



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**CRITERION I – CURRICULAR ASPECTS**

**1.1 CURRICULUM DESIGN AND DEVELOPMENT**

**1.1.1 POST GRADUATE (PG) PROGRAMME OUTCOMES (POs) AND PROGRAMME SPECIFIC OUTCOMES (PSOs)**

**DEPARTMENT OF BIO-CHEMISTRY**

**PG PROGRAMME: M.Sc. BIO-CHEMISTRY**

**PROGRAMME CODE: PBC**

**ACADEMIC YEAR 2021-22**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAMME	PO LEVEL	OUTCOMES
M.Sc. BIO-CHEMISTRY	PO1	To make students understand the importance of biochemistry as a subject that deals with life processes, as well as the concepts, theories and experimental approaches followed in biochemistry, in order to pursue a research career, either in an industry or academic setting.
	PO2	To develop analytical and problem-solving skills.
	PO3	To create an awareness among the students on the interconnection between the interdisciplinary areas of biochemistry.
	PO4	To give the necessary practical skills required for biochemical techniques and analysis.
	PO5	To update the knowledge of RFLP and FISH techniques.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAMME	PSO LEVEL	OUTCOMES
<b>M.Sc. BIO-CHEMISTRY</b>	<b>PSO 1</b>	Understand the principles and methods of various techniques in Biochemistry, Immunology, Microbiology, Enzyme kinetics and Molecular Cell Biology. Based on their understanding, the students may would be able to design and execute experiments during their final semester project, and further research programs.
	<b>PSO 2</b>	Insight on the structure-function relationship of biomolecules, their synthesis and breakdown, the regulation of these pathways, and their importance in terms of clinical correlation. Students will also acquire knowledge of the principles of nutritional biochemistry and also understand diseases and their prevention.
	<b>PSO 3</b>	To understand the concepts of cellular signal transduction pathways and the association of aberrant signal processes with various diseases. Acquire insight into the immune system and its responses, and use this knowledge in the processes of immunization, vaccine development, transplantation and organ rejection.
	<b>PSO 4</b>	To visualize and appreciate the central dogma of molecular biology, regulation of gene expression, molecular techniques used in rDNA technology, gene knock-out and knock-in techniques.
	<b>PSO 5</b>	To create awareness in students about the importance of good laboratory practices and the importance of ethical and social responsibilities of a researcher. Teach them how to review literature and the art of designing and executing experiments independently and also work as a part of a team.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF BOTANY**

**PG PROGRAMME: M.Sc. BOTANY**

**PROGRAMME CODE: PBO**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.Sc. BOTANY	PO1	Graduates will be able to apply the concepts learnt, in real life situations with analytical skills.
	PO2	Graduates with acquired skills and enhanced knowledge will be employable/ become entrepreneurs or will pursue higher Education.
	PO3	Graduates with acquired knowledge of modern tools and communicative skills will be able to contribute effectively as team members.
	PO4	Graduates will be able to read the signs of the times analyze and provide practical solutions.
	PO5	Graduates imbued with ethical values and social concern will be able to appreciate cultural diversity, promote social harmony and ensure sustainable environment.

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES
		Students will be able to
M.Sc. BOTANY	PSO1	Identify various group of plants, their functions, utilization and conservation aspects and give scientific explanation for the unity and diversity on earth and need for conservation.
	PSO2	Aware about the systematics, structure and functions of plants for effective management of cultivation practices for improved plant performance.
	PSO3	Utilize the knowledge of interdisciplinary subjects such as Molecular biology, Biotechnology, Bioinformatics and Biostatistics for the mitigation of biodiversity and environmental issues.
	PSO4	Apply the gardening and landscaping, plant tissue culture techniques for entrepreneurship and commercialization.
	PSO5	Appraise various analytical techniques for planning and execution of biological experiments, and drafting them as a report.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

## DEPARTMENT OF CHEMISTRY

**PG PROGRAMME: M.Sc. CHEMISTRY**

**PROGRAMME CODE: PCH**

### PROGRAMME OUTCOMES (POs)

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES <i>After Completion of the programme, the students will</i>
M.Sc. CHEMISTRY	PO1	Acquire knowledge and understanding of essential facts, concepts, principles, theories of chemistry.
	PO2	Acquire professional skills in handling scientific instruments, planning and performing in laboratory experiments.
	PO3	Enhance the employability skills in the competitive environment.
	PO4	Succeed in career endeavours and contribute significantly to society.
	PO5	Equip with skills and competencies to become an entrepreneur in core chemistry fields.

