



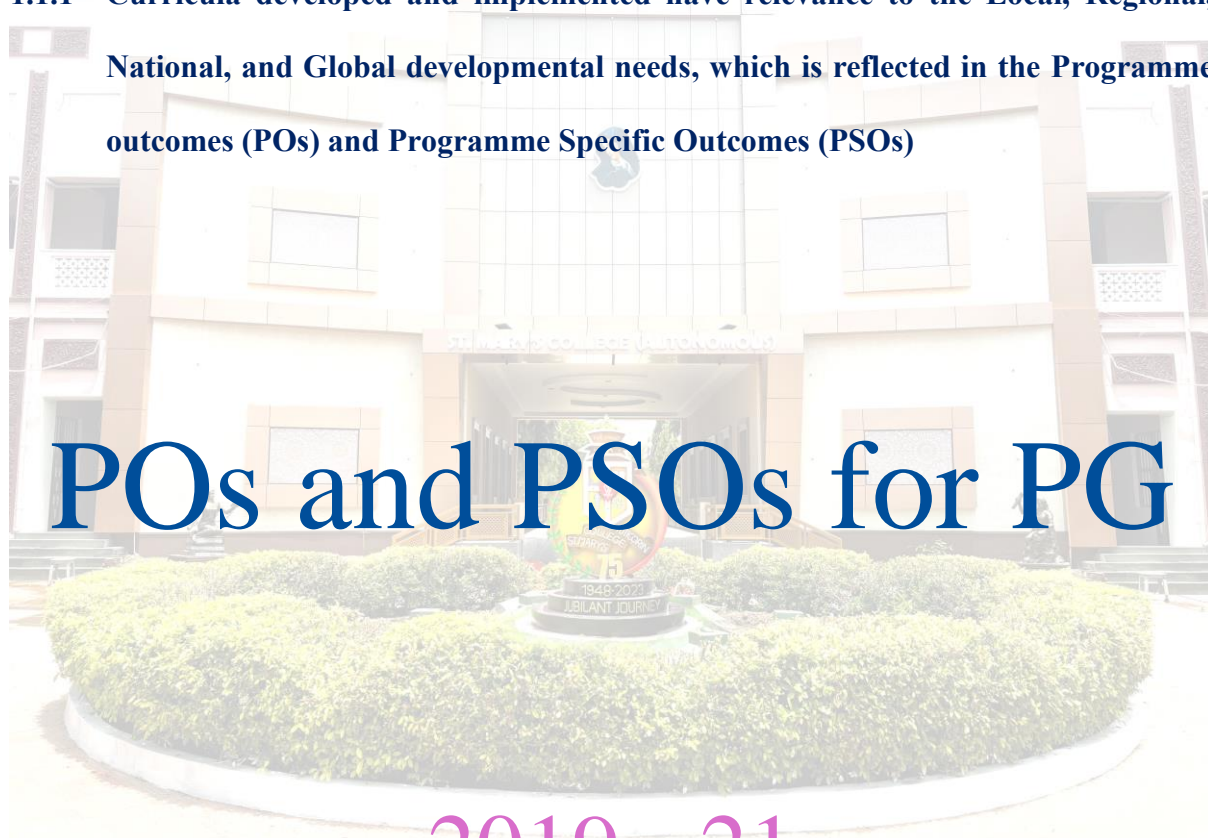
St. Mary's College (Autonomous)
Reaccredited with 'A+' Grade by NAAC (Cycle IV)
Thoothukudi



Criterion: I – Curricular Aspects
1.1 – Curriculum Design and Development
Year: 2018-2023



1.1.1 Curricula developed and implemented have relevance to the Local, Regional, National, and Global developmental needs, which is reflected in the Programme outcomes (POs) and Programme Specific Outcomes (PSOs)



POs and PSOs for PG

2019 - 21

M.A. English

Programme Outcome:

PO No.	At the end of the programme, the students will
PO-1	demonstrate mastery of the discipline by characterizing and critiquing the dominant critical theories, methodologies and practices in the field.
PO-2	develop habits of complex, critical thinking, inquiry and reflection about theory and practice.
PO-3	perceive both in discussion and in writing, an overview of knowledge and research in a chosen field of specialization.
PO-4	make use of theory as a lens for thinking critically about social inequities in local/global contexts.
PO-5	build broad-based knowledge and skills necessary to fulfill their professional goals.
PO-6	modify high-level applied, active learning experiences in their specific course of study involving research and practice.
PO-7	infer a comprehensive knowledge by combining theory with practical application for an exceptional professional foundation.
PO-8	formulate professional activities like producing a variety of academic and multimodal genres, proposals, presentations, reports, and review essays.

