



V.O.CHIDAMBARAM COLLEGE

Reaccredited with 'A' Grade by NAAC with CGPA 3.31 out of 4 - 3rd Cycle
Ranked 30th Position in NIRF - India Rankings 2022

Thoothukudi - 628008. Tamil Nadu.

CRITERION -2

TEACHING-LEARNING & EVALUATION



2.6. Student Performance and Learning Outcome

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Department of Tamil

**PROGRAM OUTCOMES (PO) IN RELATION TO GRADUATE ATTRIBUTES
PROGRAMME OUTCOMES**

இளங்கலைத் தமிழ் பயின்று முடித்த மாணவர்கள் பின்வரும் செயல்களைச் செய்யும் ஆற்றல்களைப் பெற்றிருப்பர்.

S.N O	GRADUATE ATTRIBUTES	PROGRAMME OUTCOMES
1.	அறிவாற்றல்	தமிழ் மொழி, இலக்கியம், இலக்கணம், மொழியியல், பண்பாடு, வரலாறு சார்ந்த அறிவையும் ஆற்றலையும் மாணவர்களிடையே வளர்த்தல். (PO1)
2.	மொழியாற்றல்	தான் கூற விரும்பும் கருத்துகளை இனிமையும், நயமும் சேர பிறர் ஏற்றுக்கொள்ளும் வகையில் பிழையில்லாமல் தேர்ந்த பேச்சு / எழுத்துகள்வழிக் கூறும் ஆற்றலை வளர்த்தல். (PO2)
3.	போட்டித் தேர்வுகள்	TNPSC, UPSC, TRB, TET போன்ற போட்டித் தேர்வுகளில் கலந்துகொண்டு வெற்றிபெறும் வகையில் தயார்படுத்தல். (PO3)
4.	படைப்பாற்றல்	படைப்பாற்றல், திறனாய்வுப் பண்புகள் நிறைந்தவர்களாக உருவாகுதல். (PO4)
5.	ஆளுமைப் பண்பு	பாடத்திட்டம் சார்ந்த பல்வேறு நிகழ்ச்சிகள் & போட்டிகள் வாயிலாக மாணவர்களின் திறன்களையும் ஆளுமைத் திறன்களையும் கண்டறிந்து வளர்த்தல். (PO5)
6.	அறம், பக்தி & சமூகப் பொறுப்பு	பாடத்திட்டத்தில் உள்ள அறம், பக்தி, இயற்கைப் பாதுகாப்பு சார்ந்த உணர்வுகளைத் தங்கள் வாழ்க்கையில் பயன்படுத்தல். (PO6)
7.	கற்றல் வேட்கை	தமிழின் தனிச்சிறப்பை / அடையாளத்தை / சுவையை / கற்பதன் மூலம் கற்றல் வேட்கை உருவாகி ஆய்வாளர், ஊடகவியலாளர், படைப்பாளர் எனப் பல தளங்களில் இயங்குதல். (PO7)

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Department of English

Programme Outcomes:

PSO. No.	At the end of the programme, the students will be able to:
PO – 1	acquire knowledge of various literary works and students of thought
PO – 2	explore the avenues of world literatures
PO – 3	utilize the skills acquired through the programme
PO – 4	think critically and apply theoretical approaches to literary texts
PO – 5	view and enjoy literary works through nuanced perspectives
PO – 6	equip themselves to undertake research projects
PO – 7	appreciate the unique merits of different literary genres
PO – 8	acquaint themselves with the key concepts of language and linguistics

DEPARTMENT OF ENGLISH PG

Programme Outcomes: MA

P.O. No.	At the end of the programme, the students will be able to:
PO1	comprehend the significance of literary works in their social, cultural and ideological contexts.
PO2	discover the incredible diversity of the English Language and Literature throughout the history of the world
PO3	ascertain how writers have reacted to the social developments of their contemporary period and produced a text.
PO4	express the hermeneutic engagement of creative texts with gender, race, region and identity across various significations
PO5	problematise the Post-colonial Literatures and cultures with a nationalist perspective.
PO6	develop comprehensive reading, writing, and research skills of high order.
PO7	undertake academic and literary profession.
PO8	adapt themselves to the changing aspects of academic and creative professionalism.

