



**GOVERNMENT ARTS COLLEGE (AUTONOMOUS),  
KARUR – 639 005.**

(Reaccredited with A Grade status by NAAC)  
(Affiliated to Bharathidasan University, Tiruchirappalli.)

**PG & RESEARCH DEPARTMENT OF BOTANY**

**M. Sc. BOTANY**

**Programme Outcomes**

- To enrich the students with recently developed fields such as Biotechnology, nanotechnology, plant tissue culture and microbiology
- To Keep the scientific temper with the student acquired to develop research attitudes.
- To understand the importance of plant molecular techniques
- To impart knowledge in latest learning resources in e- learning and digital instrumentation

**Programme Specific Outcomes**

- It gives knowledge about identification of herbal plants and its constituents from plants sources to rapid development of pharmacognosy and phytochemistry
- To create awareness about cultivation, conservation and sustainable utilization of the biodiversity
- To inculcate strong fundamentals on modern and classical aspects of Botany
- Students will be able to communicate biological knowledge in oral and written form
- To generate Research opportunities in various fields
- To understand the principles and applications of various biological equipments



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DEPARTMENT OF CHEMISTRY

M.Sc. CHEMISTRY

Programme Outcomes

1. Chemistry proficiency in all four disciplines of chemistry, like analytical, Organic, Inorganic and physical.
2. Students acquire the opportunities related to chemistry in government services through public services commission particularly in the field of food safety and health inspector.
3. Students achieve the skills required to succeed in industries , like rubber , petrochemical, food processing , fertilizer and paper industries.
4. Students understand the importance of periodic table including their physical and chemical nature and their role in daily life.
5. Students are able to use modern library searching and methods to obtain information about a topic , chemical, chemical technique or an issue relating to chemistry.

Programme Specific Outcomes

1. After the completion of the programme the students will get global level research opportunities to pursue Ph.D program targeted approach of CSIR- NET examination.
2. To understand and apply principles of organic chemistry for understanding the scientific phenomenon in reaction mechanisms.
3. The importance of various elements present in the periodic table, coordination chemistry and structure of molecules , properties of compounds , structural determination of complexes using theories and instruments were reached.
4. To understand the metal complexes in biological system.
5. To understand the physical aspects of atomic structure , molecular thermodynamics, quantum mechanics , reaction kinetics and group theory.
6. The students are capable of carrying out experiments in organic estimation, derivatives, semi-micro analysis, potentiometry, UV- Visible experiments.



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**PG & RESEARCH DEPARTMENT OF COMMERCE**

**MASTER OF COMMERCE**

**Programme Outcomes**

- 1. This programme will persuade the need for adapting to change and have the aptitude and ability to engage in independent and life-long learning tirelessly in the broadest perspective of socio-economic, technological and global change along with commerce disciplines.*
- 2. This programme will provide an in-depth understanding of all core areas especially in Advanced Accounting, International Accounting Standard, Security Market Operations and Business Environment, Management Tax planning and Research Methodology.*
- 3. M.Com., Graduates will have a solid foundation to pursue professional courses such as CA, CMA, ACS, MBA and Research programme like M.Phil and Ph.D.*

**Programme specific Outcomes**

- 1. This programme will equip the students to understand the timely challenges of business world and to develop the attitude to face the challenges with honest mindset to participate in establishment of development and progress.*
- 2. This programme will pave the ways to the students to have employment opportunities at investment consultants service industry, Banking and Insurance sector.*
- 3. This programme will prepare the students for an in depth quality and quantity analysis of securities and investment portfolio management.*
- 4. This programme will prepare the students to apply statistical methods and capable use of tools for analyzing business project data.*
- 5. This programme will provide guidance to students to undertake an independent research in the chosen broad field of commerce discipline.*
- 6. This programme will enable the students to be competent enough to face Professionals Screening tests like SET, NET, JRF.*



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**M.Sc Computer Science**

**PROGRAMME OUTCOMES**

- Ability to design, implement, and evaluate a computational system to meet desired needs within realistic constraints.
- Ability to function effectively on team to accomplish shared computing design, evaluation, or implementation goals.
- An understanding of professional, ethical, legal, security, and social issues and responsibilities for the computing profession.
- Ability to analyze impacts of computing on individuals, organizations, and society.
- Recognition of the need for and ability to engage in continuing professional development.
- Ability to apply design and development principles in the construction of software systems of varying complexity.

**PROGRAMME SPECIFIC OUTCOMES**

- Exhibit proficiency through latest technologies to business and personal situations in demonstrating the ability for work efficacy as a part of team and apply professional behaviour and ethics.
- Pursue higher studies and research by exploring the various motivation factors in the computing discipline associated with the program to function efficiently and effectively in the modern and challenging society.
- Apply standard Software Engineering practices and strategies in real-time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success
- Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity
- Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems

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**Department of Economics**

**M.A. ECONOMICS**

**PROGRAMME OUTCOMES – PG ECONOMICS**

Master's students in economics will acquire knowledge in the following areas and demonstrate their ability :

PO1	To provide valuable knowledge to the students for making decisions in everyday life
PO2	To provide students with analytical tools by which they can use to solve many economic problems existing in the real world.
PO3	To learn the advanced method of integrating mathematical economics and economic thought with applications in a wide variety of fields with in economics.
PO4	To teach the latest developments in the principles of economic theory.