Programme Specific Outcome:

PSO No	Upon completion of M.A. English Literature Programme, students will be able to:
PSO-1	evaluate the significance of individual works in their cultural and intellectual contexts.
PSO-2	demonstrate familiarity with a wide range of representative literary and rhetorical texts, including influential criticism of and commentary on those texts.
PSO-3	analyse literary or cultural problems in a way that reflects insight into relevant, distinctive, historical, traditional and social contexts.
PSO-4	interpret profound questions on human identity and values and develop a personal critical perspective and sense of intellectual independence.
PSO-5	compile analytically a variety of formats, including essays, research papers, reflective writing and critical reviews of secondary sources.
PSO-6	extend textual analysis to political, journalistic, commercial, technical and web-based writing.
PSO-7	locate, evaluate and synthesize the available resources for researching a significant scholarly topic.
PSO-8	develop the ability to read works of literary, rhetorical, and cultural criticism and deploy ideas from these texts in their own reading and writing.

M.A. History

Programme Outcome:

PO No	At the end of the programme, students will be able to
PO-1	apply the acquired knowledge of the discipline in various walks of life.
PO-2	adhere to the noble ideals of freedom struggle.
PO-3	develop the analytical and interpretative skills.
PO-4	enrich the cultural heritage and values.
PO-5	understand the Human Rights to enhance global peace.
PO-6	become aware of the recent trends in research methodology.
PO-7	exercises the skill for competitive exams.
PO-8	analyse the socio-cultural ethos of society.

Programme Specific Outcome

PSO No	At the end of the programme, the students will be able to
1.	apply and understand the basic underlying principles of causation and change in the course of history in Tamil Nadu, India, China, USA and World.
2.	compare, analyze and interpret ideas on recent trends of historiography and historians.
3.	develop archaeological and epigraphical skills to explore the hidden past.
4.	identify the historical spots and promote field work, spot study in groups and projects independently.
5.	illustrate great personalities in history to promote and upgrade the life skills and human values.
6.	become aware of subaltern studies and human rights to solve social, environmental and legal issues.
7.	apply the knowledge of Computer and ICT skills through online assignment submission and seminar through PPT.
8.	acquaint with the burning issues of the world and the means to solve it.

M.A. Economics

Programme Outcome

PO.No	Upon completion of M.A Economics programme, the graduates will be able to
PO-1	apply economic analysis to everyday problems in real world situations
PO-2	understand how to use empirical evidences to evaluate the validity of an economic argument
PO-3	address problems and issues and develop solutions for them
PO-4	develop critical thinking skills and apply quantitative techniques to specific to micro and macro-economic issues
PO-5	communicate effectively in written, oral and graphical form about specific issues
PO-6	formulate opinions on policy issues and recognize the validity of the opposing viewpoints.
PO-7	analyze the economics and institutional arrangements of specific industries, localities, regions, countries and organizations
PO-8	recognize and appreciate the diversity of views that may reasonably exist about economic problems and alternative economic systems

Programme Specific Outcome

PSO No	Upon completion of M.Com Degree the graduates will be able to
PSO-1	understand the implications of the concepts of economics.
PSO-2	analyze economic behaviour in practice.
PSO-3	understand the economic way of thinking.
PSO-4	analyze historical and current events from an economic perspective.
PSO-5	write clearly expressing the economic point of view.
PSO-6	alternative approaches to economic problems through exposure to coursework in allied fields
PSO-7	suggest solutions to various economic problems.
PSO-8	take up jobs at Junior college/Senior college level lectureship
PSO-9	take up Career in Banking/Finance/Co-operative sector
PSO-10	acquire minimum qualification for M. Phil. and Ph.D

M.Sc. Mathematics

Program Outcome

PO. No.	At the end of the M.Sc. Program, the students will be able to
PO-1	obtain in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods in Science
PO-2	understand their subject areas more clearly and develop skills to critically reflect upon the theory they learn.
PO-3	adopt the scientific methods and hypothesis testing in designing and execution of experiments.
PO-4	think critically, work independently and focus in research oriented activities.
PO- 5	inculcate an ability to engage in life-long learning to improve professional competency.
PO-6	extend and understand the impact of science on society.
PO-7	apply their professional ability for entrepreneurship and self employment.
PO-8	understand and commit to professional ethics and social responsibility.

