



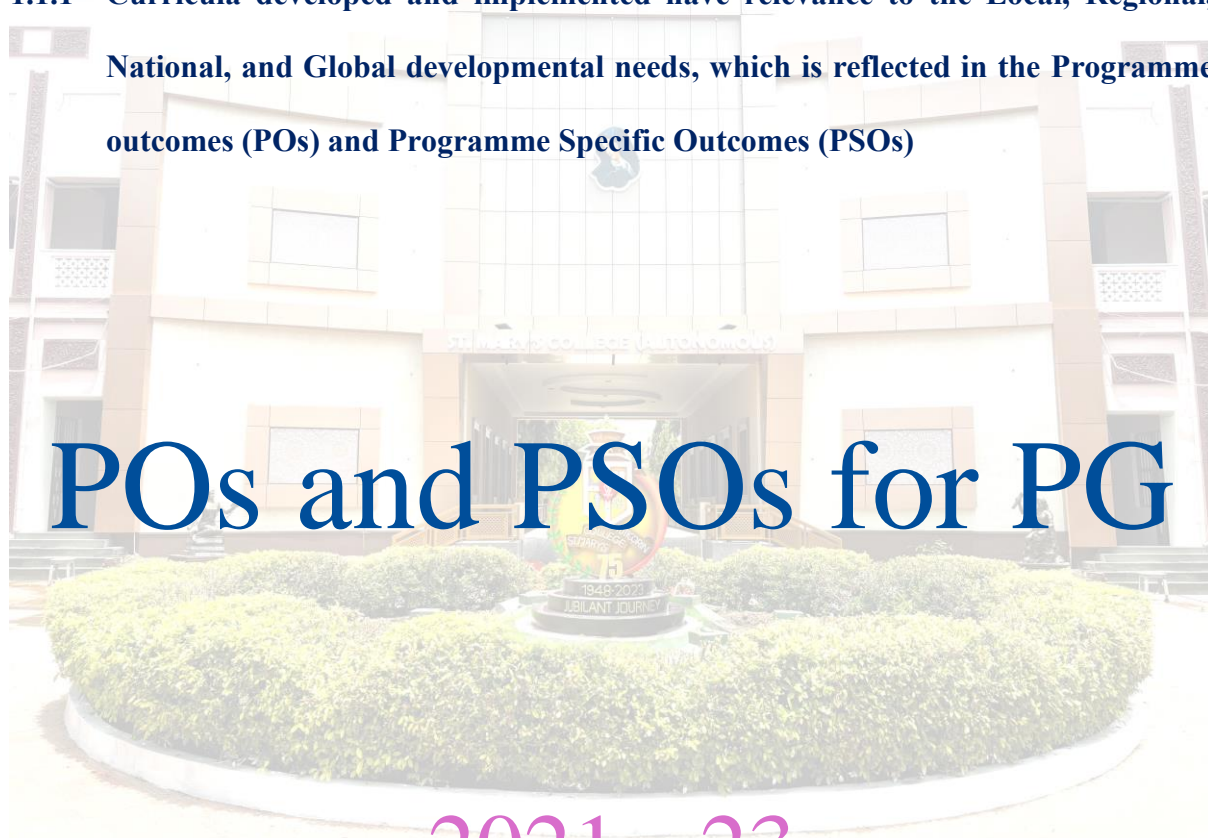
**St. Mary's College (Autonomous)**  
Reaccredited with 'A+' Grade by NAAC (Cycle IV)  
Thoothukudi



**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

2021 - 23

## **M.A. English Literature**

### **Programme Outcome**

<b>PO No.</b>	<b>After completion of the Postgraduate programme, the students of St. Mary's College will be able to</b>
<b>PO-1</b>	acquire expertise knowledge in their respective disciplines and become professionals.
<b>PO-2</b>	pursue research / higher learning programmes.
<b>PO-3</b>	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
<b>PO-4</b>	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent
<b>PO-5</b>	apply their experiment and research skills to analyse and solve complex problems.
<b>PO-6</b>	develop themselves as a holistic person assisting in the Nation building process.
<b>PO-7</b>	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
<b>PO-8</b>	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

### Programme Specific Outcome

<b>PSO No.</b>	<b>Upon completion of M.A. English Literature programme, students will be able to</b>	<b>POs mapped</b>
<b>PSO-1</b>	develop a deeper comprehension of literary and critical texts	1
<b>PSO-2</b>	advance analysis of literary texts and translational phenomena of global history and culture.	5
<b>PSO-3</b>	interpret profound questions of human identity and values in a critical perspective.	7
<b>PSO-4</b>	illustrate and infer a tradition of good scholarship, innovative teaching and creative literary output.	6
<b>PSO-5</b>	extend language and literary learning to political, journalistic, commercial, technical and web-based writing.	3
<b>PSO-6</b>	evaluate, locate, and synthesize available resources for productive research and critical writing.	2
<b>PSO-7</b>	formulate and employ conceptual and rhetorical skills needed for employability.	4
<b>PSO-8</b>	employ aesthetic and intellectual acumen for progressive thoughts and higher order of living	8

