gender
- 1.2 Types of Gender
- 1.3 Gender and Stereotyping and Gender Discrimination
- 1.4 Objectification
- 1.5 HDI and Gender Disparity

**Unit 2 (15 Hours)**

**Theoretical Perspectives on Gender Roles**

- 2.1 Functionalist, Conflict and Social Interactionist
- 2.2 Feminist Approaches
  - 2.2.1 Liberal
  - 2.2.2 Marxist,
  - 2.2.3 Socialist
  - 2.2.4 Radical Perspectives
- 2.3 Third World Women's Voices

**Unit 3 (12 Hours)**

**Gender: Family and Economy**

- 3.1 Gender role: Socialisation and formation of identity
- 3.2 Gender and Division of Labour
- 3.3. Gender Stereotyping in work place
- 3.4. Occupational Segregation and wage discrimination

**Unit 4 (12 Hours)**

**Gender Political and Law**

- 4.1. Gender representation in Contemporary Indian Politics
- 4.2 Gender exclusion in Politics
- 4.3 Gender and Personal Law
- 4.4 Social Legislations

**Unit 5 (13 Hours)**

**Gender Dynamics**

- 5.1 Patriarchy and Gender Power
- 5.2 Gender and Caste
- 5.3 Gender and Class
- 5.4 Gender and Disability

**BOOKS FOR STUDY**

Jackson, S., & Scott, S. (Eds.). *Gender: A sociological reader*. Psychology Press. 2002  
Pilcher, J., & Whelehan, I. *50 key concepts in gender studies*. Sage. 2004.

**BOOKS FOR REFERENCE**

Chakravarti, Uma, *Gendering Caste through a feminist lens*, Stree Publication 2003  
Dijkstra Geske, *Gender and economics. A European perspective*, London Rutledge, 1997  
Dines Gail, *Gender, Race and Class in Media. A Text-Reader*, New Delhi, Sage Publication, 2003  
Geetha V, *Gender. Theorizing feminism*, New Delhi, Stree Publication, 2002  
Kumar, R. *The history of doing: An illustrated account of movements for women's rights and feminism in India 1800-1990*. Zubaan. 1997  
Krishnaraj M, *Gender and Household Domain*, New Delhi Sage Publications 1993  
Menon Nivediya, *Gender and Politics in India*, New Delhi, Oxford University Press, 2000.  
Rao Anupama, *Gender and Caste*, Kali for women. 2003  
Rao, Anupama, *Gender and Caste*, New Delhi, Women Unlimited 2003  
Vivar, M. T. H. *Framing intersectionality: Debates on a multi-faceted concept in gender studies*. Routledge. 2016

**Web Resources:**

<https://feminisminindia.com/>  
<http://roundtableindia.co.in/>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)  
Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)  
Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components: Total Marks: 50**

Seminar/Magazine Review/Assignment/Presentation

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)  
Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)  
Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19SC/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIOLOGICAL THEORY**

**CODE:19SC/MC/ST44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To expose students to the place of theory in Sociology
- To expose students to the fundamental principles of schools of sociological theory
- To enable a theoretical orientation towards the discipline

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand basic concepts and theoretical perspectives in sociology and how they are used in sociological explanations of social behavior
- apply sociological concepts and theories to understand contemporary social issues and debates about these issues
- identify and explain major sociological theories and apply them to everyday life
- understand the ways in which sociological theories and methods are used outside of academic settings in the practice of sociology and the production of positive social change

**Unit 1 (11 Hours)**  
**Introduction**

- 1.1 Meaning of Sociological Theory
- 1.2 Types of Theories
- 1.3 Functions of theories
- 1.4 Elements of theories

**Unit 2 (15 Hours)**  
**Functionalism**

- 2.1 Assumptions of Functionalism
- 2.2 Talcott Parsons
  - 2.2.1 The Structure of Social Action
  - 2.2.2 Theory of Social System
  - 2.2.3 Pattern variables.
- 2.3 R.K. Merton: Merton's Functional Analysis
  - 2.3.1 Theory of Deviance
  - 2.3.2 Role Theory

**Unit 3 (15 Hours)**

**Conflict Theory**

- 3.1 Assumptions of Conflict theory
- 3.2 **Karl Marx**
  - 3.2.1 Dialectics
  - 3.2.2 Theory of Class, Alienation and Social Change
- 3.3 **Ralf Dahrendorf**
  - 3.3.1 Power and Authority
  - 3.3.2 Social Stratification

**Unit 4 (14 Hours)**

**Symbolic Interactionism**

- 4.1 Assumptions of Symbolic Interactionism
- 4.2 **Charles H. Cooley**
  - 4.2.1 The Organic view of society,
  - 4.2.2 Looking Glass Self
  - 4.2.3 Primary Groups
- 4.3 **G.H. Mead**
  - 4.3.1 Society
  - 4.3.2 The Act
  - 4.3.3 Gestures
  - 4.3.4 Significant Symbols
  - 4.3.5 Self

**Unit 5 (10 Hours)**

**Exchange Theory**

- 5.1 Assumptions of Exchange Theory
- 5.2 **George Homans**
  - 5.2.1 The Principles of Human Behaviour
- 5.3 **Peter Blau**
  - 5.3.1 Social Exchange and Power

**BOOKS FOR STUDY**

Abraham Francis M, *Modern Sociological Theory - An Introduction*. Chennai, Oxford University Press, 1982

Haralambos M, Martin Holborn, *Sociology: Themes and Perspectives*, Eight Edition, UK, Harper Collins, 2013

**BOOKS FOR REFERENCE**

Turner, Jonathan J, *The Structure of Sociological Theory*, Seventh Edition, California, Wadsworth, 2002

Wallece A Raith, Alison Wolf, *Contemporary Sociological Theory - Continuing the Classical tradition*, 6<sup>th</sup> Edition, New Jersey, Prentice Hall, 2005

**WEB RESOURCES**

<http://www.suu.edu/faculty/ping/pdf/KARLMARXANDMARXISM.pdf>

<http://www.csun.edu/~hbsoc126/soc1/The%20Looking%20Glass%20Self.pdf>



**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (Answer all questions in 50 words)

Section B – 3 x 8 = 24 marks (Answer 3 out of 5 questions in 250 words)

Section C – 1 x 20 = 20 marks (Answer 1 out of 2 questions in 1250 words)

**Other Components:****Total Marks: 50**

Objective Quiz/Presentation

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A: 10 x 2 = 20 Marks (Answer all 10 questions in 50 words each)

Section B: 5 x 8 = 40 Marks (Answer 5 out of 8 questions in 250 words each)

Section C: 2 x 20 = 40 Marks (Answer 2 out of 4 questions in 1250 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIOLOGY OF DEVELOPMENT**

**CODE:19SC/MC/SD44**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To learn the dominant schools in Sociology of Development
- To critically analyze the issues of Development
- To understand Sociology of development in Indian Context

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- comprehend the paradigms of development and underdevelopment
- apply theoretical perspectives to engage in development discourses
- enable a critical understanding of developmental processes
- understand ideologically the futuristic directions of development after the completion of the course

**Unit 1 (10 Hours)**

**Introduction to Development- An Overview**

- 1.1 Meaning of development and concept of Development
- 1.2 Colonial Legacies and Imperialism
- 1.4 Origins of Capitalism, Development in First World and Third World
- 1.5 Trans-nationalization and Return of Underdevelopment

**Unit 2 (15 Hours)**

**Theories in Sociology of Development**

- 2.1 Modernization Theory
- 2.2 Dependency and World –systems Perspectives on Development
- 2.3 Alternatives in Development- Gunnar Myrdal; E. F. Schumacher; Amartya Sen; Gandhiji
- 2.4 Critique of Development

**Unit 3 (13 Hours)**

**State and Market**

- 3.1 Development as Freedom and Democracy
- 3.2 Agencies of Development- State, Capitalism and Market
- 3.3 Globalization and Information age
- 3.4 Micro-politics of Development- Communities, Power and Subaltern Movements

**Unit 4 (12 Hours)**

**Sociology of Development in India**

- 4.1 India as a Developing Economy
- 4.2 Diversity, Role of global Institutions and Development in India
- 4.3 Future Directions of Sociology of Development in India

**Unit 5 (15 Hours)**

**Contemporary Issues and Concerns**

- 5.1 Poverty and Development
- 5.2 Food-Security, Health and Development
- 5.3 Environment and Development
- 5.4 Alternative Development and Development Projects

**BOOKS FOR STUDY**

Appadurai, Arjun. Modernity at Large: Cultural Dimensions of Globalization. New Delhi: OUP, 1997.

Amin, Samir. Unequal Development. New Delhi: OUP, 1979.

**BOOKS FOR REFERENCE:**

Andrew, W. Introduction to the Sociology of Development. New Jersey: Humanities Press International. 1984

Apter, D. E. Rethinking development: Modernization, dependency, and postmodern politics. Newbury, California: Sage. 1987

Dereze, Jean and Amartya Sen. India: Economic Development and Social Opportunity. New Delhi: OUP, 1996.

Frank, A.G. Re-Orient: Global Economy in the Asian Age. Berkeley: University of California Press, 1998

Harrison, D. The Sociology of Modernization and Development. New Delhi: Sage, 1989.

Larrain, J. Theories of development: Capitalism, colonialism, and dependency. New York: Blackwell. 1989

Pieterse, J.N. Development Theory: Deconstructions/ Reconstructions. New Delhi: Vistaar Publications. 2001

Roxborough, I. Theories of underdevelopment, London: Macmillan. 1979

Webster, A. Introduction to the sociology of development (second edition). London: MacMillan. Willis, K. 2005

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components: Total Marks: 50**

Objective Quiz/Presentation/Assignment

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIAL ANTHROPOLOGY**

**CODE:19SC/AC/SA45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce the students to the basic concepts in Social Anthropology
- To familiarise students with a historic understanding of society
- To detail the interconnectedness of the economic, political, and cultural aspects of society

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- relate to sociology through the basics of Social Anthropology
- set a premise of understand the society in terms of anthropological exercises of the past and present
- equips the student with a critical perspective of the difference between primitive and present societies
- reflect on the interconnectedness between Anthropology and Sociology

**Unit 1 (14 Hours)**

**Introduction**

- 1.1 Definition and Scope
- 1.2 Social and Cultural Anthropology
- 1.3 Anthropology and its subfields
- 1.4 Social Anthropology and Other Social Sciences
- 1.5 Culture Traits - Culture Area - Processes of Cultural Change - Civilization.

**Unit 2 (14 Hours)**

**Marriage and Family**

- 2.1 Monogamy, Polygamy, Polygyny, Polyandry
- 2.2 Kinship Terms, Classificatory and Descriptive System of Kinship
  - 2.2.1 Kinship Usages
- 2.3 Family - Types, functions, changing patterns of family.
- 2.4 Patterns of residence, patterns of descent and authority
- 2.5 Patterns of inheritance

**Unit 3 (12 Hours)**

**Anthropology of Religion**

- 3.1 Definition of Primitive Religion
- 3.2 Difference between Magic, Religion and Science
- 3.3 Totem and Taboo, Sacred and Profane
- 3.4 Theories: Animism, Naturalism and Manaism

**Unit 4 (13 Hours)**

**Economic Anthropology**

- 4.1 Modes of production
- 4.2 Exchange System and Barter system
  - 4.2.1 Ceremonial Exchange
  - 4.2.2 Reciprocity and Redistribution
- 4.3 Market, Money and Trade

**Unit 5 (12 Hours)**

**Political Anthropology**

- 5.1 Meaning and Concept – Nature and Forms of Political Organisation
- 5.2 Structure in Primitive Government in Tribal Societies
- 5.3. Primitive Law- Distinction between customs and laws- Social Sanctions in primitive law
- 5.4 Justice and Punishment in Primitive Societies- Ideas of Solidarity.

**BOOK FOR STUDY**

Beals, R. and Hoijer, H, *Introduction to Anthropology*. New Delhi: Macmillan, 1960.  
Carol R. Ember, Melvin Ember, *Anthropology – A Brief Introduction*, New Jersey: Prentice Hall, 1992.

**BOOKS FOR REFERENCE**

Basu Indrani, *Anthropology the study of man*, New Delhi: S.Chand and Company Ltd, 2005.  
Herskovits F Melville, *Cultural Anthropology*, Calcutta: Oxford & IBH Publishing Co, 1995.  
Jha, Makhan., *An Introduction to Anthropology*, New Delhi: Sage Publications, 1994.  
Lowie R.H., *Primitive Society*, London: Routledge Publishers, 1960.  
Majumdar D. N, and Madan T. N, *An Introduction to Social Anthropology*. Asia Publishing House, 1970.  
Nigel Rapport and Joanna Overing, *Social and Cultural Anthropology*, the key concepts, London: Routledge Publishers, 2000.  
Sahay K.N, *Social Anthropology in India*: Common Wealth Publication, New Delhi: 1999.  
Scupin Raymond, *Cultural Anthropology A Global Perspective*. New Jersey: Prentice Hall, 1998.  
Singh K.S, *The History of the Anthropological Survey in India*: Anthropological Survey of India, Calcutta: 1991

**WEB RESOURCES**

[www.youtube.com/watch?v=-](http://www.youtube.com/watch?v=-) The Most Primitive Tribe of the Planet.  
<https://vimeo.com/channels/> The koyas Part-I and II and Tribal Displacement-A Visual Anthropology by Sathya Mohan,

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)  
Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)  
Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components: Total Marks: 50**

Seminar/Quiz.Assignments

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)  
Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)  
Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIOLOGY OF MEDIA**

**CODE:19SC/MC/SM54**

**CREDITS :4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to critically analyse media content
- To investigate issues of representation in the media
- To focus on the political-economic approach of media

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- reflect on the influence of media on individual and the society
- deliver a larger approach in understanding societal processes and individual consumption
- equip the student with the understanding of power play of images and the visual in delivering societal change
- analyse media content

**Unit 1 (13 Hours)**

**Introduction**

- 1.1 Media – Concept and Types
- 1.2 Functions of Mass Media
- 1.3 Effects of Mass Media on Individual, Society and Culture
- 1.4 Active vs Passive Audience
- 1.5 The Uses-effects Theory, Citizen Journalism

**Unit 2 (13 Hours)**

**Media and Consumption**

- 2.1 The Power of Advertising – Taste Cultures and Niche Markets
- 2.2 Advertising and Popular Culture – Fashions, Fads
- 2.3 Subcultures and the Media
- 2.4 The Uses-gratification Approach
- 2.5 Celebrity Industry – Personality as Brand, Hero Worship

**Unit 3 (13 Hours)**

**Media and Politics**

- 3.1 Construction of Political reality
- 3.2 Media Industry and Ownership
- 3.3 Media as a Supporter and/or Watchdog of the State

**Unit 4 (13 Hours)**

**Alternative Media and Mobilisation**

- 4.1 Various Forms of Alternative Media -Village Puppetry -Street Theatre -Little Magazines
- 4.2 Community Radio and the Indian Farmer
- 4.3 Social Media and Mobilisation –online forms of Protest
- 4.4 Media Activism

**Unit 5 (13 Hours)**

**Issues of Representation**

- 5.1 Changing Representation of Women in the Media
- 5.2 Alternative Sexualities in the Media
- 5.3 Concerns of Under-representation of the North East in the Media
- 5.4 Gaze

**BOOKS FOR STUDY**

Grossberg, Lawrence et al, *Media Making: Mass Media in popular culture*. New Delhi: Sage, 1998.

Mc Quail, Dennis and Windhal, *Communication Models for the study of Mass communication*. Longman. 1993.

**BOOKS FOR REFERENCE**

Berger, Arthur Asa, *Ads, fads and consumer culture – Advertising's Impact on American Character and Society*. Lanham: Rowman and Littlefield, 2000.

Biocca, Frank, *Opposing conceptions of the audience: The Active and Passive Hemispheres of Mass Communication Theory*, 1988

Dines, Gail and Jean M Humez (ed), *Gender, Race and Class in Media: A text-Reader*. California: Sage, 2003.

Potter, James W, *Media Literacy*. New Delhi: Sage, 1998.

Ross, Karen, (ed), *The Handbook of Gender, Sex and Media*. Sussex: Wiley Blackwell, 2012.

Turner, Graeme, *Understanding Celebrity*. UK: Sage, 2013.

**WEB RESOURCES**

Alternative media

<http://fuchs.uti.at/wp-content/uploads/altmedia.pdf>

Street theatre

<http://www.bbc.co.uk/mediaaction/where-we-work/asia/india/sdp-community-mobilisation>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components: Total Marks: 50**

Seminar/Quiz/Assignments/Case studies

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIOLOGY OF CRIME AND VICTIMS**

**CODE:19SC/MC/CV54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarize students with the subject matter of Criminology and Victimology
- To acquaint students the significance of locating victim at the centre of justice system
- To introduce the students to the discipline of Victimology an emerging area of specialization

**COURSE LEARNING OUTCOMES :**

On successful completion of the course, students will be able to

- describe the behaviour and attitude of family, society and criminal justice system towards victims
- describe the types of victims
- understand the relationship between victims and offenders
- demonstrate knowledge of the general history of the Victims and Victimology

**Unit 1**

**(15 Hours)**

**Crime and Criminology**

- 1.1 Definition
- 1.2 Meaning of Deviance, Crime and Criminals
- 1.3 Classification of Crime
- 1.4 Criminology its Nature and Scope
- 1.5 **Causation of Crime: Classical and Contemporary Perspectives**
  - 1.5.1 Sociological Theories of Crime: Strain Theory, Social Learning Theory, Labeling Theory

**Unit 2**

**(15 Hours)**

**Victimology: Its Meaning and Scope**

- 2.1 Victimology: Definition and Meaning
- 2.2 Nature and Scope- Rediscovery of Crime Victims.
- 2.3 **Versions of Victimology**
  - 2.3.1 Special Victimology
  - 2.3.2 General Victimology
  - 2.3.3 Victimology of human rights violations.



**Unit 3 (12 Hours)**

**Key concepts in Victimology**

- 3.1 Victim
- 3.2 Victimization
- 3.3 Victim Reactions
- 3.4 Victim precipitation
- 3.5 Victim proneness,
- 3.6 Primary victimization
- 3.7 Secondary victimization,
- 3.8 Victim blaming
- 3.9 Victim vulnerability
- 3.10 Fear of crime
- 3.11 Victimless crimes

**Unit 4 (10 Hours)**

**Victims of traditional crimes in India**

- 4.1 Sati
- 4.2 Dowry
- 4.3 Victims of domestic abuse
- 4.4 Rape and Victims of abuse of power
- 4.5 Other kind of sexual harassment
- 4.6 Child Victims
- 4.7 Victims of hate crimes.

**Unit 5 (13 Hours)**

**Victim Rights and Victim Assistance**

- 5.1 Prevention of Crime Victimization
- 5.2 U. N Declaration of Basic Principles of Justice for Victims of Crime and Abuse of Power
- 5.3 Rights of Victims under the Indian Constitution
- 5.4 Victim and the Indian Laws
- 5.5 Victim Compensation

**BOOKS FOR STUDY**

Ahuja, Ram *Criminology*. Meerut: Minakshi Publications 1984.  
Karmen, Andrew (6th Edition): *Crime Victims: An Introduction to Victimology*. CA: Thomson Wadsworth, 2007.

**BOOKS FOR REFERENCE**

Gottfredson, Michael R., and Travis Hirschi. *A General Theory of Crime* Stanford, CA: Stanford University Press 1990.  
Hagan, Frank E *Introduction to criminology: Theories, methods, and criminal behavior*. Chicago: Nelson-Hall 1990.  
Kirchhoff, G. F. *What is Victimology?* Tokiwa International Victimology Institute. Tokyo: Seibundo Publishing Co. Ltd, 2005.  
Putwain, David and Aidan Sammons *Psychology and crime*, 2002.  
*United Nations United Nations Declaration of Basic Principles of Justice for Victims of Crime and Abuse of Power*.  
A/RES/40/34.,1985 .<http://www.un.org/documents/ga/res/40/a40r034.htm>

*United Nations Office for Drug Control and Crime Prevention, Guide for Policy Makers: On the Implementation of the United Nations Declaration of Basic Principles of Justice for Victims of Crime and Abuse of Power.* Centre for International Crime Prevention. New York, (1999). <http://www.uncjin.org/Standards/policy.pdf>

United States Department of Justice – Office of Justice Programs – Office for Victims of Crime, *New Directions from the Field: Victims' Rights and Services for the 21<sup>st</sup> Century.* (1998).

World Society of Victimology - <http://www.worldsocietyofvictimology.org/>

## **JOURNAL**

International Journal Of Criminal Justice Sciences- ISSN 0973-5089

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:** **Total Marks: 50**

Case Studies/Report writing/Presentation/Quiz

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIOLOGY OF ETHNIC RELATIONS**

**CODE:19SC/MC/ER54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To help students understand the concept of ethnicity and its expressions
- To critically discuss ethnic issues of national and international significance
- To understand patterns of inclusion and exclusion through case studies

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the internal diversity of society and the significance of variations by race/ethnicity
- interpret the dimensions of social construction of race/ ethnicity
- decipher the negative effects of social inequalities caused due to ethnicity
- affirm and contest varied aspects of Ethnicity

**Unit 1 (13 Hours)**

**Introduction**

- 1.1 Meaning of ethnicity
- 1.2 Development and Situational Selection of ethnic identity
- 1.3 Ethnic Identity- Internal and External Boundaries
- 1.4 The social construction of ethnic identity
- 1.5 Ethnic Groups- Primary, Secondary, Majority, Minority, Young, Old

**Unit 2 (13 Hours)**

**Dimensions of ethnic identity and Race**

- 2.1 Migration as an ethnic phenomenon – push and pull factors
- 2.2 Forms of diaspora (Cohen)
- 2.3 Ethnic enclaves
- 2.4 Xenophobia, Immigration policies and their implications
- 2.5 Meaning of Race, Racialization and Racial Profiling

**Unit 3 (13 Hours)**

**Patterns of social exclusion**

- 3.1 Ethnic penalty and Housing Rights
- 3.2 Ethnic Competition
- 3.3 Ethnic Segregation and Ghettos- Hyper-Ghettos
- 3.4 Ethnic Cleansing
- 3.5 Ethnic Genocide

**Unit 4 (13 Hours)**

**Ethnicity and Politics of Identity**

- 4.1 Politics of Multiculturalism
- 4.2 Ethnic Minorities and barriers to integration
- 4.3 Ethnicity and Citizenship
- 4.4 Institutional Assimilation
- 4.5 Minority rights

**Unit 5 (13 Hours)**

**Case studies on ethnic relations**

- 5.1 India- Ethnic Conflict and Development in Manipur and Tripura
- 5.2 Latin America- Indigenous Movements
- 5.3 South East Asia-Cambodian Genocide, Tamil-Sinhalese Crises, Rohingya Exodus
- 5.4 The Middle East- Syrian Civil War
- 5.5 North America- Canada and Mexico (Ethnic Issues and Concerns)

**BOOKS FOR STUDY**

Cohen, Robert, *Global Diasporas: An Introduction*. (Second Revised Edition) London and New York: Routledge, 2008.

Giddens, Anthony and Phillip Sutton, *Sociology*. 7<sup>th</sup> Edition Polity Press: 2013.

**BOOKS FOR REFERENCE**

Murdock, G.P. (ed.). *Social Structures in South-East Asia*, London: Tavistock. 1961.

Oommen, T K, *Citizenship, Nationality and Ethnicity*. Cambridge: Polity Press, 1997.

Phadnis, Urmila and Rajat Ganguly, *Ethnicity and Nation Building in South Asia*. Sage, 2001.

Telles, Edward, *Pigmentocracies: Ethnicity, Race and Colour in Mexico*. University of North Carolina Press, 2014.

Wolff, Stefan, *Ethnic Conflict*. Oxford University Press, 2006.

Yinger, J M, *Ethnicity Source of Strength? Source of Conflict*. Jaipur: Rawat, 1997.

**JOURNALS**

Kingsbury, . Post-colonial states, ethnic minorities and separatist conflicts: case studies from Southeast and South Asia. *Ethnic and Racial Studies*, 34(5), 762–778.

doi:10.1080/01419870.2010.537357. 2011

Mohapatra, G. Ethnic Conflict and Development: The Case of North-East Region with Special Reference to Manipur and Tripura. *Indian Journal of Public Administration*, 62(3), 449–470. doi:10.1177/0019556120160308. 2016

**WEBSITES**

Ethnicity/Multiculturalism/Migration

[http://www.ijesar.org/docs/volume2\\_issue2/multiculturalism.pdf](http://www.ijesar.org/docs/volume2_issue2/multiculturalism.pdf)

Ethnic Enclaves

<http://www.vancouver.sun.com/life/Immigrants+choose+Metro+Vancouver+ethnic+enclaves+support+network/8180613/story.html>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 Minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

### **Other Components:**

**Total Marks: 50**

Quiz/Assignments/Case studies/Seminar

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**URBAN AND RURAL SOCIOLOGY**

**CODE:19SC/MC/UR53**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To introduce the students to the basic concepts in Rural and Urban Sociology
- To acquaint the students with governance in Rural and Urban areas
- To understand the changes occurring in the Rural and Urban society

**COURSE LEARNING OUTCOMES :**

On successful completion of the course, students will be able to

- understand the internal complexity and diversity of rural and urban society
- analyze the historical development of rural and urban Sociology in India
- demonstrate expert knowledge on socio-political and economic social structures of urban and rural societies
- develop the skill to critically analyse the social issues affecting rural and urban societies

**Unit 1 (11 Hours)**

**Introduction to Rural Sociology**

- 1.1 Rural Sociology- Meaning and Definition
- 1.2 Origin and Growth of Rural Sociology
- 1.3 Nature and Scope of Rural Sociology
- 1.4 Rural reconstruction and future directions

**Unit 2 (10 Hours)**

**Rural Society in India**

- 2.1 Rural Development Perspectives: Marxist and Gandhian
- 2.2 Rural Community- Rural-Urban Continuum, Rural-Urban Differences and Linkages
- 2.3 Rural Economy- Pre-Colonial and Post-Colonial and Contemporary changes
- 2.4 Rural Social Institutions – Marriage, Family and Religion
- 2.4 Rural Governance- Historical Development and functions of Panchayati Raj and 73<sup>rd</sup> Constitutional Amendment.

**Unit 3 (10 Hours)**

**Introduction to Urban Sociology**

- 3.1 Urban Sociology- Meaning
- 3.2 Origin and Development of Urban Sociology
- 3.3 Nature and Scope of Urban Sociology
- 3.4 Urbanization, Urbanism, Rural-Urban Continuum, Conurbation, Peri-Urbanization, Gentrification and Planetary Urbanization

**Unit 4 (10 Hours)**

**Urban Sociology Theories: Classical and Contemporary**

- 4.1 Ecological Approach: Urban Ecology,
- 4.2 Ecological System and Process
- 4.3 Urban Growth Theories: Burgess' Concentric Zone Theory, Hoyt's Sector Theory

**Unit 5 (10 Hours)**

**Issues and Rural and Urban Development Programmes**

- 5.1 Urban Issues: Urban Homelessness, Urban Crimes Slums and Culture of Poverty
- 5.2. Urban Development Programmes – Pradhan Mantri Awas Yojana, Atal Mission Rejuvenation and Urban Transformation (AMRUT)
- 5.3 Rural Issues: Caste Panchayat, Caste and Politics, Khap Panchayat Issues of Dalits, Inter-caste conflicts, concerns of rural women
- 5.4 Rural Development Programmes – National Rural Employment Guarantee Act (NREGA), Sarva Shiksha Abhiyan

**BOOKS FOR STUDY**

Desai A.R, *Rural sociology in India*, International Universities press, 1994  
William G Flanagan *Urban Sociology*, Rowman, 2010

**BOOKS FOR REFERENCE**

Desai, A.R., *Rural Sociology in India* Bombay, Popular Prakashan 1997.  
Doshi, S.L. and Jain P.C. *Rural Sociology*. Jaipur, Rawat Publications 1999  
Laxmi Devi, *Rural sociology* Anmol Publishers, 1998.  
Peter H Mann, Rutledge and Kegan Paul, *Urban Sociology in India*, Orient Longman, 1974  
Rao M S A, *Urban Sociology*, Orient Longman, Bombay, 1977  
Ramachandran, R. *Urbanization and Urban Systems in India*, Oxford University Press 1991.  
Reddy, Venkateswara, *Methods of teaching rural sociology*, Discovery Publishers, 2004  
Sasen, Saskia and Kwame Anthony Appiah (1998) *Globalization and its Discontents*, New Delhi, Oxford University Press 1998.  
Singh, Bharat, *Modern Teaching of Rural Sociology*, New Delhi, Anmol 2004  
Vishal Kala, *Rural Sociology*, New Delhi Sonali publications, 2012

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)  
Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)  
Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components : Total Marks: 50**

Seminar/Quiz/Assignments/Case studies

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)  
Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)  
Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Departments of Sociology and Zoology to  
B.A. Sociology and B.Sc. Advanced Zoology and Biotechnology Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**SOCIOETHNOZOOLOGY**

**CODE:19ID/IC/SZ55**

**CREDIT:5**

**L T P:5 1 0**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the sociology of human – animal relationships
- To familiarize students with various aspects of ethnozoology
- To help students to comprehend social evolution, organization and communication in humans and animals

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- synthesize the wide ranging relationships between humans and animals
- discuss the importance of animals as food and in medicine and also other useful animal products
- explain the social evolution and organization in humans and animals
- discuss the different modes of communication and their functions in humans and animals

**Unit 1**

**Introduction**

**(15 Hours)**

- 1.1 Meaning of ethnobiology and ethnozoology- Basic definitions- Qualities of Sociality- Animals as zooindicators of weather and climate
- 1.2 Role of animals in human culture: Biological predisposition and individual differences in human attitudes towards animals - Animal Mythology in the Indian context
- 1.3 Meaning of Ethnology; Sociology; Sociobiology
- 1.4 Interdisciplinary Approach in understanding Human-Animal Relationship

**Unit 2**

**Sociology of Human and Animal Relationship**

**(16 Hours)**

- 2.1 Significance of Sociology of Human-Animal Relationship
- 2.2 Scope of Sociology of Human-Animal Relationship
- 2.3 Sociological Perspective on Human Animal Relationship: Symbolic Interactionism Theory and Conflict Theory
- 2.4 Social Relationships and Social Organizations.



**Unit 3****Ethnozoology****(16 Hours)**

- 3.1 Historical and Sociological significance of animal domestication
- 3.2 Animals as food: Arthropods – Molluscs – Echinoderms - Vertebrates
- 3.3 Animals in medicine : Traditional and Contemporary
- 3.4 Historical, Economical and Sociological importance of animals and their products
- 3.5 Animals as zooinicators of weather and climate

**Unit 4****Social Evolution****(16 Hours)**

- 4.1 Meaning of Social Evolution; Cooperation; coordination and division of labour
- 4.2 Social Groups: Altruism and kin selection: Dominance and Hierarchy
- 4.3 Social System and Fitness - The evolution of social organization
- 4.4 Aggregates and Socialization – Coloniality: Adaptive basis of coloniality – Adaptive significance of roles – Optimization of Caste Systems - Social insects: Organization of insect societies, Social Wasps, Ants, Bees and Termites – Primates: Social traits, Ecology of Social Behaviour, Social Behaviour in Chimpanzee – Other Social species : Colonial invertebrates – cold blooded vertebrates – Birds
- 4.5 The Theory of Parental Investment - Ecology of Parental Care – Parent-Offspring conflict – Alloparental care

**Unit 5****Verbal and Nonverbal Communication****(16 Hours)**

- 5.1 Origin of human language – Forms of communication
- 5.2 Verbal and non-verbal communication and its functions
- 5.3 Non-verbal communication in animals : Discrete versus graded signals - Signal specificity-Signal economy
- 5.4 Modes of communication in animals with examples – functions, advantages and disadvantages

**BOOKS FOR REFERENCE**

- Adrian Franklin, (1999) *Animals and Modern cultures-A Sociology of Human Animal Relations in Modernity*. London: Sage Publications,
- Anderson, E.N and Deborah Pearsall, (2011) *Ethnobiology*, Wiley Blackwell
- Kay Peggs (2012). *Animals and Sociology*. U.K: Palgrave Macmillan.
- Romulo Romer, Nobrega Alves and Paulino Albuquerque, (2017) *Ethnozoology: Animals in our lives*. Academic Press
- Wilson, E.O. (2000) *Sociobiology : The New synthesis* (25<sup>th</sup> anniversary ed.). Cambridge: Harvard University Press

**PATTERN OF ASSESSMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Part One – 25 marks (Sociology)

Part Two -25 marks (Zoology)

Section A- Objective Quiz - 6 Marks (All questions to be answered)

Section B – 3 x 3 = 9 marks (3 out of 5 questions to be answered in 100 words each)

Section C – 1 x 10 = 10 marks (1 out of 2 questions to be answered in 500 words each)

**Other Components:****Total Marks : 50**

Seminar/Quiz/Assignments/Role Play/Mini projects/Scrapbook

**End-Semester Examination****Total Marks: 100****Duration: 3 hours**

Part One – 50 marks (Sociology)

Part Two -50 marks (Zoology)

Section A – Objective Quiz - 12 marks (All questions to be answered)

Section B – 6 x 3 = 18 marks (6 out of 10 questions to be answered in 100 words each)

Section C – 2 x 10 = 20 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIOLOGY OF RELIGION**

**CODE:19SC/MC/SR64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To introduce the students to the sociological interpretations of religious phenomena
- To facilitate the understanding of the social significance of religion
- To understand various perspectives of religion

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the difference between a sociological and a common understanding of religion
- demonstrate an understanding of key debates and sociological approaches to religion and belief
- demonstrate the ability to apply key concepts to contemporary debates about the role of religion in the contemporary world
- formulate relevant sociological questions relevant to the sociological study of religion

**Unit I (11 Hours)**

**Introduction**

- 1.1 Definition of Religion: Substantive and Functional
- 1.2 Aspects of Religion: Belief, Ritual, Experience and Community
- 1.3 Religious Experience and Expressions: Theoretical (Doctrine )and Practical (cult) expressions
- 1.4 Pre-historic and Primitive Religion

**Unit 2 (13 Hours)**

**Sociological Consequences**

- 2.1 Sociological functions of Religion
- 2.2 The Integrating power of Doctrine
- 2.3 The Integrating power of worship

**Unit 3 (13 Hours)**

**Sociological Perspectives**

- 3.1. Structural Functional
- 3.2. Social Conflict
- 3.3 Symbolic Interactionism

**Unit 4** (13 Hours)

**Religion and society**

- 4.1 Religion and Politics
- 4.2 Religion and Socio-economic development
- 4.4 New Religious movements

**Unit 5** (15 Hours)

**Religious Contestants in India**

- 5.1 Secularism
- 5.2 Proselytism
- 5.3 Communalism
- 5.4 Fundamentalism

**BOOKS FOR STUDY**

Hamilton Malcom B., *The Sociology of Religion: An Introduction to Theoretical and Comparative Perspectives* (2<sup>nd</sup> edition), USA, Routledge, 2006.

Johnstone, Ronald L., *Religion in Society: A Sociology of Religion* (8<sup>th</sup> edition), New Jersey Pearson Publication, 2006.

**BOOKS FOR REFERENCE**

Cousineau Madeleine, *Religion in a Changing World: Comparative Studies in Sociology (Religion in the Age of Transformation)*, USA, Praeger Publishers Inc, 1998.

Durkheim Emile, *The Elementary Forms of Religious Life*, New York Collier Book, 1961.

Kivisto Peter, Swatos. William.H., JR and Christiano Kevin J., *Sociology of Religion: Contemporary Developments* (2<sup>nd</sup> edition), USA, Rowman & Littlefield Publishers, 2008.

McGuire Meredith, *Sociology of Religion*, New Delhi, Rawat Publication, 2012.

Madan T.N, *Religion*, UK, Oxford University Press, 1997.

O'Dea, Thomas F., *The Sociology of Religion*, New Delhi, Prentice Hall, 1966.

Repsstad Pal and Furseth Inger, *An Introduction to the Sociology of Religion: Classical and Contemporary Perspectives*, USA, Ashagate Publishing Limited, 2006.

Wach, Joachim, *Sociology of Religion*, Chicago, University of Chicago Press, 1971.

**WEB RESOURCES**

[www.oxfordjournals.org](http://www.oxfordjournals.org)

[www.researchgate.net](http://www.researchgate.net)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:** **Total Marks: 50**

Seminar/Quiz/Assignments/Case studies

**End-Semester Examination:** **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL SOCIOLOGY**

**CODE:19SC/MC/ES64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To familiarise the students with issues concerning individuals and the environment
- To understand the relationship between society and the natural environment
- To enable students understand the role of agencies in global environmentalism

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the significance of socio-ecological metabolism in contemporary contexts
- critically discourse environmental issues with Sociological Imagination
- demonstrate expert Sociological knowledge on nature-society paradigm
- equip the student to relate to the larger question of the environment as an individual

**Unit 1 (10 Hours)**

**Definition and Concept of Environment**

- 1.1 Definition of Environment.
- 1.2 Nature of Environmental Sociology
- 1.3 Scope Environmental Sociology
- 1.4 Dimensions of Environment
- 1.5 The Relationship between society and Natural Resources.

**Unit 2 Perspectives of Environmental Sociology (10 Hours)**

- 2.1 Sociological Perspective
- 2.2 Religious Perspective
- 2.3 Development Perspective
- 2.4 Eco-Feminism

**Unit 3 (15 Hours)**

**Problems and Concern of Environment**

- 3.1 Environmental Issues, Causes, Consequences of Environment
- 3.2 Role of Human Behaviour in Environmental Changes and Disasters
- 3.3 Technology Change and Environment
- 3.4 Effects of Consumption and Consumerism on Environment

**Unit 4** (15 Hours)  
**Environmentalism**

- 4.1 History and Development of Environmentalism at the global level
- 4.2 Indian Environmentalism
- 4.3 Environmental Movements in India
  - 4.3.1 Chipko Movement
  - 4.3.2 Narmada Bachao Andolan Movement.

**Unit 5** (15 Hours)  
**Environmental Disaster Management**

- 5.1 Definition and Types of Disaster
- 5.2 Intersections of Race, Class, Ethnicity and Disaster Vulnerability
- 5.3 Disaster Management Cycle.
- 5.4 Environmental and Social Impact Assessment (ESIA) Procedures
- 5.5 Sustainable Development Paradigm and Change Agents

**BOOKS FOR STUDY**

Gardner Gerald T., *Environmental Problems and Human Behavior*. Second edition. USA: Pearson Learning Solutions, 2002.  
Guha, Ramachandra. *Environmentalism: A Global History*. New Delhi: OUP, 2000.

**BOOKS FOR REFERENCE**

Ghauta Ramesh and Others, *Environmental Education – Problems and Prospects*, New Delhi: Discovery, 2000.  
Hannigan John. *Environmental Sociology*. Third edition. New York: Routledge, Taylor & Francis Group, 2014.  
Ignacimuthu, S. *Environmental Awareness and Protection*. New Delhi: Phoenix Publishers, 2000.  
Katiyar, V.S. *Environmental Concerns, Developing Resources*. New Delhi: Pointer Publishers, 2000  
Micheael Mayerfeld Bell, *An invitation to Environmental Sociology*. C.A: Pine Forge Press, Thousand oaks, 2004.  
Mukerjee Radhakamal. *Social Ecology*. New Delhi: D.K. Printworld (P) Ltd, 2014.  
Satsangi Alok, Sharma Anhuman. *Environmental Impact Assessment and Disaster Management*. New Delhi: Rajat Publishing, 2015  
Sinha, Prabhas, *Disaster Management Process: Law, process and Strategy*. New Delhi: SBS Publishers, 2006  
Singh Jagbir, *Disaster Management; Future Challenges and Opportunities* .New Delhi I.K. International Publishing Ltd. 2007.  
Vaidyanathan, A., *Water Resource Management – Institutions and Irrigation*. New Delhi: OUP, 2000.

**JOURNAL**

Sociological practice. A journal of clinical and applied sociology Vol4 N0 4.Dec2002

**WEB RESOURCES**

Global issues .org  
Consumption and Consumerism on the environment  
<http://ramachandraguha.in/archives/the-rise-and-fall-of-indian-environmentalism.html>

<http://www.thehindu.com/opinion/lead/the-past-present-of-indian-environmentalism/article4551665.ece>

<http://nceg.upesh.edu.pk/bgworkshop08/lectureslides/Day11/social%20dimension%20of%20disaster.pdf>

The sociology of disaster: the classics, social vulnerability, resilience, environmental migration, and risk perception

<http://disaster.colostate.edu/Data/Sites/1/cdra-research/cdra-readinglists/michelle-readinglist2010-1.pdf>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:**

**Total Marks: 50**

Seminar/Quiz/Assignments/Case studies

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIOLOGY OF LAW**

**CODE:19SC/MC/SL63**

**CREDIT:3**

**LTP:3 1 0**

**TOTAL TEACHING HOURS 52**

**OBJECTIVES OF THE COURSE:**

- To understand the importance of law as an instrument of social change
- To understand the various laws for people in the society
- To understand the relationship between law and society

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have knowledge on binding force of Law
- get familiarized with theoretical frameworks from sociology that are used to examine
- understand how the law shapes society and society shapes the law
- have Legal Awareness
- provide interest in pursuing a legal career,

**Unit 1 ( 11 Hours)**

**Introduction**

Meaning and Definition of Law and Sociology of Law

- 1.1 Evolution of Sociology of Law
- 1.2 Sociological Jurisprudence
- 1.3 Sociology and its relation to law
- 1.4 Law and its interconnections with society

**Unit 2 (11 Hours)**

**Historical Perspectives of Law**

- 2.1 Founders of Sociology of Law
- 2.2. Evolution of Law
- 2.3 Classical Hindu Laws
- 2.4 Law as an Instrument of Social Change
- 2.5 Introduction of Civil and Criminal Courts

**Unit 3 (10 Hours)**

**Modern Legal Systems in India**

- 3.1 Sources of Indian Law: Primary and Secondary
- 3.2 Judicial System in India
- 3.3 Types of Law: Civil, Criminal, Public and Personal



**Unit 4 (10 Hours)**

**Law as a tool of Social Transformation**

- 4.1 Gandhism
- 4.2. Marxism
- 4.3. Naxalism
- 4.4 Public Interest Litigation
- 4.5 Alternative Dispute Resolution
- 4.6 Panchayati Raj Institutions – dispute mechanism

**Unit 5 (10 Hours)**

**Sociological Dimensions of Law**

- 5.1 Law and Social Engineering
- 5.2 Law and Economy
- 5.3 Law and Politics
- 5.4 Law and Culture
- 5.5 Law and Globalisation

**BOOKS FOR STUDY**

Indra Deva *Sociology of Law*, New Delhi Oxford University Press, 2005.

P. IshwaraBhat. *Law & Social Transformation*. Lucknow: Eastern Book Company 2009

**BOOKS FOR REFERENCE**

Banakar R., *An Introduction to Law & Social Theory*. Hart Publishing. 2002

Galanter Marc, *Law and society in modern India*, New York Oxford University Press, 1998

Ishwara Bhat.P., *Law and Social Transformation*, Lucknow :Eastern Book Company 2009

Kaul.A.k., *A Textbook of Jurisprudence*. New Delhi: Satyam Law International. 2009

Malik and Raval *Law and Social Transformation in India*, Allahabad Allahabad Law Agency, 2009

Malcve R.M *Society An Introductory Analysis*. New Delhi. : Macmillan 2001

Mathieu Deflem. *Sociology of Law: Visions of a Scholarly Traditions* 2008

Singh Avtar and Harpeet, *Introduction to Jurisprudence*, Nagpur, Lexix Nexix 2010.

Sarat A (Ed). *The Blackwell Companion to Law & Society*. Melden, MA: Blackwell. 2004

Sharyn Roach Anleu, *Law and Social Change*, New Delhi, Sage Publications, 2010

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components: Total Marks: 50**

Quiz/ Project/Assignment

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOCIAL MOVEMENTS**

**CODE:19SC/MC/SM63**

**CREDIT:3**

**LTP:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To familiarise the students with the importance of social movements in bringing about social change through means of conflict, protest and challenge
- To detail the political, economic, and social aspects of social change
- To understand the relationship between individual and society in the bargain of social change

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- develop the ability to examine and critically analyse the social, economic and political changes that provided the conditions for the rise of Social Movements
- provide a detailed account of Social Movement from Sociological Perspectives
- explain how identities relating to caste, gender and sexual orientation shape Social Movements
- explain how Social Movements today extend beyond national boundaries and become global social movements

**Unit 1 (13 Hours)**

**Introduction**

- 1.1 Definition
- 1.2 Classification of Social Movements
- 1.3 Dimensions of Social Movements.

**Unit 2 (13 Hours)**

**The Indian National Movement**

- 2.1 Rise of Political Nationalism,
- 2.2 Birth of the Nationalist Movement.
- 2.3 The Non Co-operation movement
- 2.4 Civil Disobedience Movement
- 2.5 Quit India Movement.

**Unit 3 (13 Hours)**

**Dalit movement**

- 3.1 Types of Identities
- 3.2 Sources of Deprivation
- 3.3 Ideological orientation
- 3.4 Political mobilization of Dalits, Dalits and Social Transformation

**Unit 4** (13 Hours)  
**Regional Movements**  
4.1 SNDP Movement  
4.2 Dravidian Movement.

**Unit 5** (13 Hours)  
**New Social Movements**  
5.1 Contemporary Social Movements and its characteristics  
5.2 LGBTQ Movements  
5.3 Globalisation and Social Movements

### BOOKS FOR STUDY

Oommen T.K., *Protest and Change – Studies in Social Movements*, Sage Publications, New Delhi. 1990  
Rao, M.S.A.(ed.), *Social Movements in India*, Manohar Publications, New Delhi. 1984

### BOOKS FOR REFERENCE

Desai, A.R., *Social Background of Indian Nationalism*, Popular Prakasham Bombay. 1987  
Diehl Anita, , Periyar E.V. Ramasami : *A Study of the influence of a personality in contemporary South India*, B. I. Publications, Madras. 1987  
Nandu Ram, (2008), *Dalits in Contemporary India* Volume I, Siddhant Publication, New Delhi. 2008  
Rao, M.S.A., , *Social Movements and Social Transformation*, Manohar Publications, New Delhi. 1987  
Singh Rajendra, , *Social Movements Old and New – A post modernist Critique*, Sage Publications, New Delhi. 2001  
Shah, Ghanshyam,, ed., *Social Movements and the State*, Sage Publications, New Delhi. 2004  
Webster, John , *Religion and Dalit Liberation: an examination of perspectives*, Manohar Publications, New Delhi. 2002  
Zelliot, Eleanor, *From Untouchables to Dalits and other essays*, Manohar Publications, New Delhi. 2001

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes**  
Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)  
Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)  
Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:**                      **Total Marks: 50**  
Quiz/ Project/Assignment/Presentation

**End-Semester Examination:**                      **Total Marks: 100**                      **Duration: 3 hours**  
Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)  
Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)  
Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self (10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family (17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NON GOVERNMENTAL ORGANIZATIONS**

**CODE:19SC/ME/NG45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To understand the changes being brought by the NGOs at the grass –roots level
- To understand the functioning of NGOs in India with special emphasis on NGO governance
- To understand the linkage of NGO with government and other Organisation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- provides a critical understanding of NGOs as developmental organisations
- provide the ability to use different approaches in analyzing the functioning of the NGOs
- understand the challenges and implications NGOs face in terms of their multiple and varied relationship with other organisations, communities.
- provide basic skills of setting up NGOs

**Unit 1 (11 Hours)**

**Introduction to Non-Governmental Organisations**

- 1.1 Definition
- 1.2 Objectives of NGO
- 1.3 Types of NGO
- 1.4 History of NGOs in India
- 1.5 Role of NGOs in Social Change
- 1.6 The Present Status of NGOs in India

**Unit 2 (13 Hours)**

**Background of Non-Governmental Organisations**

- 2.1 Philosophies of Non-Governmental Organisations:
  - 2.1.2 Religious
  - 2.1.3 Humanitarian
  - 2.1.4 Marxist
- 2.2 Goals of Non-Governmental Organisations: Demand and Supply
- 2.3 NNGOS & INGOS- Roles and Issues

**Unit 3 (13 Hours)**

**NGO Partnerships and Legislations**

**Partnerships-**

- 3.1 Linkages of Non-Governmental Organisations with Government
- 3.2 Linkage with International Organisations

- 3.3 Linkage with Civil Society
- 3.4 **Social Legislations in India-**
  - 3.4.1 Societies Registration Act, 1860
  - 3.4.2 Indian Trust Act, 1882
  - 3.4.3 FCRA: Foreign Contribution Regulatory Act
  - 3.4.4 Income tax Act 1961: Nature and scope of Section 10, 11, 12 (Rebate and Exemption)

**Unit 4 (13 Hours)**

**Management of Non-Governmental Organisations**

- 4.1 Functions and Principles of NGO Management
- 4.2 NGO Organizational Design
- 4.3 Human Resource, Social Marketing and Performance Management in NGOs
- 4.4 External and Internal Stakeholders in NGO Management.