### PROGRAMME SPECIFIC OUTCOMES (PSOs)

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES <i>After Completion of the programme, the students would</i>
M.Sc. CHEMISTRY	PSO1	Have a strong foundation in the fundamentals and applications of scientific theories in various branches of chemistry.
	PSO2	Develop skills to evaluate, analyze and interpret the chemical information and data.
	PSO3	Provide opportunities to excel in academics, research or Industry.
	PSO4	Develop research skills through Project work in different fields of chemistry.
	PSO5	Have a knowledge on the relevance of extension of chemistry in the social context for solving social issues.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)**  
**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF COMMERCE**

**PG PROGRAMME: M.COM.**

**PROGRAMME CODE: PCO**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.COM.	PO1	<b>Problem Solving Skill:</b> Apply knowledge of management theories and Human Resources Practices to solve business problems through research in Global Context.
	PO2	<b>Decision Making Skill:</b> Faster analytical and critical thinking abilities for data-based decision-making.
	PO3	<b>Employability Skill:</b> Inculcate contemporary business practices to enhance employability skills in the competitive environment.
	PO4	<b>Entrepreneurial Skill:</b> Equip with skills and competencies to become an entrepreneur.
	PO5	<b>Moral and Ethical Awareness/ Reasoning</b> Ability to embrace moral/ethical values in conducting one's life.

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES
M.COM.	PSO1	<b>Placement:</b> To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, beliefs and apply diverse frames of reference to decisions and actions.
	PSO2	<b>Entrepreneur:</b> To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making a leadership skill that will facilitate startups and potential organization.
	PSO3	<b>Research and Development:</b> Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.
	PSO4	<b>Contribution to Business World:</b> To produce employable, ethical and innovative professionals to sustain in the dynamic business world.
	PSO5	<b>Contribution to the Society:</b> To contribute to the development of the society by collaborating with stakeholders for mutual benefit.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)**  
**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**PG PROGRAMME: M.Sc. COMPUTER SCIENCE**

**PROGRAMME CODE: PCS**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.Sc. COMPUTER SCIENCE	PO1	Students trained to adopt new computer technologies.
	PO2	Students explore knowledge of their own computer programming ability.
	PO3	Students are trained to frame and execute programs of the requirements with logics in an automated manner.
	PO4	Students have the ability to enhance and adapt computer programming and usage with existing knowledge.
	PO5	Students are enlightened to develop new innovation and acquire skills in programming.

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES
M.Sc. COMPUTER SCIENCE	PSO1	Implement the logic for solving the real life problems by using the knowledge in Computer Science.
	PSO2	Competence to understand, analyze, design, develop, test, implement and document in different software.
	PSO3	Using creative skill to evolve new ideas, for solving real time problems and the quest for finding new solutions.
	PSO4	Creating a multifunctional software solutions for public and private sectors with multidiscipline automation work.
	PSO5	Imparting socially responsibility or imparting service minded entrepreneurs benefiting to the society.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF ECONOMICS**

**PG PROGRAMME: M.A. ECONOMICS**

**PROGRAMME CODE: PEC**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.A. ECONOMICS	PO1	Entire study of course structure.
	PO2	Mastery of subject knowledge in Economics and its sphere.
	PO3	Mature personality for employability and Entrepreneurial activities.
	PO4	Skills of self – Life Long Learning.
	PO5	Ability to exertion / serve / work.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)**  
**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

<b>NAME OF THE PROGRAM</b>	<b>PSO LEVEL</b>	<b>OUTCOMES</b>
<b>M.A. ECONOMICS</b>	<b>PSO1</b>	To impart in wisdom of information to students about economic theory regarding utilisation and allocation of possessions including labour, natural resources and capital.
	<b>PSO2</b>	To progress students' understanding about how market for goods and services function and how income is generated and distributed.
	<b>PSO3</b>	To give students in depth knowledge into special fields of choice like agricultural Economics, industrial economics, financial market, development economics, international trade, urban economics and economic statistics.
	<b>PSO4</b>	To make students familiar with economic theories and their relevance apply statistics in research in the various field of economics.
	<b>PSO5</b>	Students would know how the economy is influenced by economic policy technological advances and demographic conditions.





