



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - TAMILNADU



PROSPECTUS 2020-2021

- 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 charisma, 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 25 undergraduate and 14 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: 1:00 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. Com	Honours		Commerce/Business Studies, Accountancy, Mathematics/Business Mathematics
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.	Sustainable Energy Management (Timing: 10:00 a.m. to 4:00 p.m.)		Any group in Higher Secondary/ Vocational Stream
B. Voc.	Food Processing and Quality Control (Timing: 10:00 a.m. to 4:00 p.m.)		Any group in Higher Secondary/ Vocational Stream
B. Voc.	Tourism and Hospitality (Timing: 7:50 a.m. to 12:50 p.m.)		Any group in Higher Secondary/ Vocational Stream
B. Voc.	Banking, Financial Services and Insurance		Any group in Higher Secondary/ Vocational Stream
Certificate Course	English Language and Life Skills	1 year/ 2 semesters	A pass in Higher Secondary/Graduates whose medium of instruction was a language other than English

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: 1:00 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.A.	Human Resource Management		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.	Physics		B.Sc. Physics (or) any undergraduate Science Degree recognised by the University of Madras
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

- Major Core Courses
- Allied Core Courses
- Major Elective Courses
- Interdisciplinary Core Courses

Part IV

- General Elective Courses (refer to pg. 21)
- Value Education (refer to pg.22)
- Environmental Studies
- Soft Skills (refer to pg.22)
- Value Added Courses (Optional)

Part V

- Student Training Programmes
NSS/NCC /Games /Youth Red Cross
- Social Awareness Programme/
Service Learning (refer to 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 of two credits each in Basic Tamil over two semesters.

Students who have studied Tamil up to Standard X/XII and have not taken Tamil in Part I are required to take two courses of two credits each in Advanced Tamil over two semesters.

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

A student must complete a minimum of 180 credits for a B. Voc.degree.

The B. Voc. programme has the following components:

Part I Foundation Course in Language
Tamil/French

Part II Foundation Course in English

Part III

- Non-Major Electives (General Electives)
- Environmental Studies
- Value Education
- Extension Activity
- Soft Skills

Part IV Skills Component

- Core Courses
- Allied Core
- Allied Elective
- Project

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 an M.A./M.Sc./M.Com Degree and 98 credits for an M.S.W. Degree. The postgraduate programmes have the following components:

- Core Courses
- Elective Courses
- Value Education (refer to pg. 30)
- Soft Skills
- Social Awareness Programme (refer to pg. 30)
- Internship

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 (1871-1945)
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
Tourism and Cuisines
Airport Customer Services
Entrepreneurship in the Tourism Industry
Project

Interdisciplinary Core Course (HS and CM)

Tourism Marketing and Management

Independent Elective Courses

History of South East Asia since 1945
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

Major Elective Courses

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

Interdisciplinary Core Course (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 and Economic Analysis
Public Policy
International Economics
History of Economic Thought
Data Analytics using 'R'

Allied Core Courses

Statistics for Economics
Mathematical Methods for Economics
Women, Work and Economics
Introductory Econometrics

Major Elective Courses

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

Interdisciplinary Core Course (EC and PH)

Renewable Energy and Energy Economics

Independent Elective Courses

Managerial Economics
Nobel Laureates in Economics

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 Craft and Folk Art 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

Allied Core Courses

Mathematical Statistics I & II
Physics for Mathematics I & II
Physics Practical I & II

Major Elective Courses

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

Interdisciplinary Core Course offered to Mathematics and Computer Science

Mathematics through Scientific Software

Independent Elective Course

Combinatorics

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
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
Spectroscopy
Project

Interdisciplinary Core Course offered to Physics and Economics

Renewable Energy and Energy Economics

Independent Elective Courses

Geophysics
Astrophysics

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 Course offered to Chemistry and Botany

Bioanalytical Techniques

Independent Elective Courses

Industrial Chemistry
Drugs and Diseases

Allied Core Courses

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

BACHELOR OF SCIENCE (B. Sc.)