**Unit 5 (15 Hours)**

**NGO Governance and Issues**

- 5.1 Problems of NGO Accountability and Transparency
- 5.2 Efficiency and Sustainable Measures
- 5.3 Strategies for NGO Growth in India
- 5.4 Implementation, Monitoring and Evaluation of Interventions.
- 5.5 NGOs in Health, Women & Children, Micro-Finance, Advocacy
- 5.6 Field Visits

**BOOKS FOR STUDY**

Abraham, Anita (Third Edition). *Formation and Making of NGOs*, New Delhi: Universal Law Publishing Co.Pvt.Ltd, 2011

Lall Robin, *The Dynamics of NGOs*, New Delhi: Dominant Publishers and Distributors, 2004.

**BOOKS FOR REFERENCE**

Berman, E.M. *Productivity in Public and Non-Profit Organizations: Strategies and Techniques*. New Delhi: Sage, 1998.

Chandra, P. *NGOs in India: Role, guidelines & performance appraisal*. New Delhi: Akansha Publishing House, 2005

Drucker, P. *Managing the Non-Profit Organizations: Principles and Practices*. New York. Harper Business, 1992

Dharmarajan, Shivani, *NGO Development Initiative and Public Policy*, New Delhi: Kanishka Publishers, 1998.

Green, Andrew and Ann Mathhias, *Non-Governmental Organisations and Health in Developing Countries*. New York: St. Martin's Press, 1997.

Kumar R., Goel S.L., *Administration and Management of NGOs: Text and Case Studies*, New Delhi, S.R Publication, 2005

Nanavatty, Meher and P.D. Kulkarni, *NGOs in the Changing Scenario*, New Delhi: Uppal Publishing House, 1998

Pawar, S.N. and J.B.Ambedkar and D.Shrikant, *NGOs and Development: The Indian Scenario*, 2004

Tandon, R. *Invisible Yet Widespread: The Non-Profit Sector in India*. PRIA New Delhi, 2003

Verma, Sawali Bihari., *Rural Prosperity Oriented Programmes, NGOs and People's Participation*. Jaipur: Avishkar Publishers Distributors, 2003

### **Journals, Articles and Web Resources**

David Lewis (LSE –Centre for Civil Society, Department of Social Policy):

*Management of Non-Governmental Developmental Organizations*

Dr.R.P.Raya and Dr.K.Rajendran

(Professor and Head; Formerly Research Scholar-Management Studies, Pondicherry University):

*Role of Non-Governmental Organizations in Micro Finance through SHGs-A Study of Vellore District in Tamil Nadu*

Julia Berger (Harvard University-September 2003):

*Religious NGOs: An Exploratory Analysis*

[http://fingodap.in/pdf/registration\\_of\\_ngo.pdf](http://fingodap.in/pdf/registration_of_ngo.pdf)

<http://www.fcraforngos.org>

### **PATTERN OF ASSESSMENT:**

#### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

#### **Other Components:**

**Total Marks: 50**

NGO Visit/Report Submission

#### **End- Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**LOGIC AND SCIENTIFIC METHODS**

**CODE:19SC/ME/LS45**

**CREDIT:5**

**LTP: 5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To make students understand the rational and empirical basis of scientific methods
- To enable them to apply these concepts in the social science
- To familiarise them to deductive and inductive form of reasoning

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- understand the basic of logic and logical methods
- understand the functioning of logical gates
- develop their logical ability
- develop skills on reasoning

**Unit 1 (12 Hours)**

**Introduction**

- 1.1 The Subject Matter of Logic
- 1.2 Terms and Distribution of Terms
- 1.3 Logical Form of Sentences
- 1.4 Principle of Division and Definition
- 1.5 Fallacies of Language and Arguments

**Unit 2 (13 Hours)**

**Propositions**

- 2.1 Traditional and Modern Classification of logic
- 2.2 **Immediate Inference:**
  - 2.2.1 Opposition of Proposition
  - 2.2.2 Eductions
- 2.3 **Rules and Fallacies of Categorical Syllogism:** Figures and Moods-validity
- 2.4 **Mixed syllogism:**
  - 2.4.1 Hypothetical
  - 2.4.2 Disjunctive
- 2.5 **Dilemma:** Types

**Unit 3 (15 Hours)**

**Symbolic Logic and Logic Gates**

- 3.1 Symbolic Logic and Logical Basis of Automatic Computation
- 3.2 Value of Special Symbols
- 3.3 Truth Tables for Conjunction, Alternation and Implication.

- 3.4 Statement, Statement Forms, Argument, Argument Forms.
- 3.5 Truth Tables for Determining Validity /Invalidity of Arguments
- 3.6 Logical Basis of Automatic Computation
  - 3.6.1(Prerequisite) The Definition of AND, OR, NOT NAND,NOR, XOR & XNOR operations
  - 3.6.2 Formulation of Truth Tables and their Use

**Unit 4 (13 Hours)**

**Inductive Reasoning**

**4.1 The Methods of Scientific Enquiry: Mill's Methods:-**

- 4.1.1 The Experimental Method
- 4.1.2 The Method of Agreement
- 4.1.3 The Method of Difference
- 4.1.4 The Joint Method of Agreement and Difference
- 4.1.5 The Method of Concomitant Variation
- 4.1.6 The Method of Residues

**Unit 5 (12 Hours)**

**Tests of Reasoning**

- 5.1 Analogy Test
- 5.2 Series Test
- 5.3 Same Class and Other Class Tests
- 5.4 Visual Test
- 5.5 Relationship Test
- 5.6 Coding and Decoding Test
- 5.7 Synonym Test and Antonym Test
- 5.8 Direction Test
- 5.9 Sentence Formation Test
- 5.10 Time Sequence Test
- 5.11 Blood Relationship Test
- 5.12 Word Building Test
- 5.13 Natural Sequence Test.

**BOOKS FOR STUDY**

Copi, Irving, *An Introduction to Logic Chapters*. London: Macmillan & Collier Pub, 1972.

Nandan M.R., *Text Book of Logic*, New Delhi: S. Chand & Co., 1981.

**BOOKS FOR REFERENCE**

Balasubramanian.P, *Symbolic Logic and its Decision Procedure*. Madras: Madras University, 1986.

Rajaraman, V., *Computer Primer*. New Delhi: Prentice Hall, 1986.

Sharma, J.K., *Logic*. New Delhi: S. Chand & Co., 1981.

Wolf A, *Text Book of Logic*. Bombay: Surjeet Publications, 1976.

**WEB RESOURCES**

<http://www.friesian.com/aristotl.htm>

<http://www.iep.utm.edu/fallacy/#H6>

**PATTERN OF ASSESSMENT:****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**Section A –  $3 \times 2 = 6$  marks (All three questions to be answered in 50 words each)Section B –  $3 \times 8 = 24$  marks (3 out of 5 questions to be answered in 250 words each)Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered in 1200 words each)**Other Component:****Total Marks: 50**

Quiz

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A –  $10 \times 2 = 20$  marks (All 10 questions to be answered in 50 words each)Section B –  $5 \times 8 = 40$  marks (5 out of 8 questions to be answered in 250 words each)Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDUSTRIAL SOCIOLOGY**

**CODE:19SC/ME/IS45**

**CREDIT:5**

**LTP:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To provide insight into social aspects of Industry
- To familiarise the students with the functioning of Traditional and Modern Industries
- To understand the Labour Relations in Industries

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have scientific understanding of industry
- have understanding of workplace
- understand industries as a complex social organisation
- have skills to deal with industrial relations

**Unit 1 (13 Hours)**

**Introduction**

- 1.1 Industrial Sociology: Nature and Scope
- 1.2 Importance of Industrial Sociology
- 1.3 Development of Industrial Sociology
- 1.4 Industry as a Social System

**Unit 2 (14 Hours)**

**Classical Theories**

- 2.1 Adam Smith
- 2.2 Karl Marx
- 2.3 Weber
- 2.4 Elton Mayo
- 2.5 Likert
- 2.6 Herzberg
- 2.7 Maslow
- 2.8 Mc Clelland

**Unit 3 (13 Hours)**

**Development of Industry and Industrial Organisation**

- 3.1. The Manorial System-The Guild System-Domestic system
- 3.2. The Factory system-Evolution of Industries in India.

- 3.3 Origin and Function of Formal and Informal organisations
- 3.4 Dynamics of Industrial Relations –Factors affecting Industrial Relations,
- 3.5 Collective Bargaining- Types
- 3.6 Participative Management- Concept and practices of Participative Management.

#### **Unit 4 (12 Hours)**

##### **Recruitment, Training and Future of Industries**

- 4.1 Sources of Recruitment: Internal and External, Methods: In House, Direct and Third Party Methods
- 4.2. Need and Methods of Training- On the Job and Off the Job Methods
- 4.3. Process and Methods of Performance Appraisal – Traditional and Modern Methods
- 4.4 Future of Industries:- Collectivist, anarchist, free market, environmentalist

#### **Unit 5 (13 Hours)**

##### **Industrial Labour Relations**

- 5.1. Trade Union
- 5.2 Features, Functions and Types
- 5.3 Trade Union Movement in India
- 5.4 Trade Union Challenges of Privatization and Globalisation and its decline
- 5.5 International Labour Organisation
- 5.6 Industrial Dispute
  - 5.6.1 Court and Industrial Tribunal
  - 5.6.2 Industrial Legislations
  - 5.6.3 Labour Legislations
  - 5.6.4 The Role of Government in Industrial Relation
- 5.7 Recent Trends in Industry: Automation, computerization and Globalisation

#### **BOOKS FOR STUDY**

Blau Peter M., *Formal Organisation: a comparative Approach*, California, Stanford University Press 2003.  
Singh Narendar, *Industrial Sociology*, New Delhi, Mc Graw Hill, 2011

#### **BOOKS FOR REFERENCE**

Berg Ivan E., *Industrial Sociology*, New Delhi, Prentice Hall, 2007  
Davis, Keth, *Human Behaviour at work*, New Delhi, Mc Graw Hill Publication 1984  
Gisbert Pascal, *Fundamentals of Industrial sociology*, New Delhi, Tata McGraw Hill Publishing Co., 1972  
Misra Rajan, *Industrial Sociology*, New Delhi, University Science Press. 2013  
Punekar S.D. : *Labour welfare, Trade Union and Industrial relations*, Bombay, Himalaya Publishing House, Bombay, 1978  
Schneider, Eugene, *Industrial Sociology*, Mc Graw Hill Publication 1971.  
Singh A.P *Industrial Sociology*, New Delhi, New Age International Pvt.Ltd, 2011.  
Singha G.P. and P.R.N. Singha, *Industrial Relations and Labour Legislations*, New Delhi, Oxford and IBH Publishing Co., 1977.  
Tripathi and Gupta, *Industrial Relations in India*, New Delhi Sultan and Chand, 2001.  
Watson J.Tony, *The Personal Manager-A study in the Sociology of work and employment*, Boston, Rutledge Publication 1977

**PATTERN OF ASSESSMENT:****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**Section A –  $3 \times 2 = 6$  marks (All three questions to be answered in 50 words each)Section B –  $3 \times 8 = 24$  marks (3 out of 5 questions to be answered in 250 words each)Section C –  $1 \times 20 = 20$  marks (1 out of 2 questions to be answered in 1200 words each)**Other Components:****Total Marks: 50**

Quiz/Project/Seminar

**End-Semester Examination:****Total Marks: 100****Duration: 3 hours**Section A –  $10 \times 2 = 20$  marks (All 10 questions to be answered in 50 words each)Section B –  $5 \times 8 = 40$  marks (5 out of 8 questions to be answered in 250 words each)Section C –  $2 \times 20 = 40$  marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**CORPORATE SOCIAL RESPONSIBILITY**

**CODE: 19SC/ME/CS45**

**CREDIT:5**

**LTP:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the contemporary sustainable development model adopted by corporate organisations
- To help the students understand the nature of Corporate Governance
- To enable students to understand the trends in Corporate Social Responsibility

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- understand the different dimensions of the concept of CSR
- understand the theoretical framework of CSR and the legal guidelines developed to undertake CSR
- classify and compare different approaches and theories related to CSR
- develop CSR skills and helps in having a career in the field of CSR

**Unit 1 (13 Hours)**

**Introduction**

- 1.1 Concept of Corporate Social Responsibility- Meaning, Nature  
Characteristics of CSR
- 1.2 History of Corporate Social Responsibility
- 1.3 Current CSR model – from charity to responsibility
- 1.4 Global Scenario
- 1.5 Social Auditing in CSR

**Unit 2 (13 Hours)**

**Theories and Development of CSR strategy**

- 2.1. Theories of CSR
  - 2.1.1 The Stakeholder Theory
  - 2.1.2 Social Contract Theory
  - 2.1.3 The Business Ethics Theory
- 2.2 Essential components for development of CSR strategy
- 2.3 Benefits of CSR to organizations
- 2.4. Corporate Citizenship – a new way to market CSR

**Unit 3 (14 Hours)**

**Trends in CSR**

- 3.1 Rural Development

- 3.2. Infrastructural Development
- 3.3. Environmental Sustainability
- 3.4 Humane Rights
- 3.5. Health and Education
- 3.6. Women Employment and Capacity Building
- 3.7 Disaster Management and Relief Work

**Unit 4 (13 Hours)**

**CSR in India**

- 4.1 Company Act 2013 and CSR
- 4.2 CSR Summits and Objectives
- 4.3 CSR policy initiatives in India

**Unit 5 (12 Hours)**

**Case Studies**

- 5.1 Nestle
- 5.2 ITC
- 5.3 Srinivas Trust - TVS
- 5.4 Arvind Eye Hospital
- 5.5 Jindal Stainless Steel foundation

**BOOKS FOR STUDY**

Agarwar Sanjay K., *Corporate Social Responsibility*, New Delhi, Sage Publication 2008  
 Samuel O Idou(ed) *Dictionary of Corporate Social Responsibility: CSR, Sustainability and Ethics*, New York, Springer, 2015

**BOOKS FOR REFERENCE**

Agarwal, S K., *Corporate Social Responsibility in India*. New Delhi: Response Books, 2008.  
 Baxi, C. V *Corporate Governance*, CA: Excel books 2007.  
 Donald, H., *Corporate Governance at the cross roads*, TMH, 2007.  
 Mallin, Chris A. *Corporate Social Responsibility: A case study approach*, Massachusetts: Edward Elgar Publishing Ltd., 2009  
 Mallin, Christine .A. *Handbook of International Corporate Governance*, Massachusetts:Edward Elgar, 2011.  
 Mathur, U.C. ,*Corporate Governance & Business Ethics*, Chennai: Macmillan, 2005.  
 Prasad, K., *Corporate Governance*. New Delhi: PHI, 2006.  
 May, S., George Cheney, Juliet Roper (Ed.).*The debate over corporate social responsibility*. New Delhi: Oxford University Press, 2007.  
 Panda, S. K., *Corporate Social Responsibility in India Past Present and Future*, The ICFAIUniversity Press, 2008.  
 Singh, S *Corporate Governance*, New York: Excel books, 2005.  
 Weston, Fred, J., *Takeovers. Restructuring & Corporate Governance*, New Delhi: Pearson Education, 2007.

**WEB RESOUCES**

[https://www.researchgate.net/publication/313837646\\_A\\_case\\_study\\_on\\_Corporate\\_Social\\_R](https://www.researchgate.net/publication/313837646_A_case_study_on_Corporate_Social_Responsibility_in_NESTLE_TATA_ITC)  
[esponsibility\\_in\\_NESTLE\\_TATA\\_ITC](https://www.researchgate.net/publication/313837646_A_case_study_on_Corporate_Social_Responsibility_in_NESTLE_TATA_ITC)

CSR - What is corporate social responsibility?

<https://www.youtube.com/watch?v=yzvy5IggTvw>



## **IBM: CSR**

<https://www.youtube.com/watch?v=PdkYieDuVvY>

CSR Video - Business Benefits of Corporate Social Responsibility

<http://beta.tutor2u.net/business/blog/csr-video-business-benefits-of-corporate-social-responsibility>

<https://pdfs.semanticscholar.org/b4fa/d78430c5052282dc739e466faf2c48f6cf75.pdf>

<https://www.unwe.bg/uploads/Alternatives/A09-03.2013.pdf>

## **PATTERN OF ASSESSMENT:**

### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

### **Other Components:**

**Total Marks: 50**

Quiz/Project/Seminar

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.A. DEGREE: BRANCH III – SOCIOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT**

**CODE:19SC/ME/PR45**

**CREDITS:5**

**OBJECTIVES OF THE COURSE**

- To enable students to develop research capabilities
- To encourage students to develop analytical skills.
- To help students understand research concepts.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- To develop research capabilities
- To demonstrate their analytical skills
- To understand research concepts
- To develop critical analysis of social issues.

**Unit 1**

**Introduction**

- 1.1 Introduction : a general introduction to the topical area
- 1.2 Statement of the Problem: very specific statement of the problem to be studied.
- 1.3 Purpose of the Project: in this section a description about the overall purpose of the project should be made known.
- 1.4 Definition of Terms: important terms and concepts used in the project should be adequately analyzed and defined.
- 1.5 Significance of the Project: this section should provide answers as to what the project will contribute.

**Unit 2**

**Review of the literature**

- 2.1 The review is a careful examination of a body of literature pointing toward the answer to the need for the study or project.

**Unit 3**

**Methodology**

- 3.1 Explain the methods used for collecting data.
- 3.2 Descriptive writing approach must be utilised.  
Collection of data
- 3.3 Analyse and Interpret data

## **Unit 4**

### **Summary, Conclusions and Recommendations**

4.1 Introduction - an overview of the project should be provided in this section.

Conclusions - describe the results.

4.2 Recommendations -these should be based on the conclusions.

4.3 References

4.4 Appendices

### What sections go into the Research Report?

- Cover page
- Title page
- Acknowledgements
- Contents page
- List of figures or illustrations
- Main body - introduction
- Main body – Review of literature
- Main body - methodology
- Main body- analyses
- Main body – summary & results
- Main body - recommendations
- Main body - conclusion
- Reference List/Bibliography
- Appendices

### **Avoid Plagiarism**

### **PATTERN OF ASSESSMENT**

Project 75 marks.

Viva-voce 25 marks.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

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**SYLLABUS**

(Effective from Academic year 2019-2020)

**SOCIOLOGY OF SPORTS**

**CODE:19SC/GE/SS22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To study the relationship between sport and society.
- To examine the socio-cultural dimensions of sports.
- To focus on various social institutions and their influence on sports.

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- differentiate a commonsensical approach with the help of the sociological perspective on sports
- analyse the economic and political aspects of the society with respect to sports
- observe sports, from a socio-political approach
- equip students to review the gendered and discriminatory aspects of sports as an activity

**Unit 1 (8 Hours)**

**Introduction of Sport Sociology**

- 1.1 Meaning and Historical origin of sport
- 1.2 Definition and Scope of sports sociology
- 1.3 Meaning of Games and Play
- 1.4 Cultural values and sports

**Unit 2 (10 Hours)**

**Social Institutions and Spirit of the Sportsperson**

- 2.1 Family
- 2.2 Education
- 2.3 Media
- 2.4 Politics
- 2.5 Religion
- 2.6 Economy

**Unit 3 (8 Hours)**

**Contemporary Issues in Sports**

- 3.1 Sexism
- 3.2 Casteism
- 3.3 Nepotism
- 3.4 Ableism

### **BOOKS FOR STUDY**

Delaney Tim and Madigan Tim, The Sociology of Sports: An Introduction, McFarland and Company, Inc., Publishers, 2008.

Frey James.H., Sociology of Sport, Boston, Cengage Learning, 2008.

### **BOOKS FOR REFERENCE**

Coackley Jay Sports in Society: Issue & controversies, New York, McGraw Hill, 2007.

Jackson Steven.J and Hallinan Chris Social and Cultural Diversity in a Sporting World (Research in the Sociology of Sport), London, JAI Press Inc, 2008.

Jain RachnaSports Sociology, New Delhi, Kehl Sahitya Kendra, 2002.

Majumdar Boria and Mangan J.A., Sport in South Asian Society Past and Present: London, Routledge, 2005

Malcolm Dominic, Sport and Sociology, New York, Routledge, 2012.

Srinivasasraju. B.J., Sports Sociology, New Delhi, Sports Publication, 2011.

Woods Ron, Social Issues in Sport (2<sup>nd</sup> edition), USA, Human Kinetics, 2011.

### **WEB LINKS**

fitnessforlife.org

humankinetics.com

<http://www.nasss.org/journal/>

### **PATTERN OF ASSESSMENT:**

#### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

#### **Other Components:**

**Total Marks: 50**

Practical component:

A case study on sports personality analysing the following factors:

Sports as an integral part of personal lives

Sports influence on perception of one's body, gender and class

Sports as a change agent.

Review of a Sports Channel

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Sociology to  
B.A / B.Sc / B.Com / B.B.A/ B.V.A / B.S.W. Degree Programme**

**SOCIOLOGY OF POPULAR CULTURE**

**CODE:19SC/GE/SP22**

**CREDIT:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVE OF THE COURSE:**

- To understand the concept of popular culture.
- To understand how popular culture conveys different cultural forms.
- To critically examine cultural capital in various popular culture contexts.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- create popular culture content, discuss it and also critique it after the completion of the course
- analyse the culture industry using the concept of popular culture
- engage in popular culture media by using it as a vehicle of social change
- equip to study extensively on culture industries

**Unit 1 (8 Hours)**

**Popular Culture-Introduction**

- 1.1 Definition of Popular Culture
- 1.2 The Origin of Popular Culture
- 1.3 Cultural Construction- Basic Concepts
- 1.4 Stereotypes and Social Norms

**Unit 2 (10 Hours)**

**Popular Culture-Dimensions**

- 2.1 Taste Culture
- 2.2 Commercial Culture
- 2.3 Celebrity Culture
- 2.4 Youth Culture
- 2.5 Rock n' Roll Sub Culture

**Unit 3 (8 Hours)**

**Popular Culture-Public Spaces and Conformity**

- 3.1 Sexualization of Pop Culture
- 3.2 Hip-Hop Culture and Music
- 3.3 Video Games and Internet Popular Culture
- 3.4 Understanding the Audience Segmentation
- 3.5 Critical Analysis of Popular Culture Music

## **BOOKS FOR STUDY**

Bryman, J. Robert, Sociology: Pop Culture to Social Structure. USA: Cengage Learning, 2013  
Gans, J. Herbert, Popular Culture & High Culture: An Analysis and Evaluation of Taste. 2nd Edition. Basic Books, 2012

## **REFERENCES**

Cashmore, Ellis, Celebrity Culture (Key Ideas). Routledge 2<sup>nd</sup> Edition, 2014  
Kidd, Dustin, Pop Culture Freaks: Identity, Mass Media and Society, West View Press 1<sup>st</sup> Edition, 2014  
Ousborne Jeff, Reading Pop Culture: A Portable Anthology. Bedford St. Martin's 1<sup>st</sup> Edition, 2014  
Smith, D. Allison et al, Pop Culture Zone: Writing Critically about Pop Culture. Cengage Learning. 1<sup>st</sup> Edition, 2008

## **PATTERN OF ASSESSMENT :**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Component:                                      Total Marks: 50**

Case Studies/Assignment/Presentation/Film/ Advertisement/Video Appraisal

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Sociology to  
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**SYLLABUS**

(Effective from Academic year 2019-2020)

**GENDER STUDIES**

**CODE:19SC/GE/GS22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVE OF THE COURSE:**

- To understand the difference between sex and gender
- To detail intersections of other social structures along with gender
- To critically examine the political and economic aspects of gender

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- differentiate a commonsensical understanding of gender from a sociological perspective.
- gather the importance of a sociological perspective in learning about ideas of gender and equality.
- reflect on larger societal problems because of gender and intersections of social structures.
- Understand and update the course of feminism from time to time

**Unit 1 (8 Hours)**

**Gender and Society**

- 1.1 Sex, Gender, and Sexuality: The Spectrum and terminologies
- 1.2 Intersectionality : (Ableism, Sexism, Classism, Casteism, Racism)
- 1.3 Cis-heteronormative Society

**Unit 2 (10 Hours)**

**Gender and Socialisation**

- 2.1 Family and Household
- 2.2 Education
- 2.3 Work, Labour, and Household Labour
- 2.4 Marriage, Property, and Inheritance
- 2.5 Biological and Social Mothering

**Unit 3 (8 Hours)**

**Contemporary Issues**

- 3.1 Rape, Honour and Shame/ Honour Killings, Victim Blaming, and Normalisation of Violence, Sexual Control of Women
- 3.2 Role of Media
- 3.3 Transphobia and Homophobia
- 3.4 Privacy and Section 377



**BOOKS FOR STUDY/ REFERENCE**

Jackson, S., & Scott, S. (Eds.). *Gender: A sociological reader*. Psychology Press. 2002  
Kumar, R. (1997). *The history of doing: An illustrated account of movements for women's rights and feminism in India 1800-1990*. Zubaan. 1997

**Web Resources:**

<https://feminisminindia.com/>

<http://roundtableindia.co.in/>

**PATTERN OF ASSESSMENT:**

**Continuous Assessment Test:                      Total Marks: 50                      Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:                                      Total Marks: 50**

Movie/Magazine/Audio Review/Presentation

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Sociology to  
B.A / B.Sc / B.Com / B.B.A/ B.V.A / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from Academic year 2019-2020)

**SOCIETY AND MEDIA**

**CODE:19SC/GE/SM22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVE OF THE COURSE**

- To understand the concept of media and its influence in society
- To understand how state and economy interacts with media
- To detail the idea of reality in society

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- analyse media content with the help of sociological concepts
- equip to relate to the larger inescapable societal need to depend on media for varied reasons from communication, to exchange, to mobilisation
- look at the production and consumption of reality in society
- equip students to differentiate journalistic and sociological aspects of writing and reading the society

**Unit 1 (8 Hours)**

**Media and Reality**

- 1.1 Media as a source of Entertainment
- 1.2 Construction of Reality
- 1.3 Production and Consumption of Information
- 1.4 Media as Communication and Exchange, Development through Ages

**Unit 2 (8 Hours)**

**Media and Politics**

- 2.1 Ownership and State Regulation
- 2.2 Censorship
- 2.3 Public Opinion and consequence

**Unit 3 (10 Hours)**

**Contemporary Issues**

- 3.1 Social Media and Technology
- 3.2 Mainstream and Alternative media
- 3.3 Media Trials
- 3.4 Responsibility of Media

### **BOOKS TO STUDY**

Curran, J. P., & Gurevitch, M.. *Mass Media and Society 4th edition*. Arnold.2005  
Kellner, D. CULTURE AND MEDIA. *Sociology After Postmodernism*, 138.1997

### **BOOKS FOR REFERENCE**

Fiske, John. *Television culture*. Routledge, 2002.  
Gunther, R., & Mughan, A. (Eds.).. *Democracy and the media: a comparative perspective*.  
Cambridge University Press. 2000  
Marshall McLuhan, "The Medium is the Message" .1964  
Mulvey, Laura. "Visual pleasure and narrative cinema." In *Visual and other pleasures*, pp.  
14-26. Palgrave Macmillan, London, 1989.  
Schudson, M.. The sociology of news production. *Media, Culture & Society*, 11(3), 263-  
282.1989

### **PATTERN OF ASSESSMENT:**

**Continuous Assessment Test:** **Total Marks: 50** **Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components:** **Total Marks: 50**

Magazine/Newspaper Review/Presentation

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Sociology to  
B.A / B.Sc / B.Com / B.B.A/ B.V.A / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from Academic year 2019-2020)

**SOCIETY AND LAW**

**CODE:19SC/GE/SL22**

**CREDITS:2**

**LTP:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE:**

- To familiarize students to the Indian Legal System
- To explore the law in different fields
- To understand contemporary legal issues of relevance

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, students will be able to

- provide the students with the knowledge on different types of Law
- get familiarized with theoretical frameworks from sociology that are used to examine how the law shapes society and society shapes the law
- have Legal Awareness
- develop the skills to fight for their own rights

**Unit 1 (9 Hours)**

**Legal Literacy**

- 1.1 Definition of Legal Literacy
- 1.2 Legal Literacy- a tool for social justice
- 1.3 Public Interest Litigation
- 1.4 Legal aid Services in India
- 1.5 Right to Information Act 2005

**Unit 2 (9 Hours)**

**An Introduction to Indian Legal System and Marriage Laws**

- 2.1 Fundamental Rights and Writs
- 2.2. FIR- The requisites and Process
- 2.3 Hindu Marriage Act, 1955.
- 2.4. Special Marriage Act 1954
- 2.5 Indian Christian Marriage Act 1872
- 2.4 Triple Talaq bill

**Unit 3 (8 Hours)**

**Women, Children and Law**

- 3.1 Dowry Prohibition Act, 1961
- 3.2 Domestic Violence Act 2006

- 3.3 The Protection against Sexual Harassment of Women Act 2013
- 3.4 Protection of Children from Sexual Offences Act 2012
- 3.5 Juvenile Justice Act 2000 (Care and Protection of Children's Act)

### **BOOKS FOR STUDY**

Gangrade, K.D., Social Legislation in India. Volumes 1 & 2, New Delhi: Concept Publishing and Co. 1978

Jain M.A., Indian Constitutional Law (with Constitutional Documents) (in 2 Vols.). New Delhi, Jain book publishers 2013.

### **BOOKS FOR REFERENCE**

Gaur, K.D., Criminal Law: Cases and Materials. Lexis Nexis 7th Edition, 2013

Pillai, P.S.A., Criminal Law. Lexis Nexis Butterworths Wadhwa Nagpur Publishers, Tenth Edition, 2010

Ratanlal, Dhirajlal Indian Penal Code. Lexis Nexis Publishers, 2012

Ratanlal, Dhirajlal Code of Criminal Procedure. Lexis Nexis Publishers, 2012

Ratanlal, Dhirajlal The Law of Evidence. Lexis Nexis India, 2013

Seervai H.M., Doyen of Indian Constitutional Law. Universal law publishers, New Delhi, 2012.

### **WEB LINKS:**

[www.legalservicesindia.com/SupremeCourtJudgements](http://www.legalservicesindia.com/SupremeCourtJudgements)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes**

Section A – 3 x 2 = 6 marks (All three questions to be answered in 50 words each)

Section B – 3 x 8 = 24 marks (3 out of 5 questions to be answered in 250 words each)

Section C – 1 x 20 = 20 marks (1 out of 2 questions to be answered in 1200 words each)

**Other Components :**

**Total Marks: 50**

Case Studies/Seminar

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Sociology for  
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**SYLLABUS**

(Effective from Academic year 2019-2020)

**SOCIAL ENTREPRENEURSHIP**

**CODE:19SC/UI/SE23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To understand the role of social entrepreneurship in building a sustainable society
- To impart knowledge on how to build a social enterprise that can make a difference
- To impart theoretical and practical knowledge on Social Enterprise Management

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- get holistic knowledge which will enable them to develop social enterprise proposals for start-ups after completion of the course
- design to create social entrepreneurs with a commitment to social value creation
- apply the principles of social enterprise management with critical fervor practically in project goals
- contemplate on the various dimensions of socio-entrepreneurial capacity of society

**Unit 1**

**Introduction to Social Entrepreneurship**

- 1.1 Meaning of Social Entrepreneurship
- 1.2 Corporate Philanthropism and Social Enterprise
- 1.3 Social Change and Innovation
- 1.4 Early Forms and Current Trends in Social Entrepreneurship
- 1.5 **Types of Social Entrepreneurship:**
  - 1.5.1 Social Bricoleur
  - 1.5.2 Social Constructionist
  - 1.5.3 Social Engineers

**Unit 2**

**Social Entrepreneurship and Social Enterprise**

- 2.1 Difference between Enterprise and Social Enterprise
- 2.2 Importance of Social Entrepreneurship
- 2.3 Factors Leading to Entrepreneurial Success
- 2.4 Recognizing and Assessing New Opportunities
- 2.5 Fundraising for Social Ventures

**Unit 3**

**Social Entrepreneurship Motivation**

- 3.1 Altruism
- 3.2 Non-Profit Intentions
- 3.3 Corporate Social Responsibility

- 3.4 Non-Profit Partnerships
- 3.5 Social Enterprise Business Plan Interventions

## **Unit 4**

### **Women's social entrepreneurship and innovation**

- 4.1 Innovation by Women Initiated Social Enterprises
- 4.2 **Social Ventures:**
  - 4.2.1 Innovation
  - 4.2.2 Barriers to Innovation
- 4.3 Analysis of Five Cases of Female Social Entrepreneurs in India

## **Unit 5**

### **Social Enterprise in Practice**

- 5.1 Aravind Eye Hospital, Madurai
- 5.2 Jaipur Foot
- 5.3 Grameen Bank
- 5.4 SELCO
- 5.5 Bill Drayton's Ashoka Foundation

## **BOOKS FOR STUDY**

- Amutha, D, *Empowerment Self Help Groups and Women Entrepreneurship*. Delhi: Mangalam Publications, 2013
- Cynthia, L. Greene, *Entrepreneurship Ideas in Action*. Singapore: Thomson Asia Pvt. Ltd., 2004

## **BOOKS FOR REFERENCE**

- Balaraju, Theduri, *Entrepreneurship Development: An Analytical Study*. New Delhi: Akansha Publishing House, Uttam Nagar, 2004
- Chandra, Ravi, *Entrepreneurial Success: A Psychological Study*. New Delhi: Sterling Publication Pvt. Ltd., 2003
- David, Otes, *A Guide to Entrepreneurship*. Delhi: Jaico Books Publishing House, 2004
- Frank Martin, Marcus Thompson, *Social Enterprise: Developing Sustainable Businesses*. Palgrave Macmillan, 2010
- Paul Burns, *New Venture Creation: A Framework for Entrepreneurial Start-Ups*. Palgrave Macmillan, 2014
- Taneja, *Entrepreneurship*. New Delhi: Galgotia Publisher, 2004
- David Bornstein, Susan Davis, *Social Entrepreneurship: What Everyone Needs To Know*. USA: OUP: OUP USA Publishers, 2010
- Desai, Vasan, *Small-Scale Industries and Entrepreneurship*. Delhi: Himalaya Publishing House, 2002
- Kaulgud, Aruna, *Entrepreneurship Management*. Delhi: Vikas Publishing House, 2003
- Muhammad Yunus, *Banker to the Poor*. India: Penguin India, 2007

## **Excerpts from Books and Reading Materials:**

- Alan Khazei, *Big Citizenship*
- Bill Milliken: *From the Rear View Mirror: Reflecting on Connecting the Dots*
- David Bornstein. *How to Change the World: Social Entrepreneurs and the Power of New Ideas*
- David Bornstein and Susan Davis, *Social Entrepreneurship: What Everyone Needs to Know*

J. Gregory Dees, *The Meaning of Social Entrepreneurship*  
Jim Collins, *Good to Great for the Social Sector*  
John Elkington and Pamela Hartigan, *The Power of Unreasonable People*  
Leslie Crutchfield and Heather McCleod, *Forces for Good*  
Muhammed Yunus, *Banker to the Poor: Micro-Lending and the Battle Against World Poverty*  
Bill Strickland, *Make the Impossible, Possible*  
Peter Drucker, *Innovation and Entrepreneurship*

### **WEB RESOURCES:**

Harvard Business Review, Key Traits of Entrepreneurs-An interview with John Elkington, Founder and Chief Entrepreneur, Sustainability. Social entrepreneurs

<https://www.youtube.com/watch?v=FV7wn77QLMc>

"Social Entrepreneurship" - Ashoka's Bill

Drayton Speaks<https://www.youtube.com/watch?v=eEc61DnLQ30>

Solving problems using social innovation and entrepreneurship: Jeffrey Robinson at TEDxBroadStreet

<https://www.youtube.com/watch?v=6xh9H5XuO40>

The Power of Social Entrepreneurship: P R Ganapathy at TEDxGolfLinksPark

<https://www.youtube.com/watch?v=VZQvhsa6LN0>

### **PATTERN OF ASSESSMENT**

**End Semester Examination:**

**Total Marks:100**

**Duration:3 hours**

Section A – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

Section B – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words each)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Sociology to  
B.A. / B.Sc. / B.Com / B.B.A. / B.V.A. / B.S.W. Degree Programmes**

**SYLLABUS**

(Effective from Academic year 2019-2020)

**SOCIAL NETWORKING**

**CODE:19SC/UI/SN23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To introduce the students to the concept of social networking and its development
- To examine various spaces of network building
- To detail the varied perspectives of network as an area of study

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- have an understanding of evolving human communications and interactions
- critically look at the social, political, and economic aspects of the way networks function
- understand the impact of social networks on contemporary society
- equip the student of a sociological understanding of enabling and disabling factors of network formations in society

**Unit 1**

**Meaning of Social Networking**

- 1.1 Perspectives on community - Tonnies, Wellman, Berman, and Oldenberg
- 1.2 Concept of Social Networking
- 1.3 History of Social Network Analysis
- 1.4 Mark Granovetter's concept of 'Strength of weak ties'

**Unit 2**

**Social Capital**

- 2.1 Concept of Social Capital – Putnam, Coleman, Portes
- 2.2 Social Networking and Social Relationships – Social Networking and Interpersonal Communication
- 2.3 Networks of Reciprocity; Putnam's Norms of trust

**Unit 3**

**Social Networking and Cyberspace**

- 3.1 Roots and visions of social cyberspace – Social Cyberspace in the past
- 3.2 Origin and development of social media as a lens for viewing the evolution of the institutional, social, and technological aspects of today's cyberfied world
- 3.3 Manuel Castell's Network Society

## Unit 4

### Imagining community and discussing it virtually

- 4.1 Network society - Online social networks - Community-centered online media (and offline life) and Networked individualism
- 4.2 Virtual Community and Real Life - Ways online social activities change our lives
- 4.3 Relationships, Communities - Control over our communication practices, design of technologies, values

## Unit 5

### Collective action and Public opinion – Social Networking Perspective

- 5.1 Power of social cyberspaces to organize collective action in the physical world
- 5.2 Public opinion in internet era – Online discourses and the health of democracy

## BOOKS FOR REFERENCE

Barabási, A. *Linked: The New Science of Networks*. Cambridge: Perseus Books Group. 2002.  
Berman, M. *All That is Solid Melts Into Air: The Experience of Modernity*. New York: Penguin, 1988.  
Oldenburg, R. *The Great Good Place*. New York: Marlowe, 1991.  
Ostrom, E. *Governing the Commons: The Evolution of Institutions for Collective Action*. Cambridge: University Press, 1990, pp 1-28  
Resnick P. *Beyond Bowling Together: Sociotechnical Capital. Human-Computer Interaction in the New Millenium*. edited by John Carroll. New Delhi: Dorling Kindersly, , 2007.

## JOURNALS:

Granovetter M., *The Strength of Weak Ties, A Network Theory Revisited, Sociological Theory*. 1983  
Turner, F., *Where the counterculture met the new economy: the WELL and the origins of virtual community, Technology and Culture*. Volume 46, Number 3, July 2005, pp. 485-512 available online as PDF.

## WEB RESOURCES

[http://cyber.eserver.org/vr\\_comun.txt](http://cyber.eserver.org/vr_comun.txt).  
<http://www.fantrust.com/2007/10/trebor-scholz-history-of-the-social-web/>  
Rheingold H., *A Slice of Life in My Virtual Community*. 1992.-  
[http://www.cs.indiana.edu/docproject/bdgtti/bdgtti\\_18.html](http://www.cs.indiana.edu/docproject/bdgtti/bdgtti_18.html)  
Rheingold, H., *The Heart of The Well*. from *The Virtual Community*, available online, 1993.-<http://www.rheingold.com/vc/book/>

## PATTERN OF ASSESSMENT

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

**Section A** – 10 x 2 = 20 marks (All 10 questions to be answered in 50 words each)

**Section B** – 5 x 8 = 40 marks (5 out of 8 questions to be answered in 250 words each)

**Section C** – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1200 words)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**  
**B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.C.A. / B.S.W. DEGREE PROGRAMME**  
**FOUNDATION COURSE : TAMIL**  
**COURSES OF STUDY**  
**(Effective from the academic year 2019-2020)**  
**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
<b>SEMESTER-I</b>										
19TM/FC/KK13	Kavithai Katturai (கவிதை கட்டுரை)	3	3	1	0	3	50	50	100	
<b>SEMESTER-II</b>										
19TM/FC/AI23	Arranerri Ilakkiyam (அறநெறி இலக்கியம்)	3	3	1	0	3	50	50	100	
<b>SEMESTER-III</b>										
19TM/FC/KP33	Kappiyam Puranam (காப்பியம் புராணம்)	3	3	1	0	3	50	50	100	
<b>SEMESTER-IV</b>										
19TM/FC/SI43	Sanga Ilakkiyam (சங்க இலக்கியம்)	3	3	1	0	3	50	50	100	
<b>GENERAL ELECTIVE COURSES</b>										
19TM/GE/NK22	Nattupurakkalai (நாட்டுப்புறக்கலை)	2	2	0	0	-	50	-	100	
19TM/GE/PI22	Padaippilakkiyam (படைப்பிலக்கியம்)	2	2	0	0	-	50	-	100	
19TM/GE/PT22	Potti Thervu Tamil (போட்டித் தேர்வு தமிழ்)	2	2	0	0	-	50	-	100	
19TM/GE/NT22	Nadaga Tamil (நாடகத் தமிழ்)	2	2	0	0	-	50	-	100	
19TM/GE/MP22	Medaipechu (மேடைப் பேச்சு)	2	2	0	0	-	50	-	100	
19TM/GE/BT22	Basic Tamil-I (அடிப்படைத் தமிழ் - I)	2	2	0	0	-	50	-	100	
19TM/UE/AT22	Advance Tamil-I (வளர்நிலைத் தமிழ் - I)	2	2	0	0	-	50	-	100	
19TM/GE/BT32	Basic Tamil-II (அடிப்படைத் தமிழ் - II)	2	2	0	0	-	50	-	100	
19TM/UE/AT32	Advanced Tamil-II (வளர்நிலைத் தமிழ் - II)	2	2	0	0	-	50	-	100	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE PROGRAMME  
SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – TAMIL**

**KAVITHAI KATTURAI (கவிதை கட்டுரை)**

செய்யுள், இலக்கிய வரலாறு, கட்டுரை, படைப்பிலக்கியம்

**CODE : 19TM/FC/KK13**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**தாளின் நோக்கம்:**

- கவிதைகள் மூலம் மாணவர்களுக்குச் சமகால சமூகச் சிந்தனைகளை வெளிப்படுத்துதல்,
- படைப்புத்திறனை வளர்த்தல், சான்றோர் வாழ்வியல் நிகழ்வுகள் வழி மாணவர் தம் ஆளுமையினை உருவாக்குதல்

**தாளின் பயன்கள்**

- படைப்பிலக்கிய எழுத்தாளராகலாம்
- தலைமைத்துவம் நிறைந்த தலைவராகலாம்
- சமகாலச் சமூகச் சிந்தனைகளை அறிந்து, செயல் வீரராகலாம்

**அலகு- 1**

**(14 மணிநேரம்)**

1.1 மனோன்மணியம் சுந்தரனார்

1.1.1. தமிழ்த்தாய் வாழ்த்து

1.2 மகாகவி பாரதியார்

1.2.1 தமிழ்

1.2.2 புதிய ஆத்திசூடி (அச்சம் தவிர் - செளரியம் தவறேல்)

1.3 பாவேந்தர் பாரதிதாசன் - அழகின் சிரிப்பு

1.3.1 குரங்கின் அச்சம்

1.3.2 பறவையுஞ்சல்

1.3.3 குயில் விருந்து

1.4 கவிஞர் கவிமணி தேசிக விநாயகம் பிள்ளை

1.4.1. பெண்களின் உரிமை

1.4.2. உடல் நலம் பேணல்

1.4.3. உழைக்க வேண்டும்

1.5 கவிஞர் பட்டுக்கோட்டை கல்யாண சுந்தரம்

1.5.1. உழைப்பும் தேவை

1.5.2. பட்டாடைகள் மறைக்குது

1.6 கவிஞர் நாமக்கல் வெ. இராமலிங்கம்

1.6.1 புத்தாண்டு வணக்கம்

## அலகு - 2

(12 மணிநேரம்)

2.1 கவிஞர் வைரமுத்து

2.1.1 மரம்

2.2 கவிஞர் முனைவர் இளசை சுந்தரம்

2.2.1 நெருப்பு

2.3 கவிஞர் அ. வெண்ணிலா

2.3.1. குழந்தை

2.3.2. புன்னகை

2.3.3. கவிதை ஆளுமை

2.4 நாட்டுப்புறப் பாடல்கள்

2.4.1. வையம்பட்டி முத்துச்சாமி – வையம்பட்டி முத்துச்சாமி  
பாடல்கள்

2.5 திரையிசைப் பாடல்கள், கவிதைகள்

2.5.1 கவிஞர் கண்ணதாசன் - மயக்கமா? கலக்கமா?

கண்போன போக்கிலே கால்  
போகலாமா....

2.5.2 கண்ணதாசன் கவிதைகள் - 'அவன்தான் இறைவன்'

(மூன்றாம் தொகுதி)

2.5.3 கவிஞர் நா.முத்துக்குமார் - ஆனந்த யாழை மீட்டுகிறாய்....

அழகே அழகு...

2.5.4 நா.முத்துக்குமார் கவிதைகள் - உயில், உள்ளும் புறமும், நில்  
கவனி செல், வாழ்க்கை, குட்டி புத்தரின் கோபம்

2.5.5 கவிஞர் பா.விஜய் - ஒவ்வொரு பூக்களுமே .....

2.5.6 கவிஞர் பா.விஜய் - உடைந்த நிலாக்கள் - நிழல் தேடாதே

**அலகு - 3**

**(8 மணிநேரம்)**

இலக்கிய வரலாறு - பாடம் தழுவியது

**அலகு - 4**

**(10 மணிநேரம்)**

உரைநடை - 'மேலோர் வாழ்வில் 100 மேன்மையான சம்பவங்கள்'

ந. இராஜாராம் (2016) - தேர்ந்தெடுக்கப்பட்ட 25  
மேன்மையான சம்பவங்கள்

**அலகு - 5**

**(8 மணிநேரம்)**

5.1 படைப்பிலக்கியம் படைத்தல்

5.1.1. புதுக்கவிதை படைத்தல்

5.1.2. சிறுகதை படைத்தல்

**பாட நூல்**

'கவிதை கட்டுரை - தமிழ்த்துறை வெளியீடு

**பார்வை நூல்கள்**

1. 'ஆதியில் சொற்கள் இருந்தன'

கவிஞர் அ.வெண்ணிலா

முதற்பதிப்பு,2002

மதி நிலையம் சென்னை.

**2.பாவேந்தர் பாரதிதாசன் கவிதைகள்**

அண்ணாமலை.அழ(பதி.)

அபிராமி பதிப்பகம்

சென்னை 2003

**3. மகாகவி பாரதியார் கவிதைகள்**

இராமநாதன் விகரு(பதி.)

இந்து பதிப்பகம்

சென்னை 2007

**4.இருபதாம் நூற்றாண்டுத் தமிழ் கவிஞர்கள்**

தேசியப் பார்வை

முனைவர். இ.ஆர் இரவிச்சந்திரன்

முதற் பதிப்பு 2013 கார்முகில் பதிப்பகம் திருச்சி

**5. கவிஞர் வைரமுத்து - தண்ணீர் தேசம்**

திருமகள் பதிப்பகம், சென்னை 2014

**6.‘நாமக்கல் கவிஞர் பாடல்கள்’- இராமலிங்கம் பிள்ளை**

முதற் பதிப்பு 2014

நியூ செஞ்சுரி புக் ஹவுஸ்

அம்பத்தூர் சென்னை

**7.அண்மைக் காலக் கவிதைத் தொகுப்புகள்**

(வரலாறும் விமர்சனமும்)

ச.முருகேசப்பாண்டியன்

முதற்பதிப்பு – 2016 வெளியீடு- பாரதி புத்தகாலயம் மதுரை

**8. ‘கவிமணி தேசிய விநாயகம் பிள்ளையின் கவிதைகள்’**

தொகுப்பு – முனைவர் ஸ்ரீகுமார்

முதற்பதிப்பு 2016

சாகித்ய அகாதமி வெளியீடு

சென்னை

**9. கவிதையின் தோற்றமும் வளர்ச்சியும்**

முனைவர் . ஞானம்

முதற் பதிப்பு- 2017

சாரதா பதிப்பகம்

சென்னை

10. 'விடியலின் வெளிச்சம் கவிதைகள்' - கவிஞர் முனைவர் இளசை சுந்தரம்

முதற் பதிப்பு- 2017

புகழ் பதிப்பகம்

மதுரை

11. கண்ணதாசன் கவிதைகள் (மூன்றாம் தொகுதி) – கவிஞர்  
கண்ணதாசன்  
15 ஆம் பதிப்பு – செப்டம்பர் 2002  
வானதி பதிப்பகம்  
சென்னை.