Program Specific Outcome

PSO No.	Students of M.Sc. Mathematics will be able to
PSO-1	formulate and analyze mathematical and statistical problems, precisely define the key terms and draw clear and responsible conclusion.
PSO-2	develop problem solving skills and apply them independently to problems in pure and applied mathematics.
PSO-3	utilize number theory in the field of cryptography that helps in hiding information and maintaining secrecy in military information.
PSO-4	set up and solve linear systems and linear inequalities.
PSO-5	explore current research problems in mathematical sciences.
PSO-6	formulate and analyze complex problems reaching substantiated conclusions using principles of Mathematics.
PSO-7	represent and statistically analyze data both graphically and numerically
PSO-8	apply statistical method in engineering and use of statistical software in modern data analysis

M.Sc. Physics

Programme Outcome

PO.No.	At the end of the M.Sc. Program, the students will be able to
PO-1	obtain in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods in Science
PO-2	understand their subject areas more clearly and develop skills to critically reflect upon the theory they learn.
PO-3	adopt the scientific methods and hypothesis testing in designing and execution of experiments.
PO-4	think critically, work independently and focus in research oriented activities.
PO- 5	inculcate an ability to engage in life-long learning to improve professional competency.
PO-6	extend and understand the impact of science on society.
PO-7	apply their professional ability for entrepreneurship and self employment.
PO-8	understand and commit to professional ethics and social responsibility.

Program Specific Outcome

PSO No	Students of M.Sc., Physics will be able to
PSO 1	understand the principles and theories of area of physics such as Mechanics, Electromagnetic theory, Electronics and Nuclear and particle physics.
PSO 2	apply algebra, calculus, tensors and complex variables to solve physics problems.
PSO 3	demonstrate the ability to do the lab experiments and apply the principles learnt in class
PSO 4	undertake major and minor projects and report their results in a full scientific report through oral or poster presentation.
PSO 5	understand the impact of physics on society.
PSO 6	Compile oral and written scientific communication and will prove that they can think critically and work independently.
PSO 7	use analytical and integrative problem-solving approaches through research oriented learning.
PSO 8	communicate effectively on energy aspects with the society at large.

M.Sc. Chemistry

Programme Outcome:

PO No.	At the end of the M.Sc. Program, the students will be able to
PO-1	obtain in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods in Science
PO-2	understand their subject areas more clearly and develop skills to critically reflect upon the theory they learn.
PO-3	adopt the scientific methods and hypothesis testing in designing and execution of experiments.
PO-4	think critically, work independently and focus in research oriented activities.
PO-5	inculcate an ability to engage in life-long learning to improve professional competency.
PO-6	extend and understand the impact of science on society.
PO-7	apply their professional ability for entrepreneurship and self employment.
PO-8	understand and commit to professional ethics and social responsibility.

Program Specific Outcome:

PSO No.	Students of M. Sc. Chemistry will be able to
PSO 1	gain complete knowledge about all fundamental aspects and the importance of the elements of chemistry.
PSO 2	understand the background of organic reaction mechanisms, complex chemical structures, molecular rearrangements and separation techniques.
PSO 3	appreciate the coordination chemistry and structure of molecules, properties of compounds, structural determination of complexes using theories and instruments.
PSO 4	gather attention about the physical aspects of atomic structure, dual behaviour, reaction pathways with respect to time, various energy transformations, molecular assembly in nano-level, significance of electrochemistry, molecular segregation using their symmetry.
PSO 5	learn about the potential uses of analytical, industrial and green chemistry.
PSO 6	demonstrate the ability to synthesise, separate and characterize the compounds using published reactions, protocols, standard laboratory equipments by eco-friendly chemical processes.
PSO 7	broaden their professional foundations through various activities.
PSO 8	get enormous job opportunities at all level of chemical, pharmaceutical, food products, life oriented material industries.

M.Sc. Botany

Programme Outcome

PO.No.	At the end of the M.Sc. Program, the students will be able to
PO-1	obtain in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods in Science
PO-2	understand their subject areas more clearly and develop skills to critically reflect upon the theory they learn.
PO-3	adopt the scientific methods and hypothesis testing in designing and execution of experiments.
PO-4	think critically, work independently and focus in research oriented activities.
PO- 5	inculcate an ability to engage in life-long learning to improve professional competency.
PO-6	extend and understand the impact of science on society.
PO-7	apply their professional ability for entrepreneurship and self employment.
PO-8	understand and commit to professional ethics and social responsibility.