DEPARTMENT OF MATHEMATICS UG

PROGRAMME OUTCOMES

PO1 - Bachelor's degree in mathematics is the culmination of in-depth knowledge of algebra, calculus, geometry, differential equations and several other branches of mathematics. This also leads to study of related areas like computer science and statistics. Thus, this programme helps the learners in building a social foundation for higher studies in mathematics.

PO2 - The skills and knowledge gained has intrinsic beauty, which leads to proficiency in analytical reasoning. This can be utilized in modelling and solving real life problems

PO3 - Students undergoing this programme learn to logically questions assertions, to recognise patterns and to distinguish between essential and irrelevant aspects of problems. They also share ideas and insights while seeking and benefitting from knowledge and insight of others. This helps them to learn behave responsibly in a rapidly changing independent society

PO4 - Students completing this programme will be able to present mathematics clearly and precisely, make vague ideas precise by formulating them in the language of mathematics, describe mathematical ideas from multiple perspectives and explain fundamental concepts of mathematics to non-mathematicians.

PO5 - Completion of this programme will also enable the learners to join teaching profession in primary and secondary schools.

PO6 - This programme will also help students to enhance their employability for government jobs, jobs in banking, insurance and investment sectors, data analyst jobs and jobs in various other public and private enterprises.

DEPARTMENT OF MATHEMATICS PG

PROGRAMME OUTCOMES (POs)

The M.Sc. Mathematics programme will enable the students to

PO - 1	Knowledge	Capable of demonstrating comprehensive disciplinary knowledge gained during course of study
PO - 2	Research Aptitude	Capability to ask relevant/appropriate questions for identifying, formulating and analyzing the research problems. and to draw conclusions from the analysis.
PO - 3	Communication	Ability to communicate effectively on general and scientific topics with the scientific community and with the society at large
PO - 4	Problem Solving	Capability of applying knowledge to solve scientific and other problems
PO - 5	Individual and Team Work	Capable to learn and work effectively as an individual, and as a member or leader in diverse teams, in multidisciplinary settings.
PO - 6	Investigation of Problems	Ability of critical thinking, analytical reasoning and research based knowledge including design of experiments, analysis and interpretation of data to provide conclusions.
PO - 7	Modern Tool usage	Ability to use and learn techniques, skills and modern tools for scientific practices.
PO - 8	Science and Society	Ability to apply reasoning to assess the different issues related to society and the consequent responsibilities relevant to the professional scientific practices
PO - 9	Life-Long Learning	Aptitude to apply knowledge and skills that are necessary for participating in learning activities throughout life
PO - 10	Project Management	Ability to demonstrate knowledge and understanding of the scientific principles and apply these to manage projects

DEPARTMENT OF PHYSICS UG

Programme Outcome

Upon completion of B.Sc degree programme, the graduates will be able to

PO1: acquire a fundamental concepts in the field of Physics and procedural knowledge that creates different types of professionals related to the subject area of Physics, including professionals engaged in research and development, teaching and government / public service.

PO2: demonstrate the ability to use skills in Physics and its related areas of technologies for formulating and tackling Physics related problems.

PO3: inculcate innovative skills and teamwork among students to meet societal expectations.

PO4: perform analysis to assess, interpret and create innovative ideas through practical experiments.

PO5: facilitate to enter multidisciplinary path to solve day-to-day scientific problems.

PO6: carry out fieldworks and projects both independently and collaboration with others and to report in a constructive way.

PO7: improve communication ability and knowledge transfer through ICT aided learning integrated with Library resources.