12 நா.முத்துக்குமார் கவிதைகள் - கவிஞர் நா.முத்துக்குமார்  
முதற்பதிப்பு – 2016  
பட்டாம்பூச்சி பதிப்பகம், சென்னை.

13 உடைந்த நிலாக்கள் - கவிஞர் பா.விஜய்  
11-ஆவது பதிப்பு – 2015  
குமரன் பதிப்பகம், சென்னை.

**பார்வை இதழ்கள்**

1. படிகம்,
2. உயிர்மை,
3. காலச்சுவடு,
4. புதுப்புனல்
5. கல்குதிரை
6. எழுத்து

பருவத் தேர்வு வினா அமைப்பு முறை

மதிப்பெண்: 100

நேரம்: 3

மணிநேரம்

பகுதி - அ

(அ) அனைத்துக் கேள்விகளுக்கும் விடை தருக

10x1 = 10



(ஆ) கோடிட்ட இடங்களை நிரப்புக  $5 \times 1 = 5$

(இ) பொருத்துக  $5 \times 1 = 5$

**பகுதி - ஆ**

(அ) இடம்சுட்டிப் பொருள் விளக்கம் தருக  $3 \times 3 = 9$

(எவையேனும் மூன்றனுக்கு)  $3/5$

(ஆ) பின்வரும் வினாக்களுக்குச் செய்யுள் பகுதியிலிருந்து  $4 \times 9 = 36$

விடையளிக்க (எவையேனும் நான்கனுக்கு)  $4/6$

(இ) இலக்கிய வரலாறு – பாடம் தழுவியது  $1 \times 10 = 10$

(ஏதேனும் ஒன்றனுக்கு)  $1/3$

**பகுதி - இ**

(அ) கட்டுரை (ஏதேனும் ஒன்று)  $1/3$   $1 \times 15 = 15$

(ஆ) படைப்பிலக்கியம் படைத்தல் (ஏதேனும் ஒன்று)  $1/2$   $1 \times 10 = 10$

**தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்பு முறை**

மதிப்பெண்: 50

நேரம்:  $1\frac{1}{2}$  மணிநேரம்

**பகுதி - அ**

(அ) அனைத்துக் கேள்விகளுக்கும் விடை தருக  $10 \times 1 = 10$

(ஆ) கோடிட்ட இடங்களை நிரப்புக  $5 \times 1 = 5$

(இ) பொருத்துக  $5 \times 1 = 5$

**பகுதி - ஆ**

(அ) இடம்சுட்டிப் பொருள் விளக்கம் தருக  $2 \times 3 = 6$

(எவையேனும் இரண்டனுக்கு)  $2/3$

(ஆ) பின்வரும் வினாக்களுக்குச் செய்யுள் பகுதியிலிருந்து  $2 \times 7 = 14$

விடையளிக்க (எவையேனும் இரண்டனுக்கு)  $2/3$

(இ) இலக்கிய வரலாறு – பாடம் தழுவியது  $1 \times 10 = 10$

(ஏதேனும் ஒன்றனுக்கு)  $1/3$

**துணைப்பாடத் தேர்வு வினா அமைப்பு முறை**

மதிப்பெண்: 50

(அ) கட்டுரை

(ஆ) படைப்பிலக்கியம் படைத்தல்

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE PROGRAMME  
SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – TAMIL**

**ARRANERRI ILAKKIYAM (அறநெறி இலக்கியம்)**

செய்யுள், இலக்கிய வரலாறு, சிறுகதை, கலைச்சொற்கள்

**CODE: 19TM/FC/AI23**

**CREDITS: 3**

**LTP: 3 1 0**

**TOTAL TEACHING HOURS: 52**

**தாளின் நோக்கம்:**

- அற இலக்கியங்களின் வழி நன்னெறிகளை உணர்த்துதல்
- தற்காலச் சிறுகதைகளின் உள்ளடக்கம், நோக்கு, போக்கு, உத்திகளை அறியச் செய்து அவற்றின் மூலம் சமூக நடப்பியல் எவ்வாறு பிரதிபலிக்கப்படுகின்றது என்பதை உணர்த்தித் திறனாய்வு செய்தல்
- காலத்தின் தேவைக்கேற்ப தமிழில் உருவாக்கப்படும் புதிய கலைச்சொற்களை அறிமுகப்படுத்துதல்

**தாளின் பயன்கள்**

- நன்னெறிகளை வாழ்க்கையில் பின்பற்றி மேம்படுதல்
- தற்காலச் சிறுகதைகளின் வழி சமூக விழிப்புணர்வையும் படைப்பாளர்களின் ஆளுமையையும் அறிதல்
- கலைச்சொற்களை அறிவதன் மூலம் தமிழ்மொழியின் வளத்தையும் அச்சொற்களை நடைமுறையில் கையாளும் திறனையும் உணர்தல்

**அலகு 1**

**(12 மணிநேரம்)**

**1.1 திருக்குறள்**

- |                     |               |
|---------------------|---------------|
| 1.1.1. நடுவு நிலைமை | - அதிகாரம் 12 |
| 1.1.2. வினைசெயல்வகை | - அதிகாரம் 68 |

**1.2. நாலடியார்**

- |                             |             |
|-----------------------------|-------------|
| 1.2.1. அனுபவிக்காது இழப்பர் | - பாடல் 10  |
| 1.2.2. என்றும் அறம் செய்    | - பாடல் 36  |
| 1.2.3. இலட்சியம்            | - பாடல் 80  |
| 1.2.4. குணம் மாறவே மாறா     | - பாடல் 112 |

- 1.2.5. நல்லவற்றைக் கற்க - பாடல் 135
- 1.2.6. கடலும் ஊற்றும் - பாடல் 275
- 1.3. இனியவை நாற்பது
- 1.3.1. புறங்கூறாமை, அடக்கமுடைமை, கொடை - பாடல் 19
- 1.3.2. வெகுளாமை, பொறுமை, செய்திறன் - பாடல் 24
- 1.3.3. ஐம்பொறி அடக்கல், கல்லாரை விலக்கல் - பாடல் 25
- 1.3.4. கயவரை நீங்கல், இகழ், புகழ் - பாடல் 29
- 1.3.5. ஊக்கம், முயற்சி, சமரசம் - பாடல் 33

## அலகு 2

(12 மணிநேரம்)

### 2.1 பழமொழி

- 2.1.1. தம்மைத் தாமே புகழ்வோரைப் பிறர் புகழ்தல் - பாடல் 67
- 2.1.2. மறைவிலும் தீவினை செய்யாமை - பாடல் 76
- 2.1.3. கருத்தை முகம் அறிவித்தல் - பாடல் 144
- 2.1.4. கயவர்மேல் காரியம் வைத்தவர் நன்மையடையார் - பாடல் 170
- 2.1.5. சிறிது சிறிதாய்ச் சேர்ந்து பெருஞ்செல்வமாதல் - பாடல் 201
- 2.1.6. கொடுக்கக் கொடுக்கச் செல்வம் பெருகும் - பாடல் 378

### 2.2. நான்மணிக்கடிகை

- 2.2.1. இகழ்தல், ஏற்றல், சினத்தல், தீயசொல்லல் - பாடல் 01
- 2.2.2. பாழ்பிறப்பிடமும் சிறப்பிடமும் - பாடல் 04
- 2.2.3. சிதைப்பன - பாடல் 21
- 2.2.4. கல்லாத மூத்தான், கற்ற இளையான் - பாடல் 63
- 2.2.5. கள்ளாமை, தள்ளாமை, நள்ளாமை, கொள்ளாமை - பாடல் 85

### 2.3. முதுமொழிக் காஞ்சி - 'அறிவுப் பத்து'

## அலகு 3

(12 மணிநேரம்)

### 3.1 முதுரை

- 3.1.1. தக்கவர்க்குச் செய்த உதவி - பாடல் 02
- 3.1.2. உருவு கண்டு எள்ளாமை - பாடல் 12
- 3.1.3. உடன் பிறந்தாரும் பிறரும் - பாடல் 20
- 3.1.4. வஞ்சனை உடையார் இயல்பு - பாடல் 25
- 3.1.5. மன்னனும் கற்றோனும் - பாடல் 26
- 3.1.6. திருமகளின் நிலை - பாடல் 29

### 3.2. அறநெறிச்சாரம்

- 3.2.1. அறம் பத்து - பாடல் 12
- 3.2.2. கற்றவர்க்குரிய ஒழுக்கம் - பாடல் 71

- 3.2.3. உண்மை அறம் உரைப்பவரே நண்பர் - பாடல் 93  
 3.2.4. அறம் கூறி ஒழுகுவார் தாய் அனையார் - பாடல் 96  
 3.2.5. பழிப்பிலா வாழ்க்கைக்குரிய செயல்கள் - பாடல் 106

3.3. அன்னையின் மணி மாலை, முனைவர் ஆலிஸ் ஜோசப் - 20  
 குறட்பாக்கள்

#### அலகு 4

(12 மணிநேரம்)

பல்வேறு எழுத்தாளர்களின் பத்து சிறுகதைகள், மிஷின் யுகம் -  
 புதுமைப்பித்தன், செவ்வாழை - சி.என். அண்ணாத்துரை, கதவு - கி. இராஜ  
 நாராயணன், அன்பளிப்பு - கு. அழகிரிசாமி, இரண்டு குழந்தைகள் - ஜெயகாந்தன்,  
 மிட்டாய்க்காரன் - கி.வ. ஜகந்நாதன், நரிப்பல் - இறையன்பு, காட்டில் ஒரு மான் -  
 அம்பை, வண்ணத்துப்பூச்சிகள் பறந்துவிட்டன - அழகிய பெரியவன், ஒரு கழுதையின்  
 கதை - தாமஸ் பால் - சிறுகதைகள் பத்து, ஸ்டெல்லா மாரிஸ் கல்லூரி வெளியீடு.

#### அலகு 5

(4 மணிநேரம்)

கலைச்சொற்கள் (ஆங்கிலச் சொற்களுக்கு இணையான கலைச்சொற்கள்)

பாடநூல்:

அறநெறி இலக்கியம் - தமிழ்த்துறை வெளியீடு, ஸ்டெல்லா மாரிஸ் கல்லூரி

பார்வை நூல்கள்:

தமிழண்ணல், புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சி புத்தக  
 நிலையம், மதுரை, 2015 (33ஆம் பதிப்பு)

திருவிவிலியம், புதிய ஏற்பாடு, தமிழ் நாடு விவிலிய மறைக்கல்வி மற்றும்  
 வழிபாட்டு மையம் (TNBCLC), திண்டிவனம் - 604002, 2011

அறவாணன் க. ப., புதிய பார்வையில் பதினெண்கீழ்க்கணக்கு, மூலம்  
 தெளிவுரை சிறப்புரை கருத்து அடைவு, தமிழ்க் கோட்டம் பதிப்பகம், சென்னை - 29,  
 2010

புலவர் ச. சீனிவாசன், வித்துவான் நா. பழனியப்பன், (உரையாசிரியர்கள்)  
 வாசன் தமிழ் நீதிச்செல்வம், சாந்தா பப்ளிஷர்ஸ், சென்னை - 14, 1995

பருவத் தேர்வு வினா அமைப்பு முறை

மதிப்பெண்: 100

நேரம்: 3 மணிநேரம்

பகுதி - அ

(அ) அனைத்துக் கேள்விகளுக்கும் விடை தருக

10x1 = 10

(ஆ) கோடிட்ட இடங்களை நிரப்புக

5x1 = 5

(இ) பொருத்துக

5x1 = 5

**பகுதி - ஆ**

- (அ) இடம்சுட்டிப் பொருள் விளக்கம் தருக  $3 \times 3 = 9$   
(எவையேனும் மூன்றனுக்கு,  $3/5$ )
- (ஆ) செய்யுள் பகுதியிலிருந்து விடையளிக்க  $4 \times 9 = 36$   
(எவையேனும் நான்கனுக்கு,  $4/6$ )
- (இ) இலக்கிய வரலாறு - பாடம் தழுவியது  $1 \times 10 = 10$   
(ஏதேனும் ஒன்றனுக்கு,  $1/3$ )

**பகுதி - இ**

- (அ) சிறுகதைத் திறனாய்வு (ஏதேனும் ஒன்று,  $1/3$ )  $1 \times 15 = 15$
- (ஆ) கலைச்சொற்களை எழுதுக.  $10 \times 1 = 10$
- (ஆங்கிலச் சொற்களுக்கு இணையான கலைச் சொற்களை எழுதுதல்,  $10/15$ )

**தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்பு முறை**

மதிப்பெண்: 50

நேரம்:  $1\frac{1}{2}$  மணிநேரம்

**பகுதி - அ**

- (அ) அனைத்துக் கேள்விகளுக்கும் விடை தருக  $10 \times 1 = 10$
- (ஆ) விடுபட்ட இடங்களை நிரப்புக  $5 \times 1 = 5$
- (இ) பொருத்துக  $5 \times 1 = 5$

**பகுதி - ஆ**

- (அ) இடம்சுட்டிப் பொருள் விளக்கம் தருக  $2 \times 3 = 6$   
(எவையேனும் இரண்டனுக்கு,  $2/3$ )
- (ஆ) செய்யுள் பகுதியிலிருந்து விடையளிக்க  $2 \times 7 = 14$   
(எவையேனும் இரண்டனுக்கு,  $2/3$ )
- (இ) இலக்கிய வரலாறு - பாடம் தழுவியது  $1 \times 10 = 10$   
(ஏதேனும் ஒன்றனுக்கு,  $1/3$ )

**துணைப்பாடத் தேர்வு வினா அமைப்பு முறை**

மதிப்பெண்: 50

- (அ) சிறுகதைத் திறனாய்வு
- (ஆ) கலைச்சொற்களை எழுதுதல்

**STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086**

**B.A. / B.Sc. / B.V.A. / B.S.W. DEGREE PROGRAMME**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – TAMIL**

**KAPPIYAM PURANAM (காப்பியம் புராணம்)**

**செய்யுள், இலக்கிய வரலாறு, நாவல், மொழிபெயர்ப்பு**

**CODE : 19TM/FC/KP33**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**தாளின் நோக்கம்:**

- காப்பியங்கள், புராணங்கள் வழி தமிழர் பண்பாட்டு வரலாற்றினை அறியச்செய்தல்
- சமகால நாவலின் வழி மனித வாழ்க்கையின் பயனை எடுத்துக்காட்டுதல்
- இன்றைய நடைமுறைத் தேவைக்கு ஏற்ப மொழிபெயர்ப்பின் வழி மொழி ஆளுமையை வளரச் செய்தல்.

**தாளின் பயன்கள்**

- புராணக் கதைகளை மாணவர்கள் அறிந்து கொள்ளுதல்
- நாவல்கள் மூலமாகச் சமூக விழிப்புணர்வு பெறுதல்
- காப்பியங்கள் வழி, வாழ்வியல் சிந்தனைகளைப் புரிந்துக் கொள்ளுதல்

**அலகு – 1**

**(14 மணிநேரம்)**

1.1. சிலப்பதிகாரம் - காட்சிக் காதை

(வரிகள் 56-63வரை, வரிகள் 122-149 வரை)

1.2. மணிமேகலை – மந்திரம் கொடுத்த காதை (75 – 93 வரிகள்)

1.3. சீவக சிந்தாமணி – நாமகளிலம்பகம் (10 பாடல்கள்)

1.4. கம்பராமாயணம் - அயோத்தியா காண்டம்

- வரலாற்றுப்படலம் (1பாடல்)

- கார்முகப் படலம் (14 பாடல்கள்)

## அலகு – 2

(14 மணிநேரம்)

- 2.1. திருத்தொண்டர் புராணம் – காரைக்கால் அம்மையார் (20பாடல்கள்)
- 2.2. சீறாப்புராணம் - நதி கடந்த படலம் (15 பாடல்கள்)
- 2.3. தேம்பாவணி - நீர் வரம் அடைந்த படலம் (10 பாடல்கள்)
- 2.4. திருத்தொண்டர் காப்பியம் (17 பாடல்கள்)

## அலகு – 3

இலக்கிய வரலாறு பாடம் தழுவியது

(8 மணிநேரம்)

## அலகு – 4

நாவல்

(12 மணிநேரம்)

வேரில் பழுத்த பலா – சு. சமுத்திரம்

## அலகு – 5

மொழிபெயர்ப்பு – பத்தி மொழிபெயர்ப்பு (ஆங்கிலத்திலிருந்து தமிழில்) (4 மணிநேரம்)

### பாடநூல்

காப்பியம் புராணம் - தமிழ்த்துறை வெளியீடு

### பார்வை நூல்கள்:

சிலப்பதிகாரம், அடியார்க்கு நல்லார் உரை

மணிமேகலை, கழக வெளியீடு, சென்னை.

சீவகசிந்தாமணி, கழக வெளியீடு, சென்னை

காப்பிய நோக்கில் கம்ப ராமாயணம், முனைவர்.அ. பாண்டிரங்கன்,

நியூ செஞ்சுரி புக் ஹவுஸ், சென்னை, 2007

திருத்தொண்டர் புராணம், சேக்கிழார், திருப்பனந்தாள் ஸ்ரீ காசி மடம்  
வெளியீடு, 1950

காப்பியநெறி, தி. ருமா, தியாகராசா பதிப்பகம், காரைக்குடி, 2002

புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, தமிழண்ணல், மீனாட்சி

புத்தக நிலையம், மதுரை, 2015.

பருவத் தேர்வு வினா அமைப்பு முறை

மதிப்பெண்: 100

நேரம்: 3 மணிநேரம்

பகுதி - அ

(அ) அனைத்துக் கேள்விகளுக்கும் விடை தருக  $10 \times 1 = 10$

(ஆ) கோடிட்ட இடங்களை நிரப்புக  $5 \times 1 = 5$

(இ) பொருத்துக  $5 \times 1 = 5$

பகுதி - ஆ

(அ) இடம்கூட்டிப் பொருள் விளக்கம் தருக  $3/5$   $3 \times 3 = 9$

(எவையேனும் மூன்றனுக்கு)

(ஆ) பின்வரும் வினாக்களுக்குச் செய்யுள் பகுதியிலிருந்து  $4 \times 9 = 36$

விடையளிக்க (எவையேனும் நான்கனுக்கு)  $4/6$

(இ) இலக்கிய வரலாறு – பாடம் தழுவியது  $1/3$   $1 \times 10 = 10$

(ஏதேனும் ஒன்றனுக்கு)

பகுதி - இ

(அ) நாவல் திறனாய்வு (ஏதேனும் ஒன்று)  $1/3$   $1 \times 15 = 15$

(ஆ) மொழிபெயர்ப்பு செய்தல் (ஏதேனும் ஒன்று)  $1 \times 10 = 10$

தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்பு முறை

மதிப்பெண்: 50

நேரம்:  $1\frac{1}{2}$  மணிநேரம்

பகுதி - அ

(அ) அனைத்துக் கேள்விகளுக்கும் விடை தருக  $10 \times 1 = 10$

(ஆ) கோடிட்ட இடங்களை நிரப்புக  $5 \times 1 = 5$

(இ) பொருத்துக  $5 \times 1 = 5$



## பகுதி - ஆ

(அ) இடம்கூட்டிப் பொருள் விளக்கம் தருக

$$2 \times 3 = 6$$

(எவையேனும் இரண்டனுக்கு)

(ஆ) பின்வரும் வினாக்களுக்குச் செய்யுள் பகுதியிலிருந்து

$$2 \times 7 = 14$$

விடையளிக்க (எவையேனும் இரண்டனுக்கு)

(இ) இலக்கிய வரலாறு – பாடம் தழுவியது

$$1 \times 10 = 10$$

(ஏதேனும் ஒன்றனுக்கு)

**துணைப்பாடத் தேர்வு வினா அமைப்பு முறை**

**மதிப்பெண்: 50**

(அ) நாவல்

(ஆ) மொழிபெயர்ப்பு செய்தல்

**STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086**

**B.A. / B.Sc. / B.S.W. DEGREE PROGRAMME  
SYLLABUS**

(Effective from the academic year 2019-2020)

**FOUNDATION COURSE – TAMIL  
SANGA ILAKKIYAM (சங்க இலக்கியம்)**

செய்யுள், இலக்கிய வரலாறு, நாடகம், கடிதம்

**CODE : 19TM/FC/SI43**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**தாளின் நோக்கம்:**

- சங்க இலக்கியங்களின் சிறப்பு – அகம், புறத்திணைகளின் நயம் அறியச் செய்தல்.
- நாடகத் தமிழின் சிறப்பினை உணர்த்துதல்.
- சமூக ஊடக வளர்ச்சியால் மறைந்து போன கடிதத் தொடர்பினைக் கண்டறியச்செய்தல்.

**தாளின் பயன்கள்**

- சங்க இலக்கியம் காட்டும் வரலாற்றுச் செய்திகள், வாழ்வியல் கூறுகளை அறிந்து கொள்ளுதல்.
- நாடகச் சிறப்பினை அறிந்து கொண்டு நடிப்புத்திறனை மேம்படுத்துதல்.
- சங்க இலக்கியம் வழி இயற்கையின் மேன்மையை உணரச் செய்தல்.

**அலகு 1**

**(16 மணிநேரம்)**

**1.1. நற்றிணை**

- 1.1.1. குறிஞ்சி – பாடல் 1
- 1.1.2. நெய்தல் - பாடல் 45
- 1.1.3. நெய்தல் - பாடல் 172
- 1.1.4. முல்லை - பாடல் 371

**1.2. குறுந்தொகை**

- 1.2.1 பாலை - பாடல் 56
- 1.2.2 மருதம் - பாடல் 75

1.2.3 முல்லை - பாடல் 108

1.2.4 முல்லை - பாடல் 275

1.2.5 பாலை - பாடல் 378

### 1.3 ஐங்குறுநூறு

1.3.1 மருதம் - வேட்கைப் பத்து - பாடல் 2

1.3.2 மருதம் - தோழி கூற்றுப் பத்து - பாடல் 56

1.3.3 நெய்தல் - தோழிக்கு உரைத்த பத்து - பாடல் 112

1.3.4 குறிஞ்சி - அன்னாய் வாழிப் பத்து - பாடல் 203

1.3.5 குறிஞ்சி - குன்றக் குறவன் பத்து - பாடல் 251

1.3.6 பாலை - செலவுப் பத்து - பாடல் 312

### 1.4 புறநானூறு

1.4.1 வாகைத்திணை - பாடல் 51

1.4.2 காஞ்சித்திணை - பாடல் 72

1.4.3 பாடாண்திணை - பாடல் 91

1.4.4 பாடாண்திணை - பாடல் 101

1.4.5 வாகைத்திணை - பாடல் 279

அலகு - 2

(16 மணிநேரம்)

### 2.1 திருமுருகாற்றுப்படை

2.1.1 பாடல் அடி 295 முதல் 317 வரை

### 2.2 பெரும்பாணாற்றுப்படை

2.2.1 பாடல் அடி 297 முதல் 319 வரை

### 2.3 முல்லைப்பாட்டு

2.3.1 பாடல் அடி 29 முதல் 54 வரை

### 2.4 மலைபடுகடாம்

2.4.1 பாடல் அடி 305 முதல் 329 , 345 அடி முதல் 347 அடிவரை

**அலகு - 3**

**(5 மணிநேரம்)**

இலக்கிய வரலாறு - பாடம் தழுவியது

**அலகு - 4**

**(10 மணிநேரம்)**

நாடகம் - சருகுகள் (இளையோருக்கான சமூக நாடகங்கள்)

ஆசிரியர்கள்:போசு, டினோ,பெர்லின்

**அலகு - 5**

**(5 மணிநேரம்)**

5.1 கடிதம் எழுதுதல்

5.1.1 அலுவலகக் கடிதம் - விண்ணப்பக்கடிதம்

5.1.2 தனிநபர்க்கடிதம்

**பாடநூல்**

சங்க இலக்கியம் - தமிழ்த்துறை வெளியீடு

**பார்வை நூற்கள்**

இராமரத்தினம், குறுந்தொகை, கங்கை புத்தக நிலையம், சென்னை, முதல் பதிப்பு (2002).

புலியூர்க் கேசிகன், நற்றிணை, கங்கை புத்தக நிலையம், சென்னை, முதல் பதிப்பு (2010).

புலியூர்க் கேசிகன், ஐங்குறுநூறு, கங்கை புத்தக நிலையம், சென்னை, முதல் பதிப்பு (2010).

புலியூர்க் கேசிகன், புறநானூறு, கங்கை புத்தக நிலையம், சென்னை, முதல் பதிப்பு (2010).

ச.வே. சுப்பிரமணியன், பத்துப்பாட்டு, மணிவாசகர் பதிப்பகம், சென்னை, இரண்டாம் பதிப்பு (2010)

தமிழண்ணல், புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சி புத்தக நிலையம், மதுரை, 33 ஆம் பதிப்பு (2015).

போசு, டினோ,பெர்லின், சருகுகள் (இளையோருக்கான சமூக நாடகங்கள்), வைகறை பதிப்பகம், திண்டுக்கல், (2017).

பருவத் தேர்வு வினா அமைப்பு முறை

மதிப்பெண்: 100

நேரம்: 3

மணிநேரம்

பகுதி - அ

(அ) அனைத்துக் கேள்விகளுக்கும் விடை தருக  $10 \times 1 = 10$

(ஆ) கோடிட்ட இடங்களை நிரப்புக  $5 \times 1 = 5$

(இ) பொருத்துக  $5 \times 1 = 5$

பகுதி - ஆ

(அ) இடம்கூட்டிப் பொருள் விளக்கம் தருக  $3 \times 3 = 9$

(எவையேனும் மூன்றனுக்கு)  $3/5$

(ஆ) பின்வரும் வினாக்களுக்குச் செய்யுள் பகுதியிலிருந்து  $4 \times 9 = 36$

விடையளிக்க (எவையேனும் நான்கனுக்கு)  $4/6$

(இ) இலக்கிய வரலாறு – பாடம் தழுவியது  $1 \times 10 = 10$

(ஏதேனும் ஒன்றனுக்கு)  $1/3$

பகுதி - இ

(அ) நாடகத் திறனாய்வு (ஏதேனும் ஒன்று)  $1/3$   $1 \times 15 = 15$

(ஆ) கடிதம் (ஏதேனும் ஒன்று)  $1/2$   $1 \times 10 = 10$

தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்பு முறை

மதிப்பெண்: 50

நேரம்: 1½ மணிநேரம்

பகுதி - அ

(அ) அனைத்துக் கேள்விகளுக்கும் விடை தருக  $10 \times 1 = 10$

(ஆ) கோடிட்ட இடங்களை நிரப்புக  $5 \times 1 = 5$

(இ) பொருத்துக  $5 \times 1 = 5$

பகுதி - ஆ

(அ) இடம்கூட்டிப் பொருள் விளக்கம் தருக  $2 \times 3 = 6$

(எவையேனும் இரண்டனுக்கு)  $2/3$

(ஆ) பின்வரும் வினாக்களுக்குச் செய்யுள் பகுதியிலிருந்து  $2 \times 7 = 14$

விடையளிக்க (எவையேனும் இரண்டனுக்கு)  $2/3$

(இ) இலக்கிய வரலாறு – பாடம் தழுவியது  $1 \times 10 = 10$

(ஏதேனும் ஒன்றனுக்கு)  $1/3$

துணைப்பாடத் தேர்வு வினா அமைப்பு முறை

மதிப்பெண்: 50

(அ) நாடகத் திறனாய்வு

(ஆ) கடிதம்

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(Effective from the academic year 2019-2020)

**NATTUPURAKKALAI (நாட்டுப்புறக்கலை)**

**CODE: 19TM/GE/NK22**

**CREDITS:2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**தாளின் நோக்கம்:**

- நாட்டுப்புறக் கலைகளை அறியாத மாணவச் சமுதாயத்திற்கு அறியச் செய்தல்
- தமிழக நாட்டுப்புறக் கலைகளின் வழி பண்பாட்டினை அறிதல்

**தாளின் பயன்கள்**

- நாட்டுப்புறக் கலைகள் அழியாமல் பாதுகாக்கப்படுகிறது
- நாட்டுப்புறக் கலைஞராதல்.

**அலகு 1 நாட்டுப்புறவியல், நாட்டுப்புற இலக்கியம் அறிமுகம் (9 மணிநேரம்)**

- 1.1. நாட்டுப்புறவியல் அறிமுகம்
- 1.2. நாட்டுப்புற இலக்கியம்
- 1.3 நாட்டுப்புறப் பாடல்கள்
- 1.4 கதைப்பாடல்கள் மற்றும் ஆட்டப் பாடல்கள்

**அலகு 2 நாட்டுப்புறக் கலைகள்**

**(8 மணிநேரம்)**

- 2.1 நாட்டுப்புறக் கலைகள் அறிமுகம்
- 2.2 ஆட்டங்கள் (காவடி, கரகம், தேவராட்டம், ஓயில், சும்மி

போன்றன)

2.3 கூத்துகள் அறிமுகம்

2.4 தெருக்கூத்து, பாவைக்கூத்து, கணியான் கூத்து

**அலகு 3 கைவினைத் திறன்கள் மற்றும் திருவிழாக்கள்**

**(9 மணிநேரம்)**

3.1 கைவினைப் பொருட்கள் அறிமுகம்

3.2 பனையோலை மற்றும் கோரைப்புல்லில் செய்யப்படும் பொருட்கள்

3.3 பொம்மைகள் மற்றும் கலைப்பொருட்கள் செய்தல்

3.4 திருவிழாக்கள் மற்றும் நாட்டுப்புற உணவுமுறைகள்

**பார்வை நூல்கள்**

நாட்டார் வழக்காற்றியல் ஓர் அறிமுகம், தே. லுர்து, பாரிவேல் பதிப்பகம், பாளையங்கோட்டை, 1976.

நாட்டுப்புறப் பாடல்கள் திறனாய்வு, ஆறு அழகப்பன், அண்ணாமலைப்

பல்கலைக்கழக வெளியீடு, சிதம்பரம், 1983

நாட்டுப்புறவியல், சு. சக்திவேல், மணிவாசகர் பதிப்பகம், சென்னை, 1981

தமிழர் நாட்டுப்பாடல்கள், நா. வானமாமலை, என். சி. பி. எச் வெளியீடு,

சென்னை

**தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்புமுறை (50 மதிப்பெண்)**

**அ) எழுத்துத் தேர்வு (25 மதிப்பெண்)**

I. அனைத்துக் கேள்விகளுக்கும் விடையளிக்க:  $5 \times 2 = 10$

II. பத்தி வினாக்களுக்கு விடையளிக்க (3/5):  $3 \times 5 = 15$

**ஆ) திட்ட ஆய்வு அறிக்கை (25 மதிப்பெண்)**

I. நாட்டுப்புறக்கலைகள் சிலவற்றை நேரில் கண்டு திட்ட அறிக்கை சமர்ப்பித்தல்-  
15 மதிப்பெண்

II. நீவிர் விரும்பும் 'நாட்டுப்புறக்கலை' ஒன்றினைக் குறித்து திட்ட அறிக்கை,  
சமர்ப்பித்தல்: 10 மதிப்பெண்



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**SYLLABUS**

**(Effective from the academic year 2019-2020)**

**PADAIPPILAKKIYAM (படைப்பிலக்கியம்)**

**CODE: 19TM/GE/PI22**

**CREDITS: 2**

**LT P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**தாளின் நோக்கம்:**

- மாணவியின் படைப்புத் திறனை வளர்த்தல்
- இதழ்களில் எழுத வழிகாட்டுதல்

**தாளின் பயன்கள்**

- கவிதைகள், சிறுகதைகள் எழுதும் முறையைக் கற்றுக்கொள்ளுதல்
- புதுக்கவிதைகள், ஒரு பக்கக் கதைகள், சிறுகதைகள் எழுதுதல்.
- இதழ்களில் எழுதுதல், சிறந்த படைப்பாளராதல்.

**அலகு 1 புதுக்கவிதை, ஹைக்கூ**

**(10 மணிநேரம்)**

- 1.1. அறிமுகம், கற்பனை, கருத்து, வடிவம், உணர்ச்சி
- 1.2. புதுக்கவிதை வரலாறு
- 1.3. ஜப்பான் நாட்டில் தோன்றிய புது வடிவக் கவிதை
- 1.4. ஜப்பானியக் கவிதைகளைத் தமிழில் மொழிபெயர்த்த அப்துல் ரகுமான், சி.மணி போன்றோர் கவிதைகளை எடுத்துக் கூறல்

**அலகு – 2 சிறுகதை, ஒரு பக்கக் கதை**

**(10 மணிநேரம்)**

- 2.1 வரையறை , விளக்கம்
- 2.2 சிறுகதை வளர்ச்சி
- 2.3 சிறந்த சிறுகதைகள்
- 2.4 ஒரு பக்கக் கதைகளைச் சான்று காட்டுதல்

- 3.1 புதுக்கவிதை எழுதப் பயிற்சி
- 3.2 ஹைக்கூ எழுதப் பயிற்சி
- 3.3 சிறுகதை எழுதப் பயிற்சி
- 3.4 ஒரு பக்கக் கதை எழுதப் பயிற்சி

**பார்வை நூல்கள்**

1. எழுதும் கலை - அலெக்சி டால்ஸ்டாய்  
தமிழில் தி.சு நடராஜன்  
இரண்டாம் பதிப்பு 2016
- 2.தமிழ்ப் புதுக்கவிதைகளில் மேற்கத்திய தாக்கம்  
முனைவர். சுந்தர ஆவுடையப்பன்  
முதற் பதிப்பு 2015
- 3.அண்மைக் காலக் கவிதைத் தொகுப்புகள்  
(வரலாறும் விமர்சனமும்)  
ச.முருகேசப்பாண்டியன்  
முதற்பதிப்பு – 2016
4. கவிதையின் தோற்றமும் வளர்ச்சியும்  
முனைவர். ஞானம்  
முதற் பதிப்பு-2017  
சாரதாபதிப்பகம்-சென்னை
5. படைப்புக்கலை – முனைவர்.மு.சுதந்திரமுத்து, சுவடு, சென்னை, முதற்பதிப்பு  
1999.

**தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்புமுறை (50 மதிப்பெண்)**

**அ) எழுத்துத் தேர்வு (25 மதிப்பெண்)**

I. படைப்பிலக்கியம் : தலைப்புக் கொடுத்துப் புதுக்கவிதை எழுதுதல் - 15 மதிப்பெண்

II. படைப்பிலக்கியம் : தலைப்புக் கொடுத்துச் சிறுகதை எழுதுதல் - 10 மதிப்பெண்

ஆ) உடனடித் தலைப்புகளில் படைப்பாற்றல் (25 மதிப்பெண்)

I. உடனடித் தலைப்புக் கொடுத்து எழுதவைத்தல்

- புதுக்கவிதை சமர்ப்பித்தல் - 15 மதிப்பெண்

II. உடனடித் தலைப்பு கொடுத்து எழுதவைத்தல்

- சிறுகதை சமர்ப்பித்தல் - 10 மதிப்பெண்

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**SYLLABUS**

(Effective from the academic year 2019-2020)

**POTTI THERVU TAMIL (போட்டித் தேர்வு தமிழ்)**

**CODE: 19TM/GE/PT22**

**CREDITS: 2**

**LTP: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**தாளின் நோக்கம்:**

- போட்டித் தேர்வுகளான TNPSC, IAS ஆகியவற்றை எதிர்கொள்ளும் ஆற்றலை உருவாக்குதல்.
- அரசப்பணிகளுக்குச் செல்ல வழிகாட்டுதல்.

**தாளின் பயன்கள்**

- போட்டித் தேர்வுகளுக்குப் பயிற்சி பெறுதல்.
- போட்டித் தேர்வுகளில் வெற்றி பெற்று அரசப் பணி பெறுதல்.

**அலகு 1 தமிழ் இலக்கணம்**

**(10 மணிநேரம்)**

- 1.1. அகர வரிசைப்படுத்துதல், பிழைத் திருத்தம், இலக்கணக் குறிப்பு
- 1.2. ஒலி வேறுபாடு, வேர்ச்சொல், சொல்வகை, வாக்கிய வகை,
- 1.3. ஆங்கிலச் சொல்லுக்கு இணையானத் தமிழ்ச்சொல்
- 1.4. செய்யுள் உறுப்புக்கள்

**அலகு 2 தமிழ் இலக்கியம்**

**(10 மணிநேரம்)**

- 2.1 சங்க இலக்கியம்
- 2.2 நீதி இலக்கியம்
- 2.3 காப்பியங்கள், புராணங்கள்
- 2.4 சிற்றிலக்கியங்கள், பக்தி இலக்கியங்கள்
- 2.5 இக்கால இலக்கியம், பிற இலக்கியங்கள்

### அலகு 3 பொதுத்தமிழ்

(6 மணிநேரம்)

- 3.1 தமிழறிஞர்களும் தமிழ்த்தொண்டும்
- 3.2 தமிழர்க் கலைகள்
- 3.3 தமிழகமும் தமிழரும்
- 3.4 விடுதலைப் போராட்டத்தில் தமிழ்ப் பெண்கள்

#### பாடநூற்கள்

1. இலக்கிய வரலாறு - பேராசிரியர் - மது. ச. விமலானந்தம்

#### பார்வை நூற்கள்

1. பொதுத்தமிழ் இலக்கணம் - முனைவர் ஜெ. சசிக்குமார்

நாமகள் பதிப்பகம்,

மதுரை,

வெளியீடு - 2016

2. நற்றமிழ் இலக்கணம் - சோ.பரமசிவம்

ஐந்திணைப் பதிப்பகம்

சென்னை

வெளியீடு – 2014.

3. தமிழ்நாடு அரசுப்பணியாளர் தேர்வாணையத் தேர்வு வினாத்தாள்கள்

4. TNPSC.Gov.in

**தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்புமுறை (50 மதிப்பெண்)**

**அ) எழுத்துத் தேர்வு -1 (25 மதிப்பெண்)**

எவையேனும் இருபத்தைந்து வினாக்களுக்கு விடையளிக்க (25/30):  $25 \times 1 = 25$

**ஆ) எழுத்துத் தேர்வு - 2 (25 மதிப்பெண்)**

எவையேனும் இருபத்தைந்து வினாக்களுக்கு விடையளிக்க (25/30):  $25 \times 1 = 25$

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**  
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**SYLLABUS**

(Effective from the academic year 2019-2020)

**NADAGA TAMIL (நாடகத் தமிழ்)**

**CODE: 19TM/GE/NT22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**தாளின் நோக்கம்:**

- நாடகத்தமிழின் சிறப்புகளை உணர வைத்தல்
- நாடகத்தின் வாயிலாகக் கருத்தைப் புலப்படுத்தும் உத்தியை அறிய
- வைத்தல்.

**தாளின் பயன்கள்**

- மேடை நாடகங்கள், வீதி நாடகங்களின் மூலம் சமூக விழிப்புணர்வும், முற்போக்கு சிந்தனையும் அதிகரிக்கிறது.
- நாடகப் பயிற்சிகள் மூலம் மாணவர்களின் நடிப்புத் திறன் மேம்படுகிறது.

**அலகு 1 நாடகம் - அறிமுகம், தோற்றம் , வளர்ச்சி (9 மணிநேரம்)**

- 1.1. தமிழ் நாடகத் தோற்றம் - சங்க இலக்கியம் வழியாக
- 1.2. சிலப்பதிகாரம் - நாடகக் கூறுகள்
- 1.3 தமிழில் உலக நாடக வளர்ச்சியின் செல்வாக்கு
- 1.4 நாடக வகைகள் - புராண, வரலாற்று, சமூக நாடகங்கள் அறிமுகம்

**அலகு 2 மேடை நாடகங்கள் மற்றும் நவீன அரங்கம் (8 மணிநேரம்)**

- 2.1 நாடக ஆளுமைகள் - பம்மல் சம்மந்த முதலியார், சங்கரதாஸ்  
சுவாமிகள்

2.2 மேடை நாடகங்கள் - விடுதலைக்கு முன், விடுதலைக்குப் பின்

2.3 நவீன அரங்கச் செயல்பாடுகள்

2.4 அரங்க அமைப்பு, ஒப்பனை

**அலகு 3 ஊடகம் , வீதி நாடகங்கள், நாடகப் பயிற்சி (9 மணிநேரம்)**

3.1 ஊடகங்களில் நாடகங்கள் - வானொலி, தொலைக்காட்சி,

3.2 வீதி நாடகங்கள்

3.3 நவீன புதிய உத்தி நாடகங்கள்

3.4 நாடகப் பயிற்சி அளித்தல்

**பார்வை நூல்கள்**

தமிழ் நாடகத் தோற்றமும் வளர்ச்சியும், முனைவர் ஆறு. ஆழகப்பன், அண்ணாமலைப் பல்கலைக்கழகம், 1987.

அரங்கக் கலை, முனைவர் சக்தி பெருமாள், ஜி பதிப்பகம், மதுரை,1990

இருபதாம் நூற்றாண்டுத் தமிழ் நாடகங்கள், உலகத் தமிழாராய்ச்சி நிறுவனம், சென்னை, 1999

பெண் - அரங்கம் தமிழ்ச்சூழல், அ. மங்கை, ஸ்நேகா பதிப்பகம், சென்னை,2001

**தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்புமுறை (50 மதிப்பெண்)**

**அ) எழுத்துத் தேர்வு (25 மதிப்பெண்)**

I. அனைத்துக் கேள்விகளுக்கும் விடையளிக்க:  $5 \times 2 = 10$

II. பத்தி வினாக்களுக்கு விடையளிக்க  $(3/5) :$   $3 \times 5 = 15$

**ஆ)திட்டக் கட்டுரை, நாடகம் அரங்கேற்றம் (25 மதிப்பெண்)**

I. திட்டக்கட்டுரை சமர்ப்பித்தல் - 10 மதிப்பெண்

II. மாணவியரே தலைப்பு தேர்ந்தெடுத்து குழுவாக அரங்கேற்றச் செய்தல் - 15 மதிப்பெண்





**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course Offered by the Department of Tamil to  
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. /B.V.A / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MEDAI PECHU (மேடைப் பேச்சு)**

**CODE: 19TM/GE/MP22**

**CREDITS: 2**

**LTP: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**தாளின் நோக்கம்:**

- பேசும் கலை வளர்த்தல்
- மேடையில் பேசுவதற்குப் பயிற்சி அளித்தல்

**தாளின் பயன்கள்**

- பேச்சாளராக உருப்பெறுதல்
- பேச்சாளர்களுக்கு உரிய தகுதிகளையும் திறன்களையும் நடைமுறையில் செயல்படுத்த முற்படுதல்

**அலகு 1 பேச்சுக் கலை**

**(9 மணிநேரம்)**

- 1.1. பேச்சுக் கலை – ஓர் அறிமுகம்
- 1.2. பேச்சு தயாரிக்கும் முறையும் தொடங்கும் முறையும்
- 1.3. மேடைப் பேச்சும் விழிப்புணர்வும்
- 1.4. நடைமுறையில் பேச்சுக் கலை
  - 1.4.1. பேச்சுக் கலை – சிக்கல்கள்
  - 1.4.2. பேச்சுக் கலை – வடிவங்கள்
  - 1.4.3. பேச்சுக் கலை – மெய்ப்பாடுகள்
  - 1.4.4. பேச்சுக் கலை – வளர்க்கும் மேடைகள்

**அலகு 2 மேடைப் பேச்சாளர்கள், மேடைப் பேச்சும் ஊடகமும் (9 மணிநேரம்)**

- 2.1. மேடைப் பேச்சாளர்கள்
  - 2.1.1. உலகளாவிய மேடைப் பேச்சாளர்கள்
  - 2.1.2. தமிழகத்தின் தலைசிறந்த மேடைப் பேச்சாளர்கள்

2.1.3. மேடைப் பேச்சும் புத்தக வாசிப்பும்

2.1.4. மேடைப் பேச்சும் சொல் வளமும்

2.2. மேடைப் பேச்சும் ஊடகமும்

2.2.1. வானொலி

2.2.1. தொலைக்காட்சி

2.2.1. இதழ்கள்

2.2.1. இணையம், பிற சமூக ஊடகங்கள்

**அலகு 3** பேச்சுக் கலைக்குப் பயிற்சி வழங்குதல்

**(8 மணிநேரம்)**

3.1. இனிய குரல், தெளிவான உச்சரிப்பு

3.2. நடப்பியல் பேச்சு

3.3. தன்னம்பிக்கையுடன் பேசுதல்

3.4. பேச்சின் எடுப்பு, தொடுப்பு, முடிப்பு

**பார்வை நூல்கள்:**

குமரி அனந்தன், பேச்சுக் கலைப் பயிற்சி, வானதி பதிப்பகம், சென்னை, 2015

டேல் கார்னகி, மேடைப் பேச்சுக் கலை, கண்ணதாசன் பதிப்பகம், 2015

**தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்புமுறை (50 மதிப்பெண்)**

**அ) எழுத்துத் தேர்வு (25 மதிப்பெண்)**

I. அனைத்துக் கேள்விகளுக்கும் விடையளிக்க:  $5 \times 2 = 10$

II. பத்தி வினாக்களுக்கு விடையளிக்க (3/5):  $3 \times 5 = 15$

**ஆ) வாய்மொழித்தேர்வு (25 மதிப்பெண்)**

I. தலைப்பு கொடுத்துப் பேச வைத்தல் - 10 மதிப்பெண்

II. உடனடித் தலைப்பு கொடுத்துப் பேச வைத்தல் - 15 மதிப்பெண்

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course Offered by the Department of Tamil to  
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. /B.V.A / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BASIC TAMIL-I (அடிப்படைத் தமிழ் - I)**

**CODE :19TM/GE/BT22**

**CREDITS :2**

**L T P :2 0 0**

**TOTAL TEACHING HOURS :26**

**தாளின் நோக்கம்:**

- பிறமொழி பேசுகின்ற தமிழறியாத மாணவர்களுக்குத் தமிழ் மொழியைப் பேசுவதற்கும் எழுதுவதற்கும் கற்றுக் கொடுத்தல்.
- தமிழ் எழுத்துக்களைப் பிழையின்றி எழுதுதல்

**தாளின் பயன்கள்**

- தமிழ் மொழி அறியாத மாணவர்கள் தமிழை அறிந்துகொள்ளுதல்
- தமிழ் எழுத்துக்கள், சொற்கள், தொடர்களை அறிந்து தமிழில் பேசுதல்

**அலகு 1**

**8 மணிநேரம்**

- 1.1. பேச்சுத் தமிழ் அறிதல்
- 1.2. எழுத்துத் தமிழ் அறிதல்
- 1.3 அன்றாட வாழ்வில் பயன்படுத்தும் சொற்களை எளிய முறையில் அறிமுகம் செய்தல்

**அலகு 2**

**10 மணிநேரம்**

- 2.1 தமிழ் மொழியில் உயிர் எழுத்துக்கள் எழுத கற்றுக்கொடுத்தல்
- 2.2 மெய் எழுத்துக்கள் கற்றுக்கொடுத்தல்
- 2.3 உயிர்மெய் எழுத்துக்கள் எழுத கற்றுக்கொடுத்தல்

**அலகு – 3**

**8 மணிநேரம்**

- 3.1 ஓரெழுத்துச் சொற்களைக் கற்றுக்கொடுத்தல்
- 3.2 ஈரெழுத்துச் சொற்களைக் கற்றுக்கொடுத்தல்
- 3.3 தமிழில் பேச, எழுதப் பயிற்சி அளித்தல்

தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்புமுறை (50 மதிப்பெண்)

அ) வாய்மொழித்தேர்வு (25 மதிப்பெண்)

கேள்விகள் அமைத்தல் - அலகு 2, 3

ஆ) எழுத்துத் தேர்வு (25 மதிப்பெண்)

கேள்விகள் கேட்டல் - அலகு 1

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**General Elective Course Offered by the Department of Tamil to  
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. /B.V.A / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ADVANCED TAMIL - I** (வளர்நிலைத் தமிழ் - I)

செய்யுள், ஒரு பக்கக்கதை, படைப்பிலக்கியம்

**CODE :19TM/GE/AT22**

**CREDITS :2**

**L T P :2 0 0**

**TOTAL TEACHING HOURS :26**

**தாளின் நோக்கம்:**

தற்காலக் கவிதைகள் மற்றும் கதைகள் மூலம் மாணவர்களுக்குச் சமகால சமூகச் சிந்தனைகளை வெளிப்படுத்துதல் மற்றும் படைப்புத்திறனை வளர்த்தல்

**அலகு- 1**

**(12 மணிநேரம்)**

- 1.1 மகாகவி பாரதியார் - வருகின்ற பாரதத்தை வாழ்த்துதல்
- 1.2 பாவேந்தர் பாரதிதாசன் - அழகின் சிரிப்பு - அழகு
- 1.3 கவிஞர் கவிமணி தேசிக விநாயகம் பிள்ளை – கோவில் வழிபாடு
- 1.4 நாமக்கல் கவிஞர் - தேசிய மலர்
- 1.5 கவிஞர் மு.மேத்தா – தாய்
- 1.6 கவிஞர் பா.விஜய் - புன்னகை என்ன விலை?
- 1.7 கவிஞர் முனைவர் இளசை சுந்தரம் - அதிசய மனிதர் அப்துல்கலாம்
- 1.8 ஹைகூ கவிதைகள்

**அலகு - 2**

**(6 மணிநேரம்)**

தேர்ந்தெடுக்கப்பட்ட ஒரு பக்கக் கதைகள்

3.1 படைப்பிலக்கியம் படைத்தல்

3.1.1. புதுக்கவிதை படைத்தல்

3.1.2. ஒரு பக்கக்கதை படைத்தல்

**பார்வை நூல்கள்**

**1.பாவேந்தர் பாரதிதாசன் கவிதைகள்**

அண்ணாமலை.அழ(பதி.)

