



TRUTH

CHARITY

STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - TAMILNADU



PROSPECTUS 2019-2020

- Founded on August 15, 1947
- An aided Catholic minority institution affiliated to the University of Madras
- Autonomous since 1987
- Choice Based Credit System introduced in 1997
- Awarded Five Star Status by NAAC in 2000
- Star Department Status accorded in October 2013, to the undergraduate Science Departments of Botany, Zoology, Chemistry and Physics, under the Star College Scheme of the Department of Biotechnology, Ministry of Science and Technology, Government of India, for strengthening the basic sciences and biotechnology education and training
- Re-accredited by NAAC in 2008 with a CGPA of 3.57 on a 4 point scale and in 2014 with a CGPA of 3.68 on a 4 point scale
- Science Departments selected for support under DST-FIST Programme -2015
- Accorded status of College with Potential for Excellence in April 2016
- Conferred the title The Pride of the Catholic Church by the Catholic Bishops Conference of India Office for Education and Culture, New Delhi, in October 2016



STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI, INDIA

(Re-accredited by NAAC with an 'A' Grade and a CGPA of 3.68 on a 4 point scale)

ABOUT THE COLLEGE

Stella Maris College, a Catholic minority institution of higher education for women, was founded in 1947. Beginning in a small, one-storey building on August 15th of that year with 32 students in Santhome, Mylapore, the College was relocated in 1960 to its present campus "The Cloisters" on Cathedral Road in the heart of the city of Chennai. Today, the College has an enrolment of nearly 5,500 students from diverse backgrounds, communities and nations.

The College is an autonomous institution affiliated to the University of Madras and is partly residential. It is under the management of the Society of the Franciscan Missionaries of Mary, a Catholic, religious congregation founded by Blessed Mary of the Passion (Hélène de Chappotin) in Ootacamund, Tamil Nadu in 1877. Guided by her charism, the initiatives of the College arise from a sound philosophy of life based on faith in God and the contemporary reality of a pluralistic Indian society which is challenged by global ideologies and cultures. The College is committed to serving the economically and socially marginalised sections of society. It provides university education in a Christian atmosphere for deserving students, especially those belonging to the Catholic community. Admission is open to all irrespective of caste and creed and their rights of conscience are respected.

Truth and Charity is the motto of the College. To seek knowledge is to pursue truth. The College strives to encourage young women to continually search for Truth, and grow into mature and responsible women, ready to face the challenges of life at home and in society. The quest for truth and the untiring spirit of selfless service is the hallmark of a true Stella Marian.

The College emblem represents a ship sailing on stormy waters led by a star. This symbolises the student's life, guided amidst tempests by the light of the Star of the Sea, Stella Maris.

Blue and Gold are the colours of the Stella Maris standard. Blue symbolises truth, loyalty and fidelity and Gold symbolises love, zeal and charity.

Vision Statement

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

Mission Statement

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

To realise this vision and accomplish its mission, the College has set the following objectives:

- to develop in the College, a community of individuals endowed with intellectual curiosity, and an eagerness for lifetime learning, who will use knowledge creatively for social transformation
- to form women of character, with sound moral principles and integrated personalities
- to instil in the students a sense of national pride and appreciation of Indian traditions and cultures
- to create awareness among students about current socio-economic, political and cultural issues and to denounce all forms of oppression relating to class, caste and gender
- to sensitise students to environmental issues, thus motivating them to promote ecological justice and sustainable development
- to establish a link between the institution and policy makers through collaborative research leading to social development

The College became autonomous in 1987 and has 24 undergraduate and 13 postgraduate programmes with 7 departments offering research programmes leading to M.Phil. and/or Ph.D. degrees. Postgraduate diploma and certificate courses are also part of the curriculum.

With the introduction of the Choice Based Credit System (CBCS) in 1997, the College began offering new academic programmes, including interdisciplinary courses. The goals of the CBCS are as follows:

- To provide a broad-based, liberal education for all students
- To provide them with greater flexibility in the choice of courses
- To enable them to choose courses at basic/advanced levels
- To enable them to progress at their own pace
- To enable highly motivated students to go beyond minimum requirements and earn extra credits.

UNDERGRADUATE PROGRAMMES

A) OFFERED UNDER THE AIDED SECTION – Shift I			
Timing: 7:50 a.m.-12:50 p.m.			
Degree	Programme	Duration	Subjects taken in Higher Secondary
B. A	History and Tourism	3 years/ 6 semesters	Any group in Higher Secondary
B. A.	Sociology		
B. A.	Economics		
B. A.	English		
B. V. A.	Visual Arts (Specialisation in Art or Design)	4 years/ 8 semesters	
B. Sc.	Mathematics	3 years/ 6 semesters	Mathematics and Physics
B. Sc.	Physics		Physics, Mathematics and Chemistry
B. Sc.	Chemistry		Chemistry, Physics and Mathematics
B. Sc.	Plant Biology and Plant Biotechnology		Biology, Chemistry and Microbiology/ Botany, Zoology/Biotechnology
B. Sc.	Advanced Zoology and Biotechnology		Biology, Chemistry and Microbiology/ Zoology, Botany/Biotechnology
B. Com.	Commerce		Commerce, Accountancy and Mathematics/Business Mathematics, Accountancy and Commerce
B) OFFERED UNDER THE SELF-FINANCING SECTION – Shift II			
Timing: 12:55 p.m.-5:30 p.m.			
B. A.	English and Communication Skills	3 years/ 6 semesters	Any group in Higher Secondary
B. Sc.	Mathematics		Mathematics and Physics
B. Sc.	Psychology		Any group in Higher Secondary/equivalent Boards
B. Com.	Commerce		Commerce/Business Studies, Accountancy, Mathematics/Business Mathematics, Accountancy and Commerce
B. Com.	Corporate Secretaryship		Commerce/Business Studies, Accountancy, Accountancy and Commerce
B. Com.	Accounting and Finance		Commerce, Accountancy, Mathematics/Business Mathematics, Accountancy and Commerce
B. B. A.	Business Administration		Commerce/Business Studies, Accountancy, Accountancy and Commerce
B. C. A.	Bachelor of Computer Applications		Mathematics/Business Mathematics
B. S. W.	Social Work		Any group in Higher Secondary and ability to read and speak Tamil
B. Voc. (subject to approval by University of Madras)	Banking, Financial Services and Insurance	Any group in Higher Secondary/ Vocational Stream	
C) OFFERED UNDER THE SELF-FINANCING SECTION – Shift II			
Timing: 10:05 a.m.- 3:45 p.m.			
B. Voc.	Food Processing and Quality Control	3 years/ 6 semesters	Any group in Higher Secondary/ Vocational Stream
B. Voc.	Sustainable Energy Management		Any group in Higher Secondary/ Vocational Stream
D) OFFERED UNDER THE SELF-FINANCING SECTION – Shift II			
Timing: 9:00 a.m.-3:00 p.m.			
B. Voc. (subject to approval by University of Madras)	Tourism and Hospitality	3 years/ 6 semesters	Any group in Higher Secondary/ Vocational Stream