BRANCH V (A) – PLANTBIOLOGY 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
Basics 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
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 Course offered to Botany and Chemistry

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

Allied Core Courses

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

Major Elective

Applied Zoology
Medical Laboratory Technology
Environmental Biotechnology
Introduction to Marine Biology
Project

Interdisciplinary Core Course offered to Zoology and Sociology

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

Interdisciplinary Core Course offered to Commerce and History

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
Literature and Gender

Major Elective Courses

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

Interdisciplinary Core Course offered to English & Communication Skills and Psychology

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 Mathematics

Mathematics through Scientific Software

Independent Elective Course

Combinatorics

Allied Core Courses

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

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
Experimental Psychology Practical
Abnormal Psychology I & II
Theories of Personality
Psychological Assessment
Counselling Psychology
Rehabilitation Psychology

Major Elective Courses

Consumer Psychology
Organisational Psychology
Theories of Personality
Foundations of Psychotherapy
Project

Interdisciplinary Core Course Offered to Psychology and English and Communication Skills

Literature and Psychology

Allied Core Courses

Social Psychology I & II
Statistics in Psychology
Health Psychology

Interdisciplinary Core Course Offered to Computer Science

Human Computer Interaction

Independent Elective Courses

Psychology Classics
Personality Enrichment

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 offered to 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 offered to B.Com. (CO) and BBA

Compensation Management

Independent Elective Course

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 offered to
B.Com. General and A&F**

Social Finance and Impact Investing

Independent Elective Course

Marketing of Financial Products

BACHELOR OF COMMERCE (B. Com. – Honours)

B.Com. Honours – Shift II

Major Core Courses

Financial Accounting Concepts
Commercial Law
Statistics For Business
Management and its Dimensions
Financial Accounting
Corporate Law
Cost Accounting
Banking and Financial Services
Principles of Marketing
Auditing and Assurance
Cost Accounting Techniques
Financial Management
Corporate Governance
Insurance and Risk Management
Direct Taxation
Strategic Management Concepts
Computer Applications in Business
Management Accounting
Corporate Accounting
Performance Management
Business Policy and Environment
Research Methodology
Strategic Management Dynamics
Investment Appraisal
Indirect Taxation
Corporate Reporting
Business Valuation and Restructuring
Entrepreneurship
Project
Internship

Allied Core Courses

Business Economics
Mathematics for Business

Independent Elective Course

Foreign trade and Investment
Advertising and Public Relations

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 offered to B.Com. (CO) and BBA

Compensation Management

Interdisciplinary Core Course offered to BBA and Social Work

Creation, Management and Development of Social Enterprise

Independent Elective Course

Production and Operations Management

ASSOCIATION OF CHARTERED CERTIFIED ACCOUNTANTS (ACCA)

An opportunity 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 enables undergraduate students of the Department of Commerce to acquire the ACCA qualification in addition to their B. Com. degree.

The course is 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).

COACHING FOR CMA

The Certified Management Accounts (CMA) is an advanced professional course offered by the Department of Commerce (Shift II) in collaboration with IMA (Institute of Management Accountants) and ISDC (International Skill Development Corporation). The IMA certificate is recognised globally.

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 for Android

Interdisciplinary Core Course offered to Computer Science and Psychology

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
Alternative Media Skills in Social Work Practice
Working with Communities 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
Mini Research Project on Social Issues
Block Placement

Allied Core Courses

Introduction to 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 Course Offered to students of B.S.W.