PO8: attain competency in job market / entrepreneurship

DEPARTMENT OF PHYSICS PG

PROGRAMME OUTCOME

PO1	Appreciate the nuances of basic sciences to conceive innovative ideas to enrich the existing technology.
PO2	Build new perspectives to look at day to day activities from science point of view.
PO3	Take part in finding solutions for complex problems by applying appropriate techniques using modern scientific tools.
PO4	Understand the impact of science in matters pertaining to sociology, economics and environmental issues for sustainable development
PO5	Comprehend the basic and advanced concepts in Science to acquire theoretical knowledge as well as practical skills
PO6	Develop a research oriented learning that cultivates analytical and integrative critical thinking skills.
PO7	Improve sustainable learning at the individual and group level by visiting industries and R & D organizations.

DEPARTMENT OF CHEMISTRY UG

Program Outcomes (POs)

On successful completion of the Undergraduate Program the graduates/ students will able to

PO1 - Understand the basics of science and apply their knowledge in day-to-day life

PO2 - Develop skills to carry out experiments in various branches of science.

PO3 - Have enough scientific knowledge to go for higher studies and become entrepreneur

PO4 - Identify, formulate and solve the technological problems of the industry

PO5 - Effective written and oral communication skills especially the ability to transmit complex technical information in a clear and concise manner

PO6 - Understand the issues of environmental contexts and sustainable development.

PO7 - Acquire professional ethics and act in a non-biased manne

DEPARTMENT OF CHEMISTRY PG

PROGRAMME OUTCOMES (POs):

On successful completion of the Programme, students will be able to

PO1: Function as responsible individuals with ethical values, accountable to the community.

PO2: Gain detailed knowledge of the major areas of chemistry including a wide range of factual information and experimentally observed phenomena.

- PO3:** Apply chemical concepts in new situations and computational software in chemistry efficiently.
- PO4:** Think critically and analyze chemical problems.
- PO5:** Work effectively and safely in a laboratory environment.
- PO6:** Present scientific and technical information resulting from laboratory experimentation by means of oral presentation, scientific poster or a written report.
- PO7:** Pursue higher education / employable/ entrepreneur.
- PO8:** Work in teams as well as independently in academia, industry or government.

DEPARTMENT OF BOTANY UG

Programme Outcomes (POs)

On completion of B.Sc. Botany programme, the student shall be able to

- PO1.** Basic Knowledge: Understanding of plant diversity and its significance in maintaining ecological equilibrium.
- PO2.** Inferential Knowledge: Students learn how to understand plant morphology and anatomy, plant identification, and vegetation analysis techniques in the field and in the laboratory.

PO3. Application Knowledge: Apply the knowledge of basic science, biological sciences, and plant fundamentals.

PO4. Analytical and Critical Knowledge: Prioritize exploration into current techniques and tools for biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue Culture trials, cellular and physiological assessments of plants, and review of its applications in human life.

PO5. Creative Knowledge: Develop and pivot in societal upliftment through tackling health, environmental challenges, food insecurity, and so on.

DEPARTMENT OF BOTANY PG

PROGRAMME OUTCOME

PO - 1	Strong and competent knowledge in basic Plant Sciences
PO - 2	Updated knowledge related to the subjects.
PO - 3	To develop diversified basic professional skills through various laboratory technical training, communication and presentation skills
PO - 4	ability to identify, formulate, and solve problems, related to the subject of Botany by applying reasoning and technical inputs

PO - 5	Course provides wide interdisciplinary knowledge and stimulates the students to think beyond the course knowledge, apply this knowledge for solving the environmental problems, efficient use of resources by designing novel and innovative experiments.
PO - 6	Impart leadership abilities to the students to lead and excel in their respective fields. The deep knowledge of the subject, analytical and scientific reasoning, effective communication and problem solving task develop special qualities in a person to attract and influence the audience

DEPARTMENT OF ZOLLOGY UG

PROGRAMME OUTCOMES (POs)

Upon completion of B.Sc Programme the student will be able to

PO1: provide deep understanding of fundamental facts and concepts of Science and develop critical thinking skills in the field of Science.