அபிராமி பதிப்பகம்

சென்னை 2003

**2. மகாகவி பாரதியார் கவிதைகள்**

இந்து பதிப்பகம்

சென்னை 2007

**3. மு.மேத்தா கவிதைகள்**

கவிதா பப்ளிகேஷன்

சென்னை 2011

**4.‘நாமக்கல் கவிஞர் பாடல்கள்’- இராமலிங்கம் பிள்ளை**

நியூ செஞ்சுரி புக் ஹவுஸ்

அம்பத்தூர் சென்னை 2014

**5. ‘கவிமணி தேசிக விநாயகம் பிள்ளையின் கவிதைகள்’**

தொகுப்பு – முனைவர் ஸ்ரீகுமார்

சாகித்ய அகாதமி வெளியீடு

சென்னை 2016

**6. ‘விடியலின் வெளிச்சம் கவிதைகள்’ - கவிஞர் முனைவர் இளசை சுந்தரம்**

புகழ் பதிப்பகம்

மதுரை 2017

தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்பு முறை

மதிப்பெண் : 50

மதிப்பெண் : 25 (அ) எழுத்துத் தேர்வு

மதிப்பெண் : 25 (ஆ) எழுத்துத் தேர்வு

**STELLA MARIS COLLEGE (Autonomous), CHENNAI – 600 086**  
**General Elective Course Offered by the Department of Tamil to**  
**B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. /B.V.A / B.S.W. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BASIC TAMIL-II (அடிப்படைத் தமிழ் - II)**

**CODE:19TM/GE/BT32**

**CREDITS:2**

**LTP :2 0 0**

**TOTAL TEACHING HOURS:26**

**தாளின் நோக்கம்:**

- தமிழில் உரையாடல், வாக்கியங்கள் அமைக்கக் கற்றுக்கொடுத்தல்
- பொது இடங்களில் தமிழில் உரையாடக் கற்றுக்கொடுத்தல்.

**தாளின் பயன்கள்**

- தமிழ் மொழியின் சிறப்பை உணர்ந்து கொள்ளுதல்
- தமிழில் காணப்படும் எளிய இலக்கியங்களில் தேர்ச்சி பெறுதல்

**அலகு 1**

**8 மணிநேரம்**

- 1.1. உயிர்க் குறில், உயிர் நெடில் - பயிற்சி அளித்தல்
- 1.2. வல்லினம், மெல்லினம், இடையினம் - அறியச் செய்தல்
- 1.3 எளிய சொற்களின் வழி ஒலி, எழுத்து வேறுபாடு அறியச் செய்தல்

**அலகு 2**

**10 மணிநேரம்**

- 2.1 பயன்தரக்கூடிய பொதுவான உரையாடல்
- 2.2 எளிய தொடரமைப்புப் பயிற்சி
- 2.3 பேச்சு வழக்குச் சொற்களுக்கு நல்ல தமிழ்ச் சொற்களைக் கற்றுக்கொடுத்தல்

**அலகு – 3**

**8 மணிநேரம்**

- 3.1 தமிழில் வாசித்தல், பொருள் கூறல், ஆங்கிலத்திலுள்ள சிறு வார்த்தைகளை மொழிபெயர்த்தல்
- 3.2 பாரதியாரின் பாப்பா பாட்டு , ஆத்திசூடி கற்றுக்கொடுத்தல்
- 3.3 தமிழில் தொடர் வாசிப்புப் பயிற்சி அளித்தல்

தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்புமுறை (50 மதிப்பெண்)

அ) வாய்மொழித்தேர்வு (25 மதிப்பெண்)

கேள்விகள் அமைத்தல் - அலகு1,2,3:

1.3, 2.1, 2.3, 3.1, 3.2, 3.3

ஆ) எழுத்துத் தேர்வு (25 மதிப்பெண்)

கேள்விகள் கேட்டல் - அலகு1,2,3:

1.1, 1.2, 2.2, 3.1



**STELLA MARIS COLLEGE, (Autonomous), CHENNAI-600086**  
**General Elective Course Offered by the Department of Tamil to**  
**B.A./B.Sc./ B.Com/B.B.A./B.C.A./ B.V.A./ B.S.W. DEGREE**  
**SYLLABUS**

**Effective from the academic year 2019-2020**

**ADVANCED TAMIL – II**

**வள்ளர்நிலைத்தமிழ் - II**

**செய்யுள், உரைநடை, கலைச்சொற்கள்**

**CODE : 19TM/GE/AT32**

**CREDITS : 2**

**LTP :200**

**TOTAL TEACHING HOURS : 26**

**தாளின் நோக்கம்:**

- ❖ அற இலக்கியங்களின் வழி நன்னெறிகளை உணர்த்துதல்
- ❖ சங்க இலக்கியங்களின் சிறப்பு – அகம், புறத்திணைகளின் நயம் அறியச் செய்தல்.
- ❖ காலத்தின் தேவைக்கேற்ப தமிழில் உருவாக்கப்படும் புதிய கலைச்சொற்களை அறிமுகப்படுத்துதல்

**அலகு 1**

**(10 மணிநேரம்)**

1.1 திருக்குறள்

1.1.1. அன்புடைமை - அதிகாரம் 8

1.1.2. நட்பு - அதிகாரம் 79

1.2 இனியவை நாற்பது

1.2.1. ‘மன்றின் முதுமக்கள்’ - பாடல் 18

1.2.2. ‘நன்றிப் பயன்தூக்கி’ - பாடல் 30

1.3. முதுமொழிக் காஞ்சி - ‘சிறந்த பத்து’

1.4. ஔவையார் - ஆத்திச்சூடி (அறம் செய விரும்பு – ஔவியம் பேசேல்)

**அலகு 2**

**(10 மணிநேரம்)**

2.1 கண்ணதாசன் - இயேசு காவியம் - 2 பாடல்கள்

“தத்துவ ஞானம்.....”

“மண்ணிடை இயேசு.....”

2.2. ஐங்குறுநூறு - பாடல் 203 - கபிலர் - குறிஞ்சி - அன்னாய் வாழிப்பத்து

2.3. புறநானூறு - பாடல் 312 - பொன்முடியார் - வாகை - முதினமுல்லை

3.1 உரைநடை – ‘மேலோர் வாழ்வில் 100 மேன்மையான சம்பவங்கள்’

ந. இராஜாராம் (2016)

3.2. கலைச்சொற்கள் (ஆங்கிலச் சொற்களுக்கு இணையான கலைச்சொற்கள்)

#### பார்வை நூல்கள்

1. கவிஞர் பத்மதேவன், தமிழ்ப்பிரியன் (உரையாசிரியர்கள்), நீதிநூல் களஞ்சியம், கொற்றவை வெளியீடு, சென்னை, 2018.
2. அறவாணன் க. ப., புதிய பார்வையில் பதினெண்கீழ்க்கணக்கு, தமிழ்க் கோட்டம் பதிப்பகம், சென்னை, 2010.
3. புலியூர்க் கேசிகன், ஐங்குறுநூறு, கங்கை புத்தக நிலையம், சென்னை, 2010.
4. புலியூர்க் கேசிகன், புறநானூறு, கங்கை புத்தக நிலையம், சென்னை, 2010.
5. புலவர் ச. சீனிவாசன், வித்துவான் நா. பழனியப்பன், (உரையாசிரியர்கள்) வாசன் தமிழ் நீதிச்செல்வம், சாந்தா பப்ளிஷர்ஸ், சென்னை , 1995.
6. கண்ணதாசன், இயேசு காவியம், கலைக்காவிரி வெளியீடு, திருச்சிராப்பள்ளி, 1992.

#### தொடர்மதிப்பீட்டுத் தேர்வு வினா அமைப்பு முறை

மதிப்பெண்: 50

மதிப்பெண்: 25 (அ) எழுத்துத் தேர்வு

மதிப்பெண்: 25 (ஆ) எழுத்துத் தேர்வு

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

**Upon graduation, students of Stella Maris College will**

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI- 600086**

**DEPARTMENT OF TOURISM AND HOSPITALITY**

**PROGRAMME DESCRIPTION**

The B.Voc. Degree programme on Tourism and Hospitality has been initiated by the college this year in keeping with the felt need to have well trained personnel with requisite skills and competency to take up careers in the tourism and hospitality industry. Being a service industry there is ample scope for jobs both in the semi-skilled and skilled sectors. The programme has multiple exit points: those who finish two semesters can leave with a diploma; those who finish four semesters, with an advanced diploma; and those who complete the entire three-year programme, with a degree. Being a skill development programme, the students will be industry ready on completion. In the conduct of the programme there will be a close collaboration with leading travel and hospitality agencies to ensure maximum industry exposure and experience. Students will be doing courses on Front Office Management, Travel Agency and Tour Operators Management, Advertising for Tourism, Public Relations for Tourism, Tour Guiding and Travel Consultancy, Human Resource Management, Hospitality Management, Tourism and Cuisines, Tourism Law, Forex and Insurance, Airport Customer Relations, Entrepreneurship in Tourism, etc., and they will be able to take up careers as Front Office Personnel, Travel Desk Operators, Travel Agents, Tour Operators, Tour Guides, Tour Managers, Human Resource Managers, Housekeeping Managers, Food and Beverage Managers, Tourism Board personnel, and Travel Consultants.

**Programme Specific Learning Outcomes**

By the end of the programme students will be able to

- understand the dimensions of the Tourism industry.
- explain aspects of Indian culture and heritage.
- collect, collate and analyse facts on the subject.
- prepare comprehensive travel itineraries and brochures.
- create route maps.
- function as travel consultants.
- perform as tour guides.
- manage tour programmes.
- book airline, train and bus tickets.
- make hotel reservations.

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086****B.Voc. DEGREE:TOURISM AND HOSPITALITY****COURSES OF STUDY****(Effective from the academic year 2019-2020)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
19VT/VM/IT16	Introduction to Tourism	6	3	0	3	3	25	75	100
19VT/VM/TA16	Travel Agency and Tour Operators Management	6	3	0	3	3	25	75	100
19VT/VA/MS15	Map Study	5	4	0	1	3	25	75	100
19VT/UE/AT12	Advertising for Tourism Business	2	2	0	0	-	25	-	100
19UV/ET/VP12	Values in Personal Life	2	2	0	0	-	25	-	100
SEMESTER-II									
19VT/VM/FM26	Front Office Management	6	3	0	3	3	25	75	100
19VT/VM/IH26	Indian Heritage and Culutre	6	3	0	3	3	25	75	100
19VT/VA/IG25	International Tourism Geography	5	5	0	1	3	25	75	100
19VT/UE/TW22	Travel Writing	2	2	0	0	-	25	-	100
19VT/US/SE22	Soft Skills for Employability	2	2	0	0	-	25	-	100
19EA/GM/. .21	Extension Activities	1							
SEMESTER-III									
19VT/VM/AA36	Art and Architecture of India	6	3	0	3	3	25	75	100
19VT/VM/HM36	Hospitality Management	6	3	0	3	3	25	75	100
19VT/VA/TM35	Tourism Marketing	5	5	0	0	3	25	75	100
19VT/UC/ES32	Environmental Studies	2	2	0	0	-	25	-	100
19UV/ET/SP32	Society and Peace Initiatives	2	2	0	0	-	25	-	100
SEMESTER-IV									
19VT/VM/TC46	Tourism and Cuisines	6	3	0	3	3	25	75	100
19VT/VM/PT46	Public Relations for Tourism	6	3	0	3	3	25	75	100
19VT/VE/TL45 /	Tourism Law	5	5	0	0	3	25	75	100
19VT/VE/EC45	Eco Tourism and Sustainability	5	2	0	3	3	25	75	100
19CS/US/IC44	Introduction to Computer Skills	4	2	0	2	-	25	-	100
SEMESTER-V									
19VT/VM/ET56	Emerging Trends in Tourism	6	5	0	1	3	25	75	100
19VT/VM/TG56	Tour Guiding and Travel Consultancy	6	3	0	3	3	25	75	100
19VT/VM/HR56	Human Resource Management	6	4	0	2	3	25	75	100
19VT/VM/TF56	Air Ticketing and Fare Construction	6	3	0	3	3	25	75	100
19VT/US/AR53	Airport Customer Relations	3	3	0	0	-	25	-	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**

**B.Voc. DEGREE:TOURISM AND HOSPITALITY**

**COURSES OF STUDY**

**(Effective from the academic year 2019-2020)**

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-VI									
19VT/VM/GT66	Global Tourism	6	6	0	0	3	25	75	100
19VT/VM/MT66	Medical Tourism	6	3	0	3	3	25	75	100
19VT/VM/EI66	Entrepreneurship in Tourism	6	6	0	0	3	25	75	100
19VT/VM/PR615	Project	15	0	0	9	-	20	80	100
19UV/US/HL63	Life Skills: An Approach to a Holistic Way of Life	3	3	0	0	-	25	-	100







**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO TOURISM**

**CODE: 19VT/VM/IT16**

**CREDITS:6**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- The course aims to impart knowledge among students with the basic concepts of tourism
- To help students to understand the significance of heritage and culture and tourism in different sectors

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- list out places associated with the history of India
- discuss aspects of Indian culture and heritage
- collect, collate and analyse facts on the subject
- understand the dimensions of the Tourism industry
- prepare tourism brochures and itineraries

**Unit 1**

**Introduction**

**(15 hours)**

- 1.1 Definitions: Tourism, Tourist, Traveller, International and Domestic  
Tourist, Excursionist, Transit visitor, Incentive Travel, Day tripper, Stay over, Tour, Package Tours, Grand tour, Itinerary
- 1.2 History, Evolution and Development of Tourism: World, India : Ancient, Medieval and Modern
- 1.3 Basic Travel motivators – Famous travelers through the Ages - Basic components of Tourism – Elements of Tourism

**Unit 2**

**Tourism Paradigms (Theory and Practical)**

**(20 hours)**

- 2.1 Cultural Tourism: Heritage, Culinary, Archaeological, Creative, Ethnic, Agri-tourism, Rural tourism; medical tourism; Pilgrimage tourism; Business tourism; MICE tourism
- 2.2 Travel Circuits: Golden triangle, Desert circuit, Buddhist circuit
- 2.3 International Circuits - Special Interest Tourism: Definition, Adventure tourism, Beach and Island tourism, Health and Wellness tourism, Wildlife tourism, Sports Tourism; Eco-Tourism;

**Unit 3**

**Leisure and Recreation**

**(20 hours)**

- 3.1 India: UNESCO Heritage sites- statistics
- 3.2 Indian railways – Special trains
- 3.3 Holiday Sea Cruises

**Unit 4**  
**Tourism Administration in India** (8 hours)

- 4.1 Ministry of Tourism – ITDC – TTDC
- 4.2 Tourist Information centres – NTOs
- 4.3 India: State Tourism Development Corporations

**Unit 5**  
**Emerging Trends in Tourism (Theory and Practical)** (15 hours)

- 5.1 Social tourism, Fashion tourism, Dark tourism, Space tourism, Virtual tourism, Pop-culture tourism
- 5.2 Incredible India – lesser known destinations
- 5.3 Heritage hotels – Rajasthan, Gujarat, Kerala - Brand ambassadors for Tourism promotion

\*\* Field Visits and Study Tours

**BOOKS FOR STUDY**

Camilleri, Mark Anthony. Travel Marketing, Tourism Economics and the Airline Product: An Introduction to Theory and Practice. Switzerland: Springer Publications, 2018.  
Vasudevan, Venu., Vijayakumar, B., Saroop Roy, B.R. An Introduction to the Business of Tourism. New Delhi: Sage Publications, 2017.

**BOOKS FOR REFERENCE**

Sharma, Kshitiz. Introduction to Tourism Management. New Delhi: McGraw Hill Education, 2017.  
Walker, John R. Introduction to Hospitality, London: Pearson, 2017.  
Kumar, Chiranjib., Choudhary, Aditi. Introduction to Tourism & Hospitality. CreateSpace Independent Publishing Platform, 2017.  
A.M.A, Barkat. Travel and Tourism Management. New Delhi: Prentice Hall India Learning, 2015.  
J. Page, Stephen. Tourism Management. New York: Routledge, 2015.

**JOURNALS**

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly)  
ASEAN Journal on Hospitality and Tourism (Ed. Arief Rosyidie) (Tourism Research and Development Centre) Indonesia, 2004.

**WEB RESOURCES**

[www.worldleisure.org](http://www.worldleisure.org)  
[tourism.gov.in/](http://tourism.gov.in/)  
<https://www.tourismcares.org/>

## **PATTERN OF EVALUATION**

**Total Marks: 50 (To be converted to 25)**

### **Continuous Assessment:**

**Total Marks: 50**

**Duration: 90mins.**

Section A -  $5 \times 3 = 15$  (Any 5 out of 7 in 30 words each)

Section B -  $5 \times 5 = 25$  (Any 5 out of 7 in 250 words each)

Section C -  $1 \times 10 = 10$  (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

### **End Semester Examination**

**Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A -  $10 \times 3 = 30$  (All questions to be answered in 30 words each)

Section B -  $5 \times 8 = 40$  (5 out of 8 questions to be answered in 300 words each)

Section C -  $3 \times 10 = 30$  (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TRAVEL AGENCY AND TOUR OPERATORS MANAGEMENT**

**CODE: 19VT/VM/TA16**

**CREDITS: 6**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the intricacies of the travel agency business
- To imbibe in the students' required knowledge of the tour operations

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- list out the responsibilities of the Travel agents
- understand the structure of the travel agencies
- learn the formalities of tour operations
- manage finances in a travel agency
- collect and collate aspects of tour operations

**Unit 1**

**Introduction**

**(15 hours)**

- 1.1 Meaning and Definition of a Travel Agency and Tour Operators – Travel Agency
- 1.2 Development of travel agency business – National and International Travel Agencies  
- Cox & Kings, SITA, TCI and Thomas Cook.
- 1.3 Difference between travel agency and tour operator.

**Unit 2**

**Organisational Structure**

**(20 hours)**

- 2.1 Growth and structure of the travel agency - Types of Travel Agencies – Wholesaler – Retailer - Corporate
- 2.2 Tour Operators – Distinction between Wholesale Travel Agency and Tour Operator  
Types of tour operations.
- 2.3 ITDC – TTDC – TAAI – IATA - WTO

**Unit 3**

**Travel Formalities and Functions of a Travel Agent**

**(Theory and Practical)**

**(20 hours)**

- 3.1 Travel formalities – Passport – Latest Passport Regulations - Visa - Health certificates  
- Taxes –customs, Currency - Travel insurance - Baggage and airport information.
- 3.2 Functions of a travel agency –TIM - Travel information and counselling to the

- tourists – Approval by Department of Tourism – Incentives – Fiscal and Non – fiscal incentives
- 3.3 Itinerary preparation – reservation – ticketing - Tour packages - handling clients  
International Travel Counters

#### **Unit 4**

##### **Planning and Costing (Theory and Practical) (8 hours)**

- 4.1 Source of Income - Commission - Service Charges  
4.2 Planning and Costing – Budgeting – Human Resource Planning  
4.3 Post tour Management – Year ending accounts – balancing accounts statement

#### **Unit 5**

##### **Functions of a Tour Operator (15 hours)**

- 5.1 Market research and tour package formulation, assembling - processing and disseminating information on destinations – Tourism Marketing – Public Relations in tourism  
5.2 Liaison with principal – types of tour operations  
5.3 Travel Legislations - Foreign Exchange Regulation Act 1973 – Passport At 1967 - Ethical and Legal responsibilities of Travel agencies – Business ethics

#### **BOOKS FOR STUDY**

Camilleri, Mark Anthony. Travel Marketing, Tourism Economics and the Airline Product: An Introduction to Theory and Practice. Switzerland: Springer Publications, 2018.  
Vasudevan, Venu., Vijayakumar, B., Saroop Roy, B.R. An Introduction to the Business of Tourism. New Delhi: Sage Publications, 2017.

#### **BOOKS FOR REFERENCE**

Sharma, Kshitiz. Introduction to Tourism Management. New Delhi: McGraw Hill Education, 2017.  
Walker, John R. Introduction to Hospitality, London: Pearson, 2017.  
Kumar, Chiranjib., Choudhary, Aditi. Introduction to Tourism & Hospitality. CreateSpace Independent Publishing Platform, 2017.  
A.M.A, Barkat. Travel and Tourism Management. New Delhi: Prentice Hall India Learning, 2015.  
J. Page, Stephen. Tourism Management. New York: Routledge, 2015.

#### **JOURNALS**

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly)  
ASEAN Journal on Hospitality and Tourism (Ed. Arief Rosyidie) (Tourism Research and Development Centre) Indonesia, 2004.

#### **WEB RESOURCES**

<https://www.britannica.com/topic/tourism>  
[www.worldleisure.org](http://www.worldleisure.org)  
<https://www.tourismcares.org/>

## **PATTERN OF EVALUATION**

**Continuous Assessment:** **Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination** **Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g.

19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MAP STUDY**

**CODE:19VT/VA/MS15**

**CREDITS: 5**

**L T P: 4 0 1**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To teach students about how to read maps
- To have an in-depth knowledge of maps
- To teach students to effectively use maps as tourism professionals

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- identify the different kinds of maps
- identify places on maps
- identify and read map with expertise
- understand the uses of maps
- list out the various time zones

**Unit 1**

**Introduction to Maps**

**(15 hours)**

- 1.1 History of map-making; orientation, scale, symbols and grid; latitudes and longitudes
- 1.2 Types of maps
- 1.3 Uses of maps: measurement of area, direction, and distance

**Unit 2**

**India – Physical Features**

**(15 hours)**

- 2.1 The main physiographic regions
- 2.2 Features of physiographic regions
- 2.3 Water bodies, water sheds, rivers and lakes

**Unit 3**

**India's Political Geography (Theory and Practical)**

**(15 hours)**

- 3.1 States and Union Territories of India
- 3.2 Capitals, Metros
- 3.3 Languages and regionalization



**Unit 4****Innovation in map making (Theory and Practical)****(10 hours)**

- 4.1 Technology in map-making,
- 4.2 GPS, GIS – signs and symbols
- 4.3 Time zones and GMT

**Unit 5****Eco-tourism attractions (Theory and Practical)****(10 hours)**

- 5.1 Eco-tourism and places of natural beauty in each state/union territory
- 5.2 Natural Tourist destinations
- 5.3 World Heritage Sites in India

**BOOKS FOR STUDY**

Majid Husain, Concise Geography, New Delhi, Tata McGraw Hill, 2011.

Surender Singh, Topography, New Delhi, Tata McGraw Hill, 2011.

**BOOKS FOR REFERENCE**

J. K. Chopra, Unique Quintessence of Geography of India, Unique Publishers, New Delhi, 2012

Pradeep Sharma, Human Geography, Discovery Publishing, New Delhi, 2007.

Stephen Williams, Tourism Geography, Routledge, London, 2007.

Nicholas Clifford, Sarah Holloway, Key Concepts in Geography, Washington, 2009

Tim Marshall, Prisoners of Geography: Ten Maps That Explain Everything about the World, New York, 2015

**JOURNALS**

The Geographer (AMU Geographical Society)

International Journal of Geomatics and Geosciences (Integrated Publishing Association)

**WEB SOURCES**

Website of the National Geographic Magazine ([www.nationalgeographic.com](http://www.nationalgeographic.com))

Mapping our World by Oxfam Education

(<https://www.oxfam.org.uk/education/resources/mapping-our-world>)

## **PATTERN OF EVALUATION**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A -  $5 \times 3 = 15$  (Any 5 out of 7 in 30 words each)

Section B -  $5 \times 5 = 25$  (Any 5 out of 7 in 250 words each)

Section C -  $1 \times 10 = 10$  (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination**

**Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

**Pattern for Theory :75 marks**

Section A -  $10 \times 2 = 20$  (All questions to be answered in 30 words each)

Section B -  $5 \times 5 = 25$  (5 out of 8 questions to be answered in 300 words each)

Section C -  $3 \times 10 = 30$  (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**Practical:25 marks**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ADVERTISING FOR TOURISM BUSINESS**

**CODE: 19VT/UE/AT12**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- The course aims to impart knowledge among students on advertising
- To help students understand the significance of communication for the success of their business
- To acquaint students with innovations in advertising

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- communicate with expertise
- use English for advertising in a professional manner
- understand the importance and types of advertising
- prepare advertisements in print, internet and social media
- understand advertising strategy for marketing

**Unit 1**

**Introduction**

**(8 hours)**

- 1.1 Definition of Advertising
- 1.2 Types of advertising
- 1.3 Impacts of Advertising – Challenges in Advertising

**Unit 2**

**Advertising for Tourism**

**(8 hours)**

- 2.1 Importance and Objective of Advertising in Tourism
- 2.2 Usage of Social media – Impact of Social media ads
- 2.3 Demerits of Media Advertisements

**Unit 3**

**Application of Advertising Strategies**

**(10 hours)**

- 3.1 Advertising - Direct Marketing, Sales Promotion, Public relations and Sponsorship
- 3.2 Five M's of Advertising- objective setting, advertising budget, Message decisions, Media Decisions and campaign evaluation
- 3.3 Major promotional tools, Developing Effective Communication, Identifying Target audience

### **BOOKS FOR STUDY**

Laing, Jennifer. Explorer Travellers and Adventure Tourism. Library of the Congress, 2014.  
Ray, Nilanjan. Tourism Marketing: A Strategic Approach. Canada: Apple Academic, 2017.

### **BOOKS FOR REFERENCE**

McCabe, Scott. The Routledge Handbook of Tourism Marketing. New York: Routledge, 2014.  
Nigel Morgan, Annette Pritchard, Advertising in Tourism and Leisure, (London , 2000)  
A Semantic and Pragmatic Analysis of Tourism Advertising: Tourist Leaflets from Sibiu, Romania and South Dakota, U.S.A. 2013  
Marla R. Stafford, Ronald J. Faber, Advertising, Promotion, and New Media, New York 2005  
Iain MacRury, Advertising, New York, 2009

### **WEB SOURCES**

<https://www.shopify.in/encyclopedia/advertising>  
<https://adage.com/>

### **JOURNALS**

Journal of Advertising - Taylor & Francis  
International Journal of Advertising and Marketing

### **PATTERN OF ASSESSMENT**

**Continuous Assessment: (Internal Only) Total Marks: 25 Duration: 60 minutes**

Section A -  $5 \times 2 = 10$  (Any 5 out of 7 in 30 words each)

Section B -  $2 \times 5 = 10$  (Any 2 out of 4 in 250 words each)

Section C -  $1 \times 5 = 5$  (Any 1 out of 2 in 500 words each)

### **Other Component:**

**Total Marks: 25**

Scrap Book/Group discussion/Field Study Report/Seminar presentation

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FRONT OFFICE MANAGEMENT**

**CODE: 19VT/VM/FM26**

**CREDITS: 6**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To study front office formalities
- To learn the management of the front office
- To understand the functions and responsibilities at the front office

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- understand front office operations
- perform the functions of the front desk
- display front office etiquette
- maintain paperwork requisites at the front office
- handle guest reservations
- list out tariff structures

**Unit 1**

**Introduction**

**(15 hours)**

1.1 Definition- Lobby- Reception counter- Help Desk

1.2 Functions of Front Office – Front office operations - Art of reception - Planning  
Guest service

1.3 Responsibilities and Importance of Front Office – Front Office communication

**Unit 2**

**Tariff Structure and Communication (Theory and Practical)**

**(20 hours)**

2.1 Tariff fixation-Tour group rates- Wholesale rates – Dynamic Pricing

2.2 Seasonal rates -Extra Bed rates- Rooms Selling Techniques – Establishing room rates

2.3 Front Office Communication –Front Office Security - Importance - Effectiveness

### **Unit 3**

#### **Guest Handling (Theory and Practical) (20 hours)**

- 3.1 Guest Cycle- Reservation – Guest relations – registration - Group Reservation - Types - over booking - Guest arrival – Pre - registration Receiving Guests
- 3.2 Bell desk functions – Message Handling – Billing -Change of Room – Car parking – Room key control – locking system – Departure Procedure
- 3.3 Skill Component – Visit a Hotel and observe and report on Front Office administration

### **Unit 4**

#### **Audit and Accounts (Theory and Practical) (15 hours)**

- 4.1 Basics of keeping Accounts – Ledger – Cash and Credit –Payments through Paytm and Paypal
- 4.2 Cashiers Report - Cash Report - Bill Section - Night Auditing - Description – Cross Checking
- 4.3 Foreign exchange regulations – Cheques and accounting

### **Unit 5**

#### **Security Management (8 hours)**

- 5.1 Types of Security – Management Techniques
- 5.2 Guide to fire extinguishers – Break-in security – Bomb Threats
- 5.3 Crisis Management – Man - made disasters – Natural disasters

### **BOOKS FOR STUDY**

Kotler, Philip. Kevin Lane Keller. Marketing Management, (Chennai, 2006).  
Bhatnagar. Front Office Management, (New Delhi 2005)

### **BOOKS FOR REFERENCE**

S.K. Bhatnagar, Front office Management (New Delhi, 2002).  
Negi Jagmohan, Principles of Management, (New Delhi, 2004).  
Prasad, Allen, Principles of Management (New Delhi, 2011).  
Bhatia A.K., Tourism Development, (New Delhi, 2011).  
D'Souza Mario, Tourism Development And Management, (Jaipur, 2002)

### **JOURNALS**

Journal of business.org/index.php/GJMBR/  
Rosewood journal - Maria Santo - Front Office

### **WEB SOURCES**

www.wileyindia.com › Hotel Management  
www.alhea.com/Front+Office+Management  
ihmbbs.org/upload/Front%20Office%20Management.pdf

## **PATTERN OF EVALUATION**

**Continuous Assessment: Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INDIAN HERITAGE AND CULTURE**

**CODE: 19VT/VM/IH26**

**CREDITS: 6**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To provide a comprehensive view of Indian culture and Heritage
- To underline its importance in tourism.
- To understand the various aspects of Heritage Management.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- apply their knowledge in appreciating, promoting and preserving the natural heritage of our country.
- demonstrate the various methods of preservation and conservation of our heritage
- describe the tangible and intangible heritage of the country
- speak about India's heritage and culture in a knowledgeable and coherent manner
- write about India's heritage and culture in a knowledgeable and coherent manner

**Unit 1**

**Conceptual Framework**

**(15 hours)**

- 1.1 Heritage, Culture- Meaning and Definition
- 1.2 Evolution of Indian Culture through the ages
- 1.3 Features and Importance of Indian Heritage and Culture

**Unit 2**

**Indian Natural Heritage (Theory and Practical)**

**(20 hours)**

- 2.1 Natural Resources- Wildlife Sanctuaries
- 2.2 National Parks and Natural Reserves in India - Hill Stations, Forests, Hills and Mountains
- 2.3 Beaches and Islands- Beaches in Goa, Kerala, Odisha and Mamallapuram, Andaman and Nicobar Islands

**Unit 3**

**India's Intangible Heritage (Theory and Practical)**

**(20 hours)**

- 3.1 Music and Dance in India- Classical and Folk
- 3.2 Folk Art forms in India - Traditional Games - Fairs and Festivals of India
- 3.3 Indian Cuisines



**Unit 4****India's Tangible Heritage****(15 hours)**

- 4.1 Religious and Secular Destinations - Important Tourist Circuits
- 4.2 Handicrafts and Handlooms
- 4.3 Museums and Art Galleries of India

**Unit 5****Heritage Management****(8 hours)**

- 5.1 National and International Heritage Organisation- UNESCO, ASI, INTACH, ICOMOS
- 5.2 Criteria for selection of Heritage Site - UNESCO Sites in India
- 5.3 Preservation and Conservation of Heritage Sites.

**\*\* Field Visit to Heritage Sites****BOOKS FOR STUDY**

Acharya, R. Tourism and Cultural Heritage of India. Jaipur: Rosa, 1986.  
Chawla, Romila. Cultural Tourism and Development. New Delhi: Sonali, 2004

**BOOKS FOR REFERENCE**

Bhatia, A.K. Tourism Development: Principles and Practices. New Delhi: Sterling, 2003.  
Singh L K. Indian Cultural Heritage Perspective for Tourism, New Delhi: Isha Books, 2008  
Narayan Shovana. Sterling Book of Indian Classical Dance, New Delhi: Sterling, 2011  
Ranjan Aditi, Ranjan M P. Handmade in India- A Geographical encyclopaedia of Indian Handicrafts, USA: Abbeville Press, 2009  
Thapar, Romila. Indian Cultures As Heritage: Contemporary Pasts. Aleph, 2018.

**JOURNALS**

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly).  
Bi-annual Journal of Indian Art, Culture, Heritage and Tourism, Bharati Women's College, Chennai.

**WEB RESOURCES**

<http://indiaheritage.org/>  
<http://whc.unesco.org/>

## **PATTERN OF EVALUATION**

**Continuous Assessment: Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTERNATIONAL TOURISM GEOGRAPHY**

**CODE: 19VT/VA/IG25**

**CREDITS: 5**

**L T P: 5 0 1**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable the students to explore the basic components of world geography in relation with tourism.
- To gain knowledge of geography shall also give an extra edge to the students in designing the itineraries for the travelers, suggesting them various destinations at the international level.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- list out places of tourist significance globally
- locate places accurately
- explain geographical linkages
- prepare travel itineraries
- prepare tour packages

**Unit 1**

**Asia (Theory and Practical)**

**(15 hours)**

1.1 Location and Physiographic regions of Asia

1.2 Major countries & capitals

1.3 Major tourist attractions of Malaysia, Singapore, Thailand

**Unit 2**

**Africa**

**(15 hours)**

2.1 Location and Physiographic regions of of Africa

2.2 Major countries and capitals

2.3 Major tourist attractions of South Africa, Egypt.

**Unit 3**

**North and South America**

**(15 hours)**

3.1 Location and Physiographic regions of of North America and South America

3.2 Major countries & capitals

3.3 Major tourist attractions of USA & Brazil

**Unit 4**  
**Europe** (10 hours)

- 4.1 Location and Physiographic regions of Europe
- 4.2 Major countries & capitals
- 4.3 Major tourist attractions of France, United Kingdom, Switzerland

**Unit 5**  
**Australia** (10 hours)

- 5.1 Location and Physiographic regions of Australia
- 5.2 Major countries & capitals
- 5.3 Major tourist attractions of Australia and New Zealand.

**BOOKS FOR STUDY**

Adam.S, Ganeri.A & Kay.A.Geography of the World. D K Publishing.  
Badawi, Cherine. Footprint Egypt, Footprint Travel Guides.

**BOOKS FOR REFERENCE**

Bukhari.A.Z.Encyclopedia of Geography of Tourism. Anmol Publication.  
Garg, Deepa. Geography of Tourism. Mohit Publications.  
Hall,Michael.C.Tourism in South and South East Asia: Issues and Cases.  
Hussain.M. Indian and World Geography. Tata McGraw Hill Education.  
Khullar, D.R. Geography of India. Kalyani Publications.

**JOURNALS**

Tgjournal  
New Research Paradigms in Tourism Geography

**WEB RESOURCES**

[www.tourismgeography.com/](http://www.tourismgeography.com/)  
<https://www.geolounge.com/tourism-geography/>

**PATTERN OF EVALUATION**

**Continuous Assessment:** **Total Marks: 50** **Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)  
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)  
Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination** **Total Marks: 100** **Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)  
Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)  
Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g.  
19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TRAVEL WRITING**

**CODE: 19VT/UE/TW22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- To help students develop a language of cultivated response to new/different cultures
- To discern rhetorical and stylistic strategies that best suit particular arguments, situations, and audiences
- To develop an appreciation of language to produce engaging, polished pieces of writing

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- write effectively about the experiences associated to travel
- critique others' writing constructively and use the same to work collaboratively through frequent group exercises
- learn to use technology to further their writing
- prepare travel blogs
- record memorable encounters

**Unit 1**

**Introduction**

**(10 hours)**

1.1 Introduction to Travel writing

1.2 Writing about Place: Capturing the spirit of a place

1.3 Skill Component - workshop

**Unit 2**

**Conventions of Travel Writing**

**(10 hours)**

2.1 Conventions of Beginnings & Endings

2.2 Building Theme and Narrative Structure

2.3 Blog - Travel journalism and photography

**Unit 3**

**Critique of Travel Essays**

**(6 hours)**

3.1 Recording - Memorable encounters

3.2 Writing for Publication

3.3 Editing

## **BOOKS FOR STUDY**

Don George, How to Be A Travel Writer, (New York, 2017)

Peter Hulme, Tim Youngs, The Cambridge Companion to Travel Writing, (UK, 2002)

## **BOOKS FOR REFERENCE**

Tim Youngs, The Cambridge Introduction to Travel Writing, (USA, 2013)

Carl Thompson, Travel Writing, (Routledge, 2011)

Henry David Thoreau Journeys, Adventures & Life in Harmony with Nature – 6 Book Collection, (New York, 2017)

Casey Blanton, Travel Writing, (New York, 2002)

James Duncan, Derek Gregory, Writes of Passage: Reading Travel Writing, (London, 1999)

## **WEB SOURCES**

<https://www.wanderlust.co.uk/content/get-paid-to-travel-travel-writing/>

<https://www.theguardian.com/books/travel-writing>

## **JOURNALS**

Studies in Travel Writing: Journal

Coldnoon, International Journal of Travel Writing & Travelling Cultures

## **PATTERN OF ASSESSMENT**

**Continuous Assessment: (Internal Only) Total Marks: 25 Duration: 60 minutes**

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)

Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

**Other Component:**

**Total Marks:25**

Scrap Book/Group discussion/Field Study Report/Seminar presentation

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**SOFT SKILLS FOR EMPLOYABILITY**

**CODE: 19VT/US/SE22**

**CREDITS: 2**

**L T P: 2 0 0**

**TOTAL TEACHING HOURS: 26**

**OBJECTIVES OF THE COURSE**

- The course aims to impart requisite soft skills for employability
- To help students improve communication and presentation skills

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- communicate clearly and with etiquette
- prepare resumés
- participate in group discussions and interviews
- develop the ability to plan and organize tourism business
- understand the relevance of creative thinking, problem solving and decision making

**Unit 1**

**Oral/spoken communication skill**

**(8 hours)**

- 1.1 Testing - voice and accent , voice clarity, voice modulation & intonation, word stress
- 1.2 Feedback & questioning technique, objectivity in argument
- 1.3 Etiquette and manners in Communication

**Unit 2**

**Components of Effective Communication**

**(10 hours)**

- 2.1 Conviction, confidence & enthusiasm, Listening, Communication Process & Handling
- 2.2 Composing effective messages, Barriers to Communication – Internal and External Barriers, Listening- its Importance, Good & Bad Listening
- 2.3 Non-Verbal Communication-its Importance and Nuances, Facial Expression, Posture, Gesture, eye contact, Appearance (Dress Code)

**Unit 3**

**Presentation skill practice**

**(8 hours)**

- 3.1 Preparing presentations, delivery of presentations
- 3.2 Evaluation/feedback, summarization / conclusion
- 3.3 Self-Management and Time management in a Presentation

### **BOOKS FOR STUDY**

Bastin Jerome, V. Soft Skills for Career Success: Soft Skills. New Delhi: Educreation, 2018.  
Bhatnagar, Nitin. Effective Communication and Soft Skills. Delhi: Pearson, 2011.

### **BOOKS FOR REFERENCE**

Tuhovsky, Ian. Communication Skills: A Practical Guide to Improving Your Social Intelligence, Presentation, Persuasion and Public Speaking. California: CreateSpace Independent, 2015.  
Sudha Rani, D. Business Communication and Soft Skills Laboratory Manual. Delhi: Pearson, 2012.  
Butterfield, Jeff. Illustrated Course Guides : Verbal Communication - Soft Skills for a Digital Workplace. Massachusetts: Cengage, 2017.  
Banerjee, Sutapa. Soft Skill Business and Professional Communication. New Delhi: LK, 2013.

### **JOURNALS**

International Journal for Cross-Disciplinary Subjects in Education (IICDSE), Special Issue  
Volume 2 Issue 2, 2012  
IUP Publications, A Review of Soft-skill Needs in in Terms of Industry, 2018.

### **WEB RESOURCES**

<https://www.skillsyouneed.com/general/soft-skills.html>  
<https://www.skillsoft.com> › Business and Management Skills Training

### **PATTERN OF EVALUATION**

#### **Continuous Assessment:**

**Total Marks: 25**

**Duration: 60 Mins.**

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 5 x 3 = 15 (Any 3 out of 5 in 250 words each)

#### **Third Component:**

**Total Marks: 25**

Seminars – Presentation - Group discussion - Objective test



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ART AND ARCHITECTURE OF INDIA**

**CODE: 19VT/VM/AA36**

**CREDITS: 6**

**LTP: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the origin, growth and styles of Indian art and architecture
- To help students acquire knowledge in the field of Heritage Tourism.
- To highlight the monuments of architectural value and art masterpieces

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- apply their knowledge in promoting and preserving the Art and Architecture of our country.
- describe the various types of temple architecture
- describe Mughal, Sultanate and Rajput architecture
- describe modern Indian architecture and Indian sculpture and painting
- appreciate the significant features of Indian art and Architecture as a resource for tourism

**Unit 1**

**Introduction to Indian Art and Architecture**

**(15 hours)**

- 1.1 Origin and Evolution of Architecture in India
- 1.2 Art and Architecture as Resources for Tourism
- 1.3 Indus Art and Architecture - Buddhist – Mauryan and Sunga, Gandhara and Mathura

**Unit 2**

**Temple Architecture – Important Tourist Sites**

**(20 hours)**

- 2.1 Styles of Temple Architecture – Nagara, Dravida and Vesara
- 2.2 Temples of North India – Guptas, Chandellas, Solankis, Dilwara Temples
- 2.3 Temples of South India – Pallava, Chola, Pandya, Rastrakutas, Hoysalas, Chalukyas and Vijayanagar

**Unit 3**

**Medieval Architecture – Important Tourist Sites**

**(20 hours)**

- 3.1 Sultanate
- 3.2 Mughal
- 3.3 Rajputs

**Unit 4****Modern Architecture – Important Tourist Sites(Theory and Practical)(15 hours)**

4.1 Dutch – Tranquebar - Portuguese – Goa

4.2 French – Pondicherry

4.3 British – Indo-Saracenic

**Unit 5****Sculptures and Paintings in India****(8 hours)**

5.1 Sculptures – Stone & Metal

5.2 Rock Art, Fresco and Murals

5.3 Miniature - Pahari Paintings - Contemporary Indian Painters

**\*\* Field Visits****BOOKS FOR STUDY**

Brown, Percy. *Indian Architecture*. D.B. Taraporevala, 2003.

Tomory, Edith. *A History of Fine Arts in India and the West*. New Delhi: Orient BlackSwan, 2004.

**BOOKS FOR REFERENCE**

Ambujam Anantharaman. *Temples of South India*. Madras: East West Books, 2006.

Deva Krishna. *Temples of North India*. National Book Trust, 1997.

Madhavan, Chitra. *Vishnu Temples of South India: Tamil Nadu*. Alpha Land Books, 2007.

S.A. Raj Kumar. *Essays on Indian Architecture*. New Delhi: Discovery, 2003.

V.V. Subba Reddy. *Temples of South India*. Gyan, 2009.

**JOURNALS**

*Indian Archaeology - A Review*, (Annual Publication on Archaeological Reports).

**Journals on Paintings**

*Gandharan Studies*, Institute of Archaeology and Social Anthropology, University of Peshawar.

*Journal of the Royal Asiatic Society*, Cambridge University Press.

**WEB RESOURCES**

<http://indiaheritage.org/>

[www.asi.nic.in](http://www.asi.nic.in)

## **PATTERN OF EVALUATION**

**Continuous Assessment:** **Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A -  $5 \times 3 = 15$  (Any 5 out of 7 in 30 words each)

Section B -  $5 \times 5 = 25$  (Any 5 out of 7 in 250 words each)

Section C -  $1 \times 10 = 10$  (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination** **Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A -  $10 \times 3 = 30$  (All questions to be answered in 30 words each)

Section B -  $5 \times 8 = 40$  (5 out of 8 questions to be answered in 300 words each)

Section C -  $3 \times 10 = 30$  (3 questions to be answered in 1000 words each in either or pattern e.g.

19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HOSPITALITY MANAGEMENT**

**CODE: 19VT/VM/HM36**

**CREDITS: 6**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To expose students to hospitality management as a career opportunity
- To help students understand the different public relation techniques used for the promotion of hospitality business

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- understand and describe the hotel industry
- understand the different key departments in hotels
- manage guest relations effectively
- work in a range of industry roles like guest service manager or food service manager
- work in tourism roles as a travel manager, travel information manager, event and meeting manager and corporate travel manager

**Unit 1**

**Introduction**

**(15 hours)**

- 1.1 Definitions and key terms of the industry- Importance
- 1.2 Hotel Chains in India: ITC Welcome, Marriott, Ashok, Le Meridian, Taj, Oberoi, Sheraton
- 1.3 Historical evolution of hospitality management : Global and Indian context - Tangible and Intangible nature of hospitality industry

**Unit 2**

**Functional Units in Hotels and Organisational structure**

**(20 hours)**

- 2.1 Front Office: Operations, Duties and organizational chart
- 2.2 Housekeeping: Operations, Duties and organizational chart
- 2.3 Food and beverage: Operations, Duties and organizational chart - Maintenance and Engineering: Operations, Duties and organizational chart

**Unit 3**

**Accommodation types and forms - Classification and Grading system(20 hours)**

- 3.1 Categorisation of Hotels: Star rating system: Deluxe, 5, 4, 3 star
- 3.2 Plan of Rooms: European, Continental, American - Types of Rooms: Motels, Dormitories, Youth Hostels, Travel bungalows, Home Stays, paying guest accommodation, resorts, Satellite Kitchens
- 3.3 Catering establishments

**Unit 4****Guest Relationship Management (Theory and Practical) (15 hours)**

- 4.1 Skills and Personality traits of hospitality staff: reception, concierge, communications, night auditor, mail and information, travel desk, laundry, Human resource development, sales and marketing, security
- 4.2 Complaint handling emergencies: theft, strike, misconduct, death
- 4.3 Importance and use of PMS in hospitality industry - Guest stay process in hotels: reservation, room procedures, group arrival, check out and settlement, parking, telephone procedures (Opera/IDS)

**Unit 5****Hospitality Industry (8 hours)**

- 5.1 Laws pertaining to hospitality
- 5.2 Hospitality organizations: FHRAI, (IH& RA)
- 5.3 Latest development in Information Technology in Hospitality industry

**\*\* Field Visits****BOOKS FOR STUDY**

Kotler, Philip. Kevin Lane Keller Marketing Management, (Chennai, 2006).  
Bhatnagar, Front Office Management, (New Delhi 2005)

**BOOKS FOR REFERENCE**

S.K. Bhatnagar, Front office Management (New Delhi, 2002).  
Negi Jagmohan, Principles of Management, (New Delhi, 2004).  
Prasad, Allen, Principles of Management (New Delhi, 2011).  
Bhatia A.K., Tourism Development, (New Delhi, 2011).  
D'Souza Mario, Tourism Development And Management, (Jaipur, 2002)

**JOURNALS**

OMICS International Journal of Hotel Management  
International Journal of Hospitality Management

**WEB SOURCES**

[www.wileyindia.com](http://www.wileyindia.com) › Hotel Management  
[www.alhea.com/Front+Office+Management](http://www.alhea.com/Front+Office+Management)

## **PATTERN OF EVALUATION**

**Continuous Assessment:** **Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

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Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination** **Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

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Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g.