## M.A. History

### Programme Outcome:

PO.No	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO-1	acquire expertise knowledge in their respective disciplines and become professionals
PO-2	pursue research / higher learning programmes.
PO-3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
PO-4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent
PO-5	apply their experiment and research skills to analyse and solve complex problems.
PO-6	develop themselves as a holistic person assisting in the Nation building process.
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO-8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

**Programme Specific Outcome:**

PSO No.	upon completion of MA degree programme, the students of History will be able to	PO Mapping
<b>PSO 1</b>	expand historical, archaeological and epigraphical skills to explore the hidden past.	PO1
<b>PSO 2</b>	comprehend ideas on recent trends of historiography and historians and research aptitude.	PO2
<b>PSO3</b>	equip themselves to attend the competitive examinations and excel in their specific domain	PO3
<b>PSO4</b>	identify and analyze the historical spots, movements and wars and promote field work, spot study in groups and projects independently.	PO4
<b>PSO 5</b>	appraisal of historical facts and human rights to solve social, environmental and legal issues.	PO5
<b>PSO 6</b>	illustrate reminiscences of history to upgrade the life skills and human values.	PO6
<b>PSO 7</b>	acquaint with the burning issues of the world and the means to solve it..	PO7
<b>PSO 8</b>	aware of recent trends of causation and change in the world History to be empowered	PO8

## M.A. Economics

### Programme Outcome

PO. No	Upon completion of M.A Economics programme, the graduates will be able to
PO-1	acquire expertise knowledge in their respective disciplines and become professionals
PO-2	pursue research / higher learning programmes
PO-3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
PO-4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent
PO-5	apply their experiment and research skills to analyse and solve complex problems
PO-6	develop themselves as a holistic person assisting in the Nation building process
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world
PO-8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education

## PROGRAMME SPECIFIC OUTCOMES

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

## M.Sc. Mathematics

### Program Outcome

PO. No.	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO-1	acquire expertise knowledge in their respective disciplines and become professionals.
PO-2	pursue research / higher learning programmes.
PO-3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
PO-4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent
PO- 5	apply their experiment and research skills to analyse and solve complex problems.
PO-6	develop themselves as a holistic person assisting in the Nation building process.
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO-8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

### Program Specific Outcome

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

## M.Sc. Physics

### Programme Outcomes

PO No.	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO 1	acquire expertise knowledge in their respective disciplines and become professionals.
PO 2	pursue research / higher learning programmes.
PO 3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies.
PO 4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent.
PO 5	apply their experiment and research skills to analyse and solve complex problems.
PO 6	develop themselves as a holistic person assisting in the Nation building process.
PO 7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO 8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

**Program Specific Outcomes:**

<b>PSO No</b>	<b>Students of M.Sc., Physics will be able to</b>	<b>PO Mapped</b>
PSO 1	demonstrate and understand the principles and theories of physics. These includes the following classical mechanics, Electromagnetic theory, Electronics and experimental methods, microprocessor and microcontroller, Quantum mechanics, thermodynamics and statistical mechanics, Nuclear and particle physics, Atomic and molecular spectroscopy, Nanoscience and technology and condensed matter Physics	1
PSO 2	apply algebra, calculus, tensors and complex variables to solve physics problems.	4
PSO 3	demonstrate the ability to do the lab experiments and apply the principles learnt in class	3
PSO 4	undertake a major, individual project and report their results in a full scientific report oral or poster presentation. Critically asses a project to evaluate the best strategy to achieve the desired outcome.	2
PSO 5	extend and understand the impact of physics and science on society	5
PSO 6	demonstrate written and oral communicating physics related topics	5
PSO 7	a research-oriented learning that develops analytical and integrative problem-solving approaches.	6
PSO 8	help to communicate effectively on energy aspects with the society at large.	8

## M.Sc. Chemistry

### Programme Outcomes

PO No.	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO 1	acquire expertise knowledge in their respective disciplines and become professionals.
PO 2	pursue research / higher learning programmes.
PO 3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies.
PO 4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent.
PO 5	apply their experiment and research skills to analyse and solve complex problems.
PO 6	develop themselves as a holistic person assisting in the Nation building process.
PO 7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO 8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