**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)**  
**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF ENGLISH**

**PG PROGRAMME: M.A. ENGLISH**

**PROGRAMME CODE: PEL**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.A. ENGLISH	PO1	Introduces different literary periods and trends of each of these periods.
	PO2	Helps the students learn the evolution of language and the politics.
	PO3	Cultivates language skills of students by introducing them to structures of language through a wide variety of literary works.
	PO4	Introduces works written by different sections of people (gender, racial and ethnic minorities) and makes the students give critical responses from different perspectives.
	PO5	Instills a critical perspective with which students approach the disciplines and hones the writing skills of students to learn the conventions of academic writing.

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES
M.A. ENGLISH	PSO1	Learn literary terms and the various streams in literary criticism, inter-disciplinary nature of contemporary criticism and to develop in students, skills for literary criticism.
	PSO2	Develop sensible response to great classics in translation and fine tune analytical skills with a view to achieving a broad, wholesome vision of life.
	PSO3	Capable of interpreting and exploring relationships from the points of view of different people.
	PSO4	Come to know about the evolution of the Feminist movement familiarizing with the various issues addressed by Feminism like marginalization and subjugation of women.
	PSO5	Inculcate a literary, aesthetic and critical awareness of diverse cultures and literary creations getting a broader vision of the world.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF GEOGRAPHY**

**PG PROGRAMME: M.Sc. GEOGRAPHY**

**PROGRAMME CODE: PGE**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.Sc. GEOGRAPHY	PO1	Compare and contrast geographical ideas, philosophies, and conceptions, including unifying themes of spatial patterns and structures, the interrelationship between people and places, and the interplay between nature and society.
	PO2	Show an advanced awareness of, and capacity to distinguish between, the many approaches employed in geographic research.
	PO3	Gather, analyze, evaluate, interpret, and critique geographic information and/or research.
	PO4	Communicate knowledge of geographic data, ideas, philosophies, and concepts orally, in writing, and visually, while maintaining ethical engagement and respect for the diversity of individuals, groups, and cultures.
	PO5	Identify and evaluate how geographic concepts are used to solve real-world problems in the business and in everyday life



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)**  
**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

<b>NAME OF THE PROGRAM</b>	<b>PSO LEVEL</b>	<b>OUTCOMES</b>
<b>M.Sc. GEOGRAPHY</b>	<b>PSO1</b>	Students will gain a thorough understanding of various geographic principles, theories, and concepts, including physical and human geography.
	<b>PSO2</b>	Students will gain research and analytical skills as they design and conduct geospatial investigations, collect and interpret data, and apply statistical methods and geographic information systems to analyze spatial patterns and relationships.
	<b>PSO3</b>	Assess the environmental impact of human activities, investigate the implications of climate change, and develop strategies for sustainable resource management.
	<b>PSO4</b>	Students will be proficient in using geospatial technologies such as GIS, remote sensing, and global positioning systems to collect, manipulate, and visualize geographical data for a variety of applications.
	<b>PSO5</b>	Students will improve their written and oral communication skills in order to effectively convey complex geographical information and research findings to a variety of audiences.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)**  
**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF HISTORY**