POSTGRADUATE PROGRAMMES

A) OFFERED UNDER THE AIDED SECTION – Shift I			
Timing: 7:50 a.m.-12:50 p.m.			
Degree	Programme	Duration	Eligibility/Requirements
M. A.	Economics	2 years/ 4 semesters	B. A. Economics (or) equivalent as stipulated by the University of Madras
M. A.	English		B. A. English (or) B. A./B. Sc. With Part II English (Two Years)
M. A.	History of Fine Arts		Any undergraduate degree recognised by the University of Madras
M. S. W.	Master of Social Work Area of Specialisation • Child Rights and Practice with Families • Social Work Practice in Health Settings • Development Issues and Social Work Practice		Any undergraduate degree recognised by the University of Madras and ability to read and speak Tamil
M. Sc.	Mathematics		B. Sc. Mathematics/Applied Science (or) equivalent accepted by the University of Madras
B) OFFERED UNDER THE SELF-FINANCING SECTION – Shift II			
Timing: 12:55 p.m.-5:30 p.m.			
M. A.	Public Relations	2 years/ 4 semesters	Any undergraduate degree recognised by the University of Madras
M. A.	International Studies		Any undergraduate degree recognised by the University of Madras
M. Com.	Commerce		B.Com. Degree
M. Sc.	Chemistry		B.Sc. Chemistry (or) any undergraduate Science Degree recognised by the University of Madras
M. Sc.	Biotechnology		An undergraduate degree recognised by the University of Madras in any one of the following disciplines: Biotechnology, Microbiology, Botany, Plant Biology and Plant Biotechnology, Zoology, Advanced Zoology and Biotechnology, Chemistry, Physics, Biochemistry, Agriculture, Biology
M. Sc.	Bioinformatics		An undergraduate degree recognised by the University of Madras in any one of the following disciplines: Mathematics, Physics, Chemistry, Botany, Zoology, Biochemistry, Biotechnology, Computer Science, Microbiology, Agriculture, Nutrition and Dietetics, Veterinary Science, Medicine and any Engineering discipline
M. Sc.	Information Technology		An undergraduate degree recognised by the University of Madras in any one of the following disciplines: Information Technology, Computer Science, Computer Application, Mathematics, Statistics, Business Mathematics, Business Statistics, Applied Science
M. Sc. (subject to approval by University of Madras)	Physics		B.Sc. Physics with Mathematics as one of the ancillary or B.Sc. Applied Science
PGDCS	Postgraduate Diploma in Computer Science	1 year/ 2 semesters	An undergraduate degree recognised by the University of Madras with Mathematics in the Higher Secondary or an equivalent exam

STRUCTURE OF THE PROGRAMMES

The College follows the semester pattern requiring six semesters of study for a Bachelor's degree, eight semesters for B. V. A. and four semesters for a Master's degree. The duration of a semester is 90 working days.

In the CBCS, each course offered in a semester is assigned a certain number of credits, depending on the weekly quantum of work required of the student.

UNDERGRADUATE PROGRAMMES

At the undergraduate level a student must necessarily complete a minimum of 149 credits for a Bachelor's degree in Arts/Sciences/Commerce and 189 credits for the Bachelor's Degree in Visual Arts.

The undergraduate programme has the following components:

- Part I** Foundation Course in Language
Tamil/Hindi/Sanskrit/French
- For the Self-financing section:
Tamil/Hindi/Sanskrit/French
- Please check the College website for instructions on language selection criteria
- Part II** Foundation Course in English
- Part III** a) Major Core Courses
b) Allied Core Courses
c) Major Elective Courses
d) Interdisciplinary Courses
- Part IV** a) General Elective Courses (refer pg. 21)
b) Value Education (refer pg. 22)
c) Environmental Studies
d) Soft Skills
e) Value Added Courses (Optional)
- Part V** a) Student Training Programmes
NSS/NCC /Games /Youth Red Cross
b) Social Awareness Programme/
Service Learning (refer pg. 22)

Part I Language & Part II English are mandatory courses for all students.

Students who have not studied Tamil up to Standard X are required to take two courses in Basic Tamil of two credits each over two semesters.

Students who need training in English language skills are required to take two courses in Basic English of two credits each over two semesters.

provide job-oriented skills with certification from the National Skill Development Corporation (NSDC).

A student must complete a minimum of 180 credits for the B. Voc. Degrees in Sustainable Energy Management, Food Processing and Quality Control, and Banking, Financial Services and Insurance and a minimum of 181 credits for the B. Voc. Degree in Tourism and Hospitality. The B. Voc. programme has the following components:

- Part I** Foundation Course in Language
Tamil/French
- Part II** Foundation Course in English
- Part III** a) Non-Major Electives (General Electives)
b) Environmental Studies
c) Value Education
d) Extension Activity
e) Soft Skills
- Part IV** Skills Component
a) Core Courses
b) Allied Core
c) Allied Elective
d) Project

***subject to approval by the University of Madras**

POSTGRADUATE PROGRAMMES

M. A./M. Sc./M. Com./M. S. W.

At the postgraduate level a student must necessarily complete a minimum of 94 credits for a Master's degree in Arts/Sciences/Commerce and 98 credits for the Master's Degree in Social Work.

The postgraduate programmes have the following components:

- a) Core Courses
1. Elective Courses
2. Value Education (refer pg.30)
3. Soft Skills
4. Social Awareness Programme (refer pg.30)
5. Internship

B. Voc. PROGRAMMES

Four B. Voc. Programmes in Sustainable Energy Management, Food Processing and Quality Control, Tourism and Hospitality*, and Banking, Financial Services and Insurance* are funded by UGC and approved by University of Madras. These programmes

BACHELOR OF ARTS (B. A.)

BRANCH I A – HISTORY AND TOURISM -Shift I

Major Core Courses

Ancient India upto CE 700
Introduction to Tourism
Medieval India (CE 712-1707)
Geography for Tourism
Indian National Movement
Human Rights
Contemporary India
History of Europe (1789-1871)
History of Europe (1789-1871)
History of World Civilizations
Intellectual History
Women's Studies
International Relations Since 1945
The Indian Constitution
Art and Architecture in India
Study of Indian Cinema

Allied Core Courses

History of Tamil Nadu upto 19th Century
Pre-Colonial India upto 1858
Social and Cultural Heritage of Chennai
City
History of USA upto Cold War

Major Elective Courses

Indian Heritage and Tourism
Global Cuisine
Airport Customer Service
Entrepreneurship in the Tourism Industry
Project

Interdisciplinary Core Courses (HS and CM)

Tourism Marketing and Management

Independent Elective Courses

History of the USA
China and Japan in the 20th Century

BACHELOR OF ARTS (B. A.)

BRANCH III – SOCIOLOGY-Shift I

Major Core Courses

Principles of Sociology I
Sociology of Indian Society
Principles of Sociology II
Development of Indian Social Thought
Development of Social Thought
Social Research and Social Statistics
Sociological Theory
Sociology of Development
Sociology of Media
Sociology of Crime and Victims
Sociology of Ethnic Relations
Urban-Rural Sociology
Sociology of Religion
Environmental Sociology
Sociology of Law
Social Movements

Allied Core Courses

Social Gerontology
Sociology of Gender
Social Anthropology
Fundamentals of Social Psychology

Major Elective Courses

Non-Governmental Organization
Logic and Scientific Methods
Industrial Sociology
Corporate Social Responsibility
Project

Interdisciplinary Core Courses (SC and ZL)

Socioethnozoology

Independent Elective Courses

Social Networking
Social Entrepreneurship

BACHELOR OF ARTS (B. A.)

BRANCH IV – ECONOMICS – Shift I

Major Core Courses

Microeconomics I
Indian Economic Development
Microeconomics II
Tamil Nadu Economy
Environmental Economics
Behavioural Economics
Macroeconomics I
Monetary Economics
Macroeconomics II
Public Finance
Development Economics
Data Analytics
Public Policy
International Economics
History of Economic Thought
Data Analytics using 'R'

Major Elective Courses

Marketing
Monetary and Financial Economics
Economic Research and Analysis
Agricultural Economics
Project

Interdisciplinary Core Courses (EC and PH)

Renewable Energy and Energy Economics

Independent Elective Courses

Managerial Economics
Nobel Laureates in Economics

Allied Core Courses

Statistics for Economics
Mathematical Methods for Economics
Women, Work and Economics
Introductory Econometrics
Fundamentals of Consumer Behaviour

BACHELOR OF ARTS (B. A.)