PO2: effectively communicate scientific concepts orally and in writing and ensure scientific thinking.

PO3: express and exchange ideas related to scientific concepts for promoting social responsibility.

PO4: pursue higher studies up to research in multidisciplinary level and/or interdisciplinary become professionals.

PO5: practice ethics in personal and professional life to build a healthy nation.

PO6: construct a safe environment and plan sustainable utilization of resources

PO7: expertise in independent decision making and become economically independent.

DEPARTMENT OF ZOLLOGY PG

Programme Outcomes (POs)

Upon completion of M.Sc., programme the students will be able to

- PO1:** Gain knowledge and skill in the fundamentals of both classic and applied aspects.
- PO2:** Analyse the interactions among the diverse animals and their relationship with the environment.
- PO3:** Understand the various genetic principles and their importance to animal and human health.
- PO4:** Acquire knowledge on applied and agro-based industries such as sericulture, aquaculture, poultry farming, vermicomposting etc.
- PO5:** Make use of the principles and professional ethics while delivering their duties in relevant fields.
- PO6:** Apply the knowledge and understanding for utilization of renewable energy for sustainable development and creating a clean and healthy environment.
- PO7:** Contribute their education and experience to the development of our country.

DEPARTMENT OF GELOGY UG

Programme Outcomes (POs)

PO – 1	The syllabus is based on an integrated curriculum with an approach to provide learning through problem solving and hands on training techniques.
PO – 2	At the end of three years of B. Sc. Geology course students would gain through understanding in the fundamental concepts of geological sciences.
PO – 3	Providing Quality Higher Education and taking care of intellectual, social, economic, emotional needs of students.
PO – 4	Program aims to develop intellectual ability and geological skills through an appropriate blending of theoretical subject education, practical exercises and field training.
PO – 5	To provide basic degree required to appear for job selections in various services as recruited by UPSC, State and Central Government organisations
PO – 6	To train students to take up the technical assistant functions at various geological organisations like Survey of India, Oil and Natural Gas Commission, Geological Survey of India etc.
PO – 7	To motivate students to take up higher studies and ultimately research in different sub disciplines of the subject in India and abroad.
PO – 8	To develop appropriate skills in the students to make them competent to take up self-employment in innovative geology related fields.

DEPARTMENT OF GEOLOGY PG

PROGRAMME OUTCOMES (POs):

PO1 - SCIENTIFIC KNOWLEDGE - Applying the knowledge of Geology and its allied sciences to Geo-resource inventory and Natural Disaster management.

PO2 - PROBLEM ANALYSIS : Identify, formulate and solve Geological and technical problems.

PO3 - CONCEPTUALIZE/DEVELOP SOLUTIONS : Conceive and develop solutions to societal problems related to geological processes and to understand their origin and nature.

PO4 - CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS : Conduct experiments & collect, analyze and interpret Geological data.

PO5 - MODERN TOOL USAGE : Apply various mapping tools and techniques, usage of geological, geophysical and geochemical equipment to improve the understanding of the earth system science.

PO6 - COMMUNICATION: Proficiency in oral and written Communication.

PO7 - PROJECT MANAGEMENT AND FINANCE IMPLEMENT : cost effective and improved geo resource and geo hazard management system.

PO8 - LIFE-LONG LEARNING: Continue professional development and learning as a life-long activity

DEPARTMENT OF HISTORY UG

Programme Outcomes (POs)

PO1- It helps the students to understand a historical period and reduce the load of study in the concerned area.

PO2 - It is mandatory that a student develops proper knowledge of the historical events. It provides the learners with standard and upto date knowledge of historical events.