**PG PROGRAMME: M.A. HISTORY**

**PROGRAMME CODE: PHI**

**PROGRAMME OUTCOMES (POs)**

<b>NAME OF THE PROGRAM</b>	<b>PO LEVEL</b>	<b>OUTCOMES</b>
<b>M.A. HISTORY</b>	<b>PO1</b>	<b>Disciplinary Knowledge</b> Develop comprehensive knowledge and understanding of the discipline of history at the postgraduate level. Understand the various concepts and theories.
	<b>PO2</b>	<b>Communication Skills</b> Communicate with Clarity and fluency their in- depth understanding of the subject; express their ideas and views coherently.
	<b>PO3</b>	<b>Critical Thinking, Analytical Reasoning and Problem Solving</b> Critically analyse, examine and evaluate the issues based on facts and evidences; apply one's learning to real life situations and generate new knowledge; analyse and synthesize data from a variety of sources; draw; valid conclusions.
	<b>PO4</b>	<b>Information/ Digital Literacy and Research- related skills</b> Demonstrate ability to use ICT tools. Raise relevant questions, recognise cause and effect relationships, define problems, formulate hypotheses, ability to plan, execute and report the results.
	<b>PO5</b>	<b>Multicultural Competence</b> Understand various cultures, appreciate their values; acquire a global perspective to equip them to work in a multicultural environment.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)**  
**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

<b>NAME OF THE PROGRAM</b>	<b>PSO LEVEL</b>	<b>OUTCOMES</b>
<b>M.A. HISTORY</b>	<b>PSO 1</b>	<b>Domain Knowledge</b> Explain the Meaning of History, identify the sources, discuss the historical events and processes, the various concepts and theoretical approaches.
	<b>PSO 2</b>	<b>Communication, Entrepreneurial and Employable skills</b> Communicate effectively and use ICT tools, Acquisition of entrepreneurial and employability skills.
	<b>PSO3</b>	<b>Critical Thinking, Analytical Reasoning and Problem Solving</b> Approach various issues with a critical and analytical mind for viable solutions. Evaluate the Historical debates and issues.
	<b>PSO4</b>	<b>Contribution to Higher learning</b> Acquire the knowledge and skills to pursue higher studies in the domain.
	<b>PSO 5</b>	<b>Contribution to Society</b> Contribute to the development of society due to understanding of the historical roots and context of the various social, environmental, human rights, women's and others issues faced by humanity.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF MATHEMATICS**

**PG PROGRAMME: M.Sc. MATHEMATICS**

**PROGRAMME CODE: PMA**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.Sc. MATHEMATICS	PO1	To provide comprehensive curriculum to groom the students into qualitative scientific manpower.
	PO2	Enable students to enhance mathematical skills and understand the fundamental concepts of pure and applied mathematics.
	PO3	To provide qualitative education through effective teaching learning processes by introducing projects, participative learning and latest software tools.
	PO4	To inculcate innovative skills, team work, ethical practices among students so as to meet societal expectations.
	PO5	To encourage collaborative learning and application of mathematics to real life situations.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES
<b>M.Sc. MATHEMATICS</b>	<b>PSO1</b>	Apply the knowledge of Mathematical concepts in interdisciplinary fields. Effectively communicate and explore ideas of mathematics for propagation of knowledge and popularization of mathematics in society.
	<b>PSO2</b>	Understand the nature of abstract Mathematics and applied Mathematics to explore the concepts in further details. Employ confidently the knowledge of mathematical software and tools for treating the complex mathematical problems and scientific investigations.
	<b>PSO3</b>	Model the real-world problems in to Mathematical equations and draw the inferences by finding appropriate solutions. Continue to acquire mathematical knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in mathematics.
	<b>PSO4</b>	Identify challenging problems in Mathematics and find appropriate solutions. Comprehend and write effective reports and design documentation related to mathematical research and literature, make effective presentations.
	<b>PSO5</b>	Pursue research in challenging areas of pure/applied mathematics and qualify national level tests like NET/GATE etc.



தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)  
**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF PHYSICS**

**PG PROGRAMME: M.Sc. PHYSICS**

**PROGRAMME CODE: PPH**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAMME	PO LEVEL	OUTCOMES
M.Sc. PHYSICS	PO1	<b>Critical thinking:</b> Capability to apply the analytic thought to a body of knowledge; analyse and evaluate the proofs, arguments, claims, beliefs on the basis of empirical evidences; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach.
	PO2	<b>Problem solving:</b> Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.
	PO3	<b>Analytical reasoning:</b> Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.
	PO4	<b>Research-related skills:</b> A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesizing and articulating; Ability to recognize cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.
	PO5	<b>Scientific reasoning:</b> Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.