BRANCH XII – ENGLISH – Shift I

Major Core Courses

Prose
Poetry
Drama
Indian Literatures I
Fiction
Literary Criticism I
Literary Criticism II
Indian Literatures II
West Asian Literature
Literature of East and South Asia
British Literature: Sixteenth Century to
Twenty-First Century
American Literature
Literatures of Australia, Canada and New
Zealand
African and Caribbean Literatures

Allied Core Courses

Introduction to Linguistics
Subaltern Writing
Literature and Ideas
Literature and Gender

Major Elective Courses

English Language Teaching
Introduction to Children's Literature
Journalistic Writing
Travel Writing
Project

Interdisciplinary Core Course Offered to English

Writing and Art for Picture Books

Interdisciplinary Core Course Offered to Visual Arts

Colonial Art and Literature

Independent Elective Courses

The Novel of Courtship and Marriage
Poetry of the Romantic Age

BACHELOR OF VISUAL ARTS (B. V. A.)

BRANCH X – VISUAL ARTS (FOUR YEAR PROGRAMME) – Shift I

Major Core Courses

Fundamentals of Art History
Drawing I Practical
Art of Indigenous Cultures
Ancient to Medieval Art in the West
Buddhist Architecture and Sculpture in India
Art in Europe (1280-1790)
Art in Europe (1780-1910)
Hindu Architecture and Sculpture
Figure Drawing Practical
Design Fundamentals Practical
Indo-Islamic Architecture
Art of Asia
Drawing III Practical
Modern and Postmodern Art in the West
Indian Painting
Modern Art in India
Indian Folk Art and Craft Traditions
Modern Architecture
Art and its Histories

Allied Core Courses

Perspective Drawing Practical
Drawing II Practical
Basic Painting Practical
Digital Photography Practical

Major Elective Courses

Illustration Practical
Painting I Practical
Textile Design I Practical
Figure Illustration Practical
Graphic Design I Practical
Creative Expressions Practical
Textile Design II Practical
Painting II Practical
Graphic Design II Practical
New Media Practical
Project-Design
Project-Art

Interdisciplinary Core Course Offered to students of Visual Arts

Colonial Art and Literature

Interdisciplinary Core Course Offered to students of English

Writing and Art for Picture Books

Independent Elective Courses

Fashion Concepts, Manufacture and Retail
History of Graphic Design

BACHELOR OF SCIENCE (B. Sc.)

BRANCH I – MATHEMATICS – Shift I

Major Core Courses

Differential Calculus
Algebra and Trigonometry
Integral Calculus
Analytical Geometry
Elements of Graph Theory
Differential Equations
Sequence and Series
Discrete Mathematics
Vector Analysis and Applications
Algebraic Structures
Principles of Real Analysis
Integral Transforms
Vector Spaces and Linear Transformations
Principles of Complex Analysis
Principles of Mechanics

Major Elective Courses

Optimisation Techniques
Project
Elements of Space Science
Numerical Methods with Programs in C

Interdisciplinary Core Course Offered to Students of Mathematics by MT and CS departments

Mathematics through Scientific Software

Independent Elective Courses

Combinatorics

Allied Core Courses

Mathematical Statistics I & II
General Physics I & II
Physics Practical I & II

BACHELOR OF SCIENCE (B. Sc.)

BRANCH III – PHYSICS – Shift I

Major Core Courses

Properties of Matter and Sound
Experimental Physics I, II, III, IV, V, VI,
VII & VIII
Thermal Physics and Statistical Mechanics
Mechanics
Optics and Spectroscopy
Electronics I & II
Mathematical Physics
Microprocessors and Microcontrollers
Solid State Physics
Electromagnetism
Atomic and Nuclear Physics
Quantum Mechanics and Relativity

Major Elective Courses

Essentials of Nanoscience
Laser Physics
Communication Systems
Project

Interdisciplinary Core Courses offered to students of Physics and Economics

Renewable Energy

Independent Elective Courses

Astrophysics
Geophysics

Allied Core Courses

Mathematics for Physics I & II
Fundamentals of Chemistry I & II
Biochemistry Practical
General Chemistry Practical

BACHELOR OF SCIENCE (B. Sc.)

BRANCH IV – CHEMISTRY – Shift I

Major Core Courses

General Chemistry
Volumetric Analysis Practical
Organic Chemistry I, II & III
Analytical Chemistry
Semi Micro Qualitative Analysis Practical I
& II
Inorganic Chemistry I & II
Physical Chemistry I, II & III
Organic Chemistry Practical I & II
Biochemistry
Biochemistry Practical
Physical Chemistry Practical I & II
Spectroscopy

Major Elective Courses

Pharmaceutical Chemistry
Polymer Chemistry
Computers in Chemistry
Food Chemistry
Project

Interdisciplinary Core Courses (CH and BT)

Introduction to Analytical Techniques

Independent Elective Courses

Industrial Chemistry
Drugs and Diseases

Allied Core Courses

Mathematics for Chemistry I & II
General Physics I & II
General Physics I & II Practical

BACHELOR OF SCIENCE (B. Sc.)

BRANCH V (A) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY – Shift I

Major Core Courses

Algae, Fungi and Lichens
Algae, Fungi and Lichens Practical
Bryophytes, Pteridophytes and
Gymnosperms
Bryophytes, Pteridophytes and
Gymnosperms Practical
Principles of Applied Biotechnology
Taxonomy of Angiosperms and Economic
Botany
Phytotherapy and Ethnobotany
Taxonomy of Angiosperms and Economic
Botany Practical
Anatomy and Embryology of Angiosperms
Anatomy and Embryology of
Angiosperms Practical
Cell and Molecular Biology
Microbiology
Ecology and Environmental Biotechnology
Cell and Molecular Biology, Microbiology,
Ecology and Environmental
Biotechnology Practical
Plant Physiology
Plant Biotechnology
Genetics, Plant Breeding and Evolution
Plant Physiology, Plant Biotechnology and
Genetic Engineering, Genetics Plant
Breeding and Evolution Practical

Allied Core Courses

General Zoology I & II
General Zoology I & II Practical
Fundamentals of Biochemistry I & II
Biochemistry Practical I & II

Major Elective Courses

Fruit Preservation and Nutrition
Project
Horticulture
Introduction to Bioinformatics
Biotechniques

Interdisciplinary Core Courses (BT and CH)

Bioanalytical Techniques

Independent Elective Courses

Agriculture
Forestry

BACHELOR OF SCIENCE (B. Sc.)

BRANCH VI (A) – ADVANCED ZOOLOGY AND BIOTECHNOLOGY – Shift I

Major Core Courses

Invertebrata
Invertebrata Practical
Chordata
Developmental Biology
Chordata and Developmental Biology
Practical
Animal Physiology
Evolution
Physiology and Evolution Practical
Microbiology
Microbiology Practical
Cell and Molecular Biology
Fundamentals of Biotechnology
Genetics
Cell and Molecular Biology, Biotechnology
and Genetics Practical
Animal Behaviour
Ecology
Immunology
Animal Behaviour, Ecology and
Immunology Practical

Allied Core Courses

Fundamentals of Biochemistry I & II
Biochemistry Practical I & II
General Botany I & II
General Botany I & II Practical

Interdisciplinary Core Courses (ZL and SC)

Introduction to Socioethnozoology

Independent Elective Courses

Fundamentals of Food Science
Introduction to Wildlife Biology

BACHELOR OF COMMERCE (B. Com.) Shift I

Major Core Courses

Financial Accounting
Principles and Practice of Management
Cost Accounting
Banking and Insurance Services
Legal Environment of Business
Financial Markets
Management Accounting
Investment Planning
Financial Management
Marketing
Company Law
Human Resource Management
Corporate Accounting
Income Tax Law and Practice
E-enterprise Management
Business Communication
Business Ethics and Social Responsibility
International Business
Entrepreneurial Development
Auditing

Allied Core Courses

Business Statistics
Computer Application in Finance
Business Economics
Mathematics for Commerce

Major Elective Courses

Business Environment
Retail Management
Advertising and Media Management
Equity Investment and Stock Trading
Supply Chain and Logistics Management

Interdisciplinary Core Course (CM and HS)

Tourism Marketing and Management

Independent Elective Courses

Direct Selling
Consumer Rights

BACHELOR OF ARTS (B. A.)