Creation, Management and Development of Social Enterprises

Independent Elective Course

Leadership Development Training

B. Voc. DEGREE

SUSTAINABLE ENERGY MANAGEMENT – Shift II

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

Vocational Elective Courses

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

General Elective Courses

Electronic Documentation and
Presentation
Banking Practices
Basic Tamil I & II

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

Vocational Elective Courses

Flavour Chemistry and Technology
Food Packaging

General Elective Courses

Diseases and Management
Banking Practices
Basic Tamil I & II

Extension Activity

Soft Skills

B. Voc. DEGREE

TOURISM AND HOSPITALITY– Shift II

Skills Component: Major Core Courses

Introduction to Tourism
Travel Agency and Tour Operators
Management
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
Air Ticketing and Fare Construction
Global Tourism
Medical Tourism
Entrepreneurship in Tourism
Project/Dissertation

Allied Core Courses

Map Study
International Tourism Geography
Tourism Marketing

Vocational Elective Courses

Advertising for Tourism Business
Travel Writing
Tourism Law
Ecotourism and Sustainability

General Elective Courses

Soft Skills for Employability
Introduction to Computer Skills
Airport Customer Relations
Basic Tamil I & II

B. Voc. DEGREE

BANKING, FINANCIAL SERVICES AND INSURANCE– Shift II

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, Corporate and SME Banking
Financial Services I & II
Microfinance
Indian Securities Market
Marketing of Financial Services
Introduction to Financial Management
Financial Planning
Stock Trading Simulation
Principles of Insurance
Insurance Regulations
Practices of Life Insurance
Taxation
Risk Management
Health Insurance
Human Resource Management
Project

Allied Core Courses

Office Management and Practices
Accounting Software

Vocational Elective Courses

Entrepreneurial Development
Business Ethics
Business statistics
Customer Relationship Management

UNDERGRADUATE PROGRAMME – GENERAL ELECTIVE COURSES

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

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.

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 and 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 an experiential learning-based 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

Catholic Doctrine

Catholic Faith Formation I & II

Ethics

Values in Personal Life

Society and Peace Initiatives

Life Skills for Holistic way of Life

Scripture Studies

Scripture Study I & II

SOFT SKILLS

Students are required to take four soft skills courses of three credits each across different semesters. These courses equip students with life skills such as Personality Development, Basic Computer Skills, Personal Skills and Social Skills. They also enhance students' awareness of responsible citizenship, provide information on some important legal rights, give an understanding of food and energy balance and energy conservation. The soft skills courses in short are aimed at helping students grow spiritually and adopt 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
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
Agricultural 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 Analytics

Soft Skills

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
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

Soft Skills

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
Crafts in India
Textile Embellishment Practical
Communication Design I Practical
Dissertation
Visual Culture
Textile Printing Practical
Communication Design II 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

Soft Skills

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 Development Organisations
Social Work for Peace Building and Conflict-Transformation
Health Information and Communication Workshop
Medical Social Work
Mental Disorders and Psychiatric Social Work
Development Planning and Administration
Social Entrepreneurship
Social Work with Children
Family Social Work
Dissertation
Counselling Theory and Practice
Social Work with Persons with Disability
Mental Healthcare Approaches and Practice
Community Development – Urban and Rural
Participatory Governance and Development Tools
Youth Development
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 Course Offered to Students of Other Departments

Indian Constitution and Human Rights

Internship

Block Placement (or Block Field Work)

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
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

Soft Skills

Summer Internship

Independent Elective Course

Mathematical Modelling

MASTER OF ARTS (M. A.)

PUBLIC RELATIONS – Shift II

Core Courses

Fundamentals of Public Relations
Community Relations
Inter-personal and Group Communication
Marketing Management in Public Relations
Corporate Public Relations
Customer Relations
Public Relations Agency Services
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 Public Relations
Digital Public Relations
Communication Tools for Public Relations
Creative Public Relations

Elective Courses Offered to Students of Other Departments

Introduction to Public Relations
Digital Marketing
Public Relations Skills

Soft Skills

Summer Internship

Independent Elective Courses

Digital Communication
Global Public Relations

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
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
Government and Politics of South Asia
Introduction to Political Thought

Elective Courses Offered to Students of Other Departments

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

Soft Skills

Summer Internship

Independent Elective Courses

Ethnicity, Culture and International Relations
Third World Development and Challenges

MASTER OF ARTS (M. A.)