PO3 - It make the learners familiar with the dominant events of different ages, with new perspectives and they acquire a knowledge of the changing nature of politics or kingdoms of the changing times,

DEPARTMENT OF HISTORY PG

Programme outcomes(POs):

PO1: The programme will make the students to analyse relationship between the past and the present.

PO2: The programme will make the students to understand the existing social, political, religious and economic condition of the people.

PO3: The programme will make the students to focus work on constitutional amendments.

PO4: The programme will make the students to promote quality, equitable and effectiveness of education.

PO5: The programme will make the students to reach their goal.

PO 6: The programme will make the students to develop their ability to face the challenges of life.

DEPARTMENT OF ECONOMICS

PROGRAMME OUTCOMES (POs)

Upon completion of this undergraduate programme, the students will be able to

PO1: Understand the fundamental concepts and theories in their discipline and apply theories to analyse all the current socio-economic issues in a logical manner.

PO2: Demonstrate knowledge of basic statistical and mathematical tools and apply them to analyse the data.

PO3: Identify and discuss real issues and problems facing the country and the world without bias.

PO4: Enhance their entrepreneurial skill and excel in business.

PO5: Acquire in-depth competency to get employment, and communicate effectively with the community.

PO6: Recognize the social, environmental, and ethical responsibilities and commitment to them as responsible citizens.

DEPARTMENT OF ECONOMICS PG

Program Outcomes

PO1 - Identify the standard level of growth and development of the economy of the country and to determine and frame planning policies.

PO2 - Identify and formulate the research design, analyze data and be able to unite the research report and provide valid inferences.

PO3 - Understand the concepts of national income, macroeconomic variables such as multiplier, consumption, investment and general equilibrium.

PO4 - To gain mathematical knowledge for better understanding of economic concepts and theory and ability to apply the knowledge in the formulation and validation of economic theories.

PO5 - Understand and apply the knowledge of the industrial economics on location, efficiency, productivity and industrial policies

PO6 - Frame monetary policies, understand and analyze the value of money, cash balance, capital markets and banking system and hence improve the ability to compare central bank function with that of the other countries.

DEPARTMENT OF COMMRECE UG

PROGRAMME OUTCOMES:

Students at the time of graduation will be able to

PO1: To gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication and computer.

PO2: To acquire practical knowledge to take up the task of accounting professionals.

PO3: To serve as a launch pad for professional programmes like CA, CMA and ACS.

PO4: To demonstrate progressive learning of various financial issues related to individuals and businessmen to setting up their own business start-up.

PO5: To do their higher education and can build their career as business professionals.

DEPARTMENT OF COMMERCE PG

Program Outcome

Developing a complete professional, loaded with communication, leadership, decision making, problem solving and inter personal skills.

PO1 - Provide students with a sound theoretical base and exposure to current business challenges

PO2 - Prepare students with capabilities and skills in areas of finance to take up roles in financial services for management and analyst's position across diverse industries.

PO3 - The program is focused to create financial expertise to contribute in emerging India in the following specific fields

- Banking services
- Financial Accounting
- Financial Services
- Financial management
- Management Accounting

PO4 - To encourage creativity and innovative thinking leading to unique solution for complex problems.

PO5 - Enhance the ability of students to meet global challenges through sensitivity towards organizational, economic and cultural diversity.

PO6 - To make them capable of handling all kinds of financial risks

DEPARTMENT OF BBA

Programme Outcomes (POs):

PO1 - To impart knowledge of the foundations of management theory and its application in managerial decision making.

PO2 - Select and apply appropriate tools required for solving complex managerial problems.

PO3 - To develop capabilities in students to independently conduct theoretical as well as applied research.

PO4 - To develop sound knowledge of the entrepreneurial process and inculcate creativity and innovation among students.

PO5 - To produce industry ready graduates have highest regard for Personal & Institutional Integrity, Social Responsibility, Teamwork and Continuous Learning