B.A. DEGREE-ENGLISH AND COMMUNICATION SKILLS - Shift II

Major Core Courses

Presentation Skills
Introduction to Prose and Poetry
Academic Writing
Introduction to Drama and Fiction
Writing for the Media
British Literature
Literary Criticism
Contemporary World Literature
English Language Teaching
Indian Literatures I
English for Advertising
Indian Literatures II
American Literature
Technical Writing

Allied Core Courses

Introduction to Subaltern Writing
Introduction to Linguistics
Literature and Ideas I
Literature and Ideas II

Major Elective Courses

World Classics in Translation
Literature of Asia
Project
Content and Copy Editing
Travel Writing

Interdisciplinary Core Courses(CE and PY)

Literature and Psychology

Independent Elective Courses

Novel of Courtship and Marriage
Poetry of the Romantic Age

BACHELOR OF SCIENCE (B. Sc.)

BRANCH I – MATHEMATICS - Shift II

Major Core Courses

Differential Calculus
Algebra and Trigonometry
Integral Calculus
Analytical Geometry
Elements of Graph Theory
Differential Equations
Sequence and Series
Discrete Mathematics
Vector Analysis and Applications
Algebraic Structures
Principles of Real Analysis
Integral Transforms
Vector Spaces and Linear Transformations
Principles of Complex Analysis
Principles of Mechanics

Major Elective Courses

Optimisation Techniques
Project
Elements of Space Science
Numerical Methods with Programs in C

Interdisciplinary Core Course Offered to Students of Mathematics by MT and CS departments

Mathematics through Scientific Software

Independent Elective Courses

Combinatorics

Allied Core Courses

Mathematical Statistics I & II

BACHELOR OF SCIENCE (B. Sc.)

PSYCHOLOGY – Shift II

Major Core Courses

General Psychology I & II
Biological Psychology I & II
Developmental Psychology I & II
Introduction to Research Methodology
Developmental Psychology II
Experimental Psychology
Abnormal Psychology I
Theories of Personality
Psychological Assessment
Abnormal Psychology II
Counselling Psychology
Rehabilitation Psychology

Major Elective Courses

Consumer Behaviour
Organisational Psychology
Applied Psychology
Foundations of Psychotherapy
Project

Interdisciplinary Core Course (PY and EL)

Literature and Psychology

Independent Elective Course

Psychology Classics
Personality Enrichment

Allied Core Courses

Social Psychology I & II
Statistics in Psychology
Health Psychology

BACHELOR OF COMMERCE (B. Com.) Shift II

Major Core Courses

Financial Accounting
Principles and Practice of Management
Cost Accounting
Banking and Insurance Services
Legal Environment of Business
Financial Markets
Management Accounting
Investment Planning
Financial Management
Marketing
Company Law
Human Resource Management
Corporate Accounting
Income Tax Law and Practice
E-Enterprise Management
Business Communication
Business Ethics and Social Responsibility
International Business
Entrepreneurial Development
Auditing

Allied Core Courses

Business Statistics
Computer Application in Finance
Business Economics
Mathematics for Commerce

Major Elective Courses

Business Environment
Indirect Taxation
Advertising and Media Management
Retail Management
Equity Investment and Stock Trading
Supply Chain and Logistics Management

Interdisciplinary Core Course (B.Com. General and A&F)

Social Finance and Impact Investing

Independent Elective Courses

Direct Selling
Consumer Rights

BACHELOR OF COMMERCE (B. Com. – CO)

CORPORATE SECRETARYSHIP – Shift II

Major Core Courses

Cost and Management Accounting
Organisation Structure and Management
Financial Accounting
Corporate Ethics and Governance
Economic and Commercial Law
Banking and Financial Services
Introduction to Financial Management
Essentials of Marketing
Corporate Law
Capital Markets
Industrial Law
Compliance Audit
Income Tax Practices
Corporate Accounting and Restructuring
Drafting and Conveyancing
Secretarial Practice
Goods and Services Tax
Social Security Laws
Due Diligence and Compliance Management
Internship

Allied Core Courses

Quantitative Techniques for Business
Business Analysis and Reporting using Computers
Information Technology and Systems Audit
Economic Environment of Business

Major Elective Courses

Industrial Regulations
Business Environment
Business Development
Cyber Law and Security
Commodities Market

Interdisciplinary Core Course (B.Com. CO and BBA)

Compensation Management

Independent Elective Courses

International Business

BACHELOR OF COMMERCE (B. Com. – A&F)

ACCOUNTING AND FINANCE – Shift II

Major Core Courses

Financial Reporting and Analysis
Management Principles and Applications
Cost Concepts and Methods
Principles of Marketing
Financial Management
Tools for Managerial Decision Making
Business Law
Business Ethics and Corporate Governance
Corporate Accounting and Restructuring
Banking and Insurance
Corporate and Securities Law
Financial Communication
Individual Tax Assessment
Computer Aided Financial Analysis
Security Analysis and Portfolio Management
Investment Banking and Financial Services
Entrepreneurial Finance
Business Taxation
Auditing and Assurance
Introduction to Business Analytics

Allied Core Courses

Statistics for Business Decisions
Tools for Business Analytics
Money, Financial Markets and International Trade
Mathematics for Commerce

Major Elective Courses

Financial Risk Management
Business Tax Planning and Procedures
E-Commerce
Organisation and People Management
Financial Analysis and Business Valuation

Interdisciplinary Core Course (B.Com. General and A&F)

Social Finance and Impact Investing

Independent Elective Courses

Marketing of Financial Products

BACHELOR OF BUSINESS ADMINISTRATION (B. B. A.) Shift II

Major Core Courses

Accounting for Managers
Management Concepts
Cost Accounting
Marketing Management
Human Resource Management
Ethics, Governance and Sustainability
Financial Markets and Services
Retail Management
Workforce Behaviour
Introduction to Financial Management
Services Marketing
Business Etiquette and Presentation Skills
Performance Management
Business Taxation
New Venture Management
Leadership and Team Management
Industrial Relations Management
Total Quality Management
Global Business Management
Project Management

Allied Core Courses

Economic Applications for Managers
Business and its Legal Environment
Business Automation
Quantitative Techniques for Decision Making

Major Elective Courses

Training and Development
Change Management
Product and Brand Management
Customer Relationship Management
Family Business Management

Interdisciplinary Core Course (B.Com. CO and BBA)

Compensation Management

Interdisciplinary Core Course (BBA and BSW) to students of BSW

Creation, Management and Development of Social Enterprise

Independent Elective Courses

Production and Operations Management

Association of Chartered Certified Accountants (ACCA)

An option to acquire a professional qualification for students of Commerce Shift II

Stella Maris College has signed an MoU with the Association of Chartered Certified Accountants (ACCA), which will enable undergraduate students of the Department of Commerce to acquire the ACCA qualification in addition to their B. Com. degree.

