

ST. THOMAS COLLEGE PALAI

NAAC Accredited with 'A' Grade (3rd Cycle, CGPA 3.30) in 2015

College with Potential for Excellence (CPE-UGC)

(Affiliated To Mahatma Gandhi University, Kottayam)



PROGRAMME SPECIFIC OUTCOMES OF POSTGRADUATE PROGRAMMES (2019 admission onwards)

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M A English	
PSO1.	To provide a deep perspective into select literary works across the globe, original or in translation.
PSO2.	To help them have mastery over the nuances of theoretical discourses, language and literature in English.
PSO3.	Enabling the students to communicate in correct and impressive language.
PSO4.	To encourage and inspire the students into creative writing.
PSO5.	Making the students fit for competing successfully in their search for career all over the world.
MA Malayalam	
PSO1.	To Understand new trends in world as a part of Malayalam Language
PSO2.	To introduce new methodologies of Malayalam Language and compiling world classic in new courses
PSO3.	To Inculcate research attitude and creativity
MA Hindi	
PSO1.	To give a linguistic and functional orientation to the study of Hindi language and literature
PSO2.	To develop a comparative outlook towards Indian literature
PSO3.	To Develop Students Competence with Reference to Hindi Language and Literature.
PSO4.	To familiarize the students with living forms of Hindi language.
PSO5.	To provide a comprehensive knowledge of the new literary forms.
PSO6.	To introduce the national values and point out the importance of integrity.
MA Economics	
PSO1.	Gaining Access to Existing Knowledge.
PSO2.	giving students knowledge in the various fields of Economics and an in-depth understanding of the theoretical and empirical constructs in the field of Economics
PSO3.	Displaying Command of Existing Knowledge:
PSO4.	Displaying Ability to Draw Out Existing Knowledge
PSO5.	Utilizing Existing Knowledge to Explore economic Issues.
PSO6.	Creating New Knowledge.
M A History	
PSO1.	To help students further develop their critical thinking, independent researching and writing skills in an effort to gain knowledge and advance their carriers across a variety of disciplines.
PSO2.	To provide students with knowledge of different schools of historical writing and also to develop research interests in students.

PSO3.	To equip the students to understand gender, caste, concept of human rights, relevance of environmental studies.
PSO4.	To help the student to have a systematic understanding about accumulation of historical knowledge
PSO5.	To develop a historical sense among students about our culture and tradition.
PSO6.	To widen the scope of social sciences through interdisciplinary approach.
PSO7.	Enlarge the outlook of students about the ethnicity and racial differences of our community.
PSO8.	To inculcate a historic inquisitiveness in relation to our rich cultural past.
PSO9.	To develop the abilities to distinguish between primary and secondary sources in the collection and analysis of data.
PSO10.	To ensure the quality to distinguish and evaluate the available evidences properly.
MA Political Science	
PSO1.	Demonstrate knowledge and understanding of the key theories and concepts of Political Science, and insights into the theoretical advances in the discipline.
PSO2.	Demonstrate the ability to evaluate theories in the light of empirical evidence or normative propositions.
PSO3.	Apply appropriate theories to understand and analyse social and political phenomena.
PSO4.	Demonstrate an understanding of the philosophical underpinnings of political systems, processes and movements at the local, national and international levels.
PSO5.	Evince the ability to think critically about political institutions, processes and issues relating to politics at the local, national and international levels.
PSO6.	Demonstrate the intellectual ability and skills to carry out independent research.
PSO7.	Achieve and demonstrate the ability to communicate their ideas effectively using the appropriate language of the discipline.
PSO8.	Apply critical thinking, communication and analytical skills to address significant issues of concern in society.
PSO9.	Recognize issues of social justice in their local and global contexts and demonstrate knowledge and understanding of their rights and obligations as members of society.
MSc Mathematics	
PSO1.	To improve the perspective of students on Mathematics as per modern requirement.
PSO2.	Enhance the logical, analytical and problem solving skills of students.
PSO3.	Orient students towards relating Mathematics to applications.
PSO4.	Help the student build interest and confidence in learning the subject.
PSO5.	Encourage students for pursuing higher studies and developing Research Aptitude.

PSO6.	Acquiring continuous learning skills.
PSO7.	Motivate the students to uphold scientific integrity and objectivity in professional endeavours.
PSO8.	Paves the way to seek and understand the world around them.
MSc Statistics	
PSO1.	To enable to model real-world effects and their financial implications.
PSO2.	way to get sharper predictions from the data
PSO3.	to suit for the needs of the society
PSO4.	statistical methods to assess risk in insurance, finance and other industries.
PSO5.	exposure to various statistical soft wares
PSO6.	to pursue higher studies in the areas of Statistics, Mathematics, Computer Science ,Economics, Management and allied fields
PSO7.	make information on economic and social development accessible to the public, allowing the impact of government polices to be assessed
PSO8.	Prepare the students for UPSC Examinations and UGC-CSIR-NET.
MSc Physics	
PSO1.	Provide a systemic understanding of core physical concepts, principles and theories along with their applications.
PSO2.	Achieve sound knowledge, general competence, and analytical skills on an advanced level, needed in industry, consultancy, education, research, or public administration.
PSO3.	Analyse different sources of knowledge and apply them to formulate and organize scientific reasoning.
PSO4.	Develop human resource with specialization in theoretical and experimental techniques required for career in academia and industry.
PSO5.	Build critical thinking, analytical reasoning, and problem solving skills.
PSO6.	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
MSc Chemistry	
PSO1.	To be familiarised with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise the students of its relevance in future studies
PSO2.	To be exposed to the different processes used in industries and their applications.
PSO3.	To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.