19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TOURISM MARKETING**

**CODE: 19VT/VA/TM35**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the principles of Marketing and Management and its application to the Tourism Industry
- To help students comprehend planning concepts, structure and organisation of Tourism
- To enable students comprehend the complexities of Human Resource Management

**COURSE LEARNING OBJECTIVES**

On successful completion of this course, students will be able to

- understand the principles of Marketing and Management and its applications to the tourism industry
- use different marketing information systems and perform SWOT analyses
- apply the concepts practically
- understand the special requirements of the tourism industry
- demonstrate the requisite skills for Tourism Marketing and Management

**Unit 1 (15 hours)**

**Basic Principles of Marketing**

- 1.1 Tourism Marketing - A Perception
- 1.2 Purpose and Constraints of Tourism Marketing
- 1.3 Essentials of Service Marketing

**Unit 2 (15 hours)**

**Tourism Planning**

- 2.1 Planning Concepts - Marketing Information System –SWOT Analysis
- 2.2 Business Environment
- 2.3 Nature and Importance of Planning - Strategic Planning For Tourism

**Unit 3 (15 hours)**

**The Structure and Organisation**

- 3.1 Types of Organisations -Line and Staff, Matrix
- 3.2 Organisation-Levels of Authority
- 3.3 Sectoral and Destination Organisations

**Unit 4 (10 hours)**

**Elements of Tourism Marketing**

- 4.1 Market Research
- 4.2 Consumer and Consumer Behaviour-Factors Influencing Buying Behaviour
- 4.3 Marketing Mix - Distribution Strategy for Tourism

**Unit 5 (10 hours)**

**Tourism Marketing Strategies**

- 5.1 Tourism Promotion –Tools- Direct Selling- Advertising- Direct Marketing- Tele Marketing Internet Marketing-Sales promotion
- 5.2 Segmentation- Demographic-Psychographic-Behaviour-Occasion
- 5.3 Branding and Pricing - Destination Marketing – Digital Marketing

**BOOKS FOR STUDY**

Buhalis, D., and Costa C. (ed.) Tourism Management Dynamics. London : Heinemann, 2006.  
Holloway, J. C. and R.Y. Plant. Marketing for Tourism. London : Pitman Publishing, 1998.

**BOOKS FOR REFERENCE**

Collman, M.M. Tourism Marketing. New York: Van Nostrand Reinhold, 1989.  
Batra, G.S. and R.C. Dangwal. Tourism Promotion and Development: New Advances. New Delhi: Deep and Deep, 2007.  
Buhalis, D. and Costa C. Tourism Business Frontiers - Consumers, Products and Industry. London: Heinemann, 2006.  
Telter, David J. and R. Sharpley. Tourism and Development in the Developing World. London: Routledge, 2001.

**JOURNALS**

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly)  
Tourism Management, Elsevier  
Journal of Hospitality and Tourism, Sage Publication

**WEB RESOURCES**

[www.tourismmarketingconcepts.com](http://www.tourismmarketingconcepts.com)

**PATTERN OF EVALUATION**

**Continuous Assessment: Total Marks: 50 Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)  
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)  
Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination Total Marks: 100 Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)  
Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)  
Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE: 19VT/UC/ES32**

**CREDITS : 2**

**L T P : 2 0 0**

**TOTAL TEACHING HOURS : 26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies; Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-energy resources: renewable and non-renewable sources, impact of over-exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and *ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects and control measures -Impact of over-population on pollution and health – carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations Sustainable Development Goals of the 2030 Agenda
- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster

- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)

[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TOURISM AND CUISINES**

**CODE: 19VT/VM/TC46**

**CREDITS: 6**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To expose students to the varied cuisines in the international arena
- To create an awareness and interest among the students about the cuisines of the world
- To enable the students to have an in depth perspective of International Cuisines

**COURSE LEARNING OUTCOMES**

On successful completion of this course students will be able to

- categorize the different types of cuisines
- examine and experiment on the combinations of cuisines and on specific cuisines
- recommend selective culinary styles and procedures
- interpret new techniques in international cuisines
- develop new methods in international cuisines

**Unit 1**

**Introduction of Tourism and Cuisines (Theory and Practical) (15 hours)**

- 1.1 Importance of Cuisines in Tourism – Cuisines as a motivator for Travel.
- 1.2 Destinations popular for Cuisines – India, Italy, France
- 1.3 Food festivals around the world – Wild food festival, New Zealand – Onion Market, Switzerland – Bacon festival, California – Dumpling festival, Hong Kong - Pizza Fest, Italy – Vegetarian Festival, Thailand

**Unit 2**

**Food Traditions around the World (20 hours)**

- 2.1 American Cuisine - Types of Oil - Types of sauces – ingredients - Famous American dishes - Meal structure – Chinese Cooking – Ingredients - Meal structure
- 2.2 Mexican Cuisine - Nature of Mexican cuisine - Ingredients - Mexican cooking – Meal Structure of Mexican cuisine - Italian Cuisine – Ingredients – Meal structure – Kinds of Pastas – Different Italian dishes.
- 2.3 French Cuisine – Nature – Ingredients – Meal Structure – French brigade – Famous French Dishes – Indian Cuisine – North Indian Thali – South Indian Virundhu Saapadu

**Unit 3**

**Tools and Techniques (20 hours)**

- 3.1 Tools for cooking – Tools for baking – Types of spoons and knives- Modern equipment – Culinary Styles – Presentation Techniques – International Standards

- 3.2 Techniques – preparation techniques - cultural influences – Indian Tradition – Ethnic procedures – Serving techniques – Buffets – Live counter Food
- 3.3 Grading procedures – Usage of preservatives – Classes of preservatives

#### **Unit 4**

##### **Food Etiquette and Menus (Theory and Practical) (15 hours)**

- 4.1 Food etiquette – Dining etiquette – Table manners
- 4.2 Menus – Types of menus – A la carte – Buffet – Functional menus – Cyclic menus - menus according to Festivals and functions

#### **Unit 5**

##### **Food as medicine (8 hours)**

- 5.1 Tradition of Fasting – Food Restrictions - Health benefits
- 5.2 Spiritual Diets – Halaal Food – Science behind food
- 5.3 Festivals and Special food items

#### **BOOKS FOR STUDY**

Patricia. A Heyman, International Cooking: A Culinary Journey, (Pearson , 2016)  
Gabriela Steier, Kiran K. Patel, (Ed.), International Food Law and Policy, (Switzerland, 2017)  
J. R. Stevens, International Instant Pot Cuisine: American, Chinese, French, Indian Italian and Mexican recipes, 2017

#### **BOOKS FOR REFERENCE**

Kong Lily Lee Lee, Sinha Vineeta , (Ed.), Food, Foodways And Foodscapes: Culture, Community And Consumption In Post Colonial Singapore, (Singapore, 2015)  
James Farrer, The Globalisation of Asian Cuisines, Transnational Networks and Culinary Contact Zones, (New York, 2015)  
Dueep J. Singh, John Davidson, Granma's Guide to Home Baking Tips and techniques for healthy home Baking, Jd – Biz Publishing, 2015  
Daniel Boulud, HarperCollins, Braise: A Journey Through International Cuisine, 2013  
Parvinder S Bali, International Cuisine and Food Production Management, (India, 2012)

#### **JOURNALS**

International Journal of Food Science, Open Access, Hindawi  
International Journal of Food Science and Nutrition

#### **WEB SOURCES**

Website of the Restaurant Business Magazine (<https://www.restaurantbusinessonline.com/>)

## **PATTERN OF EVALUATION**

**Continuous Assessment:**

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**Duration: 90mins.**

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**End Semester Examination**

**Total Marks: 100**

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19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PUBLIC RELATIONS FOR TOURISM**

**CODE: 19VT/VM/PT46**

**CREDITS: 6**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the importance of Public Relations
- To make the students acquire knowledge of the various aspects of Public relations

**COURSE LEARNING OUTCOMES**

On successful completion of this course students will be able to

- understand the importance of Public Relations in tourism
- formulate corporate plans and objectives and
- use different components of Public Relations for Tourism
- formulate internal and external communication methods to develop business tourism
- use the press, broadcast media and the internet for promotion

**Unit 1**

**Public Relations Theory & Practice**

**(15 hours)**

- 1.1 Meaning and Scope
- 1.2 PR and Leisure Industry
- 1.3 Components of PR - Organising Public Relations

**Unit 2**

**PR In Tourism Organizations**

**(20 hours)**

- 2.1 Corporate Plan and objectives
- 2.2 Corporate Identity- Logos and symbols
- 2.3 Internal and External Communication - Corporate In-house Journal

**Unit 3**

**Crisis Management**

**(Theory and Practical)**

**(20 hours)**

- 3.1 The Crisis team
- 3.2 Crisis Communication
- 3.3 Disaster Management

**Unit 4** (15 hours)

**PR and Media Relations**

- 4.1 Avenues of Communication
- 4.2 Press Relations, Broadcast Media and Internet Promotion
- 4.3 PR and advertising - Developing appropriate customer feedback

**Unit 5** (8 hours)  
**Event Management in Tourism (Theory and Practical)**

- 5.1 Types of Events - Organization for Events
- 5.2 Event Policy and Objectives
- 5.3 Case Studies – Impact of PR in Tourism

**\*\* Field Visits**

**BOOKS FOR STUDY**

French, Ylva, Public Relations for Leisure and Tourism, London: Orient Longman, 2014  
Black, Sam, Practical Public Relations, London: Pittman Publishing Company, 2000

**BOOKS FOR REFERENCE**

Jeffkins, F., Public Relations For Your Business, New Delhi: Jaico Publications, 2004  
Chauhan, A.S., Public Relations, New Delhi: Verma Publications, 1995  
Rene, Henry A., Marketing Public Relations, Delhi: Surjeet Publications, 2003  
Teruggi, Janis, et al., Introduction to Strategic Public Relations: Digital, Global, and Socially Responsible Communication, Singapore: Sage Publications, 2019  
McCabe, Scott., The Routledge Handbook of Tourism Marketing, New York: Routledge, 2014.

**JOURNALS**

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly)  
ASEAN Journal on Hospitality and Tourism (Ed. Arief Rosyidie) (Tourism Research and Development Centre) Indonesia, 2004.

**WEB RESOURCES**

[www.worldleisure.org](http://www.worldleisure.org)  
[tourism.gov.in/](http://tourism.gov.in/)  
<https://www.tourismcares.org/>

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19 (a) or (b))



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TOURISM LAW**

**CODE: 19VT/VE/TL45**

**CREDITS: 5**

**L T P: 5 0 0**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To understand the basic principles of various laws, codes, roles and regulations
- To be able to relate it to tourism for providing professional assistance and advice to tourists.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- apply the laws learnt in the field of tourism
- understand the legal requirements in the field of tourism
- know how to register and set up a tourism company
- comply with laws regarding consumers and contracts
- know the requirements under customs and the Foreigners Registration Act.

**Unit 1**

**Introduction**

**(15 hours)**

- 1.1 Law and society - Branches of Law
- 1.2 Commercial Law- Company Law
- 1.3 Industrial Law – Environmental Law

**Unit 2**

**(15 hours)**

**General Principles of Contract Act**

- 2.1 Essential elements of Contract
- 2.2 Breach of Contract – Performance of Contract
- 2.3 Indemnity & Guarantee – Bailment - Consumer Protection Act.

**Unit 3**

**Basic Principles of Company Law**

**(15 hours)**

- 3.1 Registration of Company – Types of companies
- 3.2 Types & administration of Meetings
- 3.3 Winding up of companies.

**Unit 4**

**Legal Formalities**

**(10 hours)**

- 4.1 Citizenship – Passport - Visa
- 4.2 FEMA – Foreigners Registration Act – Customs
- 4.3 RBI guidelines - Criminal Law - Registration of cases

## Unit 5

(10 hours)

### Environment Acts and Rules

5.1 Environment rules – Environmental Impact Assessment guidelines

5.2 Forest Act – Forest Conservation Act – Wild life Protection Act

5.3 General suggestions to improve tourism in India.

### BOOKS FOR STUDY

Adido, Terry O. Transplant Tourism: An International and National Law Model to Prohibit Travelling Abroad for Illegal Organ Transplant. The Netherlands: Koninklijke Brill, 2018.

D'Aspremont, Jean. International Law as a Profession. United Kingdom: Cambridge University Press, 2017.

### BOOKS FOR REFERENCE

Cohen, Glenn I. Patients with Passports: Medical Tourism, Law and Ethics. New York: Oxford University Press, 2015.

Faure, Michael G, et al. Sustainable Tourism and Law. The Netherlands: Eleven International, 2014.

Garg, Shashank. Tourism Law in India: A Comprehensive Manual of Concepts, Regulations & Guidelines. New York: LexisNexis, 2013.

Lima, Maria Goretti Sanches. Traveller Vulnerability in the Context of Travel and Tourism Contracts. Switzerland: Springer, 2018.

Papathanassis, Alexis, et al. Yellow Tourism: Crime and Corruption in the Holiday Sector. Switzerland: Springer, 2019.

### WEB SOURCES

[www.unwto.org/technical-product/tourism-legislation-and-regulation](http://www.unwto.org/technical-product/tourism-legislation-and-regulation)

[www.tourismandmore.com/tidbits/tourism-and-the-law/tourismandlaw.es/](http://www.tourismandmore.com/tidbits/tourism-and-the-law/tourismandlaw.es/)

### JOURNALS

International Law, Journal of Tourism Planning and Development

International Tourism Law: The Importance of the Role of Social Media in the Tourism Sector

### PATTERN OF EVALUATION

#### Continuous Assessment:

**Total Marks: 50**

**Duration: 90mins.**

#### Total Marks: 50 (To be converted to 25)

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

#### Third Component:

Seminars / Presentation / Group discussion / Objective test

#### End Semester Examination

**Total Marks: 100**

**Duration 3 hours**

#### Total Marks: 100 (To be converted to 75)

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ECO TOURISM AND SUSTAINABILITY**

**CODE: 19VT/VE/EC45**

**CREDITS: 5**

**L T P: 2 0 3**

**TOTAL TEACHING HOURS: 65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand ecology
- To make the students acquire knowledge of the various aspects of eco-tourism
- To observe the various aspects of the ecology and the imbibe the techniques for its sustainability

**COURSE LEARNING OUTCOMES**

On successful completion of this course students will be able to

- classify ecological holdings and understand the importance of each
- understand the global growth of eco-tourism and opportunities available
- describe India's eco-tourism resources
- formulate methods to conserve ecology and develop the business of eco-tourism
- manage the impacts of eco-tourism so that it is sustainable

**Unit 1**

**Introduction to Eco tourism**

**(15 hours)**

- 1.1 Defining Eco tourism-Components of Eco tourism – Green Tourism
- 1.2 Principles and Types of Eco tourism
- 1.3 Global Growth and Magnitude of Eco tourism

**Unit 2**

**Ecology and its branches(theory and practical)**

**(15 hours)**

- 2.1 Eco system – Food Chain – Food Web – Sustainability - Carrying Capacity- Absorbing Capacity – Climate – Topography – Edaphic and biotic factors
- 2.2 Eco Tourism Resources - Hill stations – Forests - Coastal Areas – CRZ
- 2.3 Eco Tourism Venues- Private Protected Areas- Public ProtectedAreas- Modified Spaces - Indigenous territories - Sustainable Tourism

**Unit 3**

**Impacts of Ecotourism**

**(15 hours)**

- 3.1 Environmental Impacts of Eco tourism – Identifying and managing impacts  
Pollution – Global Warming – Ozone depletion – Climate change
- 3.2 Socio-Cultural Impact of Eco tourism – Positive and Negative impacts
- 3.3 Economic Impact of Eco tourism – Foreign exchange earnings – Government revenue  
– Employment and income – regional development.

**Unit 4****Planning in Eco Tourism****(10 hours)**

- 4.1 United Nations Environmental Programme (UNEP) - Earth Summits – Kyoto Protocol – Climate change Conventions
- 4.2 National Policy on Ecology - Conservation in India
- 4.3 Eco Labelling and Eco Certification

**Unit 5****The Business of Ecotourism****(10 hours)**

- 5.1 Eco-Bridge -Eco Lodges-Eco Resorts – Eco Parks
- 5.2 Development Strategies for Eco tourist Accommodations – Promotional offers and packages
- 5.3 Marketing and promotion of Eco- tourist destinations – Responsible tourism Sustainable development

**\*\* Field Visits****BOOKS FOR STUDY**

Ramesh Chawla, Ecology and Tourism Development, (New Delhi, 2006).  
Singh, Ratan Deep, National Eco Tourism and wildlife Tourism - Policies and Guidelines, (New Delhi, 2004).

**BOOKS FOR REFERENCE:**

Arora, Shyam Lal, Adventure tourism and sports, Issues and Perspectives, (New Delhi, 2007)  
Ratan Deep Singh, Dynamics of Modern Tourism, (New Delhi, 2008).  
Pruthi R.K., Tourism Industry and Environmental Management, (New Delhi, 2006).  
Gale, Tim., Ecotourism and Environmental Sustainability: Principles and Practice. New York: Routledge, 2016.  
Kandari, O. P., Tourism, Biodiversity and Sustainable Development: Tourism and sustainability, Delhi: Isha, 2003.

**WEB SOURCES**

<https://www.ecotourism.org/what-is-ecotourism>  
[www.nature.org](http://www.nature.org) › Green Living  
[www.ecoindia.com/eco-tourism-in-india.html](http://www.ecoindia.com/eco-tourism-in-india.html)

**JOURNALS**

The Encyclopedia of Ecotourism  
Journal of Ecotourism  
The Ecotourism Sustainable Strategy - Journal of Coastal Research

## **PATTERN OF EVALUATION**

**Continuous Assessment:** **Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A -  $5 \times 3 = 15$  (Any 5 out of 7 in 30 words each)

Section B -  $5 \times 5 = 25$  (Any 5 out of 7 in 250 words each)

Section C -  $1 \times 10 = 10$  (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination** **Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A -  $10 \times 3 = 30$  (All questions to be answered in 30 words each)

Section B -  $5 \times 8 = 40$  (5 out of 8 questions to be answered in 300 words each)

Section C -  $3 \times 10 = 30$  (3 questions to be answered in 1000 words each in either or pattern e.g.

19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO COMPUTER SKILLS**

**CODE: 19CS/US/IC44**

**CREDITS: 4**

**L T P: 2 0 2**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the importance of computers
- To make the students acquire knowledge of the various aspects of internet technology

**COURSE LEARNING OUTCOMES**

On successful completion of this course students will be able to

- explain the basics of computer hardware and technology
- use operating systems
- use computers as office tools
- use the internet, email, and design web pages
- use airline and CRS packages

**Unit 1**

**Basic Computing**

**(10 hours)**

- 1.1 Computer hardware – Terminology - Use of an operating system
- 1.2 Types of programming languages
- 1.3 Office systems, information storage and retrieval of Data.

**Unit 2**

**Office Tools (Theory and practical)**

**(10 hours)**

- 2.1 Word processor
- 2.2 Excel spreadsheet
- 2.3 Powerpoint, Access and Outlook Express

**Unit 3**

**Internet (Theory and practical)**

**(10 hours)**

- 3.1 Management information systems
- 3.2 Office automation, E-mail and electronic highway
- 3.2 Internet, Web Page Designing.

**Unit 4**  
**Computer Networking** (10 hours)  
4.1 CRS – CRS for Rail Transport, Hotel Bookings  
4.2 Airlines packages  
4.3 CRS packages

**Unit 5**  
**Computer Presentation** (12 hours)  
5.1 Introduction to a statistical package  
5.2 Presentation Graphic Tools  
5.3 Multimedia technology.

### BOOKS FOR STUDY

Lucey T, Management Information Systems, DP Publications, 2007  
Clark A, Small Business Computer Systems, Hodder & Stoughton, 1987

### BOOKS FOR REFERENCE

Parkinson LK & Parkinson ST, Using the Micro-computer in Marketing, McGraw Hill, 1987.  
Braham B, Computer System in Hotel & Catering Industry, Cassell, 1988.  
Basandra S.K., 'Computer Today', New Delhi: Galgotia Publications.  
Mehta Subhash, "Wordstar – 7", New Delhi: Comdex Computer Publishing, Pustak Mahal.  
Bright, Steven., Computer Fundamentals, Independently Published, 2017.

### WEB SOURCES

<https://www.geteducated.com/.../521-computer-information-systems-vs-computer-sci>  
<https://www.comp.nus.edu.sg/programmes/ug/is/>

### JOURNALS

Journal of Computer Information Systems - Taylor & Francis  
Asian Journal of Computer and Information Systems

### PATTERN OF ASSESSMENT

**Continuous Assessment: (Internal Only) Total Marks: 25 Duration: 60 minutes**  
Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)  
Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)  
Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

**Other Component: Total Marks: 25**  
Scrap Book/Group discussion/Field Study Report/Seminar presentation

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**EMERGING TRENDS IN TOURISM**

**CODE: 19VT/VM/ET56**

**CREDITS: 6**

**L T P: 5 0 1**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To understand the underlying principles of Tourism
- To familiarize students with the latest trends in the tourism industry
- To understand the emerging concepts and techniques in tourism

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- identify the various trends in the field of tourism
- experiment with the new aspects of the tourism industry
- explain the significance of each new form of tourism
- explain the impact of the new trends in tourism
- make use of emerging opportunities in tourism

**Unit 1**

**New-Age Tourism**

**(15 hours)**

- 1.1 Evolution of tourism in the 21<sup>st</sup> century
- 1.2 Tourism as an Industry of the future
- 1.3 Scope of the tourism industry

**Unit 2**

**Significance of Tourism**

**(20 hours)**

- 2.1 Factors influencing the growth of Tourism
- 2.2 Economic significance of Tourism
- 2.3 Social significance of Tourism

**Unit 3**

**Emerging Trends in Tourism**

**(20 hours)**

- 3.1 Rural Tourism- Rural Hospitality
- 3.2 Eco Tourism- Space Tourism – Fashion Tourism – Wine Tourism
- 3.3 Medical Tourism - Wellness Tourism- Spa- Ayurveda- Yoga

**Unit 4**

**Challenges in the modern world (Theory and practical)**

**(15 hours)**

- 4.1 Technical Problems in reservations – double bookings – Network issues



- 4.2 Traffic in Government servers and portals
- 4.3 Payment failures – Double payment – Money deduction without confirmed bookings

## **Unit 5**

### **Upgradation and Implications**

**(8 hours)**

- 5.1 Maintenance and Sustainability of Tourist destinations
- 5.2 Upgradation of facilities and amenities
- 5.3 Economic Implication of latest trends and upgradation

## **BOOKS FOR STUDY**

Camilleri, Mark Anthony. Travel Marketing, Tourism Economics and the Airline Product: An Introduction to Theory and Practice. Switzerland: Springer Publications, 2018.

Vasudevan, Venu., Vijayakumar, B., Saroop Roy, B.R. An Introduction to the Business of Tourism. New Delhi: Sage Publications, 2017.

## **BOOKS FOR REFERENCE**

Sharma, Kshitiz. Introduction to Tourism Management. New Delhi: McGraw Hill Education, 2017.

Walker, John R. Introduction to Hospitality, London: Pearson, 2017.

Kumar, Chiranjib., Choudhary, Aditi. Introduction to Tourism & Hospitality. CreateSpace Independent Publishing Platform, 2017.

A.M.A, Barkat. Travel and Tourism Management. New Delhi: Prentice Hall India Learning, 2015.

J. Page, Stephen. Tourism Management. New York: Routledge, 2015.

## **JOURNALS**

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly)

ASEAN Journal on Hospitality and Tourism (Ed. Arief Rosyidie) (Tourism Research and Development Centre) Indonesia, 2004.

## **WEB RESOURCES**

[www.worldleisure.org](http://www.worldleisure.org)

## **PATTERN OF EVALUATION**

**Continuous Assessment:**

**Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination**

**Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**TOUR GUIDING AND TRAVEL CONSULTANCY**

**CODE: 19VT/VM/TG56**

**CREDITS: 6**

**L T P:3 0 3**

**TOTAL TEACHING HOURS:78**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the profession of Tour Guiding
- To equip them to learn the various aspects of travel consultancy
- To take up a career in travel operations or tour guiding

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- communicate better and demonstrate better interpersonal skills
- guide tourists
- perform as tour managers
- organize tours
- take up careers in travel consultancy

**Unit 1**

**Introduction**

**(15 hours)**

- 1.1 Tour Guide- Meaning, Nature and Scope
- 1.2 Fundamental Principles of Tour Guides -Roles and Responsibilities
- 1.3 Types of Tour Guides, Challenges of a Tour Guide

**Unit 2**

**Personality Development and Etiquette for Tour guiding**

**(20 hours)**

- 2.1 Importance of Personality Development, Etiquette and Grooming
- 2.2 Leadership Qualities, Interpersonal Relations and Communication Skills
- 2.3 Skill Component – Mock interactions and Role Plays

**Unit 3**

**Tour Manager and Travel Planning**

**(20 hours)**

- 3.1 Tour Manager- Roles and Responsibilities
- 3.2 Travel Planner – Preparing Itineraries, Different Types of Itineraries, Resources for planning Itineraries, steps for preparing itineraries, Do's and Dont's of itinerary preparation.
- 3.3 Skill Component- Preparing sample itineraries connecting important destinations within India and Outside India

**Unit 4**  
**Travel Consultancy (Theory and practical)** (15 hours)  
 4.1 Origin and importance of Travel Consultancy  
 4.2 Roles and Responsibilities of Travel Consultants  
 4.3 Skill Component – Organising sample tours

**Unit 5**  
**Tour Process** (8 hours)  
 5.1 Travel Formalities- All categories of tourists  
 5.2 Transport, Accommodation and Linkages  
 5.3 Coordination during a Tour, Preparation of report after a tour.

**\*\* Field Visits**

### **BOOKS FOR STUDY**

Pond Kathleen Ling. The Professional Guide-Dynamics of Tour Guiding , Wiley & Sons, Newyork, 1993  
 Mancini, Marc. Conducting Tours: A Practical Guide, Cengage Learning, USA, 2012.

### **BOOKS FOR REFERENCE**

Kumar Chiranjib C. Tour Guiding: A Training Manual & Professional Approach of Guiding in Tourism, Createspace Independent Publishing Paltform, USA, 2016  
 Chowdhary, Nimit A. Handbook for Tour Guides, Matrix Publishers, IITTM, 2013  
 Perks, Jeremy & Barrie, Jan- How to be an award winning Tour Guide, Australia, 2015  
 Manning Nick. How to be a Tour Guide, USA, 2016  
 Bhatia A K. Business of Travel Agency and Tour Operations Management, Sterling, New Delhi, 2017

### **JOURNALS**

Journal of Hospitality and Tourism Management- Elsevier, Amsterdam  
 International Journal of Tourism Research- Wiley & Sons, UK  
 Journal of Hospitality and Tourism Research- SAGE, USA

### **WEB SOURCES**

[www2.untwo.org](http://www2.untwo.org)  
[www.tourismtoday.com](http://www.tourismtoday.com)

### **PATTERN OF EVALUATION**

**Continuous Assessment:** **Total Marks: 50** **Duration: 90mins.**  
**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)  
 Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)  
 Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

#### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination** **Total Marks: 100** **Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)  
 Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)  
 Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**HUMAN RESOURCE MANAGEMENT**

**CODE: 19VT/VM/HR56**

**CREDITS: 6**

**L T P: 4 0 2**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- The student will be understand the role of HRM in organizations and the major HR activities
- She will develop the professional and personal skills needed to be successful in this profession

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- identify the tasks connected with human resource management.
- demonstrate skills necessary for success as a human resource manager professional.
- perform a job analysis
- write a job description.
- demonstrate knowledge, orally and in writing, of the processes of recruitment and selection, the challenges of retention, training and development.

**Unit 1**

**Introduction to Human Resource Management**

**(15 hours)**

- 1.1 Human Resource Management and its Role
- 1.2 Skills needed for HRM
- 1.3 Today's HRM challenges

**Unit 2**

**Recruitment and selection**

**(20 hours)**

- 2.1 Job analysis and job descriptions
- 2.2 Recruitment strategy and processes
- 2.3 The selection process; interviewing and testing

**Unit 3**

**Compensation and Retention**

**(20 hours)**

- 3.1 Goals of compensation, developing a compensation package and types of pay systems
- 3.2 Retention and motivation; costs of turnover
- 3.3 Retention plans and strategies

**Unit 4**  
**Training and Development (Theory and Practical) (15 hours)**

- 4.1 Steps of training
- 4.2 Types of training
- 4.3 Training delivery and designing a training programme

**Unit 5**  
**Employee Performance and Assessment (Theory and practical) (8 hours)**

- 5.1 Performance and discipline issues; employee rights
- 5.2 Employee assessment systems and appraisal methods
- 5.3 Safety and health at work

**BOOKS FOR STUDY**

Michael Armstrong, A Handbook of Human Resource Management Practice, 10<sup>th</sup> edition, Kogan Page, London, 2006.

Adrian Murton et al., Unlocking Human Resource Management, Hodder Education, London, 2010.

**BOOKS FOR REFERENCE**

Manoj Madhukar, Human Resource Management for Tourism, Rajat Publications, Delhi, 2000

V.K. Sharma, Human Resource Management, Viva Books, New Delhi, 2007.

Ashraf Rizvi, Resumes and Interviews, Tata McGraw Hill, New Delhi, 2008.

M.P. Srivatsava, Human Resource Planning, Manak Publications, New Delhi, 1997.

Hendry, Chris., Human Resource Management, New York: Routledge, 2012.

**JOURNALS**

Indian Management, Journal of the All India Management Association

Abhigyan, Management Journal from FORE (Foundation for Organization Research and Excellence, New Delhi)

**WEB SOURCES**

Open Textbooks for Hong Kong – Human Resource Management, The Open University of Hong Kong (Available under Creative Commons/Share Alike 4.0 International License

[http://www.opentextbooks.org.hk/system/files/export/32/32088/pdf/Human\\_Resource\\_Management\\_32088.pdf](http://www.opentextbooks.org.hk/system/files/export/32/32088/pdf/Human_Resource_Management_32088.pdf))

## **PATTERN OF EVALUATION**

**Continuous Assessment:** **Total Marks: 50**

**Duration: 90mins.**

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Seminars / Presentation / Group discussion / Objective test

**End Semester Examination** **Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

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19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**AIR TICKETING AND FARE CONSTRUCTION**

**CODE: 19VT/VM/TF56**

**CREDITS: 6**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To acquire theoretical knowledge on air ticketing procedures
- To understand the various formalities of travel and to know the various norms followed in fare construction

**COURSE LEARNING OUTCOMES**

On successful completion of this course students will be able to

- apply ticketing procedures
- list out international airport regulations
- construct fares with expertise
- explain baggage policies
- explain passport and visa regulations

**Unit 1**

**Air Transport**

**(15 hours)**

- 1.1 Air Transport - Aviation History- International Airline Codes
- 1.2 Types of Air Crafts
- 1.3 Flight handling and In-flight services

**Unit 2**

**Airline policies and practices**

**(20 hours)**

- 2.1 Baggage- Baggage allowance- Checked Baggage-Excess Baggage surcharge
- 2.2 Baggage Handling
- 2.3 International air transport regulations- State regulations -Five freedoms of air

**Unit 3**

**Air fares(Theory and practical)**

**(20 hours)**

- 3.1 Basic elements of air fare- Class of Service- Fare Basis-Fare rules and Regulations
- 3.2 Special fares- Discounted fares- Policy regarding Children, Restricted –Disabled passengers
- 3.3 Taxes- Billing and Settlement Plan (BSP)

**Unit 4**

**Fare construction (Theory and practical)**

**(15 hours)**

- 4.1 Guidelines for fare construction- One Way Trip - Circle Trip- Round Trip - Around the World Trip- Open Jaw-Stop-over- Non Stop- Direct

- 4.2 Mileage System
- 4.3 Lowest Combinations Principles

## **Unit 5**

### **Travel Documents and Travel Formalities**

**(8 hours)**

- 5.1 Passport- Types- Passport Language- National Status-Limitations on Passport issue
- 5.2 VISA- Conditions of issue- Types- Entry and Duration of Stay
- 5.3 Travel Information Manual (TIM) Health Certificates. General Preventive Measures – Customs and Currency-Travel Insurance- Consequences of Negligence

## **BOOKS FOR STUDY**

Negi Jagmohan, Air Ticketing and Fair Construction, (New Delhi, 2008).  
IATA - Standards and Manuals.

## **BOOKS FOR REFERENCE**

Bhatia A.K., Tourism Development, (New Delhi, 2013).  
Bhatia A.K., Tourism Development, (New Delhi, 2002).  
D'Souza Mario, Tourism Development And Management, (Jaipur, 2002).  
Kotler, Philip.; Kevin Lane Keller Marketing Management, (Chennai, 2006).  
Saxena P.K., Principles of Management (New Delhi, 2009).

## **JOURNALS**

Journal of Air Transport Management – Elsevier  
Journal of Air Transport Management | Science Direct

## **WEB SOURCES**

[www.learntravel.co.uk/.../bt308unit24airfaresandticketing1sample](http://www.learntravel.co.uk/.../bt308unit24airfaresandticketing1sample).  
[www.iata.org](http://www.iata.org) › Home › Training › Subject Areas  
[www.amazon.in/Air-Travel-Ticketing-Fare-Construction](http://www.amazon.in/Air-Travel-Ticketing-Fare-Construction)

## **PATTERN OF EVALUATION**

**Continuous Assessment: Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)  
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### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

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Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)  
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**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**AIRPORT CUSTOMER RELATIONS**

**CODE: 19VT/US/AR53**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To provide students with an overview of airline operations
- To make them familiar with airport formalities
- To understand customer handling

**COURSE LEARNING OUTCOMES:**

On successful completion of the course, the students will be able to

- categorize the different types of airport customer services
- sequence the arrival and departure formalities
- distinguish between the different types of customers
- explain the various flight operations
- explain the differences between in-flight and ground catering services

**Unit 1**

**Overview of Aircraft Operations**

**(16 hours)**

- 1.1 Access to Aircraft - Technical Terms
- 1.2 Flight operations, Crew and Cargo Administration
- 1.3 Catering – In-flight and Ground Catering

**Unit 2**

**Arrival and Departure Formalities**

**(10 hours)**

- 2.1 Arrival and Departure Procedures - Passenger tickets - Baggage Tickets - MCO
- 2.2 Transportation Documents – Travel Insurance – Health Documents
- 2.3 Check-in procedures – Immigration – Customs Clearance – Embarkation and Disembarkation

**Unit 3**

**Categories of Passengers**

**(13 hours)**

- 3.1 Very Important Person (VIPs) - Commercially Important Passengers (CIPs)  
Frequent Flyers - Unaccompanied Minor (UMNR) - Families with Infants –  
Children - Passengers with Reduced Mobility (PRMs) and Unruly Passengers
- 3.2 Passenger Handling - Handling Difficult Passenger Situations at Airport and In-flight  
Handling Overbooking
- 3.3 Baggage Handling - Types of Baggage - Cabin and in-hold - Dangerous Goods in  
Baggage

### **BOOKS FOR STUDY**

Airport Manual  
Airport Authority Manual  
Frankfinn Institute - Manual

### **BOOKS FOR REFERENCE**

Airport Manual  
Airport Authority Manual

### **JOURNALS**

Journal of Airline and Airport Management (Biannual), Spain  
Journal of Airport Management (Quarterly),(Ed. Robert J Aaronson), London

### **WEB RESOURCES**

[www.iata.org](http://www.iata.org)  
[www.aai.aero](http://www.aai.aero)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment: (Internal Only) Total Marks: 25 Duration: 60 minutes**

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)

Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

**Other Component:**

**Total Marks:25**

Scrap Book/Group discussion/Field Study Report/Seminar presentation

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GLOBAL TOURISM**

**CODE : 19VT/VM/GT66**

**CREDITS : 6**

**L T P : 6 0 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the significance of Global Tourism
- To enable the students to understand different geographical features of tourism

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- explain the process and linkage responsible for generation of tourism flows
- apply the knowledge of global tourism
- explain global tourism statistics
- describe the tourist attractions in the various continents
- explain international travel formalities

**Unit 1**

**Impact of Geography on Tourism**

**(15 hours)**

- 1.1 Understanding World Tourism Regions
- 1.2 Tourism concentration (spatial) and disparities based on geography
- 1.3 Physiographic regions of the continents

**Unit 2**

**International Time Zones**

**(20 hours)**

- 2.1 Capitals – Time Zones
- 2.2 Global tourism statistics – major generating and receiving countries
- 2.3 Issues in Global tourism : sustainability, climate change, terrorism, migration

**Unit 3**

**Tourism in Europe**

**(20 hours)**

- 3.1 UK, France, Germany
- 3.2 Italy, Spain, Switzerland
- 3.3 Scandinavian countries : Norway, Sweden, Denmark

**Unit 4**

**Tourism in USA, Africa and Middle East**

**(15 hours)**

- 4.1 North America
- 4.2 South America
- 4.3 Africa and the Middle East

## **Unit 5**

### **Tourism in South and South East Asia**

**(8 hours)**

5.1 China, Hong Kong, Japan

5.2 Thailand, Singapore, Malaysia, Philippines

5.3 Nepal, Sri Lanka

### **BOOKS FOR STUDY**

Acred, Cara. Global Tourism. Cambridge: Independence Educational, 2016.

Becker, Elizabeth. Overbooked: The Exploding Business of Travel and Tourism. New York: Simon & Schuster, 2016.

### **BOOKS FOR REFERENCE**

Bourdeau, Laurent, et al. World Heritage Sites and Tourism: Global and Local Relations. New York: Routledge, 2016.

Douglas, P. Tourism Today – A Geographic Analysis. New York: Longman, 1987.

Laws, E.C. Tourist Destination Management – Issues, Analysis and Policies. London: Routledge, 1995.

Lee, J. Tourism Development in the Third World. New York: Routledge, 1988.

### **WEB SOURCES**

<https://www.globaltourismindia.com/>

<https://www.wttc.org/>

### **JOURNALS**

International Journal of Tourism Research – Wiley

International Journal of Culture, Tourism and Hospitality Research

### **PATTERN OF EVALUATION**

**Continuous Assessment: Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MEDICAL TOURISM**

**CODE:19VT/VM/MT66**

**CREDITS: 6**

**L T P: 3 0 3**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To enable the students to understand the significance of Medical Tourism
- To describe the types of medical tourist activities that are available

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- differentiate between medical tourism and other types of tourism
- explain the various aspects of medical tourism
- apply the gained knowledge in the tourism industry
- describe the importance of India as a medical tourism destination
- list out the various types of therapies

**Unit 1**

**Introduction**

**(15 hours)**

- 1.1 Meaning, nature and Scope - Evolution of Medical Tourism in India
- 1.2 Sources of Medical Tourism – Regulations and Legislations – UNWTO Agreements
- 1.3 Medical Information portals – Patient testimonials and blogs

**Unit 2**

**Marketing Medical Tourism**

**(20 hours)**

- 2.1 Health Care services - Medical Insurance Policy- Mediclaim
- 2.2 Medical Travel Guide Books – Challenges and Prospects of Medical Tourism
- 2.3 Promotion of Medical Tourism in India – Medical Research Website.

**Unit 3**

**Traditional Treatments (Theory and practical)**

**(20 hours)**

- 3.1 Medical Tourism Services – Facilitators – Post Surgical Packages – Medical procedures
- 3.2 Ayurveda significance – Homeopathy – Unani – Siddha
- 3.3 Acupuncture – Acupressure – Rekhi – Pranik - Varma

**Unit 4**

**Medical Centers and Hospitals (Theory and practical)**

**(15 hours)**

- 4.1 Kutralam – Fertility Centres - Kotakkal
- 4.2 Puthur – Isha Yoga – Manavalakkalai-Yogamandhiram - Sanjeevanam – Aayush – Shanthagiri
- 4.3 Apollo – Sankara Nethralaya – MIOT – MMM – Frontier Lifeline

## **Unit 5**

### **Healing Therapies (Theory and practical) (8 hours)**

5.1 Clay Therapy – Spa- Music Therapy - Andhra Fish Therapies – Medical Spas

5.2 Magnetic therapy - Mud therapy - Aroma therapy - Naturo therapy - Herbal therapy

5.3 Challenges of medical tourism

### **BOOKS FOR STUDY**

Sarngadharan.M, V.S.Sunanda, Health Tourism in India (New Delhi, 2009).

Kumar.R, Medical Tourism in India- Management and Promotion, (New Delhi, 2008).

### **BOOKS FOR REFERENCE**

R. Bookman, Milica Zarkovic, Bookman and karla Medical Tourism in Developing Countries, (London, 2007).

David Reisman, Health Tourism: Social Welfare Through International Trade ( United Kingdom, 2010).

Robinet Jacob, Health Tourism and Ayurveda (New Delhi, 2008).

Sonali Kulkarni, Spa and Health Tourism (New Delhi, 2008).

David Hancock, The Complete Medical Tourist (New Jersey, 2007).

### **Web Sources**

[www.gmedicaltourism.com](http://www.gmedicaltourism.com)

[www.indiahealthcaretourism.com](http://www.indiahealthcaretourism.com)

[www.medicaltourism.solutions](http://www.medicaltourism.solutions)

### **JOURNALS**

International Medical Travel Journal (IMTJ)

The Growing Trend of Medical Tourism : AJN The American Journal

[

### **PATTERN OF EVALUATION**

**Continuous Assessment: Total Marks: 50**

**Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)

Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)

Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

### **Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination Total Marks: 100**

**Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)

Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g.

19 (a) or (b))

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENTREPRENEURSHIP IN TOURISM**

**CODE: 19VT/VM/EI66**

**CREDITS: 6**

**L T P: 6 0 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To understand the scope and appreciate the dynamics of entrepreneurship in tourism industry
- To help students gain knowledge of career opportunities in tourism industry.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, the students will be able to

- take up entrepreneurial ventures,
- identify entrepreneurial opportunities
- gain confidence to undertake tourism related jobs
- describe financial planning for entrepreneurship
- list out the challenges of tourism entrepreneurship

**Unit 1**

**Introduction**

**(15 hours)**

- 1.1 Basics of Entrepreneurship
- 1.2 Evolution of the Concept - Functions of Entrepreneurship;
- 1.3 Types of Entrepreneurs: Private Entrepreneur, State and Joint Entrepreneur, Men and Women entrepreneurs, Challenges faced by women entrepreneurs, Small scale, Medium scale and Large-scale entrepreneurs

**Unit 2**

**Theories of Entrepreneurship**

**(20 hours)**

- 2.1 Entrepreneurial motivations: Concept and Meaning
- 2.2 Motivational cycle, Theories of Entrepreneurial Motivation with reference to Tourism Industry
- 2.3 Entrepreneurial Climate- Role of Entrepreneurship in Economic Development

**Unit 3**

**Entrepreneurship in Tourism Industry**

**(20 hours)**

- 3.1 Concept, Definition and Policy measures for Tourism entrepreneurship in India.
- 3.2 Tourism Entrepreneurial competencies- Major competencies, Developing entrepreneurial competencies, Start-ups and ventures.
- 3.3 Entrepreneurial Process - Factors affecting Entrepreneurial growth and role of women entrepreneurs in tourism industry

**Unit 4** (15 hours)

**Financial Planning for Entrepreneurship**

- 4.1 Importance of Financial Planning
- 4.2 Role of Government Institutions in financing
- 4.3 Business Plan, Role of Technology in Tourism Business.

**Unit 5** (8 hours)

**Forms of Business and Challenges in Tourism Entrepreneurship**

- 5.1 Sole proprietorship, Partnership, Selection of an appropriate ownership structure
- 5.2 Challenges in Tourism Entrepreneurship-Case studies of major Travel Agencies/ Hotels on risk taking.
- 5.3 Skill Component- Visiting tourism firms and preparing study reports. Preparing sample projects on tourism entrepreneurship.

**BOOKS FOR STUDY**

Ateljevic Jovo and Page Stephen J (Ed By), Tourism and entrepreneurship International Perspectives. USA: Elsevier, 2009  
Sotiriadis Marios(ed by), The Emerald Book of Entrepreneurship in Tourism, Travel and Hospitality, UK: Emerald, 2018

**BOOKS FOR REFERENCE**

Anil Kumar S, Poornima S C, Abraham Mini K, Jayashree K, Entrepreneurship Development, Bangalore: New Age International, 2003  
Desai Vasant, Small Scale Industries and Entrepreneurship in the Twenty first century, Mumbai: Himalaya Publishing House, 2008  
Desai Vasant, Entrepreneurial Development: Mumbai, Himalaya Publishing House, 1991

**JOURNALS**

Asia Pacific Journal of Innovation and entrepreneurship, Emerald Publishing House  
Tourism Management, UK  
Tourism Management Perspectives, USA

**WEB RESOURCES**

<http://researchgate.net/>  
<http://european-science.com/eojnss/article/view/775>  
[www.tourismtoday.com](http://www.tourismtoday.com)

**PATTERN OF EVALUATION**

**Continuous Assessment:** **Total Marks: 50** **Duration: 90mins.**

**Total Marks: 50 (To be converted to 25)**

Section A - 5 x 3 = 15 (Any 5 out of 7 in 30 words each)  
Section B - 5 x 5 = 25 (Any 5 out of 7 in 250 words each)  
Section C - 1 x 10 = 10 (Any 1 out of 2 in 800 words each)

**Third Component:**

Seminars / Presentation / Group discussion / Objective test

**End Semester Examination** **Total Marks: 100** **Duration 3 hours**

**Total Marks: 100 (To be converted to 75)**

Section A - 10 x 3 = 30 (All questions to be answered in 30 words each)  
Section B - 5 x 8 = 40 (5 out of 8 questions to be answered in 300 words each)  
Section C - 3 x 10 = 30 (3 questions to be answered in 1000 words each in either or pattern e.g. 19 (a) or (b))



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**B.Voc. DEGREE: TOURISM AND HOSPITALITY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PROJECT**

**CODE: 19VT/VM/PR615**

**CREDITS: 15**

**OBJECTIVES OF THE COURSE**

- To enable the students to develop research capabilities
- To help students gain knowledge on career opportunities in tourism industry.

**COURSE LEARNING OUTCOMES**

On successful completion of the course the students will be able

- To understand the nuances of writing a project
- To research in the field of Tourism

**Project Guidelines**

- A small scale research project which can be completed in the amount of time one would spend in and out of class for a regular 6-credit module
- Organised into chapters and with a contents page, references and bibliography
- Preferably link made between theory and practise
- There should be empirical research, though may be modest in scale. But first hand research is essential to enhance the overall quality of the project

**Unit 1**

**Introduction**

- 1.1. Introduction : a general introduction to the topical area
- 1.2. Statement of the problem: very specific statement of the problem to be studied.
- 1.3. Purpose of the Project: in this section a description about the overall purpose of the project should be made known.

**Unit 2**

**Project Overview**

- 2.1 Definition of Terms
- 2.2 Significance of the project
- 2.3 Review of Literature

**Unit 3**

**Methodology**

- 3.1. Explain the methods used for collecting data
- 3.2. Descriptive writing
- 3.3. Collection of Data – Primary and Secondary

## **Unit 4**

### **Summary and Recommendations**

- 4.1. Introduction – an overview of the project should be provided in the section
- 4.2. Summary and Recommendations
- 4.3. References and Appendices

### Contents of the Project Report

- Cover page
- Title page
- Acknowledgements
- Contents page
- List of figures or illustrations
- Main body – Introduction
- Main body – Review of Literature
- Main body – Methodology
- Main body – Summary
- Main body – Recommendations
- Main body – Conclusion
- Reference List/Bibliography
- Appendices

### **Avoid Plagiarism**

### **PATTERN OF EVALUATION**

Project 75 marks.

Viva-voce 25 marks.

## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

### Institutional Learning Outcomes

Stella Maris College, an autonomous Catholic institution of higher education, is committed to the highest standards of academic excellence based on sound values and principles, where students are strengthened with whole person education to lead purposeful lives in service to the community and the nation.

The Institutional Learning Outcomes (ILOs) of Stella Maris College (SMC) reflect the broader mission and purpose of the institution. They are the overarching set of learning outcomes that all students, regardless of discipline, must achieve at graduation. All programme and course learning outcomes are mapped to the institutional outcomes, thus reflecting an overall alignment of values, knowledge and skills expected at programme completion. ILOs are designed to help guide individual departments and disciplines in the development of their programme learning outcomes.

The ILOs of SMC are formed by two components:

1. **Core commitments:** Knowledge and scholarship, values and principles, responsible citizenship, service to community
2. **Institutional values:** Quest for truth, spirit of selfless service, empowerment

### Upon graduation, students of Stella Maris College will

- Display mastery of knowledge and skills in their core discipline (**Knowledge and Scholarship**)
- Exhibit in all actions and attitudes a commitment to truth and integrity in all contexts, both personal and professional (**Values and Principles**)
- Demonstrate knowledge about their role in society at local and global levels, and actively work for social and environmental justice (**Responsible Citizenship**)
- Engage in the process of self-discovery through a life-long process of learning (**Quest for truth**)
- Demonstrate readiness to serve those who are in need (**Spirit of selfless service**)
- Be able to function effectively and with confidence in personal and professional contexts (**Empowerment**)

## **STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

### **Programme Learning Outcomes/Intended Programme Learning Outcomes**

Graduates of a Bachelor's Degree will have a broad and coherent body of knowledge in their disciplines, with a deep understanding of the underlying principles and concepts in one or more disciplines as a basis for independent lifelong learning.