The course will be delivered through industry professionals on campus. The students, on completion of their B. Com. Degree, will also receive a B.Sc. in Accounting from Oxford Brookes University, UK.

COACHING FOR ICAI – CPT

Coaching for the Chartered Accountancy course is offered to the students of the Department of Commerce Shift II. The classes are conducted on campus by renowned practising Chartered Accounts of ICAI (Institute of Chartered Accountants of India).

BACHELOR OF COMPUTER APPLICATIONS (B. C. A.) Shift II

Major Core Courses

Fundamentals of Computing
Digital Logic Fundamentals
Procedure Oriented Programming
Algorithms and Data Structures
Creative Web Designing
Essentials of Object Oriented Programming
Software Engineering and Testing
Creative Web Designing Practical
Object Oriented Programming Practical
Operating Systems
Fundamentals of Database Management Systems
Operating System Concepts Implementation
Database Management Systems Practical
Computer Networks
Data Science
Functional Web Development
Data Science Practical
Critical Analysis on an Advanced Technology
Security Concepts
Cloud Computing
Project

Allied Core Courses

Mathematics for Computer Science I & II
Entrepreneurship-New Venture Creation
Accounting for Business

Major Elective Courses

Advanced Java Programming
Visual Programming
Game Programming
Intelligent Systems
Internet of Things
Algorithm Design Techniques
Mobile App Development

Interdisciplinary Core Courses (CS and PY) to students of Computer Science

Human Computer Interaction

Independent Elective Courses

Computer Graphics
Computer Vision

BACHELOR OF SOCIAL WORK (B. S. W.) Shift II

Major Core Courses

Social Work Profession-History and Philosophy
Field Work I, II, III, IV, V & VI
Working with Individuals
Working with Groups
Alternate Media Skills in Social Work Practice
Social Work Methods II(Community Organisation and Social Action)
Rural Camp
Fields of Social Work
Generalist Practice in Social Work
Health Care and Services
Basic Research and Statistics for Social Work
Social Work Administration
Basic Counselling in Social Work Practice
Study Tour
Gender and Development-Issues and Concerns
Project
Block Placement

Allied Core Courses

Fundamentals of Sociology
Introduction to Psychology
Indian Economy and Development Issues
Human Rights, Social Justice and Advocacy

Major Elective Courses

Ecology, Development and Social Work Intervention
Social Work Intervention in Disaster Management
Disability and Social Work Practice
Food and Nutrition

Interdisciplinary Core Courses Offered by SW and CM to students of B.S.W.

Creation, Management and Development of Social Enterprises

Independent Elective Courses

Leadership, Training and Development

B. Voc. DEGREE

SUSTAINABLE ENERGY MANAGEMENT – Shift II

Skills Component: Major Core Courses

Forms of Energy and Energy Crisis
Solar Energy
Fundamentals of Photovoltaics
Energy Conversion Techniques
Bioenergy
Waste Segregation and Management
Advanced Bioenergy
Biofuel Crops and Biofuels
Novel materials for Sustainability
Software Tools for Energy Analysis
Solar Power Plan Designing
Green Buildings and Passive Architecture
Entrepreneurial Initiatives
Green Management Urban and Rural
Scenario
Energy for Smart Cities
Project

Allied Core Courses

Energy Economics
Environment and Ecology
Microbial Fuel Cells

Major Elective Courses

Energy Management and Energy Audit
Conservation of Water resources:
Watershed Management

General Elective Courses

Electronic Documentation and
Presentation
Banking Practices

Extension Activity

Soft Skills

B. Voc. DEGREE

FOOD PROCESSING AND QUALITY CONTROL – Shift II

Skills Component: Major Core Courses

Food Microbiology with Laboratory Work
Technology of Fruits and Vegetables
Processing Hands-on Training
Bakery and Dairy Technology
Basic Principles of Food Processing and
Preservation
Dairy Processing
Food Analysis
Analytical Techniques in Food Quality
Assurance
Food Laws and Food Safety
Community Nutrition and Fortification of
Foods
Sensory Evaluation with Laboratory Work
Entrepreneurial Initiatives
Post-Harvest Technology
Food Safety and Management
Waste Management in Food Industry
Emerging Trends in Food Processing and
Technology
Project

Allied Core Courses

Food Hygiene and Sanitation
Principles of Basic Nutrition
Basic Dietetics

Major Elective Courses

Flavour Chemistry and Technology
Food Packaging

General Elective Courses

Diseases and Management
Banking Practices

Extension Activity

Soft Skills

B. Voc. DEGREE

TOURISM AND HOSPITALITY – Shift II (subject to approval by the University of Madras)

Skills Component: Major Core Courses

Introduction to Tourism
Travel Agency and Tour Operators
Front Office Management
Indian Heritage and Culture
Art and Architecture of India
Hospitality Management
Tourism and Cuisines
Public Relations for Tourism
Emerging Trends in Tourism
Tour Guiding and Travel Consultancy
Human Resource Management
Ticketing and Fare Construction
Global Tourism
Medical Tourism
Entrepreneurship in Tourism
Project/Dissertation

Allied Core Courses

Map Study
International Tourism Geography
Tourism Marketing

Major Elective Courses

Tourism and Law
Ecotourism and Sustainability
Advertising for Tourism Business/Basic
Tamil I
Travel Writing/Basic Tamil II

General Elective Courses

Soft Skills for Employability
Introduction to Computer Skills
Airport Customer Relations
Forex and Insurance

B. Voc. DEGREE

BANKING, FINANCIAL SERVICES AND INSURANCE – Shift II

(subject to approval by the University of Madras)

Skills Component: Major Core Courses

Functions and Services of Banks and Non-Banking Financial Corporations
Principles and Practices of Accounting
Legal and regulatory Framework of Banks and NBFCs
Retail, SME and Corporate Banking
Financial Services I & II
Microfinance
Indian Securities Market
Entrepreneurship Development Practical
Introduction to Financial Management
Tally ERP Practical
Stock Trading Simulation Practical
Principles of Insurance
Insurance Regulations
Practices of Life Insurance Practical
Introduction to GST
Risk Management
Health Insurance
Global Financial Services
Project

Allied Core Courses

Introduction to Economics
Basic Mathematics
Business Statistics
Office Management and Practices

General Elective Courses

Computer Basics/Basic Tamil I
Marketing of Financial Services/Basic
Tamil II

UNDERGRADUATE PROGRAMME – GENERAL ELECTIVE COURSES

History of Chennai City	Biology of Human Reproduction
Introduction to Indian Performing Arts and Painting	The Fascinating World of Insects
Appreciation of Indian Cinema	Fundamentals of Investment Planning
Fundamentals of the Indian Constitution	Customer Care and Protection
International Affairs Since 1945	Social Media Marketing
Sociology of Sports	Banking Practices
Sociology of Popular Culture	E-Filing of Tax Returns
Gender Studies	Fundamentals of Human Behaviour
Society and Media	Basic Skills in Counselling
Society and Law	Introduction to Social Behaviour
Economic Issues	Principles of Psychology
Money Matters	Gender and Sexuality
Public Policy	Psychology of Adolescence
Women and Work	Documentation and Compliance
Ecofeminism	Listing of Securities
Fiction and Film	Right to Information Act
The Graphic Novel	Company Secretarial Correspondence
Popular Culture	Stock Market Investment
English for Advertising	Computerised Accounting System
English for Competitive Examinations	New Venture Finance
Literature, Myth and Folktale	Personal Financial Planning
Recycled Art Practical	Team Dynamics
Creative Printing Practical	Corporate Etiquette
Fabric Art Practical	Cross Culture Management
Collage Practical	Media Management
Jewellery from Alternate Materials Practical	Computer Fundamentals
The Fascinating World of Mathematics	Image Editing and Animation
Celestial Wonders	Cyber Security
Automata	Documentation and Presentation
Basic Mathematics	Introduction to Data Analysis
Basic Principles of Physics	Migration Issues and Human Security
Home Electrical Installations	Marriage and Family Life Education
Energy Physics	UN Systems for Development and Social Change
Basics of Communication Systems	Human Rights and Justice Issues
Cosmetics and Personal Care	Conflict and Peace Building
Nutraceuticals and Health Care	Nattupurakkalai
Food Quality and Detection of Food Adulteration	Padaippilakkiam
Basic Nutritional Chemistry	Potti Thervu Tamil
Forensic Chemistry	Nadaga Tamil
Chemistry in Everyday Life	Medaipechu
Herbal Therapy	Basic Tamil I
Fruit Preservation	Basic Tamil II
Fundamentals of Horticulture	Hindi for Beginners
Waste Management	Spoken Hindi
Food Science	Sanskrit for Beginners
Floriculture	Stress Relieving Techniques in Sanskrit Literature
Pet Care	French for Beginners
Nutrition and Diet Therapy	French for Business
Genes, Diseases and Society	French for Tourism
	Spoken French