PSO4.	To be familiarised with sophisticated spectroscopic techniques such as UV-visible, IR, NMR,EPR and Mass spectrometric methods.
PSO5.	To handle scientific instruments, to plan and perform the laboratory experiments
PSO6.	To develop research oriented skills.
PSO7.	Learn professionalism, including the ability to work in teams and apply basic ethical principles.
PSO8.	To get a clear knowledge of computational techniques, Soft ware's, tools for Molecular modeling etc.
PSO9.	To attain thorough knowledge in the theory and applications of separation techniques, especially sophisticated methods like chromatography, soxhlettechniques etc.
PSO10.	To employ critical thinking and the scientific knowledge to design, carryout, record and analyse the results of chemical reactions.

MSc Botany

PSO1.	To encourage a clear, comprehensive and advanced mastery in the field of Botany.
PSO2.	To provide a deep knowledge of the basic principles of biological sciences with special reference to Botany and its applied branches.
PSO3.	To enable the students to explore the intricacies of life forms at cellular and molecular levels.
PSO4.	To sustain students' motivation and enthusiasm and to help them not only to appreciate the beauty of different life forms but also to inspire them in the dissemination of the concept of biodiversity conservation.
PSO5.	To develop problem solving skills in students and encourage them to carry out innovative research projects so as to instill in them the spirit of knowledge creation.
PSO6.	To maintain a high level of scientific excellence in botanical research with added emphasis on the role of plants in the structure and functioning of terrestrial and aquatic communities and ecosystems.
PSO7.	To equip students to perform functions that demand higher competence at national/ international levels.
PSO8.	To make the students realize the applications of different fields of Botany commercially, ecologically and industrially.

MSc Biostatistics

PSO1.	Students will able to understand health and epidemiological issues
PSO2.	Able to identify factors affecting health problems
PSO3.	Able to study about incidence of diseases and causes
PSO4.	Able to plan, design and conduct clinical trials

PSO5.	Able to assess the efficiency of medicines
PSO6.	Able to conduct testing as well as estimation
PSO7.	Able to analyse, visualize, comprehension and interpret data
PSO8.	Able to determine sample size and clinical data management
PSO9.	Get expertise in computational Biology
MSc Biotechnology	
PSO1.	An education in cell biology will impart knowledge to the students to understand origins of cells and the generation of cell diversity, as well as the common features of cellular structure and function – how they obtain energy, synthesize new molecules, communicate, proliferate and survive.
PSO2.	Students will understand the importance of microbiology which is an integrated part of Biotechnology. All the genetic manipulation of genes is carried primarily with the help of micro-organisms, hence, understanding the growth kinetics, their physiology and genetics is needed for better understanding the Molecular biology and genetic engineering.
PSO3.	Enabling the students to explore the intricacies of life forms at cellular, molecular and nano level.
PSO4.	Students will imbibe the importance of plant biotechnology regarding basic as well as advance knowledge about the in vitro culture, maintenance and preservation of plant cells, tissues and organs. The techniques of haploid, triploid and somatic hybrid plant production and their manipulation for quantitative and qualitative improved traits.
PSO5.	Students will be able design, conduct experiments, analyze and interpret data for investigating problems in Biotechnology and allied fields.
MSc Applied Microbiology	
PSO1.	To encourage a clear, comprehensive and advanced mastery in the field of Applied Microbiology.
PSO2.	To provide the excellence of biological sciences with special reference to Microbiology and its Applicable branches
PSO3.	Students will become familiar with the tools and techniques of genetic engineering- DNA manipulation enzymes, genome and transcriptome analysis and manipulation tools, gene expression regulation, production and characterization of recombinant proteins
PSO4.	To sustain students' motivation and enthusiasm and to help them not only to appreciate the beauty of microbial life forms but also to inspire them to explore the amazing properties of microbial world in favour of human life.
PSO5.	To develop problem solving skills in students and encourage them to carry out innovative research projects thereby enkindling in them the spirit of knowledge creation.

M Com	
PSO1.	The programme provides awareness to the learners regarding the developments in the field of Business, Commerce, Industry and Management and equips them to develop necessary analytical and managerial skills so as to cope up with the challenges posed by industry and environment, both national and global.
PSO2.	The programme facilitates graduates to acquire theoretical as well as practical knowledge in commerce, especially in finance and taxation.
PSO3.	This programme helps the students to attain eligibility for joining doctoral research, applying for examinations like SET, UGC- NET/JRF, KPSC, UPSC and other recruitment board examinations.
PSO4.	Students will acquire updated knowledge on research methods, techniques and the process and to develop skills in the application of research methods for business problem solving.
PSO5.	To build a strong inclination towards quantitative aptitude and analytical skills and acquiring contemporary knowledge in different areas of Commerce and Business Studies.
PSO6.	After this M. Com programme, graduates are empowered to enter into a career either in academics, research, or alternatively, in other professional areas of banking, insurance and finance such as taxation, consultancy and financial services.
PSO7.	Imparting advanced accounting knowledge and skills and to provide awareness regarding latest developments in the field of accounting, marketing, management and Taxation.
PSO8.	Inculcating managerial skills and theoretical knowledge for managing business units with special focus on functional areas of business, Finance and management.