#### **At the end of an undergraduate programme students will be able to**

- Describe and define critical concepts in their discipline
- Explain and discuss concepts and ideas pertaining to their discipline
- Demonstrate a broad understanding of their discipline
- Demonstrate communication skills to present a clear, coherent and independent exposition of knowledge and ideas
- Demonstrate understanding of the interconnections of knowledge within and across disciplines
- Apply knowledge, theories, methods, and practices in their chosen field of study to address real-world challenges and opportunities
- Demonstrate proficiency in experimental techniques and methods of analysis appropriate for their area of specialisation
- Generate and analyse data using appropriate quantitative tools
- Construct and test hypotheses
- Demonstrate cognitive and technical skills to synthesise knowledge in interrelated disciplines
- Demonstrate critical thinking and judgement in identifying and solving problems with intellectual independence
- Demonstrate the skills needed to be able to function successfully in their field
- Show responsibility and understanding of local and global issues
- Demonstrate through their actions and speech that they are agents of social justice and change
- Practice the discipline's code of ethics in their academic, professional and personal lives
- Practice the values of democracy and principles of human rights
- Show self-awareness and emotional maturity
- Demonstrate career and leadership readiness
- Demonstrate intercultural, interracial, interclass, inter-caste, and ethical competency
- Exhibit the ability to work in teams
- Exhibit a strong sense of professionalism in a range of contexts
- Demonstrate sensitivity and readiness to share their knowledge, experience, and capabilities with the marginalised and oppressed in their communities

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086**

**DEPARTMENT OF ZOOLOGY**

**PROGRAMME DESCRIPTION**

The U.G programme, Advanced Zoology and Biotechnology scientifically deals with the study of animals. The subjects included are conventional papers like Invertebrata, Chordata, Cell Biology, Animal Physiology, Genetics, Developmental Biology, Animal Behaviour as well as technology-oriented papers like Immunology, Molecular Biology, Microbiology, Fundamentals of Biotechnology and Environmental Biotechnology.

Zoology is a complete study of animals, of processes from molecular to organismal levels that determine the structure, functions, development, behaviour and evolution of the animals and of interactions between animals and their environment. Students also study the various mechanisms of inheritance. Each theory paper is supplemented with a suitable practical component thereby providing hands-on experience. Another unique feature of this programme is computer simulation of dissection that provides computer-oriented skills to the students alongside the subject matter through a humane approach. Students are taken on educational visits to reputed organisations and state of the art laboratories with sophisticated lab instruments which provides them an opportunity to enhance their understanding of scientific concepts and working of instruments.

Students who possess an analytical bent of mind, data-handling capability and good written communication skills can opt for Project work as one of their course papers. Another significant aspect of the programme is the opportunity given to develop the ability to work both independently as well as in a team through mini projects. Those candidates who opt for postgraduate programme for teaching purpose at institutes and universities also benefit from the specifically designed curriculum.

The Advanced Zoology and Biotechnology degree programme serves as a foundation for higher studies (M.Sc., M.Phil., Ph.D.) in Life Sciences, Biotechnology, Bio-Informatics, Genetics, Microbiology, Wild life Biology and Anatomy.

## **DEPARTMENT OF ZOOLOGY**

### **PROGRAMME SPECIFIC LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the major groups of fauna and classify them within a phylogenetic framework.
- Compare and contrast the characteristics of different phyla
- Explain how organisms function at the level of the gene, genome, cell, tissue, organ and organ-systems.
- Describe the process of development and discuss the recent trends in reproduction along with ethical issues.
- Relate the physical factors of the environment to the structure of populations and communities and also distinguish between different ecosystems.
- Apply the recent techniques in biology to human welfare and evaluate related ethical issues.
- Demonstrate proficiency in the experimental techniques and methods of analysis appropriate to their area of specialization within biology.
- Analyse and interpret qualitative and quantitative biological data
- Demonstrate the ability to engage in critical, independent, and creative thinking and apply biological knowledge to other disciplines and to integrate knowledge into their personal and professional lives.
- Demonstrate proficiency in writing and speaking about biological concepts.
- Develop computer skills and a humane approach towards the study of zoology through the use of computer-simulations as alternative to dissection.
- Identify the need for animal welfare and justify biodiversity conservation

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**  
**B.Sc. DEGREE : BRANCH VI.A.-ADVANCED ZOOLOGY AND BIOTECHNOLOGY**  
**COURSES OF STUDY**

(Effective from the academic year 2019-2020)

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
19ZL/MC/IV14	Invertebrata	4	4	1	0	3	50	50	100
19ZL/MC/P112	Invertebrata Practical	2	0	0	3	3	50	50	100
19ZL/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
Allied Core Offered to the Department of Botany									
19ZL/AC/GZ14	General Zoology I	4	4	0	0	3	50	50	100
19ZL/AC/P111	General Zoology I Practical	1	0	0	2	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Life Skills:Personality Development (EL)	3	3	0	0	-	50	-	100
SEMESTER-II									
19ZL/MC/CH24	Chordata	4	4	1	0	3	50	50	100
19ZL/MC/DB23	Developmental Biology	3	3	1	0	3	50	50	100
19ZL/MC/P222	Chordata and Developmental Biology Practical	2	0	0	3	3	50	50	100
19ZL/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
Allied Core Offered to the Department of Botany									
19ZL/AC/GZ24	General Zoology II	4	4	0	0	3	50	50	100
19ZL/AC/P221	General Zoology II Practical	1	0	0	2	3	50	50	100
	Basic Tamil I / General Elective I	2	2	0	0	-	50	-	100
SEMESTER-III									
19ZL/MC/AP34	Animal Physiology	4	4	1	0	3	50	50	100
19ZL/MC/EV33	Evolution	3	3	1	0	3	50	50	100
19ZL/MC/P332	Animal Physiology and Evolution Practical	2	0	0	3	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	Basic Tamil II / General Elective II	2	2	0	0	-	50	-	100
SEMESTER-IV									
19ZL/MC/MB44	Microbiology	4	4	1	0	3	50	50	100
19ZL/MC/P442	Microbiology Practical	2	0	0	3	3	50	50	100
19ZL/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
	Major Elective I								
SEMESTER-V									
19ZL/MC/CM54	Cell and Molecular Biology	4	4	1	0	3	50	50	100
19ZL/MC/FB54	Fundamentals of Biotechnology	4	4	1	0	3	50	50	100
19ZL/MC/GN54	Genetics	4	4	0	0	3	50	50	100
19ZL/MC/P553	Cell and Molecular Biology, Genetics and Biotechnology Practical	3	0	0	6	3	50	50	100
Interdisciplinary Core Course (ZL and SC) to students of Zoology and Sociology									
19ID/IC/SZ55	Socioethnozoology	5	5	1	0	3	50	50	100
	General Elective III	2	2	0	0	-	50	-	100
	SAP / SL	2	2	0	0	-	50	-	100

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**  
**B.Sc. DEGREE : BRANCH VI.A.-ADVANCED ZOOLOGY AND BIOTECHNOLOGY**  
**COURSES OF STUDY**

(Effective from the academic year 2019-2020)

**CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
<b>SEMESTER-VI</b>									
19ZL/MC/AB64	Animal Behaviour	4	4	1	0	3	50	50	100
19ZL/MC/EC64	Ecology	4	4	1	0	3	50	50	100
19ZL/MC/IM64	Immunology	4	4	0	0	3	50	50	100
19ZL/MC/P663	Animal Behaviour, Ecology and Immunology Practical	3	0	0	6	3	50	50	100
19VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV	2	2	0	0	-	50	-	100

<b>Major Elective Courses</b>									
19ZL/ME/AZ45	Applied Zoology	5	5	0	0	3	50	50	100
19ZL/ME/PR45	Project	5	0	0	5	-	50	50	100
19ZL/ME/LT45	Medical Laboratory Technology	5	5	0	0	3	50	50	100
19ZL/ME/EB45	Environmental Biotechnology	5	5	0	0	3	50	50	100
19ZL/ME/IB45	Introduction to Marine Biology	5	5	0	0	3	50	50	100
<b>General Elective Courses</b>									
19ZL/GE/PC22	Pet Care	2	2	0	0	-	50	-	100
19ZL/GE/ND22	Nutrition and Therapeutic Diet	2	2	0	0	-	50	-	100
19ZL/GE/GD22	Genes, Diseases and Society	2	2	0	0	-	50	-	100
19ZL/GE/HR22	Biology of Human Reproduction	2	2	0	0	-	50	-	100
19ZL/GE/FI22	The Fascinating World of Insects	2	2	0	0	-	50	-	100
<b>Independent Elective Courses</b>									
19ZL/UI/WB23	Introduction to Wildlife Biology	3	0	0	0	3	-	100	100
19ZL/UI/FS23	Fundamentals of Food Science	3	0	0	0	3	-	100	100



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI. A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INVERTEBRATA**

**CODE:19ZL/MC/IV14**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to comprehend the characteristic features of various phyla
- To enable students to understand the structure and organisation of invertebrates and strategies to conserve them
- To help students to learn the classification of each phylum up to order level with underlying principles and local examples wherever possible
- To familiarise students with the economic, medicinal and phylogenetic significance of invertebrates

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Distinguish unique characters of different phyla
- Classify the primitive and organized forms and relate their phylogenetic significance
- Explain the structural organization and functions of various invertebrates
- Describe various conservation strategies
- Identify and report the local fauna
- Recognize the economic importance of some invertebrate forms

**Unit 1 (11 Hours)**

- 1.1 Introduction and Outline Classification of Animal Kingdom
- 1.2 Phylum Protozoa: Characteristic Features - Type: *Paramecium caudatum*
- 1.3 Locomotion in Protozoa
- 1.4 Parasitic Protozoans: *Entamoeba histolytica* and *Plasmodium sp.*

**Unit 2 (12 Hours)**

- 2.1 Phylum Porifera: Characteristic Features - Type : *Sycon*
- 2.2 Canal System in Sponges – Economic Importance of Porifera – Sponge Industry – Sponge Fishing – Sponge Cultivation
- 2.3 Phylum Coelenterata: Characteristic Features - Type : *Obelia geniculata*
- 2.4 Polymorphism in Coelenterates - Corals and Coral Reefs – Environmental Impact – Conservation- Affinities of Ctenophora

**Unit 3 (14 Hours)**

- 3.1 Phylum Platyhelminthes: Characteristic Features - Type : *Taenia solium*
- 3.2 Helminth Parasites in Relation to Human Welfare: *Schistosoma haematobium*, *Ascaris lumbricoides*, *Echinococcus granulosus*, *Ancylostoma duodenale*, *Wuchereria bancrofti* and *Enterobius vermicularis*
- 3.3 Phylum Annelida: Characteristics Features - Type: *Hirudinaria granulosa* - Medicinal Significance-Leech therapy
- 3.4 Metamerism in Annelids – Diversity of Annelids

**Unit 4 (14 Hours)**

- 4.1 Phylum Arthropoda: Characteristic Features - Type : *Panurginus indicus*
- 4.2 Structure and Phylogenetic Significance of *Peripatus*
- 4.3 Mouthparts and their Modification in Insects
- 4.4 Social Life in Insects: Termites, Ants and Honey Bees

**Unit 5 (14 Hours)**

- 5.1 Phylum Mollusca: Characteristic Features -Type : *Pila globosa*
- 5.2 Torsion in Gastropods-Economic Importance of Molluscs
- 5.3 Phylum Echinodermata: Characteristic Features -Type : *Asterias* sp.
- 5.4 Larval Forms of Echinoderms and their Significance

**BOOKS FOR STUDY**

Ayyar, Ekambaranatha M. and Ananthakrishnan. T.N. (2016). *Manual of Zoology. Vol.I, Part. I & II.* Madras: S.Viswanathan & Co

Jordan, E. L and Verma, P.S. (2012). *Invertebrate Zoology. Vol.I.* New Delhi: S.Chand

**BOOKS FOR REFERENCE**

Barnes, R. D. (1982). *Invertebrate Zoology.* Japan: Holt Saunders

Bhamrah, H. S. and Kavita Juneja. (1991). *Recent Trends in Invertebrates. Vol.I – VIII.* New Delhi: Anmol

Dhami, P. S. and Dhami J.K. (2015). *Invertebrate Zoology.* New Delhi: S.Chand

Kotpal, R. L. (2019). *Modern Textbook of Zoology Invertebrates.* New Delhi: Rastogi

Majumuria, T.C. (1985). *Invertebrate Zoology.* New Delhi: S.Nagin

Pechenik, Jan.A. (2005). *Biology of Invertebrates.* New York: McGraw-Hill

Siebold, C. Th.u. (2007). *Anatomy of Invertebrate.* U.S.A: Hard Press

**JOURNALS**

Journal of Animal Science

International Journal of Zoological Research

Invertebrate Survival Journal

**WEB RESOURCES**

[www.iaszoology.com](http://www.iaszoology.com)

<http://www.insects.org/>

<http://www.earthlife.net/begin.html>

**PATTERN OF ASSESSMENT****Continuous Assessment Test:           Total Marks: 50****Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components:                           Total Marks: 50**

Quiz/Assignment/Diagram Assignment/Scrap book

**End- Semester Examination:           Total Marks: 100****Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INVERTEBRATA PRACTICAL**

**CODE:19ZL/MC/P112**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**DISSECTIONS:** *Periplaneta americana*

Digestive System

Nervous System

Male and Female Reproductive Systems

**COMPUTER SIMULATED DISSECTIONS**

Digital Earthworm

**MOUNTS**

Body setae of Earthworm

Appendages of prawn - Demonstration

Mouth parts of mosquito, house fly and cockroach

**VERMICULTURE**

Study of life history stages of *Lampito mauritii* and *Perionyx excavatus*

Workshop on Vermitechnology

**SPOTTER**

**Invertebrata**

Identification and description of specimens of all groups of invertebrates studied under the syllabus- five under each phylum

Insect vectors – *Aedes* sp, *Culex* sp, *Pediculus* sp, *Xenopsylla* sp and *Sarcoptes scabiei*

**Soil microarthropods** – Extraction using Berlese funnel

**Study of any ten Invertebrate fauna in the Stella Maris College Campus** (Observation of habit, habitat and adaptive features)

Record of Microhabitat and correlation of host plant interaction (wherever possible )

**Visit to Zoological Survey of India/Farm**

**RECORD WORK**

Maintenance of a record of practical work done is essential for continuous assessment and is an integral part of the syllabus.

## **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Question – I Dissection		20 marks
Question – II Mount and Diagram		10+5 marks
Question – III Spotters (Five)		5x2 marks
Question –IV Identification of fauna in SMC (Two)		2x 2 <sup>1/2</sup> marks

<b>End-Semester Examination:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Question – I Dissection		20 marks
Question – II Mount and Diagram		10+5 marks
Question – III Spotters (Five)		5x2 marks
Question –IV Identification of fauna in SMC (Two)		2x 2 <sup>1/2</sup> marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS**

**CODE: 19ZL/SS/HC13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

**Unit 1 (13 Hours)**

**Food and Health**

**1.1 Traditional food and their health benefits**

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

**1.2 Causes, symptoms and home remedies for the following ailments**

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

**Unit 2 (13 Hours)**

**Food and energy balance**

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

**Unit 3 (13 Hours)**

**3.1 Energy conservation**

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

**3.2 Computer fundamentals**

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

**3.2.2 Configuring Email**

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

**BOOKS FOR REFERENCE**

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4<sup>th</sup> Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1<sup>st</sup> edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

### **No End Semester Examination**

**No CA test**



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Zoology to  
Students of Plant Biology and Plant Biotechnology**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GENERAL ZOOLOGY I**

**CODE:19ZL/AC/GZ14**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To familiarise students with the diversity of fauna on earth
- To enable students to understand the structure and organisation of Invertebrates and Chordates
- To help students to acquire knowledge about the economic importance of animals
- To enable students to understand the importance of conservation
- To familiarise students with the role of vectors and parasites in relation to human welfare

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the diversity of fauna on earth
- Classify Invertebrates and Chordates up to class level
- Describe the organisation of Invertebrates and Chordates
- Explain the economic importance of animals and apply this knowledge to human welfare
- Discuss the different aspects of conservation and recognise the need for the same

**Unit 1 (10 Hours)**

- 1.1 Introduction: Outline Classification of Animal Kingdom
- 1.2 Protozoa: Characteristic Features - Type: *Paramecium caudatum*
- 1.3 Coelenterata: Characteristic Features - Corals and Coral Reefs – Conservation and Economic Importance
- 1.4 Platyhelminthes & Aschelminthes: Characteristic Features - Helminth Parasites in relation to Human Welfare: Causative Organism, Life Cycle, Mode of Transmission, Symptoms & Prophylaxis of the following: *Taenia solium*, *Ascaris lumbricoides*, *Wuchereria bancrofti* and *Enterobius vermicularis*

**Unit 2 (11 Hours)**

- 2.1 Annelida: Characteristic Features - Vermitechnology: Vermiculture, Vermicomposting, Vermiwash and Setting up of Vermipit.
- 2.2 Arthropoda: Characteristic Features - Mode of Infection and Diseases caused by the following Vectors: *Anopheles sp.*, *Aedes sp.*, *Pediculus sp.*, *Musca domestica* - Social Life in Insects
- 2.3 Mollusca: Characteristic Features – Economic Importance
- 2.4 Echinodermata: Characteristic Features - Type: *Asterias sp.*

<b>Unit 3</b>	<b>(9 Hours)</b>
3.1 Prochordata & Agnatha: Salient Features	
3.2 Pisces: Characteristic Features – Parental Care and Migration in Fishes	
<b>Unit 4</b>	<b>(10 Hours)</b>
4.1 Amphibia and Reptilia: Characteristic Features	
4.2 Snakes of South India - Turtle Conservation	
4.3 Aves: Characteristic Features – Types of Feathers - Flight Adaptations	
<b>Unit 5</b>	<b>(12 Hours)</b>
5.1 Mammalia: Characteristic Features	
5.2 Type: <i>Oryctolagus cuniculus</i>	
5.3 Aquatic Mammals	

### BOOK(S) FOR STUDY

Ayyar, E. M. & Ananthakrishnan, T. N. (2016). *Manual of Zoology*. Vols. I & II Madras: S. Viswanathan.

### BOOKS FOR REFERENCE

Ali, M. S., Raju, S. V. S. & Alam, M. R. T. (2015). *A Textbook of Fundamental and Applied Entomology*. New Delhi. Kalyani.

Dhami, P. S. & Dhami J.K. (2015). *Invertebrate Zoology*. New Delhi: S. Chand.

Jordan, E.L. (2012). *Invertebrate Zoology*. New Delhi: S. Chand.

Jordan, E.L. & Verma, P.S. (2013). *Chordate Zoology*. New Delhi: S. Chand.

Kotpal, R. L. (2019). *Modern Textbook of Zoology: Invertebrates*. Meerut: Rastogi.

Kotpal, R. L. (2019). *Modern Textbook of Zoology: Vertebrates*. Meerut: Rastogi.

Nair, N. C., Thangamani, A., Leelavathy, S., Prasannakumar, S., Soundarapandian, N., Murugan, T., Narayanan, L. M. and Arumugam N. (2013). *Animal Diversity (Invertebrata and Chordata)*. Nagarcoil Saras.

Singh, H. P. & Rastogi, P. (2016). *Parasitology*. Meerut: Rastogi.

Springer, J.T. & Holley, D. (2013). *An Introduction to Zoology: Investigating the Animal World*. Massachusetts. Jones & Bartlett Learning.

### JOURNALS

Journal of Animal Science

Open Journal of Animal Sciences

### WEB RESOURCES

[www.sanctuaryasia.com](http://www.sanctuaryasia.com)

[www.iaszoology.com](http://www.iaszoology.com)

<http://www.earthlife.net>

### PATTERN OF ASSESSMENT

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
Section A – 6 x 2 = 12 Marks (All questions to be answered)		
Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)		
Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)		
<b>Other Components:</b>	<b>Total Marks: 50</b>	
Quiz/Assignments/Scrap book/Poster/Drawing Test/Assignment		
<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
Section A – 10 x 3 = 30 Marks (All questions to be answered)		
Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)		
Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)		

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Zoology to  
Students of Plant Biology and Plant Biotechnology**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GENERAL ZOOLOGY I PRACTICAL**

**CODE:19ZL/AC/P111**

**CREDITS:1**

**L T P:0 0 2**

**TOTAL HOURS:26**

- 1. Dissections:**  
*Periplaneta americana* –  
Digestive system  
Nervous system
- 2. Mounts:** Mouth parts of cockroach and housefly  
Ctenoid Scale -Mullet  
Placoid Scales - Shark  
Cycloid Scale – Koi carp
- 3. Computer Simulated Dissections**  
Invertebrata: Earthworm  
Chordata: Frog
- 4. Identification and description of the following Invertebrates and Chordates**  
Protozoa : *Paramecium caudatum*  
Coelenterata : *Hydra sp.*, *Tubipora sp.* and *Meandrina sp.*  
Annelida : *Hirudinaria sp.* and *Nereis sp.*  
Arthropoda : *Palamnaeus sp.* and *Panaeus indicus*  
Mollusca : *Sepia*, *Ostrea sp.* and *Xancus sp.*  
Echinodermata: *Asterias sp.*, *Holothuria sp.*  
Prochordata : *Amphioxus sp.*, *Ascidia sp.*  
Pisces : *Scoliodon sp.* and *Notopterus sp.*  
Amphibia : *Duttaphrynus melanostictus*, *Ambystoma sp.*  
Reptilia : *Chameleon sp.*, *Naja naja*, *Hydrophis* and *Ptyas mucosa*  
Aves : *Dinopium sp.* and *Psittacula sp.*  
Mammalia : *Manis sp.*, Bat.
- 5. Observation and identification of the following Parasites**  
*Entamoeba histolytica*, *Taenia solium* and *Ascaris lumbricoides*
- 6. Observation and identification of the following Vectors**  
*Anopheles sp.*, *Aedes sp.*, *Pediculus sp.*, *Xenopsylla cheopis* and *Cimex sp.*

Identification of any five invertebrate and five chordate fauna in the SMC Campus

**Record Work**

Maintenance of a record of practical work done is essential for continuous assessment and is an integral part of the syllabus.

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 3 hours**

Question – I    Major Question (Dissection)

20 marks

Question – II    Minor Question (Mount and Diagram)

15 marks

Question – III    Spotters (Five)

10 marks

Question – IV    Identification of fauna in Stella Maris College

5 marks

**End-Semester Examination:            Total Marks: 50**

**Duration: 3 hours**

Question – I    Major Question (Dissection)

20 marks

Question – II    Minor Question (Mount and Diagram)

15 marks

Question – III    Spotters (Five)

10 marks

Question – IV    Identification of fauna in Stella Maris College

5 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CHORDATA**

**CODE:19ZL/MC/CH24**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the organization of different groups of chordates
- To help students to learn the classification up to order level with suitable examples
- To familiarize students with the diversity and adaptability of chordates

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Distinguish between different groups of chordates.
- Describe the organ systems and functions of all classes of chordates.
- Identify the local fauna different classes of vertebrates
- Recognise the diversity and adaptations of Chordates in various environments
- Discuss the unique features of Chordates such as parental care, neoteny and migration

**Unit 1 (14 Hours)**

- 1.1 Introduction –Outline Classification - Characteristic Features of the Phylum Chordata (Study of Endoskeleton to be restricted to Pigeon and Rabbit)
- 1.2 Prochordates: Characteristic Features - Type: *Amphioxus* – Affinities – Retrogressive Metamorphosis In Urochordata
- 1.3 Agnatha: Cyclostomata - Characteristic Features – Type: *Petromyzon*- Affinities

**Unit 2 (12 Hours)**

- 2.1 Pisces: Characteristic Features
- 2.2 Type: *Scoliodon sorrakowah*
- 2.3 Accessory Respiratory Organs - Parental Care - Electric Organs

**Unit 3 (12 Hours)**

- 3.1 Amphibia: Characteristic Features- Neoteny in Urodela - Parental Care in Amphibia
- 3.2 Reptilia: Characteristic Features – Type: *Calotes versicolor* - Skull in Reptiles as Basis of Classification
- 3.3 Snakes of South India – Poison Apparatus and Biting Mechanism
- 3.4 Adaptive radiation in reptiles

**Unit 4** (12 Hours)

- 4.1 Aves: Characteristic Features – Type: *Columba livia*.
- 4.2 Flightless Birds
- 4.3 Flight Adaptations and Migration

**Unit 5** (15 Hours)

- 5.1 Mammalia: Characteristic Features – Type: *Oryctolagus cuniculus*.
- 5.2 Dentition in Mammals
- 5.3 Aquatic Mammals

**BOOKS FOR STUDY**

Ayyar, Ekambaranatha, M and Ananthakrishnan T.N. (2016). *A Manual of Zoology. Vol. II*  
Chetpet: S. Viswanathan & Co  
Jordan, E.L. and Verma P.S., *Chordate Zoology*, (2013). New Delhi: S. Chand.

**BOOKS FOR REFERENCE**

Kotpal, R.L. (2019). *Modern Text Book of Zoology- Vertebrates*. Meerut: Rastogi Publications  
Newman, N.H. (1981). *The Phylum Chordata*. Agra: Satish Book Depot  
Prasad, S. (2012). *Textbook of Vertebrate Zoology*. Chennai: New Age International Pvt. Ltd  
Romer, A.S. and Parson T.S. (1986). *The Vertebrate Body*. Philadelphia: Saunders College  
Saxena, R.K. and Sumitra Saxena, (2016). *Comparative Anatomy of Vertebrates*, (2<sup>nd</sup> ed.). New Delhi: Viva Books  
Sedgewick A. (1960). *A Text Book of Zoology - Vol II & III*. Allahabad: Central Book Depot  
Thangamani, A, Prasanna Kumar S. Arumugam N. and Narayanan L.M. (2013). *A Textbook of Chordates*. Nagarcoil Saras  
Young, J.Z. (1978). *The Life of Vertebrates*. New York: Oxford University Press

**JOURNALS**

Journal of Animal Science  
Open Journal of Animal Sciences  
Animal Science Journal

**WEB RESOURCES**

<http://www.mcwn.org/Animals/Animals.html>  
[animaldiversity.org](http://animaldiversity.org)  
[www.iaszoology.com](http://www.iaszoology.com)

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)  
Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)  
Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminars/Quiz/Assignments/Exhibition/Model Making

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)  
Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)  
Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**DEVELOPMENTAL BIOLOGY**

**CODE:19ZL/MC/DB23**

**CREDITS:3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to learn the basic concepts and theories in developmental biology.
- To enable students to understand the various phases of animal development
- To acquaint students with recent advances in the field of Developmental Biology and Bioethical issues

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Comprehend and discuss important concepts and theories in developmental biology and the mechanisms of metamorphosis and regeneration with their relevant applications.
- Describe the process of gametogenesis and fertilization.
- Describe the mechanism of blastulation and gastrulation in vertebrates and distinguish between the process in frog and chick.
- Explore experiments that demonstrate the inductive functions of organizers.
- Explain the concepts of cellular differentiation and differential activity thereby knowing the significance of germ layers from which various organs arise
- Discuss the recent trends in Assisted Reproductive Technology and ethical issues associated with it.

**Unit 1 (10 Hours)**

- 1.1 Introduction - Brief History - Theories of Preformation, Epigenesis, Pangenesis, Recapitulation, Germplasm - Mosaic and Regulative Development - Gradient and Organisers
- 1.2 Metamorphosis in Insects and Amphibians
- 1.3 Regeneration: Mechanism and Types, Medical Applications

**Unit 2 (11 Hours)**

- 2.1 Gametogenesis: Spermatogenesis - Morphology and Types of sperms - Oogenesis - Eggs - Morphology, Types
- 2.2 Fertilization: Physicochemical Aspects, Theories - Parthenogenesis
- 2.3 Embryonic Adaptations: Extra - Embryonic and Foetal Membranes - Types and Functions of Placenta

**Unit 3 (10 Hours)**

- 3.1 Cleavage: Patterns – Factors influencing cleavage - Blastulation in Frog and Chick
- 3.2 Gastrulation: General Morphogenetic Movements in Chordate Embryos – Experiments by Spemann and Mangold -Comparative Study of Gastrulation in Frog and Chick
- 3.3 Cell-Lineage - Fate Maps and their Significance

**Unit 4 (10 Hours)**

- 4.1 Cell differentiation and differential activity
- 4.2 Organogenesis: Ectodermal Derivatives – Brain and Sense Organs (Eye and Ear)
- 4.3 Mesodermal Derivatives: Heart and Blood
- 4.4 Endodermal Derivatives: Digestive Tract and its Derivatives

**Unit 5 (11 Hours)**

- 5.1 Assisted Reproductive Technology: Induced Ovulation and its Applications – *In vitro* Fertilisation - Cryopreservation - Surrogate Motherhood – ethical issues
- 5.2 Concept of potencies: totipotency and pluripotency – nuclear transfer experiments – embryonic and haemopoietic stem cells – ethical issues
- 5.3 Teratogenesis – teratogenic agents and their impact on embryonic development

**BOOKS FOR STUDY**

Verma, P.S. & Agarwal, V. K. (2014). *Chordate Embryology*. New Delhi: S. Chand.  
Sastry, K.V & Shukla, V. (2017). *Developmental Biology*. Meerut: Rastogi Publication.

**BOOKS FOR REFERENCE**

Balinsky, B.I. (2012). *An Introduction to Embryology*. Japan: Holt-Saunders.  
Gilbert, S. F. (2013). *Developmental Biology*. Massachusetts: Sinauer Associates, Inc.  
Rastogi, V.B. & Jayaraj, M. S. (2014). *Developmental Biology*. Meerut: Kedarnath Ramnath.  
Starr, C. & Taggart, R. (2003). *Biology: The Unity and diversity of life*. California :Brooks/Cole Pub Co.  
Warren, J. (2003). *Developmental Biology*. New York and Canada: Macmillan.  
Wolpert, L., Tickle, C. & Arias, A. M. (2019). *Principles of Development*. London: University Press.

**JOURNALS**

International Journal of Developmental Biology  
Journal of Developmental Biology

**WEB RESOURCES**

<http://www.visembryo.com/baby/index.html>  
<http://www.sdbonline.org/>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminars/Presentation/Quiz/Assignments/Mini Project/Scrap Book

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. – ADVANCED ZOOLOGY  
AND BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CHORDATA AND DEVELOPMENTAL BIOLOGY PRACTICAL**

**CODE:19ZL/MC/P222**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL TEACHING HOURS:39**

**1. DISSECTIONS**

**Fish:** Viscera and Digestive system

**2. MOUNTS**

- 1) Scales of fishes – Placoid-Shark  
Ctenoid- Mullet  
Cycloid –Koi Carp
- 2) Mount of Otolith in fish

**3. COMPUTER SIMULATED DISSECTION**

Frog – All systems

**4. SPOTTER**

Identification and description of specimens of all groups of chordates studied in the syllabus

**5. Observation of any ten Chordate fauna in the Stella Maris College Campus**

**6. DEVELOPMENTAL BIOLOGY**

1. Observation of prepared slides of testis and ovary of a mammal.
2. Observation of different kinds of vertebrate eggs (frog, reptile, bird and mammal).
3. Observation of different kinds of sperm (frog, bird and mammal)
4. Study of prepared slides of blastulation and gastrulation stages of Frog.
5. Observation and examination of prepared slides (whole mounts) of 13, 24, 33, 48, 72 and 96 hours chick embryo.
6. Observation of sections through brain, heart, eye and ear of frog on prepared slides
7. Observation and Identification of placenta of shark, sheep and pig.
8. Observation: Life cycle of frog

**7. Field trip (Zoological park / Sanctuary/ Museum) – observation of chordates and compilation of a report**

**Record Work**

Maintenance of a record of practical work done and the observation of campus chordate fauna is essential for continuous assessment

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 3 hours**

Question – I	Dissection	15 marks
Question – II	Mount + Diagram	10+5 marks
Question – III	Spotters (Six): Chordata (2) & DB (4)	15 marks
Question – IV	Identification & description of any two fauna in Stella Maris College	5 marks

### **End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Question – I	Dissection	15 marks
Question – II	Mount + Diagram	10+5 marks
Question – III	Spotters (Six): Chordata (2) & DB (4)	15 marks
Question – IV	Identification & description of any two fauna in Stella Maris College	5 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Core Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL STUDIES**

**CODE:19ZL/GC/ES12**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

**Unit 1 (10 Hours)**

- 1.1 Introduction: The multidisciplinary nature of environmental studies;  
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-  
energy resources: renewable and non-renewable sources, impact of over-  
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans  
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and  
*ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

**Unit 2 (10 Hours)**

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects  
and control measures -Impact of over-population on pollution and health –  
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations  
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan  
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

### Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

### BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2<sup>nd</sup> ed.) Universities Press, 2013.

### BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3<sup>rd</sup> edition, University Science Press, 2016.

### JOURNALS

Journal of Environmental Studies and Sciences  
Journal of Environmental Studies

### WEB RESOURCES

[www.enn.com](http://www.enn.com)  
[www.nationalgeographic.com](http://www.nationalgeographic.com)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:** **Total Marks: 25** **Duration: 60 minutes**  
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions  
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

**Other Component:** **Total Marks: 25**  
Any **one** of the following for 25 marks  
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

### No End Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Zoology to  
Students of Plant Biology and Plant Biotechnology**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GENERAL ZOOLOGY II**

**CODE:19ZL/AC/GZ24**

**CREDITS :4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS: 52**

**OBJECTIVES OF THE COURSE**

- To enable students to learn basic concepts in Developmental Biology, Animal Behaviour, Human Genetics, Immunology and Evolution
- To help students to understand the processes and mechanisms in various subdisciplines of Zoology
- To familiarise students with the current trends in various subdisciplines of Zoology

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Describe the processes of development of animals
- Identify different patterns of inheritance
- Differentiate between the normal and abnormal behaviour in animals
- Explain the immunological response and the role of the Immune System in maintaining health and contributing to disease
- Discuss the adaptations and distribution of animals and identify the milestones in human evolution

**Unit 1 (10 Hours)**

- 1.1 Introduction - Gametogenesis - Fertilisation -Types of Vertebrate Eggs
- 1.2 Cleavage, Blastulation and Gastrulation in Rabbit
- 1.3 Placentation in Mammals
- 1.4 Assisted Reproductive Technology: *In Vitro* Fertilization – Bioethical Issues

**Unit 2 (10 Hours)**

- 2.1 Introduction- Shelter Seeking and Construction
- 2.2 Animal Associations: Commensalism, Mutualism, Parasitism and Predation
- 2.3 Behaviour and Reproduction: Courtship Behaviour – Parental Care
- 2.4 Learning Behaviour: Forms of Learning
- 2.5 Abnormal Behaviour in Domestic and Zoo Animals

**Unit 3 (11 Hours)**

- 3.1 Introduction – Human Chromosomes — Sex Determination in Humans – Lethal Genes: types and examples
- 3.2 Patterns of Inheritance: Autosomal Dominant (Hypercholesterolaemia), Autosomal Recessive (Albinism), X- linked Dominant (Hypophosphatemia), X-linked Recessive (Red green colour blindness), Y-linked (Hypertrichosis), Mitochondrial (Kearns Sayre Syndrome) and Multiple Allelic (A,B,O blood groups in humans) and Multiple Genic Inheritance (Skin colour in humans)
- 3.3 Inborn errors of metabolism - Genetic Counselling

**Unit 4 (10 Hours)**

- 4.1 Immune System: Introduction - Innate Immunity: Anatomical barriers and Inflammation
- 4.2 Acquired Immunity: Humoral and Cell Mediated Immunity - Types of Antigens - Antibody Classes and their Biological Activity
- 4.3 Hypersensitivity reactions: types - Autoimmune disorder: Rheumatoid Arthritis
- 4.4 Vaccines: Types - Vaccination schedule

**Unit 5 (11 Hours)**

- 5.1 Introduction to Evolution - Mimicry and Colouration - Coevolution
- 5.2 Distribution of Animals - Types, barriers and methods of dispersal of animals
- 5.3 Evolution of Man: Biological, Racial and Cultural history

**BOOKS FOR REFERENCE**

- Agarwal, V.K. (2009). *Animal Behaviour*. New Delhi: S.Chand, 2009.
- Balinsky, B. I & Fabian, B. C. (2012). *An Introduction to Embryology*. Massachusetts :Cengage.
- Cummings, R. M. (2012). *Human Heredity – Principles and issues*. 12<sup>th</sup> ed.Canada: Thomson Brooks/Cole.
- Hall B. K., Hallgrimsson, B & Strickberger, M. W. (2014). *Strickberger's Evolution*. Massachusetts: Jones and Bartlett.
- Klug, W. S., Cummings, M. R. & Spencer, C. (2018). *Concepts of Genetics*. (12<sup>th</sup> ed.). New Jersey: Pearson Education.
- Mathur, R. (2016). *Animal Behaviour*. Meerut: Rastogi.
- Owen, J. A., Punt, J. & Stranford, S. A. (2013). *Kuby Immunology*.New York 2013: W.H. Freeman & Company
- Rastogi, V. B. (2015). *Evolutionary Biology (Organic Evolution)*. Meerut: Kedar Nath Ram Nath.
- Rastogi,V. B. & Jayaraj, M.S. (2011). *Developmental Biology*. Meerut: Kedarnath Ramnath.
- Rao . V. C. (2016). *Immunology. Alpha Science*.
- Tomar, B. S. & Singh, S. P. (2019). *Animal Distribution, Evolution and Developmental Biology*.Meerut: Rastogi.

**JOURNALS**

Journal of Human Genetics  
International Journal of Zoological Research

**WEB RESOURCE**

[www.omim.org](http://www.omim.org)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components:                            Total Marks: 50**

Quiz/Analysis of Mendelian traits/Assignments/Scrap book/Data collection and compilation of report

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Allied Core Offered by the Department of Zoology to Students of  
Plant Biology and Plant Biotechnology**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GENERAL ZOOLOGY II PRACTICAL**

**CODE:19ZL/AC/P221**

**CREDITS:1**

**L T P:0 0 2**

**TOTAL TEACHING HOURS:26**

**1. DEVELOPMENTAL BIOLOGY**

- i. Observation of Different Kinds of Vertebrate Eggs: Frog and Chick
- ii. Observation of Different Kinds of Sperm: Frog and human
- iii. Study of Prepared Slides: Cleavage, Blastulation and Gastrulation Stages of Frog
- iv. Placenta: Sheep and Pig

**2. ANIMAL BEHAVIOUR**

- i. Animal Associations: Parasitism - *Entamoeba histolytica*, *Taenia solium*, *Ancylostoma duodenale*, *Wuchereria bancrofti*, *Hirudinaria granulosa*, *Sacculina* on Crab
- Mutualism - Sea Anemone on Hermit Crab
- Commensalism - *Echeneis*
- Predation – Octopus
- ii. Nests of Birds

**3. GENETICS**

- i. ABO - Blood Grouping and Rh – Typing
- ii. Observation of normal male and female, Turner's, Klinefelter's and Down's syndrome karyotypes

**4. IMMUNOLOGY**

- i. Identification of immune cells
- ii. Pregnancy test: ELISA- Qualitative Test for Pregnancy

**5. EVOLUTION**

- i. Coevolution: Observation and Identification of a) Plant and Pollinator b) Predator and Prey
- ii. Mimicry and Colouration: Observation and Identification of a) Batesian and Mullerian mimicry b) Protective and Aggressive Colouration
- iii. Identification of stages in the evolution of man

**RECORD WORK**

Maintenance of a record of practical work done is essential for continuous assessment and is an integral part of the syllabus.



**PATTERN OF ASSESMENT****Continuous Assessment Test:****Total Marks: 50****Duration: 3 hours**

Question – I ABO/Rh Typing/ Pregnancy Test

15 marks

Question – II Spotters (Seven)

35 marks

**End-Semester Examination:****Total Marks: 50****Duration: 3 hours**

Question – I ABO/Rh Typing/ Pregnancy Test

15 marks

Question – II Spotters (Seven)

35 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE : BRANCH VI.A. - ADVANCED ZOOLOGY  
AND BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ANIMAL PHYSIOLOGY**

**CODE:19ZL/MC/AP34**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the functioning of organs and organ systems and their regulatory mechanisms.
- To help students to comprehend the mechanisms of osmoregulation, thermoregulation, colour change and bioluminescence.
- To familiarise students with the pathophysiology of a few human diseases/disorders and the physiology of sports and ageing.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the functioning and regulation of various organs and organ systems
- Describe the mechanisms of osmoregulation and thermoregulation in various animals
- Discuss the principles and chemicals involved in colour change and bioluminescence
- Identify the causes and the pathological effects of certain human disorders/ diseases
- Analyse the physiological changes that occur during exercise and ageing.

**Unit 1 (12 Hours)**

- 1.1 Introduction – Types of Nutrition – Feeding Mechanisms – Types of Digestion
- 1.2 Respiratory organs and mechanism of respiration (trachea, gills, skin and lungs) – respiratory pigments
- 1.3 Adaptations to diving and high altitudes
- 1.4 Physiological effect of smoking and carbon monoxide in humans – Oxygen Therapy – Artificial Respiration

**Unit 2 (12 Hours)**

- 2.1 Types of Circulatory Systems (open and closed)
- 2.2 Regulation of heart beat and blood pressure in humans
- 2.3 Role of drugs / chemicals (Atropine, Pilocarpine and Digitaline) on heart rate in humans – Angiogram, Angioplasty and Echo
- 2.4 Thermoregulatory mechanisms in insects and vertebrates

**Unit 3 (14 Hours)**

- 3.1 Osmoregulatory mechanisms in invertebrates and vertebrates – Acid-Base balance in Mammals
- 3.2 Nitrogenous substances excreted by animals – classification of animals based on nitrogenous products excreted

- 3.3 Types of synapses (electric and chemical) – neuromuscular synapses – neurotransmitters – Neurotransmission and external agents (Drugs, toxins and pollutants)
- 3.4 Vertebrate Autonomic nervous system – Types of sensory receptors – nociception, electroreception and magnetoreception

**Unit 4 (12 Hours)**

- 4.1 Neural control of skeletal muscles
- 4.2 Non vertebrate endocrinology (molluscs, annelids and arthropods) – Effect of endocrine disruptor chemicals in humans
- 4.3 Chromophores: mechanism of colour change in cold blooded vertebrates
- 4.4 Bioluminescence: chemistry, mechanism and significance

**Unit 5 (15 Hours)**

- 5.1 Hormones in pregnancy – complications in pregnancy (ectopic pregnancy, breach, placenta previa)
- 5.2 Pathophysiology of human disorders/diseases: Anorexia nervosa, Chronic Obstructive Pulmonary Disorder, Atherosclerosis, Parkinson's, Alzheimer's, Cerebral Palsy and Poly Cystic Ovarian Disorder
- 5.3 Sports Physiology: muscles in exercise, respiration in exercise, cardiovascular system in exercise and body fluids & salts in exercise – drugs and athletes
- 5.4 Physiology of ageing: changes in major systems, causes and theories

**BOOKS FOR STUDY**

Verma, P.S., Agarwal, V. K. & Tyagi, B. S. (2015). *Animal Physiology*. New Delhi: S. Chand.

**BOOKS FOR REFERENCE**

- Guyton, A.C. (2011). *Text Book of Medical Physiology*. (12<sup>th</sup> ed.). Philadelphia: W.B. Saunders & Co.
- Hill, R. W. Wyse, G. A. and Anderson. M. (2016). *Animal Physiology* (4<sup>th</sup> ed.). U.K: Oxford University Press.
- Hoar, W.S. (1975). *General and Comparative Physiology*. New Delhi: Prentice Hall of India Pvt. Ltd.
- Prosser, C.L. (1973). *Comparative Animal Physiology*. Philadelphia: W.B. Saunders Co.
- Randall, D., Burggren, W. and French, K. (2015). *Eckert Animal Physiology*. (6<sup>th</sup> ed.). New York: W.H. Freeman and Company.
- Sherwood, L. (2016). *Human Physiology – From Cells to Systems*. (9<sup>th</sup> ed.). USA: Wadsworth Publishing Company.
- Sherwood, L., Klandorf, H. and Yancey, P. (2011). *Textbook of Animal Physiology*. New Delhi: Cengage Learning India Pvt. Ltd. New Delhi.
- Sobti, R.C. (2008). *Animal Physiology*, New Delhi: Narosa Publishing House.

**JOURNALS**

Indian Journal of animal Physiology  
 Extreme Physiology and Medicine

**Web Resources**

[www.physiology.com](http://www.physiology.com)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A –  $6 \times 2 = 12$  Marks (All questions to be answered)

Section B –  $3 \times 6 = 18$  Marks (3 out of 5 to be answered)

Section C –  $1 \times 20 = 20$  Marks (1 out of 2 to be answered)

**Other Components:                                      Total Marks: 50**

Seminars/Quiz/Assignments/Poster making/Exhibition

**End-Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A –  $10 \times 3 = 30$  Marks (All questions to be answered)

Section B –  $5 \times 6 = 30$  Marks (5 out of 7 to be answered)

Section C –  $2 \times 20 = 40$  Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY  
AND BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**EVOLUTION**

**CODE:19ZL/MC/EV33**

**CREDITS :3**

**L T P:3 1 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the evolutionary process which includes a general account of theories and evidences
- To help students to comprehend the genetic basis of the evolutionary process as seen from the study of population genetics
- To familiarise students with evolutionary patterns, speciation and animal distribution
- To enable students to understand the biological and cultural evolution of man

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss the evolutionary process in the light of theories, evidences and population genetics
- Draw a timeline of the history of life on earth, highlighting when major biological events occurred
- Explain the various patterns of evolution
- Identify the milestones in the evolution of horse and man
- Analyse evolutionary relationships between taxa by reading/creating phylogenetic trees

**Unit 1 (12 Hours)**

- 1.1 Introduction - Origin of Life
- 1.2 Evidences in support of evolution from the fields of comparative morphology and anatomy, physiology, biochemistry, embryology and biogeography
- 1.3 Theories of evolution: Lamarckism, Neo-Lamarckism, Darwinism, Neo-Darwinism: Heredity and Evolution, Modern Synthetic theory of Natural Selection, Mutation theory of De Vries

**Unit 2 (9 Hours)**

- 2.1 Geological Time Scale and Stratification
- 2.2 Fossilisation: dating of fossils - Indian fossils - living fossils
- 2.3 Extinction: five major extinctions and role of extinction in evolution

**Unit 3 (11 Hours)**

- 3.1 The genetic basis of evolution: Variation, Mutation, Genetic Drift, Founder Effect and Migration
- 3.2 Types of Natural selection: stabilising selection, directional selection, disruptive selection and group selection

3.3 Species concept: Speciation (Allopatric and Sympatric)- Subspecies - Sibling Species - Isolation in Speciation

**Unit 4 (10 Hours)**

- 4.1 Convergent and divergent evolution - Adaptive radiation in birds and mammals
- 4.2 Mimicry and Colouration - Coevolution
- 4.3 Micro, macro and megaevolution
- 4.4 Distribution of Animals: Types, Barriers and Methods of Dispersal of Animals

**Unit 5 (10 Hours)**

- 5.1 Evolution of Horse and Significance
- 5.2 Evolution of Man – Biological, Racial and Cultural History
- 5.3 Molecular Evolution: Molecular Clocks – Phylogenetic trees - Systematics: Phenetics and Cladistics

**BOOKS FOR STUDY**

Gopalakrishnan, T.S., Sambasiviah, I. & Rao, A.P.K. (2000). *Principles of Organic Evolution*. Himalaya

Rastogi, V. B. (2015). *Evolutionary Biology (Organic Evolution)*. Meerut: Kedar Nath Ram Nath.

**BOOKS FOR REFERENCE**

Bromhan, L. (2016). *An Introduction to Molecular Evolution and Phylogenetics*. UK: Oxford University Press.

Colbert, E.H. (2001). *Evolution of the Vertebrates*. New Delhi: Wiley Eastern.

Darwin, C. (1909). *The Origin of Species*. London: John Murray.

Dodson, E.O. (1985). *Evolution Process and Product*. New York: Reinhold.

Foley, R. A. & Lewin, R. (2013). *Principles of Human Evolution*. Massachusetts: John Wiley & Sons.

Futuyma, D. J. & Kirkpatrick, M. (2017). *Evolution*. U.S.A: Sinauer.

Hall B. K., Hallgrimsson, B & Strickberger, M. W. (2014). *Strickberger's Evolution*. MA: Jones and Bartlett, 2014.

Moody, P.A. (1978). *Introduction to Evolution*. New York: Harper.

Rastogi, V. B. & Jayaraj, M.S. (1998). *Animal Ecology and distribution of animals*. Meerut: Kedar Nath Ram Nath.

Shapiro, J. A., (2011). *Evolution: A View from the 21<sup>st</sup> Century*. London: Pearson Education.