**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAMME	PSO LEVEL	OUTCOMES
<b>M.Sc. PHYSICS</b>	<b>PSO1</b>	<b>Placement:</b> To prepare the students who will demonstrate respectful engagement with others ideas, behaviors, and beliefs and apply diverse frames of reference to decisions and actions.
	<b>PSO2</b>	<b>Entrepreneur:</b> To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate start-ups and high potential organizations.
	<b>PSO3</b>	<b>Research and Development:</b> Design and implement HR systems and practices grounded in researches that comply with employment laws, leading the organization towards growth and development.
	<b>PSO4</b>	<b>Contribution to Business World:</b> To make the students employable, ethical and innovative professionals to sustain in the dynamic business world.
	<b>PSO5</b>	<b>Contribution to the Society:</b> To contribute to the development of the society by collaborating with stakeholders for mutual benefit.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)**  
**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF STATISTICS**

**PG PROGRAMME: M.Sc. STATISTICS**

**PROGRAMME CODE: PST**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.Sc. STATISTICS	PO1	Possess adequate knowledge in theory and applications .
	PO2	Adopt conceptual ideas, principles and methods in diversified fields of study.
	PO3	Utilize analytical skills for basic mathematical computation.
	PO4	Utilize software skills for statistical computation.
	PO5	Prepare to participate in competitive examinations at the state and national.

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES
M.Sc. STATISTICS	PSO1	Comprehend the theoretical aspects of statistics.
	PSO2	Recognize the application of statistics in diversified fields.
	PSO3	Develop computer programs and codes for statistical computation.
	PSO4	Utilize statistical software effectively for data analysis.
	PSO5	Understand the conditions and limitations of statistical methods in application.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF TAMIL**

**PG PROGRAMME: M.A. TAMIL**

**PROGRAMME CODE: PTL**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.A. TAMIL	PO1	தமிழ் மொழியறிவைச் சிறப்பாகப் பெறுவார்.
	PO2	இலக்கண இலக்கியங்களின் நுட்பங்களை உணர்ந்து கொள்வார்.
	PO3	முத்தமிழ்ப் பிரிவிலும் நல்ல தேர்ச்சியைப் பெறுவார்.
	PO4	இலக்கணத்தோடு மொழியியலையும் நன்கறிவார்.
	PO5	தமிழைக் கற்கவும் கற்பிக்கவும் ஆற்றலைப் பெறுவார்.

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES
M.A. TAMIL	PSO1	தமிழ் மொழியைப் பிழையறப் பயன் கொள்வார்.
	PSO2	பழைய படைப்புகளின் தோற்றம் குறித்தறியும் திறனைப் பெறுவார்.
	PSO3	புதிய படைப்புகளுக்கு வழிகோலுவார்.
	PSO4	இன்றையச் சூழலுக்கு ஏற்ப மொழியியல் விதிகளை நன்கு பயன்படுத்திக் கொள்வார்.
	PSO5	வருங்கால மாணவர்களுக்குத் தமிழ் மொழியைப் பிழையின்றிக் கற்றுக் கொடுப்பார்.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (அ)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF VISUAL COMMUNICATION**