Programme Specific Outcome:

PSO No.	At the end of the M.Sc. Program, the students are able to
PSO-1	understand the structural and the reproductive biology of diversified group of plants to evolve their origin, evolution and phylogenetic relationship between them
PSO-2	know the interconnectedness of life on the earth through energy flow and nutrient cycling upon that knowledge, enable to know the potentiality of natural resources and need of its conservation.
PSO-3	be cognizant on organisms functioning at biochemical and molecular level can be able to infer the biological adaptation, development and their behaviour in the environment
PSO-4	receive extensive hands on training in lab skills, field techniques, sample preparations, statistical analysis and problem solving across the spectrum of botany
PSO-5	acquire knowledge of marine ecosystem and its functions in time and space relating their economical and environmental services on earth
PSO-6	design experimental methods, formulate hypothesis, techniques adapted, data analysis that create biological inquiry, communication ability and entrepreneurship.
PSO-7	work for environmental protection and social responsibility with a science enriched with biodiversity conservation, climate change implications and scientific ethics
PSO-8	learn the Microbes and their role in environment and /industries will demonstrate microbes as the model system for human wellbeing

M.Sc. Zoology

Programme Outcome:

PO.No.	At the end of the M.Sc. Program, the students will be able to
PO-1	obtain in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods in Science
PO-2	understand their subject areas more clearly and develop skills to critically reflect upon the theory they learn.
PO-3	adopt the scientific methods and hypothesis testing in designing and execution of experiments.
PO-4	think critically, work independently and focus in research oriented activities.
PO- 5	inculcate an ability to engage in life-long learning to improve professional competency.
PO-6	extend and understand the impact of science on society.
PO-7	apply their professional ability for entrepreneurship and self employment.
PO-8	understand and commit to professional ethics and social responsibility.

Program Specific Outcome

PSO No	Students of M.Sc., Zoology will be able to
PSO-1	comprehend and synthesis advance knowledge in specific areas of zoology
PSO-2	demonstrate an in-depth understanding and the ability to apply information from different areas of biology.
PSO-3	examine and evaluate knowledge across a broad range of courses, acquire a set of transferable skills for employment.
PSO-4	appreciate and use science as a way of problem solving, formulate hypotheses, design experiments and draw logical conclusions.
PSO-5	expound the relevance of the biological science to the real-world issues of bioethical, biological and social basis for human welfare and environment.
PSO-6	achieve practical proficiency in experimental techniques and methods of analysis.
PSO-7	design and develop projects with scientific report, oral / poster presentation and extend the findings to the society
PSO-8	select and apply experimental procedures to the spectrum of fields in biology

M.Sc. Computer Science

Programme Outcome:

PO.No.	At the end of the M.Sc. Program, the students will be able to
PO-1	obtain in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods in Science
PO-2	understand their subject areas more clearly and develop skills to critically reflect upon the theory they learn.
PO-3	adopt the scientific methods and hypothesis testing in designing and execution of experiments.
PO-4	think critically, work independently and focus in research oriented activities.
PO- 5	inculcate an ability to engage in life-long learning to improve professional competency.
PO-6	extend and understand the impact of science on society.
PO-7	apply their professional ability for entrepreneurship and self employment.
PO-8	understand and commit to professional ethics and social responsibility.

Program Specific Outcome

PSO No	Students of MSc Computer Science will be able to
PSO-1	program efficiently with computer languages using simplified logic
PSO-2	understand the use of Mathematics in Computer Science, in designing, programming and building machines
PSO-3	design and use algorithms for solving various problems and analyse data
PSO-4	store data in structured databases, extract data and analyse it for improvements in the system concerned
PSO-5	design and publish web pages and connect to Internet Technologies
PSO -6	design a computer machine with efficient computational and storage abilities
PSO -7	understand Networking concepts, its simulation and analysis
PSO- 8	develop user friendly projects and further the advancement in research

M.Com

Programme Outcome

PO No	Upon completion of M.Com programme, the post graduates will be able to
PO-1	acquire strong subject expertise in accounting, financial instruments and markets.
PO-2	achieve and display competencies that will enable them to pursue their career goals.
PO-3	demonstrate advanced theoretical knowledge and research capabilities in their preparation for a academic and research focused careers.
PO-4	possess the skills required to integrate concepts from various courses to identify and develop business strategies.
PO-5	equip themselves with know how to operate successfully in a continuously changing business environment.
PO-6	Display competencies required for effective problem solving.
PO-7	acquire skills required for right decision making in routine and special activities relevant to financial management and other transactions of the business.
PO - 8	have a systematic and rigorous learning experience and exposure to finance related disciplines.