Tomar, B. S. & Singh, S. P. (2017). *Evolutionary Biology*. Meerut: Rastogi.

**JOURNALS**

Journal of Evolutionary Biology

**WEB RESOURCES**

<http://ncse.com/evolution>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50**

**Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components:** **Total Marks: 50**

Seminars/Quiz/Assignments/Presentation/Exhibition

**End-Semester Examination:** **Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY  
AND BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ANIMAL PHYSIOLOGY AND EVOLUTION PRACTICAL**

**CODE:19ZL/MC/P332**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL HOURS:39**

**PHYSIOLOGY**

1. Oxygen consumption in an aquatic animal with reference to body weight.
2. Detection of nitrogenous waste products, qualitative estimation of Ammonia, (fish) Uric acid (bird excreta) and Urea (mammalian kidney)
3. Determination of amylase activity in relation to temperature
4. Determination of amylase activity in relation to pH
5. Assessing digestion of proteins, carbohydrates and fats using Physio Ex 8.0
6. Study of frog cardiovascular physiology using Physio Ex 8.0.
7. Salt loss and salt gain in fish
8. Measurement of BP and Pulse

**Demonstration:**

Estimation of Na and K content in food samples by Flame Photometry

**EVOLUTION**

1. Observation and identification of the following:
  - i) Different modes of fossilisation
  - ii) Living fossils
  - iii) Coevolution (Plant-pollinator and Predator-prey)
  - iv) Mimicry (Batesian and Mullerian) and Colouration (Protective and Aggressive)
2. Observation of stages in the evolution of man
3. Construction/interpretation of phylogenetic tree

**RECORD WORK**

Maintenance of a record of practical work done is essential for continuous assessment and is an integral part of the syllabus.

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 3 hours**

Question – I	25 marks
Question – II	10 marks
Question – III Spotters (Five)	15 marks

**End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Question – I	25 marks
Question – II	10 marks
Question – III Spotters (Five)	15 marks



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY  
AND BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MICROBIOLOGY**

**CODE:19ZL/MC/MB44**

**CREDITS :4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to have an overview of microbial classification and techniques; study the functional morphology, growth and reproduction of bacteria and viruses
- To help students to acquire a knowledge of microbial diseases and their control
- To enable students to understand the role of microbes in everyday life.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Describe and demonstrate the different techniques used in microbiology.
- Differentiate between prokaryotes and eukaryotes and to classify organisms belonging to both categories.
- Describe the structure of different kinds of bacteria and viruses and explain concepts relating to their growth and multiplication.
- correlate the microbe with the type of environment in which it is found including microbes that are normally found in the human body.
- identify causative organisms of some important diseases, their mode of transmission, control measures and treatment of the diseases.
- apply their knowledge of useful and harmful microbes in their daily life in storage and usage of food and milk and certain materials such as textiles, paper and cosmetics.

**Unit 1**

**(12 Hours)**

- 1.1 Introduction - History and Scope of Microbiology
- 1.2 Outline Classification of Microorganisms with Special Reference to Bacteria and Viruses - Characteristic Features of Prokaryotes and Eukaryotes
- 1.3 Microbiological Techniques: Microscopy, Specimen Preparation and Staining Techniques - Media Preparation and Types of Culture Media – Preservation of Culture – Pure Culture Techniques

**Unit 2**

**(15 Hours)**

- 2.1 Viruses: General Properties – Isolation and Cultivation of Viruses - Structure and Reproduction of T<sub>4</sub> Phage – Structure and Multiplication of an Animal Virus – Subviral Particles (Viroids and Prions)
- 2.2 Archaea – Characteristics (Brief Outline)

- 2.3 Bacteria: Gross Morphology of Bacterial Cells - Size, Shape and Arrangement- Structure of a Bacterium: Cell Wall, flagellum – flagellar arrangement - Chemical Composition and Characteristics of Gram Positive and Gram Negative Bacteria – Molecular Structure of Nucleoid –Types and Functions of Plasmids- cytoplasmic inclusions.
- 2.4 Bacterial Growth: Reproduction and Growth of Bacterial Population - Growth Curve – Measurement of Microbial Growth

**Unit 3 (13 Hours)**

- 3.1 Physical Conditions Required for Growth of Bacteria: Temperature, Oxygen and pH - Nutritional Requirements - General Nutritional Classification of Bacteria
- 3.2 Recombination in Bacteria: Transformation, Conjugation and Transduction
- 3.3 Microbial Control: Importance, Control of Micro-Organisms by Physical and Chemical Agents – Antibiotics and Their Mechanisms of Action

**Unit 4 (13 Hours)**

- 4.1 The Normal Micro-Biota of the Human Body: Skin, Mouth and Oropharynx, Stomach, Small Intestine, Large Intestine, Vagina and Urethra (Brief Study)
- 4.2 Disease Cycle of a Communicable Disease – Disease Progression - Epidemiology
- 4.3 Causative agents, symptoms, pathogenicity and control measures of the following Infectious Diseases: Airborne (Influenza, Pneumonia and Measles)- Food and Water Borne (Hepatitis A, Typhoid, and Polio) — Infection Through Body Fluids (Hepatitis B and Ebola) - Sexually Transmitted Diseases (Genital Herpes, Gonorrhoea and Syphilis) - Zoonotic (Swine Flu, Dengue Fever and Leptospirosis) - Nosocomial and Fomite Borne

**Unit 5 (12 Hours)**

- 5.1 Microbiology of Food: Sources and Types of Microorganisms In Milk – tests for bacterial contamination of milk -Pasteurization of Milk - Dairy Products (Fermented Milk, Cheese) - Fermented Food – Probiotics -Spoilage of Food and its Control — Indicator Organisms- Food Poisoning
- 5.2 Microbial Damage of Materials: Natural Fabrics, Paper and Cosmetics
- 5.3 Soil Microbiology: Role of Micro-organisms in Soil Fertility – Nitrogen Cycle - Sulfur Cycle

**BOOKS FOR STUDY**

Dubey, R.C. & Maheshwari. D.K. (2013). *A Text Book of Microbiology*. New Delhi: S.Chand.

Pelczar, M. J., Chan, E.C.S. & Krieg, N. R. (2001). *Microbiology*. New York city: McGraw Hill.

**BOOKS FOR REFERENCE**

Bergquist L.M., & Barbara, P. (2002). *Microbiology – Principles and Health Science Applications*. Philadelphia:W.B. Saunders Company.

Baumam, R.W. (2017). *Microbiology with Diseases by body system*. London: Pearson.

Cornellisen, C. N. & Hobbs, M. M. (Ed.). (2019). *Lippincott Illustrated Reviews: Microbiology*. Netherlands : Wolters Kluwer.

Kanungo, Reba (Ed.). (2015). *Anantanarayan and Paniker's textbook of Microbiology*. Universities Press.

Michael, M. T. & Bender, K. S. (2018). *Brock Biology of Microorganisms*. U.S.A: Pearson Publication.

Nester, E. W., Anderson, D. G., Evans, R. C. & Nester, M. T. (2005). *Microbiology – A Human Perspective*. New York: Mc Graw Hill.

Pommerville, J. C.(2004). *Alcamo's Fundamentals of Microbiology*. U.S.A: Jones and Bartlett.

Prescott, L.M., Harley, J. P. & Klein, D. A. (2005). *Microbiology*. New York: McGraw Hill.

Tortora, G. J., Funk, B. R. & Case, C. L. (2016). *Microbiology – An Introduction*. San Francisco: Pearson - Benjamin Cummings.

## **JOURNALS**

International Journal of Microbiology

Journal of Applied Microbiology

## **WEB SOURCES**

<http://archives.microbeworld.org/microbes/>

<http://www.bioedonline.org/>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components:                                      Total Marks: 50**

Seminars/Quiz/Assignments/Case studies/Exhibition/Poster making

**End-Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MICROBIOLOGY PRACTICAL**

**CODE:19ZL/MC/P442**

**CREDITS:2**

**L T P:0 0 3**

**TOTAL TEACHING HOURS:39**

Identification of Microbes – Prepared Specimens

1. Instruments Used in Microbiology Laboratory – Microscope, Incubator, Hot Air Oven, Autoclave, Laminar Flow, Colony Counter
2. Observation of Bacterial Motility – Hanging Drop Preparation
3. Preparation of Nutrient Agar, MacConkey Agar – Agar Slant
4. Isolation of Bacteria by Pure Culture - Streak Plate
5. Examination of Soil Bacteria using Pour Plate Method
6. Coliform Count in Drinking Water Samples by Membrane Filter Technique
7. Gram Staining and Examination of Bacteria
8. Spoilage of Food Items viz., Milk - Bread - Fruits and Vegetables – (Observation)
9. Examination of Milk - Methylene Blue Reduction Test
10. Winogradsky Column – Observation of Bacterial Diversity
11. Antibiotic Sensitivity Test - Kirby Bauer Diffusion Method
12. Collection and Classification of Antibiotics Based on their Biological Origin, Mode of Action and their Applications

**RECORD WORK**

Maintenance of a record of practical work done is essential for continuous assessment and is an integral part of the syllabus

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
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Question – I	25 marks
Question – II	15 marks
Question – III      Spotters (Four)	10 marks

<b>End-Semester Examination:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
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Question – I	Major Question	25 marks
Question – II	Minor Question	15 marks
Question – III	Spotters (Four)	10 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**Soft Skills Course Offered to students of  
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

**SYLLABUS  
(Effective from the academic year 2019 - 2020)**

**LIFE SKILLS: PERSONAL AND SOCIAL**

**CODE: 19ZL/SS/PS13**

**CREDITS: 3**

**L T P: 3 0 0**

**TOTAL TEACHING HOURS: 39**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

**Unit 1 (13 Hours)**

**Legal Literacy**

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

**Unit 2 (13 Hours)**

**2.1 Understanding Self**

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

## **2.2 Understanding Society**

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

## **Unit 3**

**(13 Hours)**

### **Personal Financial Planning**

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
  - 3.3.1 Forms of Savings – Deposits, Insurance
  - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
  - 3.4.1 De-Mat Account
  - 3.4.2 Net Banking and Mobile Banking

## **BOOKS FOR REFERENCE**

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3<sup>rd</sup> Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1<sup>st</sup> Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment:**

**Total Marks: 50**

Two to three Task based components  
Task based classroom activities  
Case studies  
Group discussions  
Group presentation  
Role play

### **No End Semester Examination**

**No CA test**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CELL AND MOLECULAR BIOLOGY**

**CODE:19ZL/MC/CM54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVE OF THE COURSE**

- To enable the students to understand the structure and function of various cellular organelles.
- To enable students to acquire knowledge on various stages of cell cycle, its regulation and disruption.
- To introduce students to advanced knowledge on DNA, its replication, repair and gene expression in prokaryotes and eukaryotes.

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Describe the structure of a eukaryotic cell with its component organelles and cytoskeleton.
- Discuss the origin of eukaryotic cells from prokaryotic cells
- Describe structure of the cell membrane and discuss transport of molecules across cell membranes.
- Discuss eukaryotic cell cycles, describe the events of interphase and distinguish between different types of cell division.
- Explain the characteristics of cancerous cells and the genetic basis of cancer
- Differentiate between the replication and repair of DNA in both prokaryotes and eukaryotes along with associated biochemical processes.
- Integrate the concepts of cell and molecular biology with related fields in biology.

**Unit 1 (13 Hours)**

- 1.1 Introduction – Prokaryotic and Eukaryotic Cells
- 1.2 Origin of Eukaryotic Cells – Endosymbiont Theory
- 1.3 Cell Membrane: Structural Organization, Asymmetry and Fluidity, Specializations in Structure - Transport Across Membranes
- 1.4 Cytoskeleton: Microtubules, Actin Filaments and Intermediate Filaments

**Unit 2 (13 Hours)**

- 2.1 Cytoplasmic Vacuolar System: Endoplasmic Reticulum, Golgi Apparatus, Lysosomes: Structure, Polymorphism, Functions and Diseases - Peroxisomes
- 2.2 Mitochondria: Structure and Functions
- 2.3 Ribosomes: Structure, Types, Functions
- 2.4 Nuclear Organization
- 2.5 Cell Receptors and Signal Transduction

**Unit 3 (13 Hours)**

- 3.1 Chromosomes – Structure, Types and Functions
- 3.2 Cell Cycle: Mitosis, Meiosis, Regulation
- 3.3 Apoptosis
- 3.4 Cancer Biology: Characteristics of a Cancer Cell – Altered Cell Cycle in Cancer Cell- Genetic Basis: Protooncogenes, Oncogenes, Tumour Suppressor Genes

**Unit 4 (14 Hours)**

- 4.1 Nucleic Acids : Types, Molecular Structure and Functions
- 4.2 DNA Replication: Theta model in prokaryotes (in detail), Rolling Circle Model - Replication in Eukaryotes
- 4.3 DNA Repair mechanisms – Mismatch Repair, Photoreactivation, Nucleotide Excision Repair, Base Excision Repair, SOS Repair, Non-Homologous End Joining (NHEJ)

**Unit 5 (12 Hours)**

- 5.1 Organization of Prokaryotic and Eukaryotic Genes
- 5.2 Regulation of Gene Expression in Bacteria – *Lac* Operon Model
- 5.3 Transcription: Biosynthesis of RNA – Transcription Factors – Post Transcriptional Modifications
- 5.4 Mechanism of Translation: Genetic Code - Post Translational Modifications in Collagen and Insulin – RNA interference

**BOOKS FOR STUDY**

Gupta, P.K. (2018). *Cell and Molecular Biology*. Rastogi Publications, 2018  
Rastogi, V B.(2015). *Introductory Cytology*. Meerut: Kedarnath Ramnath,2015.

**BOOKS FOR REFERENCE**

Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K. & Walter. P. (2014). *Molecular Biology of the Cell*. (6<sup>th</sup> ed.). New York: Garland.  
Cooper, G.M. and Hausman. R. E. (2004). *Cell – A Molecular Approach*.U.K: Sinauer Associates.  
Karp, G., Iwasa, J. & Marshall. W. (2018). *Karp's Cell Biology*. USA: John Wiley.  
Karp, G. (2010). *Cell and Molecular Biology: Concepts and Experiments*. New Jersey: John Wiley.  
Lodish, H., Berk, A. , Kaiser, C. A., Krieger, M. & Bretscher, A. (2016). *Molecular Cell Biology*. New York: W.H. Freeman.  
Watson, J.D., Baker, T. A., Bell, S. P., Gann, A., Levin, M. and Losick, R. (2007). *Molecular Biology of the Gene*. California: The Benjamin Cummings.  
Wolfe, S. I. (1995). *An Introduction to Cell and Molecular Biology*. California: Wadsworth.

**JOURNALS**

Journal of Cell and Molecular Biology  
Journal of Molecular Cell Biology

**WEB RESOURCES**

[www.cellbio.com](http://www.cellbio.com)  
<http://www.ibiblio.org/virtualcell/index.htm>



## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:            Total Marks: 50**

**Duration: 90 minutes**

Section A – 6 x 2 = 12 (All questions to be answered)

Section B – 3 x 6 = 18 (3 out of 5 to be answered)

Section C – 1 x 20 = 20 (1 out of 2 to be answered)

**Other Components:                            Total Marks: 50**

Quiz/Assignments/Molecular Role Play/Models / Posters

**End-Semester Examination:            Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**FUNDAMENTALS OF BIOTECHNOLOGY**

**CODE:19ZL/MC/FB54**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the basic concepts of Biotechnology
- To help students to comprehend the principles, tools and applications of Biotechnology
- To familiarise students with the ethical issues relating to techniques in Biotechnology

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the basic concepts of biotechnology
- Describe the various steps/processes involved in biological techniques
- Discuss various applications of Biotechnology
- Critique the societal and ethical issues relating to Biotechnology
- Analyse the significance of Human Genome Project

**Unit 1 (12 Hours)**

- 1.1 Definition and Areas of Biotechnology
- 1.2 Tools of Genetic Engineering: Enzymes, Recombinant DNA Technology, Passenger DNA, Cloning Vectors - cDNA Library - Gene Bank
- 1.3 Electrophoresis, Northern, Southern and Western Blots - PCR Technique

**Unit 2 (14 Hours)**

- 2.1 Cloning in Prokaryotes and Eukaryotes
- 2.2 Methods of Transfer of Foreign DNA into Cells: Electroporation, Particle Bombardment Gun, Ultrasonication, Liposome-Mediated Transfer and Microinjection
- 2.3 Site - Directed Mutagenesis

**Unit 3 (12 Hours)**

- 3.1 Gene Cloning in Medicine: Insulin and Somatotropin
- 3.2 Diagnosis and Treatment: DNA Probe, ELISA Technique, Hybridoma Technology, Vaccines, DNA Finger Printing and Gene Therapy
- 3.3 Genetically Modified Organisms (Microorganisms, Plants and Animals)
- 3.4 Benefits and Hazards of Genetic Engineering

**Unit 4 (13 Hours)**

- 4.1 Animal Cell and Tissue Culture Techniques – Culture Media – Natural and Artificial – Primary and Secondary Cell Lines – Culture Methods – Merits and Demerits
- 4.2 Stem Cell Culture: Applications and Ethical Issues
- 4.3 Biotechnology & Intellectual property: Intellectual property rights (IPR) & Intellectual Property protection (IPP)-patenting of biological materials

**Unit 5 (14 Hours)**

- 5.1 DNA sequencing- Sanger method & applications
- 5.2 Human Genome Project & its significance
- 5.3 Basic Concept of Bioinformatics: Proteomics and Genomics
- 5.4 Enzyme Technology: Production, Immobilisation and Application

**BOOK FOR STUDY**

Dubey, R.C. (2014). *A Text Book of Biotechnology*. New Delhi: S.Chand

**BOOKS FOR REFERENCE**

Pranav Kumar and Usha Mina *Biotechnology* (2017). - *A problem approach* (5<sup>th</sup> ed.). Gurugram: Pathfinder Publication

Singh, B.D. (2015). *Biotechnology : Expanding Horizons*. Chennai: Kalyani Publishers

Ashim, K. Chakravarty, (2013). *Introduction to Biotechnology*, U.K: Oxford Press

Godbey, W.T (2014). *An introduction to Biotechnology*, Netherlands: Academic Press

Thieman, (2014). *Introduction to Biotechnology*, (3<sup>rd</sup> ed.). U.K :Pearson Publications

McGiffen, Steven P. (2005). *Biotechnology*. USA: Pluto Press

Mahesh, S. (2006). *Biotechnology IV*. India: New Age International

Nicholl, Desmond, S.T. (2002). *An Introduction to Genetic Engineering*. UK: Cambridge University Press

Sathyanarayana, U. (2013). *Biotechnology*. New Delhi: Books and Allied Private Limited

**JOURNAL**

Journal of Biotechnology  
The Scitech Journal  
Indian Journal of Biotechnology

**WEB RESOURCES**

<http://www.ncbi.nlm.nih.gov/>  
<http://www.hhmi.org/biointeractive>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminars/Quiz/Assignments/Scrap book

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

**(Effective from the academic year 2019-2020)**

**GENETICS**

**CODE:19ZL/MC/GN54**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the concepts and rules of genetic inheritance
- To help students to have a comprehensive and detailed understanding of the mechanisms of genetic inheritance
- To enable students to apply the acquired knowledge to analyse and solve problems

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify the different patterns of genetic inheritance
- Describe and discuss the mechanisms of genetic inheritance
- Recognise, interpret and analyse real time data relating to genetic inheritance
- Distinguish between different types of mutations and genetic disorders
- Construct pedigree charts and calculate allelic frequencies

**Unit 1 (11 Hours)**

- 1.1 Introduction: Mendel and his Experiments - Law of Dominance, Law of Segregation and Law of Independent Assortment - Back Cross / Test Cross
- 1.2 Interaction of Genes : Incomplete Dominance – Co dominance - Lethal Genes - Epistasis – (Dominant and Recessive) - Penetrance and Expressivity
- 1.3 Extra Chromosomal Inheritance : Criteria for Extra Chromosomal Inheritance - Cytoplasmic Inheritance (Plastid Inheritance in *Mirabilis jalapa*) - Maternal Influence (Shell Coiling in *Limnaea*) – Mitochondrial Inheritance (Kearns - Sayre Syndrome)

**Unit 2 (10 Hours)**

- 2.1 Multiple Genic Inheritance: Characteristics – Eg. Skin Colour in Humans - Transgressive Variation (Weight in Chicken)
- 2.2 Multiple Allelic inheritance: Characteristics – Eg. Human Blood Groups (A, B, AB, O) - Rh Factor: Inheritance and Significance
- 2.3 Linkage and Crossing Over: Complete and Incomplete Linkage in *Drosophila* - Cytological Proof of Crossing Over, Eg. *Drosophila* – Linkage Mapping

**Unit 3 (9 Hours)**

- 3.1 Sex Determination: Chromosomal Mechanisms of Sex Determination - Sex Determination in *Drosophila* - Sex Determination in Humans - Barr Body - Male Haploidy - Environmental Factors Affecting Sex Determination
- 3.2 Sex Linkage: *Drosophila*, Eye Colour – Humans, Haemophilia - Incomplete Sex Linkage - Y- Linked Genes - Sex Influenced and Sex Limited Genes in Humans

**Unit 4 (11 Hours)**

- 4.1 Mutations: Different Types - Point Mutations, Molecular Basis - Mutagens
- 4.2 Chromosomal Aberrations - Numerical Variations
- 4.3 Inborn Errors of Metabolism - Genetic Counselling

**Unit 5 (11 Hours)**

- 5.1 Population Genetics: Gene Pool and Gene Frequency, Hardy - Weinberg Law and Factors Influencing Allele Frequency
- 5.2 Genetic Regulation of Development in *Drosophila*: Developmental Stages – Three Major Classes of Developmental Genes (Maternal Effect Genes, Segmentation Genes and Homeotic Genes)
- 5.3 Epigenetics: Definition – Mechanisms – Epigenetics and cancer, imprinting, nutrition and ageing.
- 5.4 Conservation Genetics:- *Ex Situ* Conservation : Captive Breeding and Gene Banks- *In Situ* Conservation : Population Augmentation

**BOOKS FOR STUDY**

Verma, P.S. & Agarwal. V. K. (2013). *Genetics*. 9<sup>th</sup> (ed.). New Delhi: S. Chand

**BOOKS FOR REFERENCE**

Cummings, M. R. (2012). *Human Heredity – Principles and issues*. (10<sup>th</sup> ed.). Canada: Thomson Brooks/Cole.

Hartl, D. L. (2013). *Essential Genetics & Genomics*. (7<sup>th</sup> ed.). USA: Jones & Bartlett Learning.

Klug, W. S., Cummings, M. and Spencer, C. (2018). *Concepts of Genetics*. (12<sup>th</sup> ed.). New Jersey: Pearson Education

Pierce, B. A. (2016). *Genetics – A conceptual approach*. (6<sup>th</sup> ed.). New York: W. H. Freeman.

Russel, P. J. I. (2011). *Genetics – A molecular approach*. San Francisco: Benjamin Cummings.

Snustad, P. D. and Simmons, M. J. (2012). *Principles of Genetics*. (6<sup>th</sup> ed.). New York: John Wiley.

**JOURNALS**

Journal of Genetics and Genomics

Journal of Human Genetics

**WEB RESOURCES**

[www.ncbs.res.in](http://www.ncbs.res.in)

[www.omim.org](http://www.omim.org)

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components:                                      Total Marks: 50**

Quiz/Problem solving/Group projects/Pedigree construction and analysis/Data collection and interpretation/Assignment

**End-Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**CELL AND MOLECULAR BIOLOGY, GENETICS AND BIOTECHNOLOGY  
PRACTICAL**

**CODE:19ZL/MC/P553**

**CREDITS:3**

**L T P:0 0 6**

**TOTAL TEACHING HOURS:78**

**CELL AND MOLECULAR BIOLOGY**

Camera lucida  
Micrometry  
RBC Count  
WBC Count  
Mitosis - in onion root tip  
Meiosis - in grasshopper testis  
*Chironomus* - Salivary gland chromosome - squash preparation  
Total RNA extraction  
Genomic DNA extraction – Group practical

**GENETICS**

*Drosophila* culture techniques  
*Drosophila* mutants  
Squamous epithelium squash preparation – Barr body  
ABO Blood Grouping and Rh typing  
Pedigree Analysis of some human inherited traits  
Study of any five Mendelian Traits  
Observation of normal male and female, Turner's, Klinefelter's and Down's syndrome karyotypes  
Hardy -Weinberg Equilibrium – Calculating Gene Frequency and Genotypic Frequency using bead experiments-calculation of Allelic frequency

**BIOTECHNOLOGY**

Agarose Gel Electrophoresis – Group practical  
Isolation of Plasmid DNA – Demonstration and Group practical  
SDS-PAGE - Demonstration  
Polymerase Chain Reaction – Demonstration

**Visit to a Molecular Biology/Biotechnology Laboratory**

**RECORD WORK**

Maintenance of a record of practical work done is essential for continuous assessment and is an integral part of the syllabus.

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 3 hours**

Question – I	Major Question
Question – II	Minor Question
Question – III	Spotters (Six)

20 marks  
15 marks  
15 marks

### **End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Question – I	Major Question
Question – II	Minor Question
Question – III	Spotters (Six)

20 marks  
15 marks  
15 marks



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**Interdisciplinary Core Course Offered by the Departments of Zoology and Sociology  
to B.Sc. Advanced Zoology and Biotechnology and B.A. Sociology Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019 – 2020)

**SOCIOETHNOZOOLOGY**

**CODE: 19ID/IC/SZ55**

**CREDIT: 5**

**L T P: 5 1 0**

**TOTAL TEACHING HOURS: 78**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the sociology of human – animal relationships
- To familiarize students with various aspects of ethnozoology
- To help students to comprehend social evolution, organization and communication in humans and animals

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students will be able to

- Synthesize the wide ranging relationships between humans and animals
- Discuss the importance of animals as food and in medicine and also other useful animal products
- Explain the social evolution and organization in humans and animals
- Discuss the different modes of communication and their functions in humans and animals

**Unit 1**

**Introduction**

**(15 Hours)**

- 1.1 Meaning of ethnobiology and ethnozoology- Basic definitions- Qualities of Sociality- Animals as zooindicators of weather and climate
- 1.2 Role of animals in human culture: Biological predisposition and individual differences in human attitudes towards animals - Animal Mythology in the Indian context
- 1.3 Meaning of Ethnology; Sociology; Sociobiology
- 1.4 Interdisciplinary Approach in understanding Human-Animal Relationship

**Unit 2**

**Sociology of Human and Animal Relationship**

**(16 Hours)**

- 2.1 Significance of Sociology of Human-Animal Relationship
- 2.2 Scope of Sociology of Human-Animal Relationship
- 2.3 Sociological Perspective on Human Animal Relationship: Symbolic Interactionism Theory and Conflict Theory
- 2.4 Social Relationships and Social Organizations.

**Unit 3**  
**Ethnozoology** (16 Hours)

- 3.1 Historical and Sociological significance of animal domestication
- 3.2 Animals as food: Arthropods – Molluscs – Echinoderms - Vertebrates
- 3.3 Animals in medicine : Traditional and Contemporary
- 3.4 Historical, Economical and Sociological importance of animals and their products
- 3.5 Animals as zooinicators of weather and climate

**Unit 4**  
**Social Evolution** (16 Hours)

- 4.1 Meaning of Social Evolution; Cooperation; coordination and division of labour
- 4.2 Social Groups: Altruism and kin selection: Dominance and Hierarchy
- 4.3 Social System and Fitness - The evolution of social organization
- 4.4 Aggregates and Socialization - Coloniality: Adaptive basis of coloniality – Adaptive significance of roles – Optimization of Caste Systems - Social insects: Organization of insect societies, Social Wasps, Ants, Bees and Termites – Primates: Social traits, Ecology of Social Behaviour, Social Behaviour in Chimpanzee – Other Social species : Colonial invertebrates – cold blooded vertebrates – Birds
- 4.5 The Theory of Parental Investment - Ecology of Parental Care – Parent-Offspring conflict – Alloparental care

**Unit 5**  
**Verbal and Nonverbal Communication** (16 Hours)

- 5.1 Origin of human language – Forms of communication
- 5.2 Verbal and non-verbal communication and its functions
- 5.3 Non-verbal communication in animals : Discrete versus graded signals - Signal specificity-Signal economy
- 5.4 Modes of communication in animals with examples – functions, advantages and disadvantages

**BOOKS FOR REFERENCE**

Adrian Franklin, (1999) *Animals and Modern cultures-A Sociology of Human Animal Relations in Modernity*. London: Sage Publications,

Anderson,E.N and Deborah Pearsall, (2011) *Ethnobiology*, Wiley Blackwell

Kay Peggs (2012). *Animals and Sociology*. U.K: Palgrave Macmillan.

Romulo Romer, Nobrega Alves and Paulino Albuquerque, (2017) *Ethnozoology: Animals in our lives*. Academic Press

Wilson, E.O. (2000) *Sociobiology : The New synthesis* (25<sup>th</sup> anniversary ed.). Cambridge: Harvard University Press

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:**                      **Total Marks: 50**                      **Duration: 90 minutes**

Part One – 25 marks (Sociology)

Part Two -25 marks (Zoology)

Section A- Objective Quiz - 6 Marks (All questions to be answered)

Section B – 3 x 3 = 9 marks (3 out of 5 questions to be answered in 100 words each)

Section C – 1 x 10 = 10 marks (1 out of 2 questions to be answered in 500 words each)

**Other Components:**                      **Total marks : 50**

Seminar/Quiz/Assignments/Role Play/Mini projects/Scrapbook

**End Semester Examination**                      **Total Marks: 100**                      **Duration: 3 hours**

Part One – 50 marks (Sociology)

Part Two -50 marks (Zoology)

Section A – Objective Quiz - 12 marks (All questions to be answered)

Section B – 6 x 3 = 18 marks (6 out of 10 questions to be answered in 100 words each)

Section C – 2 x 10 = 20 marks (2 out of 4 questions to be answered in 1200 words each)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ANIMAL BEHAVIOUR**

**CODE:19ZL/MC/AB64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the concepts and various behavioural patterns exhibited by animals.
- To help students to learn the scientific methods of observing animal behaviour.
- To enable students to apply ethological concepts in observing and recording patterns of behaviour.
- To sensitise students to the welfare of animals through behavioural observations.

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Explain the concepts that form the base for animal behaviour studies.
- Describe the various behavioural patterns exhibited by animals
- Construct ethograms and data sheets based on observations and analyse behaviour based on collected data.
- Distinguish between normal and abnormal behaviour in animals.
- Contribute to animal conservation strategies.
- Assess welfare of pet, domestic and zoo animals based on behavioural observation.

**Unit 1 (13 Hours)**

- 1.1 Introduction: Behaviour - Causes and Significance - Ethology – History
- 1.2 Concepts and Terminology: Motivation - Fixed Action Pattern (FAP) - Sign Stimulus - Innate Releasing Mechanism (IRM) - Action Specific Energy (ASE) - Concept of Behavioural Genetics - Evolution of Behaviour
- 1.3 Methods of Studying Behaviour: Studies in Laboratories and in the Wild: Identification and Location of Individuals, Observation, Description, Recording and Cataloguing, Constructing Ethogram, Interpreting and Presenting Data

**Unit 2 (14 Hours)**

- 2.1 Basic and Maintenance Behaviour: Maintenance and Related Behaviour - Foraging and Caching - Shelter Seeking, Nests and other constructions
- 2.2 Finding a Place to Live: Habitat Selection and Territory – Homing – Chronobiology, Rhythms- Sleep
- 2.3 Play: General Attributes of Play, Examples / Descriptions of Play Behaviour, Theories

**Unit 3 (14 Hours)**

- 3.1 Animal Communication - Modes and Mechanisms: Chemical, Auditory, Visual, Tactile and Electrical
- 3.2 Animal Learning - Different forms of Animal Learning
- 3.3 Behaviour and Reproduction: Breeding Patterns, Courtship
- 3.4 Interspecific Behaviour: Aggregations, Commensalism, Mutualism, Parasitism and Predation

**Unit 4 (12 Hours)**

- 4.1 Psychoactive Drugs and Human Behaviour
- 4.2 Pre-Menstrual Syndrome and Peri-Menopausal Behaviour
- 4.3 Abnormal Behaviour in Humans – Neurotic Disorder (Anxiety Disorder): Phobic and Obsessive-Compulsive Disorder – Psychotic Disorder: Schizophrenia, Depression, Suicidal tendencies and Bipolar Disorder

**Unit 5 (12 Hours)**

- 5.1 Science, Ethics and Law in Human Welfare
- 5.2 Welfare Assessment in Animals – Five Freedoms – Concept of Needs
- 5.3 Recognition of Normal Behaviour in Animals – Abnormal Behaviour in Pet, Domestic and Zoo Animals – Possible causes for Abnormal Behaviour – Prevention of abnormal behaviour – Behavioural Enrichment – Animal Protection Laws

**BOOKS FOR STUDY**

Mathur, R. (2016). *Animal Behaviour*. Meerut: Rastogi.  
Shukla, J.P. (2009). *Fundamentals of Animal Behaviour*. Chennai: Atlantic Publishers and Distributors (P) Ltd.

**BOOKS FOR REFERENCE**

Alcock, J. (2013) *Animal Behaviour - An Evolutionary Approach*. Massachusetts: Sinauer Associates.  
Grier, J. W. (1992). *Biology of Animal Behaviour*. Iowa: William C Brown Publication.  
Kalat, J. W. (2017). *Introduction to Psychology*. Boston: Cengage Learning.  
Manning, A. & Dawkins, M. S. (2012). *An Introduction to Animal Behaviour*. U.K: Cambridge University.  
Raven, P. H., Johnson, G. B., Mason, K., Losos, J. & Singer. S. (2017). *Biology*. USA: McGraw Hill Education.  
Scott, G. (2005). *Essential Animal Behaviour*. USA: Blackwell.  
Slater, P.J.B. (1989). *An Introduction to Ethology*. U.K : Cambridge University Press.  
Sridhara S. (2009). *Recent trends in Animal Behaviour*. New Delhi: NIPA Books.

**JOURNALS**

The British Journal of Animal Behaviour  
Journal of Ethology

**WEB RESOURCES**

[www.animalbehaviorsociety.org](http://www.animalbehaviorsociety.org)  
<http://www.sanctuaryasia.com>

**PATTERN OF ASSESSMENT****Continuous Assessment Test:           Total Marks: 50****Duration: 90 minutes**

Section A – 6 x 2 = 12 (All questions to be answered)

Section B – 3 x 6 = 18 (3 out of 5 to be answered)

Section C – 1 x 20 = 20 (1 out of 2 to be answered)

**Other Component:                           Total Marks: 50**

Quiz /Project/Poster/Presentation

**End-Semester Examination:           Total Marks: 50****Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ECOLOGY**

**CODE:19ZL/MC/EC64**

**CREDITS:4**

**L T P:4 1 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to comprehend the biotic and abiotic factors governing the ecosystem
- To help students acquire knowledge on the interrelationship of biological and physical systems
- To familiarize students with basic principles of biostatistics and their applications

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss the key ecological interactions and processes, the distribution and abundance of organisms
- Describe the structure and functions of ecosystems
- Explain the physico-chemical characteristics of freshwater, marine and estuarine ecosystems
- Discuss the policies and laws pertaining to conservation ecology and biodiversity conservation
- Apply statistical principles to interpret biological data.

**Unit 1 (12 Hours)**

- 1.1 Introduction to Ecology- Soil formation-texture-profile-classifications-properties.
- 1.2 Abiotic factors: Temperature- Thermal stratification, Range of temperature tolerance. Light- composition, light on land and water. Biological effects of light on aquatic and terrestrial organisms and role of pH.
- 1.3 Limiting factors: Liebig's law of minimum – Shelford's law of tolerance. Biogeochemical cycle – Gaseous cycle: Oxygen, Carbon, Sedimentary cycle - Phosphorus
- 1.4 Attributes of population: Density, Natality, Mortality and Age distribution.

**Unit 2 (14 Hours)**

- 2.1 Habitat ecology: Terrestrial habitat: Biomes, tundra, grassland, forest (coniferous, tropical, temperate and deciduous) – Ecotones (Shola forest)
- 2.2 Deserts: Fauna, adaptations of animals inhabiting deserts and caves
- 2.3 Ecosystem: Productivity – Carbon sequestration – Biomass
- 2.4 Exobiology : Space ecology – Microbiota – Extra terrestrial life – Cosmic life

**Unit 3 (13 Hours)**

- 3.1 Fresh water ecology: Physico-chemical nature of freshwater-biotic communities – Lotic habitats ( rivers), Lentic habitats( Lakes-Pulicat Lake and Ponds)
- 3.2 Marine Ecology : Physico-chemical characteristics-biotic communities of pelagic and benthic zone
- 3.3 Estuarine systems: Physico – chemical characteristics – biotic communities

**Unit 4 (14 Hours)**

- 4.1 Ecosystems – Definition – Classification – Functions - Processes – Water cycle. Biodiversity: Definition - Magnitude – Laws related to biodiversity
- 4.2 Biodiversity of India - Magnitude – Distribution – Conservation: Biosphere Reserves – National Parks – Wildlife Sanctuaries

**Unit 5 (12 Hours)**

- 5.1 Analysis of ecological data using Biostatistics – Collection of Data – Census and sampling methods. Variable : Discrete and continuous
- 5.2 Presentation of data : Classification and tabulation – Diagrams and graphs : Bar, Pie, Histogram, Line graph – Concept of statistical population and sample characteristics of frequency distribution.
- 5.3 Measures of Central tendency: Mean, Median, Mode and Weighted Arithmetic Mean. Measures of Dispersion: Range, Quartile deviation, Mean deviation and Standard deviation, Correlation and Regression

**BOOKS FOR STUDY**

Kormondy, Edward J. (2017). *Concepts of Ecology*, (4<sup>th</sup> ed.). New Jersey: Pearson Education  
Sharma, P.D. (2017). *Ecology and Environment*, (13<sup>th</sup> ed.). Meerut: Rastogi Publication

**BOOKS FOR REFERENCE**

Bernard Rosner, (2010). *Fundamentals of Biostatistics*, (7<sup>th</sup> ed.). Boston: Cengage Learning  
Eugene Odum, Murray Barrick, and Gary W. Barrett, (2005). *Fundamentals of Ecology*, (5<sup>th</sup> ed.). Boston: Cengage Learning  
Michael Cain *et al.* (2011). *Ecology*, (2<sup>nd</sup> ed.). U.S.A: Sinauer Associates Inc, Sunderland, Massachussets  
Michael. L. McKinney *et al.* (2006). *Environmental Science*, (5<sup>th</sup> ed.).USA: Jones and Bartlett Learning  
Neeraj Nachiketa, (2018). *Environment and Ecology – A dynamic approach*, (1<sup>st</sup> ed.). Noida: GKP Publication  
Ranjith, Daniels and Jagadish, Krishnamurthy, (2009). *Environmental studies*, New Jersey: Wiley Publication  
Robert Leo Smith and Thomas M. Smith, (2015). *Elements of Ecology*, (9<sup>th</sup> ed.).New Jersey: Pearson Education  
Timothy Morton, (2018). *Being Ecological*, Penguin UK  
Veer Bala Rastogi and Jayaraj, M.S. (1998). *Animal Ecology and distribution of animals*, (8<sup>th</sup> ed.). Meerut : Kedar Nath Ram Nath

**JOURNALS**

International Journal for Ecology and Development  
Journal of Global Ecology and Conservation



## **WEBSITES**

[www.ecology.com](http://www.ecology.com)

<http://www.nhptv.org/natureworks/nw4.htm>

[www.deepspaceecology.com](http://www.deepspaceecology.com)

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Assignments/Presentation/Exhibition/Scrapbook/Project

### **End-Semester Examination:**

**Total Marks: 50**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**IMMUNOLOGY**

**CODE:19ZL/MC/IM64**

**CREDITS:4**

**L T P:4 0 0**

**TOTAL TEACHING HOURS:52**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the basic concepts and organisation of the immune system
- To help students to acquire knowledge on various immune responses and reactions
- To enable students to comprehend the causes of various immune disorders and preventive measures for infectious diseases

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Describe the structure and functions of different types of cells and organs of the immune system
- Explain the different types of antigen-antibody interactions and their applications
- Describe the mechanisms of hypersensitivity reactions
- Differentiate various immunological responses and the ways in which they are triggered and regulated
- Recognise the types and mechanisms of vaccines
- Connect the infectious diseases with their respective preventive measures

**Unit 1 (12 Hours)**

- 1.1 Introduction - History and Basics of Immunology
- 1.2 Cells and Molecules of the Immune System: Types, Source and Salient Functions
- 1.3 Primary and Secondary Lymphoid Tissues / Organs
- 1.4 Types of Immunity: Natural and Acquired Immunity - Cellular and Humoral Immunity - Active and Passive Immunity with Examples

**Unit 2 (10 Hours)**

- 2.1 Antigens: Definition, Classification, Properties of Immunogens
- 2.2 Antibody: Primary Structure, Classification and Functions
- 2.3 Antigen - Antibody Reaction: Types - Applications

**Unit 3 (10 Hours)**

- 3.1 Complement System: Three major pathways - functions
- 3.2 Hypersensitivity Reactions: Types and Immune Reactivity
- 3.3 Transplantation: Types of Transplant/Graft, Causes For Graft Rejection - Immuno-Suppression

**Unit 4 (11 Hours)**

- 4.1 Cytokines: Definition, Properties, Classification and functions
- 4.2 Cytokine receptors - Signal Transduction through Cytokine receptors – therapeutic uses of Cytokines
- 4.3 Immune Reactions in Viral, Bacterial and Parasitic Infections

**Unit 5 (9 Hours)**

- 5.1 Autoimmune Disorders: Systemic Lupus Erythematosus and Rheumatoid Arthritis
- 5.2 Vaccines: Principles and Types
- 5.3 Common Infectious Diseases and Vaccines – Immunisation schedule

**BOOKS FOR STUDY**

Rao, V. C. (2016). *Immunology*. Alpha science International Limited.  
Paul. A. (2016). *Textbook of Immunology*. Kolkata: Books & Ailed ( P) Ltd.

**BOOKS FOR REFERENCE**

Coico, R., Sunshine, G. & Benjamini, E. (2013). *Immunology*. New Jersey: John Wiley & Sons.  
Delves, P. J., Seamus, J. M., Burton, D. R. & Roitt, I. M. (2017). *Roitts' Essential Immunology*. (13<sup>th</sup> ed.). UK: Wiley BlackWell.  
Fatima, D. and Arumugam, N. (2013). *Immunology*. Chennai: Saras.  
Gangal, S. and Sontakke, S. (2013). *Textbook of Basic and Clinical Immunology*. Orient Blackswan.  
Khan, F. H. (2009). *The Elements of Immunology*. USA: Pearson Education.  
Murphy, K. & Weaver, C. (2017). *Janeways' Immunobiology*. (9<sup>th</sup> ed.). New York: Garland Science.  
Owen, J. A., Punt, J. & Stranford, S. A. (2013). *Kuby Immunology*. (7<sup>th</sup> ed.). New York: W.H. Freeman & Company  
Wise, D.J and Carter, G. R. (2012). *Immunology – A Comprehensive Review*. New Jersey: Blackwell Science.

**JOURNALS**

The Journal of Immunology  
Journal of Clinical & Cellular Immunology

**WEB RESOURCES**

[www.immunologylink.com](http://www.immunologylink.com)  
<http://www.proimmune.com>

**PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 50**

Seminars/Quiz/Assignments based on research articles/Poster making

**End-Semester Examination: Total Marks: 100 Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ANIMAL BEHAVIOUR, ECOLOGY AND IMMUNOLOGY PRACTICAL**

**CODE:19ZL/MC/P663**

**CREDITS:3**

**L T P:0 0 6**

**TOTAL HOURS:78**

**ANIMAL BEHAVIOUR**

Animal Associations – Mutualism, Commensalism, Parasitism, Predation (Two examples for each type)  
Identification of Bird Nests  
Methods of Studying Animal Behaviour – Workshop  
Observation of animal behaviour - making ethogram and data sheets  
Study of Circadian patterns in humans (daily eating, sleep and temperature patterns)

**ECOLOGY**

Estimation of the following parameters in different water samples:  
Dissolved Oxygen  
pH  
Salinity  
Calcium  
Total alkalinity - Free  $\text{CO}_2$ ,  $\text{CO}_3$  and  $\text{HCO}_3$   
Qualitative Field tests for Soil Nitrates and Carbonates.  
Spotters - Rocky Shore and Sandy Shore Fauna  
Observation and Identification of Marine Plankton

**IMMUNOLOGY**

VDRL Slide Flocculation Test for Syphilis  
ELISA – Qualitative Test for Pregnancy  
Radial Immunodiffusion Test (Demonstration)  
Ouchterlony Double Immunodiffusion Test (Demonstration)  
Observation of Plates – Immune Cells  
**Demonstration** – Anatomical Location of Various Immune Tissues and Organs in Fish

**RECORD WORK**

Maintenance of a record of practical work done is essential for continuous Assessment.

**PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Question – I	20 marks	
Question – II	15 marks	
Question – III Spotters (Five)	15 marks	
<b>End-Semester Examination:</b>	<b>Total Marks: 50</b>	<b>Duration: 3 hours</b>
Question – I	20 marks	
Question – II	15 marks	
Question – III Spotters (Five)	15 marks	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**

**DEPARTMENT OF VALUE EDUCATION**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**LIFE SKILLS : AN APPROACH TO A HOLISTIC WAY OF LIFE**

**CODE:19VE/SS/HL63**

**CREDITS:3**

**L T P:3 0 0**

**TOTAL TEACHING HOURS:39**

**OBJECTIVES OF THE COURSE**

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

**Unit 1**

**Spiritual Self (10 Hours)**

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:  
Discovering the Divine in self, creation, and others – St. Francis of Assisi-  
Canticle of creatures Seeking the Divine through meditation, prayer and  
worship

**Unit 2**

**Relational Self: Women in the family (17 Hours)**

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

### **Unit 3**

#### **Integrated Self**

**(12 Hours)**

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

**Retreat/Workshop – Required for course completion.**

#### **BOOKS FOR REFERENCE**

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

#### **Teaching / Learning Methods**

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

#### **PATTERN OF ASSESSMENT:**

**Marks: 50**

Task based/Seminars/Poster Making/Scrap book/Assignment

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**APPLIED ZOOLOGY**

**CODE:19ZL/ME/AZ45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the economic value of animals and learn their rearing techniques
- To help students acquire knowledge about different types of aquaculture and methods of aquafarming
- To familiarise students with the different types of pests and their management
- To enable students to take up entrepreneurship

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the economic importance of beneficial and harmful animals
- Discuss the types and scope of Aquaculture
- Identify common insect pests and describe their bionomics and control
- Summarise the methods used in animal husbandry
- Set up small scale industries

**Unit 1 (14 Hours)**

- 1.1. Types of Aquaculture: Mono, Poly, Extensive, Semi-Intensive, Intensive, Super Intensive, Monosex, Sewage-fed culture and Integrated Fish Farming (Paddy-cum-fish culture)
- 1.2 Culture of Prawn, Lobster, Edible Oyster and Live Feed Animals (*Artemia sp.*, *Daphnia sp.*, and Rotifers )
- 1.3 Preservation and Processing of Fish and Prawn: Chilling, Freezing, Freeze-Drying, Smoking, Salting and Canning – By products of Fishing Industry
- 1.4 Aquarium setting and maintenance: ornamental fishes, safety measures and devices - prospects of Ornamental fisheries - export potential

**Unit 2 (13 Hours)**

- 2.1 Sericulture Industry in India - Central Silk Board - Silk Research Institutes in India
- 2.2 Insect Pests: Salient Features, Nature of Destruction and Control Measures of the following pests: Pests of Paddy, Cotton, Sugar Cane and Stored Food Grains (Any Three Major Pests of each Crop/Stored Food Grains)
- 2.3 Identification, damage and control of any three Common Pests of Fruits and Vegetables
- 2.4 Integrated Pest Management

**Unit 3 (13 Hours)**

- 3.1 Economically Important Soil Animals: Soil Microarthropods, Millipedes, Centipedes, Snails and Slugs – Their Importance in Soil Ecosystem
- 3.2 Termites: Characteristics of Mound Soils – Decomposition of Organic Matter – Termitophiles – Termite Damage to Crops and Buildings – Control Measures
- 3.3 Soil Microarthropods: Sampling Methods and Identification of any five soil microarthropods extracted using Berlese Funnel

**Unit 4 (14 Hours)**

- 4.1 Medicinal Significance of Sponges, Corals, Scorpion venom, Bee venom, Shells and Snake venom
- 4.2 Poultry Science: Quail Farming - Different Breeds - Selective Breeding, Housing and Rearing - Role of Nutrition in Egg Laying - Common Diseases - Economic Importance
- 5.1 Economic Importance of Mammals: Indirect and Direct Value of Mammals - Rabbit farming, Piggery and Dairy.