**PG PROGRAMME: M.Sc. VISUAL COMMUNICATION**

**PROGRAMME CODE: PVC**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.Sc. VISUAL COMMUNICATION	PO1	<b>To possess disciplinary knowledge, communication &amp; technical skills required in media industry:</b> Develop skills required to meet the demands of media and entertainment industry. Ability to express thoughts and ideas effectively in writing and orally communicate with others using appropriate media and to develop creative and innovative ways to generate, and design effective messages across media platforms.
	PO2	<b>Critical thinking and research skills:</b> Capability to apply the analytic thought to a body of knowledge; analyse and evaluate the proofs, arguments, claims, beliefs on the basis of empirical evidences; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships.
	PO3	<b>Information/Digital Literacy and updation to technological developments:</b> Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data. Be able to use the software's and other technologies and be creative in designing concepts effectively.
	PO4	<b>Understanding media in multicultural environment and its effects on society:</b> Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.
	PO5	<b>Employability skills, ethical values and lifelong learning:</b> Ability to embrace moral/ethical values in conducting one's life, to engage in ethically and socially responsible media practices and serve as a change agent. Ability to acquire knowledge and skills, including "learning how to learn", that are necessary for participating in learning activities throughout life.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES
<b>M.Sc. VISUAL COMMUNICATION</b>	<b>PSO1</b>	<b>Understanding media industry, its organisational setup and impact on society:</b> Have an understanding of the work set up of various media industries, content creation and delivery and its impact on the society.
	<b>PSO2</b>	<b>Entrepreneurship and placement:</b> Be endowed with practical knowledge and skills to pursue a rewarding career in media and entertainments industries. To become an enterprising, enthusiastic and a creative media entrepreneur.
	<b>PSO3</b>	<b>Research and development:</b> Gain a deeper understanding of communication theories and processes and apply them creatively in generation of media content. Be able to conduct media research effectively for the betterment of the society.
	<b>PSO4</b>	<b>Updated to present media business world and have effective communication and technical skills:</b> Demonstrate mastery over a range of skill sets and techniques to work on multiple platforms and formats. To become an active and adaptive leader, to keep pace with the rapid changes in media industry.
	<b>PSO5</b>	<b>Contribution to the society:</b> To contribute to the development of the society by making ethical and socially conscious decisions in professional media practices.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**DEPARTMENT OF ZOOLOGY**

**PG PROGRAMME: M.Sc. ZOOLOGY**

**PROGRAMME CODE: PZO**

**PROGRAMME OUTCOMES (POs)**

NAME OF THE PROGRAM	PO LEVEL	OUTCOMES
M.Sc. ZOOLOGY	PO1	Comprehending the basic knowledge on the animal kingdom and their evolution. Perceive in the cytogenetic mechanism of cell at molecular level and principles of bio-techniques.
	PO2	Understanding the functional anatomy and life cycle of auna. Applying the natural aspects of life for framing the technologies for the production of life saving products necessary to maintain the good health and the welfare of the society.
	PO3	Grasping the knowledge of commercially important organisms to develop the entrepreneurial skill for the uplifting the economic status of villagers.
	PO4	Developing awareness over the protection of the environment through the nature oriented and eco-friendly sustainable practices.
	PO5	Designing a search project, analyzing interpreting and solving the problems statistically.



**தந்தை பெரியார் அரசு கலை மற்றும் அறிவியல் கல்லூரி (த)  
THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE(A)**

(Nationally Re-Accredited with 'A' Grade by NAAC in 3<sup>rd</sup> Cycle)

(Affiliated to Bharathidasan University, Tiruchirappalli - 24)

No.36/2, Race Course Road, Khajamalai, Tiruchirappalli - 620 023 Tamilnadu, India.

Ph : 0431 - 2420079 | E : periyarevrcollege@yahoo.com | W : www.thanthaiperiyargasc.ac.in

**PROGRAMME SPECIFIC OUTCOMES (PSOs)**

NAME OF THE PROGRAM	PSO LEVEL	OUTCOMES
<b>M.Sc. ZOOLOGY</b>	<b>PSO1</b>	Relate the structural, functional and ecological adaptations. Compare and contrast the anatomy of diversified species of invertebrate and chordate fauna. Classify the fauna and infer the taxonomic positions understand the evolutionary sequence.
	<b>PSO2</b>	Observe, classify and distinguish the taxonomic characters of bacteria, viruses, insects. Analyze their economic importance and formulate the control measures. Understand the mechanism of immunity against the microbes and the importance of Immunization schedule. Estimate the biochemical components of natural or biological samples.
	<b>PSO3</b>	Correlate the cell structures with their physiological functions, Analyze the role of fenzymes and hormoneson various metabolic reactions. Understand the classical, Microbial and human genetics Predict the character so next generation with the genetic principles of heredity and interpret the different evolutionary processes.
	<b>PSO4</b>	Apply the principles of microbiology, embryology, physiology and biotechnology to become entrepreneurs of environment friendly bio-industries like, dairy industry, organic pharma industry, poultry farming, vermin compost manufacturing, aquaculture, sericulture and apiary.
	<b>PSO5</b>	Understand the molecular mechanism of embryological development and physiological systems Role of nutrition on the development of animals and immunity. Learn the importance of yoga and exercise for wellbeing. Apply the knowledge of genetic. Engineering and microbiology for the production of biologically important products.