Programme Specific Outcome

PSO No	Upon completion of M.Com Degree the post graduates will be able to,
1.	develop an ability to apply knowledge acquired in problem solving in business.
2.	demonstrate the ability to work with enhanced communication and inter personal skills.
3	take up employment in functional areas like Accounting, Taxation, Marketing, Human Resource, Management, Corporate Law, Statistical techniques etc.
4	develop the skill in applying concepts and techniques and exhibit ability to start entrepreneurial activities.
5	inculcate ethical values, team work and managerial skills.
6	exhibit inclination towards pursuing professional courses such as CA/ CS/ CMA/CFA etc.
7	analyse and evaluate problems using accounting, management, analytical and integrative abilities
8	integrate tools and concepts from multiple functional areas like finance, marketing, accounting, HRM etc.to solve business problems

M.Sc. Microbiology

Programme Outcome:

PO.No.	At the end of the M.Sc. Program, the students will be able to
PO-1	obtain in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods in Science
PO-2	understand their subject areas more clearly and develop skills to critically reflect upon the theory they learn.
PO-3	adopt the scientific methods and hypothesis testing in designing and execution of experiments.
PO-4	think critically, work independently and focus in research oriented activities.
PO- 5	inculcate an ability to engage in life-long learning to improve professional competency.
PO-6	extend and understand the impact of science on society.
PO-7	apply their professional ability for entrepreneurship and self employment.
PO-8	understand and commit to professional ethics and social responsibility.

Programme Specific Outcome:

PSO No	Upon completion of M.Sc. Microbiology Degree Programme, the Post graduates will be able to
PSO-1	acquire in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods of Microbiology
PSO-2	acquire in –depth knowledge of the topics of the research conducted by the researchers.
PSO-3	obtain insight into the interface between, on the one hand, the history of Microbiology and on the other hand issues pertaining to the areas of modern technology, health and environment.
PSO-4	contribute to the generation of new scientific insights or to the innovation of new applications of microbial research.
PSO-5	apply statistical skills
PSO-6	integrate and evaluate information from a variety of sources
PSO-7	manage resources and time.
PSO-8	plan, conduct and write up a programme of original research.

M.H.R.M.

Programme Outcome

PO No.	At the end of the programme, the students will
PO - 1	understand human behaviour more incisively.
PO - 2	identify the triggers that motivate human actions and reactions in a professional environment.
PO - 3	gain managerial and leadership skills through development of creativity, innovation, and communication skills.
PO - 4	diagnose and provide solutions for industrial disputes and enhance value addition for the organisation.
PO - 5	enhance the overall quality of life for all stake holders in an organisation.
PO-6	select and apply appropriate tools for decision making required for solving managerial problems.
PO-7	recognise and address ethical issues and values and apply them in organisational settings.
PO-8	gain knowledge in current and contemporary industrial practices through summer internship work and project work

Programme Specific Outcome

PSO No.	On completion of MHRM programme graduates will be able to
PSO -1	gain knowledge on the concepts of human resource management, basic principles of management and understand the management theories.
PSO -2	understand the different concepts in industrial relation and the various Acts regarding labour legislation in India and improve their managerial abilities.
PSO -3	develop the skills and competencies required for human resource managers and understand the strategic foundation that enables future changes in the field of psychology, organisational behavior, entrepreneurship , coaching, mentoring and counselling.
PSO -4	apply the techniques of management accounting, managerial economics and total quality management to make effective decisions.
PSO -5	develop the analytical skills and gain in-depth knowledge in international human resource management, recruitment and selection, training and development, performance management , compensation management of the employees.
PSO -6	gain deeper insight of the statistical techniques and forecasting methods to make effective business decision and also have an understanding on business ethics, corporate social responsibility and governance.
PSO -7	understand and apply current and emerging information technologies to support the human resources function and solve business related problems using research methods and statistical techniques.
PSO- 8	gain practical knowledge in the field of human resource management.