**Unit 5 (11 Hours)**

- 5.1 Role of women in small scale industries
- 5.2 Government and Research organisations: CIBA, ZSI, CMFRI, IARI, ICAR, CRRI, FAO, MSSRF, IIBAT and FSI
- 5.3 Entrepreneurial Skills: Marketing and Financial Support - Branding - Promotion

**BOOKS FOR STUDY**

Ahsan, J. & Sinha, S.P. (2009). *Handbook of Economic Zoology*. New Delhi: S. Chand.  
Shukla, G.S. & Upadhyay, V. B. (2017). *Economic Zoology*. Meerut: Rastogi.

**BOOKS FOR REFERENCE**

Ayyar, T.V. R. (2014). *Handbook of Economic Entomology*. Madras: Narendra.  
Banerjee, G.C. (2008). *Poultry*. New Delhi: Oxford and IBH.  
Daugherty, L. S. (2012). *Principles of Economic Zoology*. Memphis; General Books.  
David, V. B. (1992). *Pest Management and Pesticides*. Madras: Namrutha Publications.  
Ignacimuthu, S. & David, B. V. (2009). *Ecofriendly Insect Pest Management*. Bhopal: Elite.  
Ismail, S.A. (2005). *The Earthworm Book*. Goa: India.  
Jhingran, V.G. (1982). *Fish and Fisheries of India*. New Delhi: Hindustan Publishing Corporation.  
Pandey, K. & Shukla, J. P. (2019). *Fish and Fisheries*. Meerut: Rastogi.  
Pillay, T. V. R. & Kutty, M. N. (2005). *Aquaculture Principles and Practices*. Wiley India.  
Singh, R. (2018). *Elements of Entomology*. Meerut: Rastogi.  
Smith, D. J. (2016). *Aquarium Keeping*. New York City: Amazon Digital Services.  
Vasanthraj, B. & Ananthakrishnan, T.N. (2004). *General and Applied Entomology*. Bombay: Tata McGraw Hill.

**JOURNALS**

The Journal of Basic and Applied Zoology  
Zootechnia Tropical  
Fishery Technology



## **WEB RESOURCES**

<https://www.karnataka.gov.in/sericulture/>

<http://www.epa.gov/>

<http://www.vegetableipmasia.org/index>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components:                                      Total Marks: 100**

Scrap book/Poster/model making/Quiz/Assignment

**End-Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

(Effective from the academic year 2019-2020)

**PROJECT**

**CODE:19ZL/ME/PR45**

**CREDITS:5**

**OBJECTIVES OF THE COURSE**

- To enable students to carry out an independent study on a topic of their choice
- To help students to acquire a spirit of scientific inquiry
- To enable students to learn research methodology and data interpretation

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Identify a scientific problem to carry out a project work
- Review relevant scientific literature
- Design experiments
- Collate, Analyse and Interpret data
- Compile and present their findings

**Criteria for Selection of Candidates**

- The student should have research aptitude
- The student should possess good analytical skills, computer skills, good writing skills and the ability to interpret and discuss scientific data
- An eligibility test will be conducted

**Guidelines**

- Each student will present a list of topics in the area of her interest
- One of the topics will be approved by the Supervisor
- Weekly interaction with the supervisor is mandatory
- The project work will require
  - Practical work
  - Submission of project report
  - Viva-voce
- Project report should be submitted at the end of the semester on the stipulated date.

**Evaluation**

Continuous Assessment – 50 marks

End semester evaluation of project work and viva voce- 50 marks

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**MEDICAL LABORATORY TECHNOLOGY**

(Skill development course)

**CODE:19ZL/ME/LT45**

**CREDITS :5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable students to learn the foundations of clinical theory and practice
- To enable students to develop specific skills in Laboratory Techniques
- To help students to understand the importance of good lab practices and biomedical waste management.

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Discuss the need for Good Lab Practices
- Explain the procedure involved in various laboratory techniques
- Identify the various parameters checked in a lab and interpret the results obtained.
- Develop skills in performing clinical tests
- Describe procedures in Biomedical Waste Management

**Unit 1**

**(11 Hours)**

- 1.1 Good Lab Practices (GLP)
- 1.2 Sterilisation of Laboratory Items - Preparation of Reagents - Preparation of R.B.C & W.B.C. Fluids, Normal Saline and Leishman's Stain
- 1.3 Venous and Capillary Blood Collection Techniques – Anticoagulants: Modes of Action and Uses
- 1.4 Biomedical Wastes: Classification, Characteristics and Potential Health Hazards, Biomedical Waste Management: Rules and Regulations

**Unit 2**

**(14 Hours)**

- 2.1 Red Blood Corpuscle: Structure (Normal & Abnormal), Erythropoiesis, Total Count, Packed Cell Volume - Wintrobe's and Microhaematocrit Techniques, Total Reticulocyte Count - Erythrocyte Sedimentation Rate: Westergren's Method - Haemoglobin Estimation: Sahli's, Drabkin's Methods (Practicals) - Types of Anaemia – Polycythemia
- 2.2 White Blood Corpuscle: Types, Leucopoiesis, Total W.B.C Count - Preparation of Blood Smear For Differential Count - Leucocytosis – Leukemia - Leucopenia
- 2.3 Blood Platelets – Thrombopoiesis - Platelet Counting

**Unit 3 (13 Hours)**

- 3.1 Immunohaematological Studies – importance - Blood Groups and Rh-Types – methodology of blood grouping and Rh typing
- 3.2 Transfusion of Blood and Blood Components – Tests For Compatibility
- 3.3 Blood Coagulation: Factors - Process and Theory – Bleeding Time - Clotting Time - Prothrombin Time (Practicals)

**Unit 4 (14 Hours)**

- 4.1 Urine: Macroscopic, Microscopic and Chemical Analysis
- 4.2 Examination of Blood Smear for Malarial Parasites and Microfilariae – Motion Analysis for Common Protozoan and Helminthic Intestinal Parasites
- 4.3 Analysis of Cerebrospinal Fluid and Seminal Fluid
- 4.4 Mode of Infection, Pathological Changes and Symptoms of Acquired Immuno Deficiency Syndrome (AIDS), Hepatitis and Tuberculosis (TB)

**Unit 5 (13 Hours)**

- 5.1 Test for Glucose, Urea and Cholesterol – Ranges in Health and Disease and Interpretation (Practical)
- 5.2 Physiology and Biochemistry of the Serum Enzymes – Aspartate Transaminase (AST) and Alanine Transaminase (ALT)
- 5.3 Laboratory Pregnancy Tests – PAP Smear and its significance
- 5.4 Visit to advanced laboratory / internship

**BOOKS FOR STUDY**

Sood, R. (2015). *Concise Book of Medical Laboratory Technology: Methods and Interpretations*. New Delhi: Jaypeedigital.

**BOOKS FOR REFERENCE**

Baker, F.J., Silvertown, R.E. & Pallister, C.J. (2001). *Baker and Silvertown's Introduction to Medical Laboratory Technology*. London: Hodder Arnold.

Bauer, J.D. (1990). *Clinical Laboratory Methods*. New Delhi: B.I.

Estridge, B.H., Reynolds, A.P. & Walters, N.J. (2002). *Basic Medical Laboratory Techniques*. Africa and Australia: Delmar Thomas Learning.

Hall, J. E. (2016). *Guyton and Hall Text Book of Medical Physiology*. UK: Elsevier

McPherson R.A & Pincus, M. R. (2011). *Henry's Clinical Diagnosis and Management by Laboratory Methods*. Philadelphia: W.B. Saunders.

Ramakrishnan, S & Sulochana, K. N. (2012). *Manual of Medical Laboratory Techniques*. New Delhi: Jaypee Brothers Medical.

Raphael, S.S. (1983). *Lynch's Medical Laboratory Technology*. Philadelphia: W.B. Saunders Co.

**JOURNALS**

Journal of Clinical Laboratory Analysis  
American Journal of Medical Technology

**WEB RESOURCES**

[www.csmls.org](http://www.csmls.org)  
<http://www.nlm.nih.gov/medlineplus>

## **PATTERN OF ASSESSMENT**

### **Continuous Assessment Test:**

**Total Marks: 50**

**Duration: 90 minutes**

Section A – 6 x 2 = 12 (All questions to be answered)

Section B – 3 x 6 = 18 (3 out of 5 to be answered)

Section C – 1 x 20 = 20 (1 out of 2 to be answered)

### **Other Components:**

**Total Marks: 50**

Seminars/Quiz/Case studies/Poster presentation

### **End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**ENVIRONMENTAL BIOTECHNOLOGY**

**CODE:19ZL/ME/EB45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To help students to acquire knowledge on the application of principles of biotechnology to environmental problems and issues
- To enable students to comprehend the methodologies involved in bioremediation and water treatment
- To familiarise students with current technologies employed in environmental sustainability

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss the need for environmental monitoring
- Explain the importance of microbial diversity in environmental systems
- Describe existing and emerging technologies that are important in the area of environmental biotechnology
- Relate the principles and techniques underpinning the application of different disciplines to the environment
- Recognise biotechnological solutions which will address environmental issues including pollution, mineral resource mining, renewable energy and water recycling

**Unit 1**

**Environmental Monitoring**

**(13 Hours)**

- 1.1 Introduction – Need for Monitoring
- 1.2 Sampling and Analysis – Air, Soil and Water
- 1.3 Determination of Biodegradable Organic Material - Monitoring Pollution
- 1.4 Toxicity Testing Using Biological Material - Bio indicators, Biomarkers and Biosensors

**Unit 2**

**Bioremediation**

**(14 Hours)**

- 2.1 Introduction : Synthetic Compounds – Petrochemical Compounds and Inorganic Wastes in The Environment (A Brief Outline)
- 2.2 Bioaugmentation using Genetically Modified Organisms - Bioremediation Strategies: Phytoremediation and Bioaugmentation, Metal and gaseous Bioremediation
- 2.3 Bioremediation Techniques

2.4 Case Studies : Taj Mahal(Agra), Lotus temple (Delhi), Golden Temple(Amritsar) and Charminar (Hyderabad)

**Unit 3 (15 Hours)**

**Waste Treatment**

- 3.1 Sewage Treatment Methods : STP - Sludge Treatment and Disposal; Anaerobic Digestion
- 3.2 Treatment of Agricultural Wastes - Removal of Nitrogen and Phosphorus
- 3.3 Treatment of Industrial Effluents: ETP - Distillery, Dairy, Tannery, Textile and Sugar Industries

**Unit 4 (12 Hours)**

**Towards Sustainable Development**

- 4.1 Biofertilizers in an Agro Ecosystem
- 4.2 Biopesticides: Types and Mode of Action of *Bacillus thuringiensis*
- 4.3 Biofuels: Biogas, Biodiesel, Ethanol and Hydrogen

**Unit 5 (11 Hours)**

**Resource Recovery**

- 5.1 Introduction – Need for Recovery of Resources
- 5.2 Oil Recovery: Enhanced Oil Recovery and Microbially Enhanced Oil Recovery
- 5.3 Bioleaching: Extraction of Copper, Uranium and Gold

**BOOKS FOR STUDY**

Scragg, Alan. (2007). *Environmental Biotechnology*. New York: Oxford University Press

**BOOKS FOR REFERENCE**

- Allen K. (2005). *Environmental Biotechnology*. New Delhi : CBS Publishers
- Bruce Rittmann and Perry Mc Carty, (2017). *Environmental Biotechnology: Principles and Applications*, Chennai: Tata Mc Graw Hill
- Chatterji, A.K. (2011). *Introduction to Environmental Biotechnology*, (3<sup>rd</sup> ed.).Delhi : PHI Publication
- Evans, Gareth, M. and Judith C. Furlong, (2012). *Environmental Biotechnology: Theory and Applications*. New Jersey: Wiley – VCH
- Hans – Joachim Jording and Joseph Winter, (2005). *Environmental Biotechnology: Concepts and Applications*. New Jersey: Wiley – VCH
- Indu Shekhar Thakur, (2013). *Environmental Biotechnology-Basic Concepts and Applications* (2<sup>nd</sup> ed.).New Delhi: TK Publishers
- Mishra, C. S. K and Asha A. Juarkar, (2007). *Environmental Biotechnology*. Delhi : P. H. Corporation
- Mohapatra, Pradipta Kumar, (2006). *Textbook of Environmental Biotechnology*. New Delhi: I.K.International
- Pramod Kumar and Vipin Kumar, (2019). *Textbook of Environmental Biotechnology*, Delhi : WPI Publishers
- Viswanath Buddolla, (2016). *Environmental Biotechnology: Basic Concepts and Applications*, New Delhi: Narosa Publisher

**JOURNALS**

Journal of Environmental Biotechnology  
International Journal of Environmental Biotechnology

## **WEB RESOURCES**

<http://www.environmentalbiotechnology.org/>

<http://www.biodesing.asu.edu>

## **PATTERN OF ASSESSMENT**

**Continuous Assessment Test:                      Total Marks: 50**

**Duration: 90 minutes**

Section A – 6 x 2 = 12 Marks (All questions to be answered)

Section B – 3 x 6 = 18 Marks (3 out of 5 to be answered)

Section C – 1 x 20 = 20 Marks (1 out of 2 to be answered)

**Other Components:                                      Total Marks: 50**

Seminars/Quiz/Assignments/Case studies/Project

**End-Semester Examination:                      Total Marks: 100**

**Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO MARINE BIOLOGY**

**CODE:19ZL/ME/IB45**

**CREDITS:5**

**L T P:5 0 0**

**TOTAL TEACHING HOURS:65**

**OBJECTIVES OF THE COURSE**

- To enable an understanding of basic knowledge of oceans and the marine environment and its associated ecosystems.
- To familiarise students with various threats to the oceans and marine biodiversity and create awareness on the need for conservation.
- To enable students to learn about the economic importance of the ocean and its inhabitants

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Explain the diversity, distribution and adaptations of marine organisms
- Relate the physical and chemical processes of the oceans with the biology of organisms
- Distinguish between coastal, estuarine and marine ecosystems.
- Identify some of the more common marine species
- Discuss the impact of habitat disturbance on marine organisms and subsequent ecosystem-level consequences
- Describe the economic importance of select marine fauna.

**Unit 1 (13 Hours)**

- 1.1 Oceanography - Geologic history of oceans – seas – continental shelf – continental slope
- 1.2 Oceanic currents – oceanic water masses and circulation – waves and tsunamis – tides: origin – hydrothermal vents – polar seas
- 1.3 Marine instrumentation: echosounder, side scanning sonar, marine navigator, underwater camera
- 1.4 Ocean resources and exploration – expeditions – bioresources of the sea: food, mineral and petroleum resources

**Unit 2 (15 Hours)**

- 2.1 Marine zoogeography - Marine biodiversity: definition, importance, assessment techniques – marine invertebrates and chordates (general) – biodiversity at regional and global level
- 2.2 Pelagic organisms: plankton and nekton - benthic fauna – deep sea life: adaptations, factors affecting populations

- 2.3 Coastal biodiversity: intertidal, littoral, sublittoral – seagrass and other halophytes – Mangroves – fauna associated with mangroves – coral reefs – fauna associated with reefs - Marine microfauna (foraminiferans and radiolarians)
- 2.4 Sea Birds and Marine mammals: Diversity, Adaptations and Unique behaviours

**Unit 3 (15 Hours)**

- 3.1 Threats to marine biodiversity: physical alteration and habitat loss, overexploitation, Pollution, alien species, climate change, acidification
- 3.2 Ocean pollution: kinds and quantities of pollutants entering oceans – sewage and nutrients from rivers and estuaries – trace metals – heavy metals - nuclear waste – fate of pollutants – toxic effects
- 3.3 Plastic pollution in the marine environment: nature of plastics, impact – oil spills, impact
- 3.4 Biofouling: definition, biofouling organisms, problems due to biofouling – pollution due to antifouling paints – biofouling control – Case study

**Unit 4 (11 Hours)**

- 4.1 Mariculture: definition, importance, present status in India, types of culture (general)-commercial marine fishery sources of India and Tamil Nadu
- 4.2 Marine ornamental aquatic organisms: crustaceans, molluscs, fishes – their suitability for aquaria
- 4.3 Marine fossils: Coelenterates, Trilobites, Gastropods, Cephalopods, Pelecypods, Brachiopods, Echinoderms and Ichthyosaurs

**Unit 5 (11 Hours)**

- 5.1 Marine microbes: bacteria, fungi and protozoans
- 5.2 Microbial biofilms – carbohydrate products and derivatives – nitrogenous compounds – Production and applications of marine microbial products – pigments: Astaxanthin,  $\beta$  carotene – bioadhesives and thermostable enzyme – Probiotic bacteria and their importance in aquaculture.
- 5.3 Drugs from marine animals: Sources, Importance - Antibiotic compounds Steroids, carotenoids and Sterols from marine forms
- 5.4 Toxins from marine animals: Types, Functional properties –  
Venom in marine animals: sea snake, fish and molluscs - Pharmacological and toxicological properties of venom

**BOOKS FOR STUDY**

Biswas, K.P. (2013). *Marine Biology*. New Delhi: Daya Publishing House.

**BOOKS FOR REFERENCE**

Barnes, R.S.K and Hughes, R.N. (1999). *An Introduction to Marine Ecology*. New Jersey: Blackwell Science.

Beiras, R. (2018). *Marine Pollution. Sources, Fate and Effect of Pollutants in Coastal Ecosystems*. Netherlands: Elsevier.

Harper, J. (2017). *Marine and Aquatic Sciences*. USA: Callisto Reference.

Kim, S. K. (2015). *Handbook of Marine Biotechnology*. U.K : Springer Handbook.

Niver, H. M. (2017). *Marine Fossils*. USA: Powerkids.

Odum, E.P. (2017). *Ecology*. U.K :Oxford and IBH Publishing Co. Pvt. Ltd.  
Ross, D. A. (1995). *Introduction to Oceanography*. Noida: Harper Collins.  
Townsend, D. W. (2012). *Oceanography and Marine Biology: An Introduction to Marine Science*. USA: Sinauer Associates.

## **JOURNALS**

Journal of Marine Biology  
Marine Biodiversity

## **WEB RESOURCES**

[www.life.bio.sunysb.edu/marinebio](http://www.life.bio.sunysb.edu/marinebio)  
[www.worldoceanobservatory.org/content/online-resources-marine-biology](http://www.worldoceanobservatory.org/content/online-resources-marine-biology)

## **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 50</b>	<b>Duration: 90 minutes</b>
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Section A –  $6 \times 2 = 12$  (All questions to be answered)

Section B –  $3 \times 6 = 18$  (3 out of 5 to be answered)

Section C –  $1 \times 20 = 20$  (1 out of 2 to be answered)

<b>Other Components:</b>	<b>Total Marks: 50</b>
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Seminars/Quiz/Case studies/Poster

<b>End-Semester Examination:</b>	<b>Total Marks: 100</b>	<b>Duration: 3 hours</b>
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Section A –  $10 \times 3 = 30$  Marks (All questions to be answered)

Section B –  $5 \times 6 = 30$  Marks (5 out of 7 to be answered)

Section C –  $2 \times 20 = 40$  Marks (2 out of 4 to be answered)

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the Department of Zoology to  
B.A/B.Sc/B.Com/ B.B.A. /B. S. W./ B.C.A. /B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**PET CARE**

**CODE:19ZL/GE/PC22**

**CREDITS :2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the general principles of pet care.
- To familiarise students with the feeding, containment and grooming of pets
- To enable students to identify and manage some common diseases of pets
- To help inculcate in students, a humane and caring attitude towards animals and their welfare.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss concepts in animal welfare
- Recognize abnormal behavior in pet animals
- Describe needs of pets and how they can be met
- Identify a few different breeds of fish, birds, cats and dogs
- Apply pet selection criteria while selecting pets
- List a few common health/hygiene problems of pets and their remedies

**Unit 1 (8 Hours)**

- 1.1 Science, Ethics, Law and Welfare Assessment of Animals – Mental, Physical and Natural Assessment of Welfare – Five Freedoms – Factors that Contribute to Animal Behaviour and Welfare
- 1.2 Recognition of Normal Behaviour –Abnormal Behaviour in Pet Animals
- 1.3 Laws and Licenses – Animal Charities and Societies: RSPCA, WSPA, Blue Cross – Pet Trade – Trafficking in pets
- 1.4 Pet Care Needs: Feeding, Watering, Shelter, Containment, Fencing, Caging, Protection

**Unit 2 (9 Hours)**

- 2.1 Care of fish – Fish Selection – Types of Fish (Tropical, Marine, Cold Water)
- 2.2 Maintaining aquaria: Tanks, Size, Cost, Pumps, Lighting, Water Quality Management – Feed (pelleted, microencapsulation, diet and live feed e.g., *Daphnia sp.* and *Artemia sp.*)
- 2.3 Diseases in Fish (fungal, bacterial, parasites, environmental) and treatment
- 2.4 Breeds of Birds (e.g., Parrots, Pigeons, Love Birds) – Bird Selection

- 2.5 Containment (Aviaries – selection, design, size, management) – Feed – Watering – Grooming (Wing trim, Beak Trim, Nail Trim) – Hygiene – Catching and Restraining
- 2.6 Caring for a sick bird: Signs of illness, temperature, supportive therapy – Common Ailments – Abscesses, Alopecia, Apoplexy, Aspergillosis, Breathlessness, Constipation, Parasites - Treatment

### **Unit 3 (9 Hours)**

- 3.1 Breeds of Cats (Long- Haired, Semi Long- Haired, Short-Haired, Oriental, Bombay Cross) – Selection of Cats
- 3.2 Cat care: Containment, Nutrition and Grooming - New born kittens - Breeding
- 3.3 Common infections and Treatment in Cats and their treatment
- 3.4 Breeds of Dogs (Pure and Mixed)
- 3.5 Selection of Dogs - Varying size and Temperament – Dog Care: Containment, Nutrition and Grooming – Breeding
- 3.6 Common infections in dogs and their treatment : tapeworm, Ticks and Viral infection ( Rabies)
- 3.7 Zoonotic diseases: causes and prevention

### **BOOKS FOR REFERENCE**

Alderton, David. (2016). *The Illustrated Practical Guide to Small Pets & Pet Care: Hamsters, Gerbils, Guinea Pigs, Rabbits, Birds, Reptiles, Fish*. Ohio: Lorenz Books.

Andrews, Chris, (2011). Exell Adrian and Carrington, Neville. *Manual of Fish Health*. U.K: Interpet publishing

Brown, Andi. (2006). *The Whole Pet Diet. Eight Weeks to Great Health for Dogs and Cats*. California: Celestial Arts.

Gerstenfeld, Sheldon, L. (1989). *The Bird Care Book*. Massachusetts: Lifelong Books.

Hines, Shannon.(2007). *Holistic Pet Care: For the Responsible Pet Owner*.Colorado: Outskirts Press.

Puotinen , C.J. (2000). *The Encyclopedia of Natural Pet Care*. New York : Mc Graw Hill.

Shojai, Amy.(2017). *Complete Kitten Care*. London:Furry Muse Publishing.

Silverstein, Deborah C. and Hopper, Kate (ed.). (2015) *Small Animal Critical Care Medicine*. Amsterdam: Elsevier Inc.,

Levin, Caroline D. *Dogs*,(2001). *Diet and Disease – An Owner’s Guide to Diabetes Mellitus, Pancreatitis, Cushings Disease and More*.Nigeria: Lantern Publications.

### **JOURNALS**

Pet Boarding and Day Care Magazine  
Journal of Exotic Pet Medicine

### **WEB RESOURCES**

[www.bluecrossofindia.org](http://www.bluecrossofindia.org)  
[www.peta.org](http://www.peta.org)

### **PATTERN OF ASSESSMENT**

**Continuous Assessment Test: Total Marks: 25 Duration: 60 minutes**

Section A – 5 x 2 = 10 Marks (All questions to be answered)

Section B – 1 x 5 = 5 Marks (1 out of 2 to be answered)

Section C – 1 x 10 = 10 Marks (1 out of 2 to be answered)

**Other Components: Total Marks: 25**

Quiz/Scrap Book/Assignment/Poster making/Case study presentation

**No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Zoology to Students of  
B A. / B.Sc. / B.Com. / B.S.W. / B.B.A and B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**NUTRITION AND THERAPEUTIC DIET**

**CODE:19ZL/GE/ND22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To familiarise students with nutrition, health, food safety and nutritional disorders
- To help students understand the principles and practices involved in Diet Therapy

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Discuss functions, sources, deficiencies and toxicities of macro and micronutrients
- Utilize concepts of balanced diet and diet therapy and relate them to fitness and health.
- Relate importance of Therapeutic diet
- Construct a meal planning menu for normal and specific diets

**Unit 1 (10 Hours)**

- 1.1 Sources and Functions of Macro nutrients and Micro nutrients, Antioxidants and Fiber
- 1.2 Balanced Diet-Food Groups and Food Guide -Nutrigenomics
- 1.3 Malnutrition: Protein Energy Malnutrition (PEM), Iodine Deficiency, Vitamin A Deficiency and Iron Deficiency
- 1.4 Eating Disorders

**Unit 2 (9 Hours)**

- 2.1 Diet Therapy: Purpose and Principles - Food Acceptance in Illness - Therapeutic Diets –Tube Feeding – Parenteral Feeding
- 2.2 Diet for-Diabetes Mellitus and Cardiovascular Diseases
- 2.3 Diet Therapy for Addictive Behaviors - Anorexia nervosa, Bulimia nervosa and Alcoholism

**Unit 3 (7 Hours)**

- 3.1 Meal Planning – Nutritious Food (Breakfast, Lunch and Dinner) – Calculation of Calories
- 3.2 Preparation of Low Cost Nutritious Food - Practicals
- 3.3 Nutritious Food for Anaemic Individuals, Adolescents, Pregnant Women and Elderly Persons

**BOOKS FOR REFERENCE**

Brown, Judith E. (2003). *Nutrition Now*. Canada: Wadsworth Thomson Learning  
Caroll A. Lutz, (2015) *Nutrition and Diet therapy*, (6<sup>th</sup> ed), Philadelphia: F.A. Davis Company

Insel, Paul.R. Elaine Turner and Don Ross. (2007). *Discovering Nutrition*. Massachusetts: Jones and Bartlett  
Krause, (2016) *Food and Nutrition Therapy*, (14<sup>th</sup> ed)., Amsterdam: Elsevier  
Mudambi, S.R. and M.V. Rajagopal. (2018). *Nutrition and Diet therapy*. Chennai: New Age International  
Rosalinda T. Lagua and Virginia S Claudio. (1996) *Nutrition and Diet therapy Reference Dictionary*, (4<sup>th</sup> ed) , London: Chapman & Hall  
Sangeeta Karvita, (2010) *Nutrition and Diet therapy*, Biotech Publisher  
Srilakshmi, B. (2006). *Dietetics*. Chennai: New Age International  
Wardlaw, Gordon M. and Jeffrey S. Hampl (2007). *Perspectives in Nutrition*. New York: McGraw Hill

## **JOURNALS**

Journal of Nutritional Disorders and Therapy  
Journal of Food Science and Nutrition Therapy

## **WEB RESOURCES**

<http://www.eatright.org/>  
<http://www.who.int/nutrition/en/>

## **PATTERN OF ASSESSMENT**

<b>Continuous Assessment Test:</b>	<b>Total Marks: 25</b>	<b>Duration : 60 minutes</b>
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Section A –  $5 \times 2 = 10$  Marks (All questions to be answered)

Section B –  $1 \times 5 = 5$  Marks (1 out of 2 to be answered)

Section C –  $1 \times 10 = 10$  Marks (1 out of 2 to be answered)

<b>Other Components:</b>	<b>Total Marks : 25</b>
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Assignment /Preparation of low cost nutritious food /Preparation of specific diet- Meal Planning/Scrap book

**No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by Department of Zoology to students of  
B A. / B.Sc. / B.Com. / B.B.A./B.S.W / B.V.A/ B.C.A. (except B.Sc. Plant Biology and  
Biotechnology) Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**GENES, DISEASES AND SOCIETY**

**CODE:19ZL/GE/GD22**

**CREDITS:2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the basic principles of Human Heredity
- To help students to have an understanding of the different patterns of genetic inheritance
- To familiarise students with the recent advances in the field of Genetics and their ethical and social implications

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Differentiate the various patterns of genetic inheritance
- Analyse the various causes for genetic disorders
- Relate the concepts in genetics / biotechnology to human welfare
- Discuss the impact of consanguineous marriage in society
- Identify the various ethical, legal, societal issues related to techniques in Genetics

**Unit 1 (9 Hours)**

- 1.1 Introduction - Human Gametes and their Role in Heredity – DNA the Genetic Material - Mendelian Inheritance: Monohybrid and Dihybrid Cross Experiments - Identification of Mendelian Traits in Humans - Pedigree Analysis and its Applications
- 1.2 Lethal Genes: Definition, Types and Inheritance
- 1.3 Multiple Allelic Inheritance: ABO and Rh Blood Types in Humans – ABO Blood Grouping and Rh Typing, Practical – Case Study/Problem Solving - Polygenic Inheritance (Skin Colour in Humans)

**Unit 2 (10 Hours)**

- 2.1 Autosomal Recessive Inheritance (Albinism) - Autosomal Dominant Inheritance (Familial Hypercholesterolemia)- X-Linked Dominant Inheritance (Hypophosphatemia) – X-Linked Recessive Inheritance (Haemophilia) – Y-Linked Inheritance (Hypertrichosis) – Mitochondrial Inheritance (Kearns Sayre Syndrome)
- 2.2 Disorders with Genetic Predisposition: Diabetes, Breast Cancer, and Alzheimer's Disease - Chromosomal Disorders: Down's Syndrome, Turner's Syndrome, Klinefelter's Syndrome - Observation of Karyotypes - Metabolic Disorders: Phenylketonuria, Huntington Disease and Lactose Intolerance



## 2.3 Consanguineous Marriage and its Impact in the Society- Genetic Counselling

### Unit 3 (7 Hours)

- 3.1 Applications of Genetic Engineering: Genetically Modified Organisms, Gene Therapy and Gene Cloning
- 3.2 Predictive Genetic Testing: DNA Finger Printing (Case Study)
- 3.3 Ethical, Legal and Societal Issues (ELSI) Related to Techniques in Genetics

### BOOKS FOR REFERENCE

Cummings, M. R. (2012). Human Heredity – Principles and issues. (10th ed.) Canada: Thomson Brooks/Cole

Gardener A & Daves T. (2012). Human Genetics. (2nd ed.). New Delhi: Viva Books.

Hartl, D. L. (2013). *Essential Genetics & Genomics*. (7<sup>th</sup> ed.). USA: Jones & Bartlett Learning.

Kelly, E. B. (2013). *Encyclopaedia of Human Genetics & Diseases. Volumes I & II*. Connecticut: Greenwood Publishing House.

Klug, W. S., Cummings, M. and Spencer, C. (2018). *Concepts of Genetics*. (12<sup>th</sup> ed.). New Jersey: Pearson Education

Pierce, B. A. (2016). *Genetics – A conceptual approach*. (6<sup>th</sup> ed.). New York: W. H. Freeman.

Russel, P. J. I. (2011). *Genetics – A molecular approach*. San Francisco: Benjamin Cummings.

Snustad, P. D. and Simmons, M. J. (2012). *Principles of Genetics*. (6<sup>th</sup> ed.) New York: John Wiley.

Yashion, R. & Cummins, M. *Human Genetics & Society*. (2<sup>nd</sup> ed.) 2012.

### JOURNAL

Journal of Human Genetics  
Journal of Genetics and Genomics

### WEB RESOURCES

[www.ncbs.res.in](http://www.ncbs.res.in)  
[www.omim.org](http://www.omim.org)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test:                      Total Marks: 25                      Duration: 60 minutes**

Section A – 5 x 2 = 10 Marks (All questions to be answered)

Section B – 1 x 5 = 5 Marks (1 out of 2 to be answered)

Section C – 1 x 10 = 10 Marks (1 out of 2 to be answered)

### Other Components:

Quiz/Pedigree Chart Construction/Assignment /Poster Presentation/Problem Solving

### No-End-Semester Examination

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the Department of Zoology to  
B.A/B.Sc/B.Com/ B.B.A. /B. S. W./ B.C.A. /B.V.A Degree Programmes**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**BIOLOGY OF HUMAN REPRODUCTION**

**CODE:19ZL/GE/HR22**

**CREDITS :2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to understand the human reproductive system and its functions
- To help students to learn the biological aspects of sexuality and ethical issues associated with reproductive technology

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Describe the gross appearance and functions of male and female reproductive systems.
- Explain the role of hormones associated with the reproductive tracts and their control
- Explain the mechanism of sex determination.
- Discuss age-associated physiological changes in the reproductive tract
- Describe physiological changes during pregnancy and benefits of breast feeding.
- Identify causes for infertility, treatments available and ethical issues related to treatments.
- Discuss advantages and disadvantages of available contraceptives.
- List common forms of fetal malformations and their causes.

**Unit 1 (8 Hours)**

- 1.1 Reproductive System: Testis – Testicular Functions, Ovary – Uterine and Ovarian cycle
- 1.2 Hormonal Control of Reproduction: H-P-G Axis
- 1.3 Puberty - Menopause – Andropause

**Unit 2 (9 Hours)**

- 2.1 Procreation – Fertilization – Implantation – Placentation- Embryonic and Fetal Development- Sex Determination
- 2.2 Prenatal Diagnosis: Invasive and non-invasive methods
- 2.3 Pregnancy – Parturition - Lactation
- 2.4 Consanguinity – Fetal Loss - Birth Defects

**Unit 3 (9 Hours)**

- 3.1 Male and Female Infertility: Physiological Causes – other causes: smoking, obesity, stress, alcoholism, psychoactive drugs
- 3.2 Control of Fertility: Abstinence, Contraception – Medical Termination of Pregnancy
- 3.3 Sexually Transmitted Diseases: Gonorrhoea, Syphilis, Genital Herpes

- 3.4 Assisted Reproductive Technology: Artificial Insemination, Induced Ovulation, IVF and ET, Cryopreservation, Stem Cell Banking - associated ethical issues  
3.5 Surrogate Motherhood - Adoption

### **BOOKS FOR REFERENCE**

Cassan, A. (2005). *Human reproduction and Development (Inside the Human Body)*. New York: Chelsea Clubhouse.  
Field, M. A. (1990). *Surrogate Motherhood*. Massachusetts: Harvard University.  
Gardner, D. K. (2001). *Textbook of Assisted Reproductive Techniques: Laboratory and Clinical Perspectives*. London: Martin Dunitz.  
Johnson, M. H. (2018). *Essential Reproduction*. New Jersey: Wiley-Blackwell.  
Jones, R. E. (2013). *Human Reproductive Biology*. Amsterdam: Elsevier.  
Pinon, R. (2003). *Biology of Human Reproduction*. California: University Science Books.  
Tremellon K. and Pearce, K. (2015). *Nutrition, Fertility and Human Reproductive Function*. Florida: CRC Press.

### **JOURNALS**

Journal of Human Reproductive Science  
Human Reproduction

### **WEB RESOURCES**

[www.physiologyweb.com](http://www.physiologyweb.com)  
<http://www.visembryo.com/baby/index.html>

### **PATTERN OF ASSESSMENT**

#### **Continuous Assessment Test:**

**Total Marks: 25**

**Duration: 60 minutes**

Section A – 5 x 2 = 10 Marks (All questions to be answered)

Section B – 1 x 5 = 5 Marks (1 out of 2 to be answered)

Section C – 1 x 10 = 10 Marks (1 out of 2 to be answered)

#### **Other Components:**

Quiz/Scrap Book/Assignment/Poster making

### **No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**General Elective Course Offered by the Department of Zoology to  
B.A / B.Sc / B.Com / B.B.A. /B.S.W. / B.C.A. /B.V.A. Degree Programme**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**THE FASCINATING WORLD OF INSECTS**

**CODE:19ZL/GE/FI22**

**CREDITS :2**

**L T P:2 0 0**

**TOTAL TEACHING HOURS:26**

**OBJECTIVES OF THE COURSE**

- To enable students to understand basic insect biology, their natural history and evolution.
- To enable students to appreciate the economic importance of insects including their impact on human health, agriculture and the environment.

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Categorize a few insects based on ecological, behavioural, morphological and developmental attributes
- Identify the potential impact of a few common insect species on human health, agriculture and society in general
- Discuss unique adaptations and behaviour of insects
- Describe how insects can act as eco-indicators

**Unit 1 (8 Hours)**

- 1.1 Introduction: Taxonomic position of insects in the animal world - Evolution of insects – Scope of Entomology
- 1.2 Diverse habitats and general structure of an insect - Winged and Wingless insects- Insects on the Stella Maris College Campus
- 1.3 Types of Feeding

**Unit 2 (9 Hours)**

- 2.1 Reproduction and development in insects – Metamorphosis: complete and incomplete- Life cycle of butterfly and mosquito
- 2.2 Special adaptations in land-dwelling and aquatic insects – Nocturnal and Diurnal Insects – Defense Mechanisms: Camouflage, Mimicry, Toxin Production, Thanatosis – Bioluminescence
- 2.3 Insect Behaviours: Nest making, Courtship, mating - Intra- specific and inter-specific relationships - Other interesting behaviour: leaf mining, mud puddling, mushroom farming, dung rolling, processionary caterpillars, sound production, alarm signals, diapause, insect-plant interactions

### Unit 3

(9 Hours)

- 3.1 Social insects - Social life in honey bees and ants
- 3.2 Useful insects: insect pollinators - insect products – Harmful insects: insect pests, insects as vectors of diseases and venomous insects
- 3.3 What we can learn from Insects: Biomimicry - Insects as indicator organisms; Insects in Literature

### BOOKS FOR REFERENCE

- Ambrose, D. P. (2010). *The Insects: Beneficial and Harmful Aspects*. Cuttack: Kalyani Publishers.
- Chapman, R.F., Simpson, S. J. & Douglas, A. E. (2013). *The Insects. Structure and Function*. Cambridge: Cambridge University Press.
- Goff, M. L. (2000). *A Fly for the Prosecution. How Insect Evidence helps Solve Crimes*. Massachusetts: Harvard University Press.
- Hoyt, E. & Schultz, T. (1999). *Insect Lives. Stories of Mystery and Romance from a Hidden World*. New Jersey: John Wiley and Sons Inc.
- Huis, A. & Tomberlin, J. K. (2017). *Insects as Food and Feed: From Production to Consumption*. Netherlands: Wageningen Academic Publishers.
- Iyer, G. (2016). *The Weavers. The Curious World of Insects*. Noida: Harper Collins.
- Shaw, S. R. (2015). *Planet of the Bugs. Evolution and Rise of Insects*. Chicago: The University of Chicago Press.
- Waldbauer, G.P. (2012). *How not to be Eaten. The Insects Fight Back*. California: University of California Press.
- Waldbauer, G. P. (2008). *A Walk around the Pond. Insects in and Over the Water*. Massachusetts: Harvard University Press.
- Waldbauer, G. P. (2004). *What Good are bugs? Insects in the Web of Life*. Massachusetts: Harvard University Press.
- Wilson, E.O. (1971). *The Insect Societies*. Cambridge: Belknap Press.

### JOURNALS

Journal of Insects  
Journal of Insect Science

### WEB RESOURCES

[www.insects.orkin.com](http://www.insects.orkin.com)  
[www.nationalgeographic.org/topics/insects](http://www.nationalgeographic.org/topics/insects)

### PATTERN OF ASSESSMENT

**Continuous Assessment Test: Total Marks: 25**

**Duration: 45 mins**

- Section A – 5 x 2 = 10 Marks (All questions to be answered)  
Section B – 1 x 5 = 5 Marks (1 out of 2 to be answered)  
Section C – 1 x 10 = 10 Marks (1 out of 2 to be answered)

### Other Components:

Quiz/Scrap Book/ Assignment / Poster making

**No End-Semester Examination**

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019-2020)

**INTRODUCTION TO WILDLIFE BIOLOGY**

**CODE:19ZL/UI/WB23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To enable students to acquire knowledge on various aspects of wildlife biology and habitat ecology
- To sensitize the students to the need for conservation of wildlife
- To enable students to understand the impacts of land use and environmental management decisions on ecosystems and society
- To familiarize students with a variety of laws and regulations that influence how natural resources are used and protected

**COURSE LEARNING OUTCOME**

On successful completion of the course, students will be able to

- Identify factors affecting population densities
- Describe various population estimation methods
- Explain proximate and ultimate threats to biodiversity and consequences of biodiversity loss.
- Differentiate *in situ* and *ex situ* conservation strategies
- Discuss the laws and regulations pertaining to protection of natural resources and their management

**Unit 1**

- 1.1 Introduction to Ecology - Habitats and Niches – Resource Partitioning
- 1.2 Landscape Ecology– High Altitude Ecology - Wetland Ecology
- 1.3 Natural Resource Management

**Unit 2**

- 2.1 Population Dynamics: Concepts - Animal Dispersion and Animal Populations
- 2.2 Population Growth and Its Regulation –Growth without Regulation - Regulation of Population Densities - Demographic Data and its importance
- 2.3 Factors Affecting Population Density – Determinate and Stochastic Factors: Space, Food and Water, Territories, Herbivores and Predators, Weather and Climate, Parasites and Diseases, Natural Disasters, Self -Regulation, Stress.
- 2.4 Wildlife Population Estimation Methods: Direct, Indirect – Making Observations – Field Notes and Photographic Records; Use of Field Equipment: Binoculars, Telescope, Camera, Tally Counter, GPS, Radio Telemetry, Drones

### **Unit 3**

- 3.1 Biogeography and Wildlife Habitat: Species Distribution, Patterns, Continental Drift, Factors Affecting Animal Distribution, Biodiversity Hotspots in India - Endemism
- 3.2 Wildlife: Definition, Values - Biology of Indian Wildlife - Salient Features of Important Wild Animals: Insects and Other Arthropods, Fishes, Amphibians, Reptiles, Birds and Mammals
- 3.3 Man – Wildlife Interactions and Conflicts– Ecological Impacts – Concepts, Principles and Human Dimensions in Wildlife Management

### **Unit 4**

- 4.1 Wildlife Tourism – Viewing Animals in the Wild–Wildlife Damage Management - Wildlife Crimes and Forensics
- 4.2 Wildlife Trade - Wildlife Protection -Legislations and Acts: Wildlife Protection Act (1972) and its Amendments, Biodiversity Act (2000) - Role of NGOs – Role of Institutions and Organizations
- 4.3 Planning and Execution of Field Surveys: Sampling Methods - Capture and Handling of Wild Animals
- 4.4 Principles of Wildlife Health – Wildlife Diseases: Anthrax, Rabies, Ringworm, Taeniasis

### **Unit 5**

- 5.1 Need for Conservation – Strategies – *In Situ* – *Ex Situ*
- 5.2 Planning and Implementing Conservation Programmes - Wildlife Projects, Conservation Genetics and Conservation Management — Nutrition of Captive and Free Ranging Wild Fauna
- 5.3 Zoo Designing - Management and Husbandry of Zoo Animals

### **BOOKS FOR REFERENCE**

- Anderson, S.H. (2002). *Managing our wildlife resources*. New Jersey: Prentice Hall.
- Dasmann, R. F. (2011). *Wildlife Biology*. New Jersey: John Wiley and Sons.
- Fulbright, T. E. & Hewitt, D. G. (2007). *Wildlife Science: Linking Ecological Theory and Management Applications*. Florida: CRC Press
- Krausman, P.R. (2002). *Introduction to Wildlife Management - the Basics*. USA: Prentice Hall.
- Krausmann, P. R. (2002). *Wildlife Ecology and Management*. USA :Prentice Hall.
- Newsome, D., Dowling, R. & Moore, S. (2005). *Wildlife Tourism*. Ohio: Cromwell Publishers.
- Saha, G. K. & Mazumdar, S. (2017). *Wildlife Biology: An Indian Perspective*. Delhi: Prentice – Hall of India Pvt. Ltd.
- Silva, N.J. (2012). *The Wildlife Techniques Manual: Research & Management*. Baltimore: The Johns Hopkins University Press.
- Terio, K.A., McAloose, D. & St. Leger, J. (Ed.). (2018). *Pathology of Wildlife and Zoo Animals*. Massachusetts: Academic Press.
- Wobeser, G. A. (2007). *Disease in Wild Animals: Investigation and Management*. New York City: Springer Verlag.

### **JOURNALS**

- Conservation Biology  
Wildlife Biology

**WEB RESOURCES**

<http://www.worldwildlife.org/>

<http://www.wwfindia.org/>

**PATTERN OF ASSESSMENT****End-Semester Examination:****Total Marks: 100****Duration: 3 hours**

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**

**B.Sc. DEGREE: BRANCH VI.A. - ADVANCED ZOOLOGY AND  
BIOTECHNOLOGY**

**SYLLABUS**

(Effective from the academic year 2019–2020)

**FUNDAMENTALS OF FOOD SCIENCE**

**CODE:19ZL/UI/FS23**

**CREDITS:3**

**OBJECTIVES OF THE COURSE**

- To enable the understanding of the fundamentals of Food Science
- To encourage Entrepreneurship

**COURSE LEARNING OUTCOMES**

On successful completion of the course, students will be able to

- Recognize the right type of food choice which will provide the right nutrition and adequate number of calories
- Relate the type of food spoilage and practice personal hygiene to avoid food borne diseases
- Discuss the varied types of food packaging materials and their barrier properties
- Differentiate common food adulterants
- Explain the importance of food laws

**Unit 1**

**Food Chemistry and Nutrition**

- 1.1 Introduction to Food Chemistry
- 1.2 Food Guide and Usage - Basic Five Food Groups - Malnutrition - Fortification
- 1.3 Diet Therapy: Purpose and Principles - Diet in Diabetes mellitus and Cardiovascular Diseases
- 1.4 Dietary Management

**Unit 2**

**Food Microbiology and Sanitation and Hygiene**

- 2.1 Microbial Growth-Growth Curve of Bacteria
- 2.2 Food Contamination and Spoilage –Vegetables and Fruits
- 2.3 Fish and Other Sea Food
- 2.4 Importance of Personal Hygiene of Food Handler - Safety in Food Storage - Handling and Preparation
- 2.5 Methods of Sterilization - Use of Detergents - Heat and Chemicals

**Unit 3**

**Post Harvest Technology and Food packaging**

- 3.1 Cereals and Legumes - Oil Seeds - Fruits and Vegetables - Meat Fish and Poultry
- 3.2 Fermentation Technology
- 3.3 Fortification Technology - High Protein Technology - Extruded Foods
- 3.4 Packaging Functions and Packaging Materials
- 3.5 Types of Packaging - Shrink-Strip – CFB – Glass – Tetrapak - Rigid Containers – Plastic- Shelf-Life- Plastic numbers-Bio Polymer

### 3.6 Quality Testing of Packaging

## Unit 4

### **Food Adulteration and Food Toxicology**

- 4.1 Detection of Food Adulteration in Food Grains, Dhal, Oil, Spices and Ghee
- 4.2 Estimation of Benzoic Acid and BOAA Test
- 4.3 Food Toxicology - Naturally Occurring Food Toxicants
- 4.4 Hazards of Pesticides and Heavy Metals in Food
- 4.5 Food Labeling

## Unit 5

### **Sensory Evaluation & Quality Control**

- 5.1 Factors affecting Food Acceptance - Sensory, Psychological
- 5.2 Objective Methods of Sensory Evaluation
- 5.3 Quality Control and its Importance - Food Laws

## **BOOKS FOR REFERENCE**

- Banwart, George J. (1987). *Basic Food Microbiology*. New Delhi: CBS
- Brown, Judith E. (1987). *Nutrition Now*. Belmont: Wadsworth Thomson Learning
- Frazier, (2017). *Food Microbiology*. New York: Mc Graw Hill
- Insel, Paul R. Elaine Turner and Don Ross. (2007). *Discovering Nutrition*. Massachusetts: Jones and Bartlett
- Jay, James M. (1996) . *Modern Food Microbiology*. New York: McGraw Hill
- Marriot, Norman G. (1989). *Principles of Food Sanitation*. New York: AVI Publishing
- Maynard A., Amerine, Rose Marie P. & Edward B. Rossler. (1965). *Principles of Sensory Evaluation of Food*. New York
- Swaminathan, Geetha and Mary George. (2002). *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham

## **JOURNALS**

- Food Science and Nutrition
- Journal of Nutrition and Food Sciences
- International Journal of Nutrition and Food Sciences

## **WEB RESOURCES**

- <http://www.foodnavigator-asia.com/>
- <http://www.foodandnutrition.org/>
- <https://www.ift.org/>

## **PATTERN OF ASSESSMENT**

**End-Semester Examination:**

**Total Marks: 100**

**Duration: 3 hours**

### **QUESTION PAPER PATTERN**

- Section A – 10 x 3 = 30 Marks (All questions to be answered)
- Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)
- Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)