INTERDISCIPLINARY CORE

This is a course offered jointly by two departments and co-taught by faculty from both departments. The syllabus is designed jointly by both departments with equal weightage given to both disciplines, while also reflecting their inter-relatedness. Both Continuous Assessment and End-semester evaluation are done jointly by the faculty of the collaborating departments.

UNDERGRADUATE PROGRAMME

SOCIAL AWARENESS PROGRAMME/SERVICE LEARNING

The Social Awareness Programme is a two credit Student Training course which enables students as growing individuals to become aware of and respond to the needs of others. It trains them to become responsible citizens. The programme ensures that theoretical inputs are supplemented by action-based initiatives aimed at encouraging students to become active agents of social change. It combines theory with awareness-building through community visits.

Service-Learning (SL) is a course-based experiential learning course that engages students in service to the community as an integrated aspect of a course. Students participate in an organised service activity and reflect to gain further understanding of course content, and a broader appreciation of the academic discipline.

VALUE EDUCATION

Christian Perspectives

Catholic Faith Formation I & II

Scripture Study I & II

Ethics

Values in Personal Life

Society and Peace Initiatives

Life Skills: An Approach to a Holistic Way of Life

MASTER OF ARTS (M. A.)

BRANCH III – ECONOMICS – Shift I

Core Courses

Microeconomic Analysis I & II
Monetary Economics
Development Economics
Research Methods and Analysis I & II
Indian Economic Development
Soft Skills
Macroeconomics I & II
Public Economics
Environmental Economics
Econometric Methods I & II
International Trade
Dissertation

Elective Courses Offered to Students of Parent Department

Mathematics for Economics
Advanced Managerial Economics
Agriculture Economics
Economics of Education and Health
Industrial Economics
Economic Thought

Elective Courses Offered to Students of Other Departments

Contemporary Economic Issues
Introduction to Economics
Economics for Business and Marketing
Introduction to Data Analysis

Summer Internship

Independent Elective Courses

Financial Institutions & Markets in India
Gender Economics

MASTER OF ARTS (M. A.)

BRANCH VII – ENGLISH – Shift I

Core Courses

Literature of the British Isles I
American Literature: Modernism and After
Literature and Subalternity
Gender Studies
Literature of the British Isles II
Literature and Mysticism
Contemporary Critical Theory I
Soft Skills
Postcolonial Studies
Literature and Ecology
Indian Literatures I
Contemporary Critical Theory II
Linguistics
Shakespeare
Indian Literatures II
Dissertation

Elective Courses Offered to Students of Parent Department

Detective Fiction
Technical Writing
English Language Teaching
Children's Literature
Creative Writing
New Fiction and the Contemporary World
Reading Films

Elective Courses Offered to Students of Other Departments

English for Communication
Literature and Spirituality
Literature, Myth and Folklore
Fantasy Fiction

Summer Internship

Independent Elective Courses

Literature and Science
Popular Fiction

MASTER OF ARTS (M. A.)

BRANCH X – HISTORY OF FINE ARTS – Shift I

Core Courses

Arts and Ideas Indian
Arts and Ideas Western
Drawing Practical
Fundamentals of Design Practical
Design for Textiles Practical
Publishing Design Practical
Photography Practical
Soft Skills
Crafts in India
Textile Embellishment Practical
Communication Design I & II Practical
Dissertation
Visual Culture
Textile Printing Practical

Elective Courses Offered to Students of Parent Department

Painting Practical
Media Exploration Practical
Critical Writing
Research Methodology
Book Illustration Practical
Digital Illustration Practical

Elective Courses Offered to Students of Other Departments

Creative Design Practical
Paper Art Practical

Summer Internship

Independent Elective Courses

Fundamentals of Fashion Management
Indian Miniature Painting

MASTER OF SOCIAL WORK (M. S. W.) Shift I

Core Courses

Social Work Profession
Social Work with Individuals
Social Work with Groups
Field Work I, II, III & IV
Alternative Media Skills Workshop
Community Organisation and Social Action
Social Work Research and Statistics
Management of Organizations
Social Work for Peace Building and Conflict-Transformation
Health Information and Community Workshop
Medical Social Work
Development planning and Administration
Social Work with Children
Mental Disorders and Psychiatric Social Work
Social Entrepreneurship
Family Social Work
Dissertation
Counselling Theory and Practice
Social Work with Persons with Disability
Community Development Urban and Rural Youth Development
Mental Healthcare Approaches and Practice
Participatory Governance and Development Tools
Gerontological Social Work

Elective Courses Offered to Students of Parent Department

Fundamentals of Sociology
Fundamentals of Psychology
Human Rights and Social Work
Gender and Social Work Practice
Environmental Social work
Social Work with Addictive Behaviour
Disaster Management
Corporate Social Responsibility
Social Audit

Elective Courses Offered to Students of Other Departments

Indian Constitution and Human Rights

Internship

Block Placement

Independent Elective Courses

Displacement, Migration and Refugee Issues
Qualitative Research

MASTER OF SCIENCE (M. Sc.)

BRANCH I – MATHEMATICS – Shift I

Core Courses

Abstract Algebra
Real Analysis
Graph Theory
Ordinary Differential Equations
Linear Algebra
Measure Theory and Integration
Topology
Soft Skills
Partial Differential Equation
Functional Analysis
Probability and Stochastic Processes
Research Methods and Tools
Complex Analysis
Differential Geometry
Continuum and Fluid Mechanics
Dissertation

Elective Courses Offered to Students of Parent Department

Number Theory and Cryptography
Calculus of variation and Integral Equations
Analysis of Algorithms
Fuzzy Set Theory and Applications
Mechanics
Mathematical Statistics

Elective Courses Offered to Students of Other Departments

Essentials of Discrete Mathematics
Elements of Applicable Mathematics

Summer Internship

Independent Elective Course

Mathematical Modeling

MASTER OF ARTS (M. A.)

PUBLIC RELATIONS – Shift II

Core Courses

Fundamentals of Public Relations
Community Relations
Interpersonal and Group Communication
Marketing Management in Public Relations
Corporate Public Relations
Customer Relations
Public Relations Agency Services
Soft Skills
Public Relations in the Service Sector
Employee Relations
Mass Communication
Research Methodology for Public Relations
Public Relations in the Government Sector
Writing for Media
Public Relations Campaign Management
Dissertation

Elective Courses Offered to Students of Parent Department

Event Management
Advertising in Public Relations
Media Management
Human Resource Perspectives in PR
Digital Public Relations
Communication Tools for PR
Creative Public Relations

Elective Courses Offered to Students of Other Departments

Introduction to Public Relations
Digital Marketing
Public Relations Skills

Summer Internship

Independent Elective Course

Global Public Relations
Digital Communication

MASTER OF ARTS (M. A.)