### Program Specific Outcomes

PSO No.	After completion of the M.Sc. Chemistry, the students of St. Mary's College will be able to	PO Addressed
PSO 1	gain in-depth knowledge about the terms, concepts, methodologies, principles and experimental techniques involved in the various fields of chemistry.	1
PSO 2	view chemistry as a tool for developing mind and critical attitude and the faculty of logical reasoning that is prepared to serve in diverse fields.	4
PSO 3	utilize graphical/virtual communications to interact productively with people from diverse background, employ online search engines and software's tools.	7
PSO 4	relate every branch of science and technology with Chemistry and develop scientific outlook not only with respect to science subjects but also in all aspects related to life.	1, 4
PSO 5	acquire the working knowledge of experimental and instrumentation techniques necessary to work independently in research or in other industrial sectors.	2, 4, 5
PSO 6	demonstrate the ability to synthesise, separate and characterize the compounds using published reactions, protocols, standard laboratory equipment by eco-friendly chemical processes.	2,5
PSO 7	pursue research & development in all disciplines of Chemical sciences, succeed in competitive examinations, and emerge as successful entrepreneurs.	3,6
PSO 8	develop skills to work with international research and development team, contribute to research collaboration and to be familiar with intellectual property rights both national and globally.	3, 7, 8

## M.Sc. Botany

### Programme Outcome

PO. No.	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO-1	acquire expertise knowledge in their respective disciplines and become professionals.
PO-2	pursue research / higher learning programmes.
PO-3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
PO-4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent
PO- 5	apply their experiment and research skills to analyse and solve complex problems.
PO-6	develop themselves as a holistic person assisting in the Nation building process.
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO-8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

**Programme Specific Outcome:**

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

## M.Sc. Zoology

### Programme Outcome:

PO.No.	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO-1	acquire expertise knowledge in their respective disciplines and become professionals.
PO-2	pursue research / higher learning programmes.
PO-3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
PO-4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent
PO-5	apply their experiment and research skills to analyse and solve complex problems.
PO-6	develop themselves as a holistic person assisting in the Nation building process.
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO-8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

## Programme Specific Outcome

<b>PSO No.</b>	<b>Upon completion of the M.Sc Zoology Degree programme,the postgraduates will be able to</b>	<b>PO Mapped</b>
PSO - 1	comprehend and synthesis enhanced knowledge in key fields of Zoology at various perspectives	PO - 1
PSO - 2	demonstrate an in-depth understanding and the ability to apply information from different areas of Biology	PO - 3
PSO -3	examine and evaluate knowledge across a broad spectrum of courses, acquire a set of transferrable skills for employment and entrepreneurship	PO –3,8
PSO - 4	appreciate and use science as a way of problem solving, formulate hypotheses, design experiments and draw logical conclusions	PO -4,5
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	PO - 6
PSO 6	achieve practical proficiency in experimental techniques and methods of analysis	PO - 4
PSO 7	design and develop projects with scientific report, oral/poster presentation and communicate the findings to the society	PO - 2
PSO -8	ensure better opportunities in education, research and development, social and entrepreneurial sectors	PO -7,8

## M.Sc. Computer Science

### Programme Outcome:

PO.No.	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO-1	acquire expertise knowledge in their respective disciplines and become professionals.
PO-2	pursue research / higher learning programmes.
PO-3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
PO-4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent.
PO- 5	apply their experiment and research skills to analyse and solve complex problems.
PO-6	develop themselves as a holistic person assisting in the Nation building process.
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO-8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

**Program Specific Outcome:**

<b>PSO. No.</b>	<b>Students of M.Sc. Computer Science will be able to</b>	<b>PO addressed</b>
<b>PSO-1</b>	work professionally in software industries with a broad range of programming language	<b>PO-1</b>
<b>PSO-2</b>	evaluate real world problems by applying mathematical models and principles of theoretical computing	<b>PO-6</b>
<b>PSO-3</b>	attain the ability to design and develop hardware and software based systems	<b>PO-4</b>
<b>PSO-4</b>	design and use algorithms for solving various problems and also design a computer machine with scalable software solution.	<b>PO-3</b>
<b>PSO-5</b>	acquire adequate skills to apply the concepts of distributed management system and standard data mining techniques used in the industry.	<b>PO-5</b>
<b>PSO-6</b>	identify the human behavior in organization and handle network related problems by studying data communication problems and network security courses.	<b>PO-7,8</b>
<b>PSO-7</b>	analyze the theoretical knowledge in design & software project development and contribute to research in the chosen field and perform effectively	<b>PO-5,2</b>
<b>PSO-8</b>	learn and apply the principles of Artificial Intelligence and Data science that requires problem solving, inferences, perception based on neural network and machine learning techniques.	<b>PO-4</b>

## M.Com

### Programme Outcomes

PO No.	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO-1	acquire expertise knowledge in their respective disciplines and become professionals.
PO-2	pursue research / higher learning programmes.
PO-3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
PO-4	develop critical / logical thinking skills and managerial skills and become locally, nationally and globally competent
PO-5	apply their experiment and research skills to analyse and solve complex problems
PO-6	develop themselves as a holistic person assisting in the Nation building process.
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO - 8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