HUMAN RESOURCE MANAGEMENT – Shift II

Core Courses

Human Resource Development
Organisational Behaviour
Financial Concepts
Labour Legislations
Human Resource Management
Organisational Management
Research and Statistics
Employee Welfare and Industrial Relations
Compensation Management and Social Security
Strategic Human Resource Management
Managerial Counselling
Global Human Resource Practices
Corporate Social Responsibility
Diversity Management
Dissertation

Elective Courses Offered to Students of Parent Department

Performance Appraisal
Occupational Health and Safety
Entrepreneurship Development
Women and Workspace
Consumer Rights and Behaviour
Micro Finance Management
Health Service Management

Elective Courses Offered to Students of Other Departments

Management of Development Organisations
Indian Constitution and Labour Welfare
Designing Organisations for Innovations

Summer Internship

Independent Elective Courses

Qualitative Research
Psychology and Structure of Organisation

MASTER OF COMMERCE (M. Com.) – Shift II

Core Courses

Accounting for Decision Making
Global Business Environment
Managerial Economics
Organisational Theory and Behaviour
Business Research
Marketing Management
Project Management
Financial Markets and Institutions
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
Service Marketing
Regulatory Aspects of Business

Elective Courses Offered to Students of Other Departments

Entrepreneurship and Family Business
Human Resource Management

Soft Skills

Summer Internship

Independent Elective Course

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
Research Methodology
Molecular Spectroscopy
Coordination Chemistry
Physical Chemistry Practical
Analytical Instrumentation Practical
Synthetic Organic Chemistry and Natural Products
Organic Synthesis and Purification Practical
Dissertation

Elective Courses Offered to Students of Parent Department

Analytical Instrumentation
Industrial Waste Management
Polymer Materials and Applications
Essentials of Biochemistry
Corrosion and its prevention
Phytochemistry
Nanochemistry

Elective Courses Offered to Students of Other Departments

Medicines and Health Care
Cosmetics and herbal products
Food Chemistry and Nutrition

Soft Skills

Summer Internship

Independent Elective Courses

Introduction to Forensic Chemistry
Chemistry of Natural Products

MASTER OF SCIENCE (M. Sc.)

BIOTECHNOLOGY – Shift II

Core Courses

Biochemistry
Microbiology
Molecular Biology and Recombinant DNA
Technology
Biochemistry and Microbiology
Practical
Molecular Biology Recombinant DNA
Technology Practical
Animal and Plant Biotechnology
Research Methodology
Animal and Plant Biotechnology
Practical
Immunotechnology
Bioprocess and Fermentation Technology
Environmental Biotechnology
Immunotechnology Practical
Bioprocess and Fermentation Technology and
Environmental Biotechnology Practical
Applications of Stem-Cell and Tissue
Engineering
Bio-nanotechnology
Dissertation

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

Food Biotechnology
Bioinstrumentation
Pharmaceutical Biotechnology
IPR, Biosafety, Bioethics and
Entrepreneurship
Enzyme Technology
Virology
Marine Biotechnology

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

Applications of Biotechnology
Human Genetics
Human Diseases and Management

Soft Skills

Summer Internship

Independent Elective Course

Molecular Oncology

MASTER OF SCIENCE (M. Sc.)

BIOINFORMATICS – Shift II

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

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

Cell Biology and Genetics
Biomathematics and Biostatistics
Data Mining
Immunoinformatics
Basics of Clinical Research Management
Cheminformatics
Biophysics

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

Introduction to Bioinformatics
Applications of Bioinformatics
Computer-Aided Drug Design

Soft Skills

Summer Internship

Independent Elective Courses

Pharmacogenomics
Systems Biology

MASTER OF SCIENCE (M. Sc.)