INTERNATIONAL STUDIES – Shift II

Core Courses

International History (1648-1945)
International Relations Since 1945
International Security
International Political Economy
Theories of International Relations
International Law I & II
India's Foreign Policy
Research Methodology
Soft Skills
International Organisations
American Foreign Policy
Human Rights
Introduction to Peace and Conflict studies
Government and Politics of China
Dissertation

Elective Courses Offered to Students of Parent Department

International Terrorism
Globalisation
Latin American: Polity, Economy and Society
Contemporary issues of the Middle East
The International Order in the Asia Pacific
Introduction to Political Thought
Government and Politics of South Asia

Elective Courses Offered to Students of Other Departments

Global Environment and Policy Issues
Politics, Society and Cinema
Indian Polity and Politics for Competitive Exams

Summer Internship

Independent Elective Courses

Ethnicity, Culture and International Relations
Third World Development and Challenges

MASTER OF COMMERCE (M. Com.) Shift II

Core Courses

Accounting for Managerial Decisions
Global Business Environment
Financial Markets and Institutions
Managerial Economics
Organisational Theory and Behaviour
Business Research
Marketing Management
Project Management
Soft Skills
Corporate Taxation
Advanced Corporate Accounting
Management of Transformation
Strategic Financial Management
Financial Planning
Retail Marketing
Dissertation

Elective Courses Offered to Students of Parent Department

Advertising Management
Customer Relationship Management
Business Data Analysis
Security Analysis and Portfolio Management
Training and development
Services Marketing
Regulatory Aspects of Business

Elective Courses Offered to Students of Other Departments

Entrepreneurship and Family Business
Human Resource Management

Summer Internship

Independent Elective Courses

Retail Banking

MASTER OF SCIENCE (M. Sc.)

BRANCH IV – CHEMISTRY – Shift II

Core Courses

Organic Chemistry I & II
Advanced Physical Chemistry
Structural Inorganic Chemistry
Inorganic Qualitative and Quantitative
Analysis Practical
Quantum Chemistry and Group Theory
Organic Separation and Analysis Practical
Soft Skills
Synthetic Organic Chemistry and Natural
Products
Molecular Spectroscopy
Coordination Chemistry
Physical Chemistry Practical
Analytical Instrumentation Practical
Analytical Instrumentation
Organic Synthesis and Purification Practical
Dissertation

**Elective Courses Offered to Students
of Parent Department**

Research Methodology
Industrial Waste Management
Polymer Materials and Applications
Biochemistry
Phytochemistry
Nanochemistry

**Elective Courses Offered to Students
of Other Departments**

Medicines and Health Care
Food Chemistry and Nutrition

Summer Internship

Independent Elective Courses

Introduction to Forensic Chemistry
Chemistry of Natural Products

MASTER OF SCIENCE (M. Sc.)

BIOTECHNOLOGY – Shift II

Core Courses

Biochemistry
Molecular Biology
Microbiology
Biochemistry and Molecular Biology
Practical
Microbiology Practical
Agricultural Biotechnology
Animal Biotechnology
Recombinant DNA Technology
Agricultural and Animal Biotechnology
Practical
Recombinant DNA Technology Practical
Soft Skills
Bioprocess and Fermentation Technology
Environmental Biotechnology
Immunotechnology Practical
Bioprocess and Environmental Biotechnology
Practical
Food and Pharmaceutical Biotechnology
Dissertation

**Elective Courses Offered to Students
of Parent Department**

Research Methodology and Biostatistics
Bioinstrumentation
Bio-nanotechnology
IPR, Biosafety, Bioethics and
Entrepreneurship
Applications of Stem-Cell and Tissue
Engineering
Human Physiology
Marine Biotechnology

**Elective Courses Offered to Students
of Other Departments**

Applications of Biotechnology
Human Genetics
Human Diseases

Summer Internship

Independent Elective Courses

Molecular Oncology
Virology

MASTER OF SCIENCE (M. Sc.)

BIOINFORMATICS – Shift II

Core Courses

Cell and Molecular Biology Theory & Practical
Essentials of Bioinformatics
Programming in C++ and Perl
Database Management Systems
Algorithms for Bioinformatics
Genomics and Proteomics
Soft Skills
Python and R Programming Theory & Practical
Big Data Analysis Theory & Practical
Molecular Modeling and Computer Aided
Drug Design Theory & Practical
Advances in Bioinformatics Theory & Practical
Research Methodology
Dissertation

Elective Courses Offered to Students of Parent Department

Biochemistry and Biophysics
Cheminformatics
Basics of Clinical Research Management
Biomathematics and Biostatistics
Data Mining
IPR and Patents
Immunoinformatics

Elective Courses Offered to Students of Other Departments

Introduction to Bioinformatics
Applications of Bioinformatics
Computer-Aided Drug Design

Summer Internship

Independent Elective Courses

Pharmacogenomics
Systems Biology

MASTER OF SCIENCE (M. Sc.)

INFORMATION TECHNOLOGY – Shift II

Core Courses

Algorithms and Data Structures
Database Management Systems
Advanced Programming with C
Formal Languages and Finite Automata
Object Oriented Programming with Java
Operating Systems
Object Oriented System Development
Network Management and Administration
Visual Programming
Advanced Java Programming
Research Methodology
PHP with Linux
Software Quality Assurance and Testing
Project

Elective Courses Offered to Students of Parent Department

Web Designing
Game Programming
Security Issues in Information Technology
Computer Architecture
Mobile Computing and App Development
Big Data Analytics Using R

Elective Courses Offered to Students of Other Departments

Advanced Office Tools
Multimedia
E-Commerce and Content Management System

Summer Internship

Independent Elective Courses

Emerging Trends in Information Technology
Green Computing
Pervasive Computing

MASTER OF SCIENCE (M. Sc.)

BRANCH III PHYSICS – Shift II (subject to approval by the University of Madras)

Core Courses

Mathematical Physics I & II
Statistical Mechanics
Electronics I & II
Experimental Physics I, II & III
Classical Mechanics
Quantum Mechanics I & II
Solid State Physics
Electrodynamics
Nuclear and Elementary Particle Physics
Dissertation

Elective Courses Offered to Students of Parent Department

Crystal Physics
Reactor Physics
Material Physics and Nanoscience
Medical Physics and Ultrasonics
Astrophysics
Geophysics
Spectroscopy

Elective Courses Offered to Students of Other Departments

Everyday Physics
Electrical Installations
Energy Physics

Summer Internship

Independent Elective Courses

Digital Communication
Data Communication and Computer Networks

POSTGRADUATE DIPLOMA IN COMPUTER SCIENCE (PGDCS)

Programming with Python
Operating Systems: Concepts and Applications
Software Engineering
Research Methodology
Data Analytics
Design Thinking

Object Oriented Programming
Cloud Computing: Theory and Practice
Database Management Systems
Critical Analysis on an Advanced Technology
Dissertation

POSTGRADUATE PROGRAMME

SOCIAL AWARENESS PROGRAMME/SERVICE LEARNING

The Social Awareness Programme is a two credit Student Training course which enables students as growing individuals to become aware of and respond to the needs of others. It strains them to become responsible citizens. The programme ensures that theoretical inputs are supplemented by action-based initiatives aimed at encouraging students to become active agents of social change. It combines theory with awareness-building through community visits.