### Programme Specific Outcomes

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

## M.Sc. Microbiology

### Programme Outcome:

PO. No.	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO-1	acquire expertise knowledge in their respective disciplines and become professionals.
PO-2	pursue research / higher learning programmes.
PO-3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
PO-4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent
PO- 5	apply their experiment and research skills to analyse and solve complex problems.
PO-6	develop themselves as a holistic person assisting in the Nation building process.
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO-8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

**Programme Specific Outcome:**

<b>PSO No</b>	<b>Upon completion of M.Sc. Microbiology Degree Programme, the Postgraduates will be able to</b>	<b>PO Mapped</b>
PSO-1	acquire in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods of Microbiology	PO - 1
PSO-2	acquire in –depth knowledge of the topics of the research conducted by the researchers.	PO - 4
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.	PO - 5
PSO-4	contribute to the generation of new scientific insights or to the innovation of new applications of microbial research.	PO – 6, 3
PSO-5	apply statistical skills	PO – 2
PSO-6	integrate and evaluate information from a variety of sources	PO – 4
PSO-7	manage resources and time.	PO – 8
PSO-8	plan, conduct and write up a programme of original research.	PO – 7

## M.Sc. Psychology

### Programme Outcome

PO. NO.	After completion of the Postgraduate programme, the students of St. Mary's College will be able to
PO-1	acquire expertise knowledge in their respective disciplines and become professionals.
PO-2	pursue research / higher learning programmes.
PO-3	compete in the job market by applying the knowledge acquired in Arts, Science, Economics, Commerce and Management studies
PO-4	develop critical / logical thinking skills and managerial skills and become locally, nationally & globally competent
PO-5	apply their experiment and research skills to analyze and solve complex problems.
PO-6	develop themselves as a holistic person assisting in the Nation building process.
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new ways of learning or understanding the world.
PO-8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

### Program Specific Outcome

<b>PSO. No.</b>	<b>Upon completion of Postgraduate Programme, the students will be able to</b>	<b>PO mapped</b>
PSO1	give an in-depth knowledge in the field of psychology and its various disciplines and learn the concepts of developmental psychology and life stages.	PO 1 & 2
PSO2	know the importance of knowing about the details of Theories of Personality and Biological psychology to help in practical applications in life situations	PO 1 & 2
PSO3	understand and become familiar with the processes and stages of Counselling Psychology and Psycho therapeutics	PO 5 & 7
PSO4	know the fundamental concepts of Advanced Social Psychology and Research Methodology that will enable them to be efficient researchers.	PO 5 & 7
PSO5	develop a critical thinking in the areas of Clinical Psychology and Psychological testing and Statistical measures	PO 5 & 7
PSO6	have an in-depth understanding on the concepts of Indian Psychology which enables culture based research approaches to education	PO 6 & 7
PSO7	understand the various concepts of Human resource management and Organizational Behaviour that promotes employability	PO 6, 7, 8
PSO8	be thorough with the nature and theories of Neuropsychology and Rehabilitation psychology which helps them contribute to the society	PO 1, 2 & 8

## **M.H.R.M.**

### **PROGRAMME OUTCOME**

<b>PO No.</b>	<b>After completion of the Postgraduate programme, the students of St. Mary's College will be able to</b>
PO - 1	acquire expertise knowledge in their respective disciplines-and become professionals.
PO - 2	pursue research / higher learning programmes.
PO - 3	compete in the job market by applying the knowledge acquired in Arts,Science, Economics, Commerce and Management studies
PO - 4	develop critical / logical thinking skills and managerial skills andbecome locally, nationally & globally competent
PO - 5	apply their experiment and research skills to analyse and solve complex problems.
PO-6	develop themselves as a holistic person assisting in the Nation buildingprocess.
PO-7	be a lifelong learner and amenable to new ideas, actively seek out new waysof learning or understanding the world.
PO-8	be an empowered and economically independent woman with efficient leadership qualities in an egalitarian society through liberative education.

## PROGRAMME SPECIFIC OUTCOME

PSO No.	On completion of MHRM programme the students will be able to	PO Mapped
PSO -1	gain knowledge on the concepts of human resource management, basic principles of management and understand the management theories.	PO -1,2
PSO -2	understand the different concepts in industrial relation and the various Acts regarding labour legislation in India and improve their managerial abilities.	PO -3,4
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.	PO -2,3
PSO -4	apply the techniques of management accounting, managerial economics and total quality management to make effective decisions.	PO -5,6
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.	PO -2,3
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.	PO -5,6,7
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.	PO -4,6,8
PSO- 8	gain practical knowledge in the field of human resource management.	PO -7,8