INFORMATION TECHNOLOGY – Shift II

Core Courses

Programming with Python
Discrete Mathematics for Computer Science
Software Engineering
Operating Systems – Concepts and Applications
Database Management Systems
Design and Analysis of Algorithms
Object Oriented Programming
Network Management and Administration
Research Methodology
Data Analytics
Artificial Intelligence
Formal Languages and Finite Automata
Cloud Computing – Theory and Practise
Dissertation

Elective Courses Offered to Students of Parent Department

UI,UX and Design Thinking
Cyber Security
Software Testing
Mobile Computing
Advanced Technologies
Visual Programming
Advanced Database Systems

Elective Courses Offered to Students of Other Departments

Documentation and Presentation
Emerging Trends in Information Technology
Multimedia
E-Commerce and Content Management Systems

Soft Skills

Summer Internship

Independent Elective Courses

Advanced Computer Graphics
Digital Image Processing

MASTER OF SCIENCE (M. Sc.)

BRANCH III PHYSICS – Shift II

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

Soft Skills

Summer Internship

Independent Elective Courses

Digital Communication
Data Communication and Computer Networks

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

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 and 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

Catholic Doctrine

Christian Living
Women and Christian Living

Ethics

Holistic Development of Personality
Women in Family and Society

ECONOMICS

Core Courses

Research Methodology
Advanced Economic Theory
Dissertation

Optional courses

Human Resource Development
Political Economy

HISTORY OF FINE ARTS

Core Courses

Art History and its Methods
Methodology of Art Research
Dissertation

Optional Courses

Theories in Art
Contexts of Design

ENGLISH

Core Courses

Indian Literature: Texts and Contexts
Area of Research
Dissertation

Optional Courses

Contemporary World Literature: Texts and Contexts
Subaltern Studies: Texts and Contexts

MATHEMATICS

Core Courses

Advanced Algebra and Analysis
Advanced Topology and Geometry
Dissertation

Optional Courses

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

SOCIAL WORK

Core Courses

Advanced Social Work Theory, Training and Practice
Social Work Practicum
Dissertation

Optional Courses

Research Methodology for Social Work
Qualitative Research

Ph.D. PROGRAMMES*

Economics
History of Fine Arts
English
Mathematics
Chemistry
Social Work
Biotechnology

*For M. Phil. and Ph. D. Programmes applications are issued by the University of Madras.

ENGLISH LANGUAGE AND LIFE SKILLS PROGRAMME

This is a self-financed Certificate Course for Higher Secondary and undergraduate students who have studied in regional language medium schools, in order to improve their English language skills and life skills, so that they are equipped to face the challenges of a competitive world.

Part I	English Language Skills: Spoken English and Grammar
Part II	Life Skills: Self Awareness, Self Confidence
Part III	Interpersonal Relationships and Communication Skills
Part IV	Basics of Computer Skills

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./PGDCS/Diploma Programmes can be accessed online at www.stellamariscollege.edu.in
2. **Application forms for admission to the M.Phil. and Ph.D. Degree Programmes are issued by the University of Madras.**
3. **For details regarding online applications for all programmes, including the date of issue of applications, please check the College website.**
4. The admission procedure for all undergraduate programmes will begin after the publication of the Higher Secondary Examination results; the postgraduate admissions will begin subsequently.
5. Information regarding interviews for provisionally selected applicants for all programmes will be sent by e-mail and SMS and updated on the College website.
6. Applicants should produce all original mark statements and certificates at the time of interview.
7. Admission status will be posted on the College website after 8:00 p.m. on the day of interview.
8. Requests for deferring the date of interview will not be considered.
9. No information will be sent to applicants who have not been selected for the interview.
10. 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. Programmes:

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 OC (Others) 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

Hostel facility is not available for this academic year due to the prevailing situation.

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 Rs. One Lakh will be levied.

**All communication should be addressed to The Principal,
Stella Maris College, 17, Cathedral Road, Chennai – 600086.
Please quote the application number for further reference.**