Service-Learning (SL) is a course-based experiential learning course that engages students in service to the community as an integrated aspect of a course. Students participate in an organised service activity and reflect to gain further understanding of course content, and a broader appreciation of the academic discipline.

VALUE EDUCATION

Christian Perspectives

Christian Living
Women and Christian Living

Ethics

Holistic Development of Personality
Women in Family and Society

M.Phil. PROGRAMMES

ECONOMICS

Core Courses

Research Methodology
Advanced Economic Theory
Human Resource Development
Dissertation

HISTORY OF FINE ARTS

Core Courses

Art History and its Methods
Theories in Art
Methodology of Art Research
Dissertation

ENGLISH

Core Courses

Indian Literature: Texts and Contexts
Contemporary World Literature: Texts and Contexts
Area of Research
Dissertation

MATHEMATICS

Core Courses

Advanced Algebra and Analysis
Advanced Topology and Geometry
Dissertation

Optional Courses

Advanced Algebraic Structures
Fuzzy Set Theory, Fuzzy Logic and Applications
Advanced topics in Graph Theory
Advanced topics in Functional Analysis

SOCIAL WORK

Core Courses

Research Methodology for Social Work
Advanced Social Work Theory, Training and Practice
Social Work Practicum
Dissertation

ADMISSION PROCEDURE

1. Application forms for admission to the B. A./B. Sc./B. Com./B. Com. (CS)/ B. Com. (A&F)/ B. B. A./B. C. A. /B. V. A./ B. S. W./B. Voc. and M. A./M. Sc./M. Com./M. S. W./M. Phil./Ph. D./PGDCS/Diploma programmes can be accessed online at www.stellamariscollege.edu.in
2. Online applications for all programmes will be uploaded on the College website on 8 April 2019.
3. The admission procedure for all undergraduate programmes will begin after the publication of the Higher Secondary Examination results; the postgraduate admissions will begin subsequently.
4. Information regarding interviews for provisionally selected applicants for all programmes will be sent by e-mail and SMS and updated on the College website.
5. Applicants should produce all original mark statements and certificates at the time of interview.
6. Admission status will be posted on the College website after 8:00 p.m. on the day of interview.
7. Requests for deferring the date of interview will not be considered.
8. No information will be sent to applicants who have not been selected for the interview.
9. Selected applicants must pay the prescribed semester fees and submit original and two attested photocopies of the following documents:

Applicants for undergraduate programmes:

- a. STD X Statement of Marks or Equivalent Certificate
- b. STD XII Statement of Marks or Equivalent Certificate
- c. Pass Certificate (CBSE/ISC/others)
- d. Diploma Certificate (if available) for international applicants
- e. Transfer Certificate and Conduct Certificate
- f. Community Certificate in the case of MBC/OBC/DNC/BC/SC/ST
- g. Certificate of proof for the differently abled/for those applying in the NCC/Sports quota and for daughters of ex-servicemen.
- h. Baptism Certificate and letter from Parish Priest for Catholic applicants.
- i. Applicants from Boards other than TNHSC/CBSE/ISC (**within/outside India**) should also furnish the Eligibility Certificate from the University of Madras.
- j. Blood Group Certificate.

Note: At the time of admission students of other Boards (**within/outside India**) should also furnish the Provisional Eligibility Certificate from the University of Madras.

The name of the applicant and date of birth on the application form should be identical with that in the Standard X certificate. No correction or overwriting is permitted without attestation of the proper authority.

Applicants for postgraduate programmes:

- a. STD X Statement of Marks or Equivalent Certificate
- b. STD XII Statement of Marks or Equivalent Certificate
- c. Pass Certificate (CBSE/ISC/others)
- d. Diploma Certificate (if available) for international applicants
- e. Statement of Marks (semester/year) of undergraduate programme of study
- f. Consolidated Statement of Marks or Cumulative Marks Statement of the undergraduate programme (in the case of applicants from Autonomous Colleges)
- g. Undergraduate Degree/Provisional Certificate issued by the University
- h. Transfer Certificate and Conduct Certificate
- i. Community Certificate in the case of MBC/OBC/DNC/BC/SC/ST
- j. Certificate of proof for the differently abled and for daughters of ex-servicemen.
- k. Baptism Certificate and letter from Parish Priest for Catholic applicants.
- l. Eligibility Certificate from the University of Madras (for applicants who have passed their qualifying examinations from other Universities).
- m. Blood Group Certificate

Applicants for M. A. Public Relations and M. S. W. Programme:

Applicants should submit photocopies of the following:

- a. Additional certificates or diplomas obtained
- b. Prizes/participation certificates in seminars, workshops, competitions, and extracurricular activities like NSS, NCC, games and others
- c. Volunteer activities, social services, field work or any other
- d. Project reports, research reports, and paper presentations

All the above achievements will be considered and given weightage during the selection process.

Applicants for M.Phil. Programmes:

- a. STD X Statement of Marks or Equivalent Certificate
- b. STD XII Statement of Marks or Equivalent Certificate
- c. Pass Certificate (CBSE/ISC/others)
- d. Diploma Certificate (if available) for international applicants
- e. Statement of Marks (semester/year) of postgraduate programme of study
- f. Consolidated Statement of Marks or Cumulative Marks Statement of the postgraduate programme (in the case of applicants from Autonomous Colleges)
- g. Postgraduate Degree/Provisional Certificate issued by the University
- h. Transfer Certificate and Conduct Certificate
- i. Community Certificate in the case of MBC/OBC/DNC/BC/SC/ST
- j. Certificate of proof for the differently abled and for daughters of ex-servicemen.
- k. Baptism Certificate and letter from Parish Priest for Catholic applicants.
- l. Eligibility Certificate from the University of Madras (for applicants who have passed their qualifying examinations from other Universities).
- m. Blood Group Certificate

For the attention of International Applicants:

International applicants should produce a valid Passport and VISA/Refugee Certificate/OCI with two sets of attested copies of the same, at the time of admission.

Note: All applicants are informed that the original Transfer and Conduct Certificates produced at the time of admission will not be returned under any circumstances.

Checklist for Online Submission

1. Online application form
2. Scanned signature of applicant and parent**
3. Scanned photograph of applicant**
4. If Catholic, scanned copy of the Baptism Certificate**
5. Community Certificate (except Other Categories)
6. Attested copy of Higher Secondary Statement of Marks
7. Attested copies of all available Semester Marksheets converted into a single PDF file.

****within the size indicated on the application form**

HOSTEL

A limited number of seats are available in the hostels. Applicants are informed that hostel applications should be submitted **along with the College application form**. Admission to the College does not guarantee admission to the College hostel. Preference will be given to Catholic applicants from Madras-Mylapore Diocese.

Note to Parents

- **Parents and guardians are informed that the College does not accept donations for admission directly or indirectly. Any malpractice in this regard may be brought to the notice of the Principal immediately.**
- **Dress Code:** Students are expected to wear simple and modest clothes. Students are permitted to wear a saree, salwar kameez, or full length jeans with kurtas. Sleeveless attire and T-shirts are not permitted.
- Students are not permitted to participate in fashion shows, stage shows or modelling.
- Students are not permitted to participate in talk shows and any other public performance without prior permission of the Principal.
- **Cell Phones:** Use of cell phones is banned on campus. Violation of this rule will result in confiscation of the phone and a fine being levied.

Anti-Ragging: UGC REGULATIONS

In accordance with UGC norms, ragging in any form is strictly forbidden. A student found guilty of ragging will face cancellation of admission/suspension from the College/hostel and a fine of Rs. 25,000/ to 1 Lakh will be levied.

All communication should be addressed to:

**The Principal,
Stella Maris College,
17, Cathedral Road,
Chennai – 600 086.**

Please quote the application number for further reference.