**PROGRAMME SPECIFIC OUTCOMES – PG ECONOMICS**

On the completion of the PG programme, the students will be able ;

PSO1	To make the complementary study of the quantitative methods used in the discipline, enables the students to become experts in the areas of production and consumption in statistically based arguments about numerous public and private issues.
PSO2	To prepare students for entry into Industry, Business School, doctoral programs in Economics, Banking, Consultancy, interest groups and non-profit organizations
PSO3	To analyze economic information and develop solutions to economic problems.



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**PG & RESEARCH DEPARTMENT OF ENGLISH**

**PROGRAMME OUTCOMES FOR M.A. ENGLISH**

1. To create a new level of understanding and analysis that makes them fit into the job market.
2. To apply the critical acumen in the platform of textual interpretation and its extension to the society
3. To engage in a lifelong learning process by applying the higher order skills into day to day life.
4. To mould their overall personality by aligning their character and temperament
5. To transform them into responsible citizens by implementing the ethical and cultural values

**PROGRAMME SPECIFIC OUTCOMES FOR B.A. ENGLISH**

1. To groom their conversational skill, presentation power and to defend their new realm
2. To make an analytical reading by articulating their own interpretations while respecting the perspectives of others.
3. To engage writing as a process of self discovery in the standard manner for a variety of academic, social and cultural atmospheres.
4. To distinguish genres, figures and other literary elements and to apply them in their practical usage.
5. To familiarize in interview skills, leadership skills and managerial power so that they can be top rated employable graduates in the job market.



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**PG & RESEARCH DEPARTMENT OF GEOGRAPHY**

**M. Sc. Geography**

**Programme Outcomes**

- Students get enlightened on the distribution of different landforms on the earth and the forces responsible for their formation
- To familiarize the technologies introduced in geography and their applications
- To understand the thrust areas of research and research methods

**Programme Specific Outcomes**

- To acquire a good knowledge in Remote Sensing and GIS
- Able to analyse the Aerial photos and Satellite images
- Developing the map making skills using GIS softwares
- To learn the quantitative techniques and their applications in geographic studies



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**PG & RESEARCH DEPARTMENT OF HISTORY**

**M.A. HISTORY**

**Programme Outcomes (POs):**

1. Graduates are prepared to think critically the past human experiences and analyze with the present situations
2. Graduates are prepared to be creators of new knowledge leading to innovation and entrepreneurship employable in various sectors such as public, private and research organizations.
3. Graduates are taught the importance of creating regional history with authentic sources.
4. Graduates are groomed to engage in lifelong learning process by exploring their knowledge independently.
5. Graduates ought to have the ability of effectively communicating the findings of his research incorporating with existing knowledge.
6. Graduates are enlightened to the changing trends in the Socio-cultural and political setup.
7. Graduates are to be nourished in the field of administration to get higher level of jobs / job giver.

**Programme Specific Outcomes (PSOs):**

1. It develops life skill, ethics and social responsibilities.
2. It makes the students knowledge creators.
3. It extends for higher studies and innovation in research.
4. It makes the student to uphold the national value, democracy, secularism and socialism
4. It increases skill of analyzing and interpreting data.



5. It widens skill in field work and understanding problems and finding solutions.

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**PG & RESEARCH DEPARTMENT OF MATHEMATICS**

**Programme : M. Sc. Title: Mathematics Medium: English**

**Programme Learning Objectives**

- To have balanced prologue to the primary parts of present day Mathematics that keeps a proper harmony among Theoretical and Applied Mathematics.
- To have preparing and information important to acknowledge and apply Modern Mathematics and to discover compensating vocations in Mathematics related fields, or to seek after research in Mathematics.
- To have a valuation for the idea of formal Mathematical evidence and the capacity to compose basic verification.
- To take an interest effectively in Mathematics related occasions in particular Conferences/Seminars/Workshops and Quiz programs.

**Programme Outcomes**

**Space information:** Demonstrate information on essential ideas, standards and uses of the particular science discipline.

**Asset Utilization:** Develop the abilities to obtain and utilize proper learning assets including library, e-learning assets, ICT apparatuses to upgrade information base and remain side by side of late improvements.

**Diagnostic and Technical Skills:** Ability to deal with/utilize fitting devices/systems/hardware with a comprehension of the standard working strategies, security perspectives/constraints.

**Basic reasoning and Problem fathoming:** Identify and fundamentally examine relevant issues in the pertinent control utilizing suitable apparatuses and methods just as ways to deal with come to feasible end results/arrangements.

**Task Management:** Demonstrate information and logical comprehension to distinguish inquire about issues, structure tests, utilize suitable procedures, examine and decipher information and give arrangements. Display authoritative aptitudes and the capacity to oversee time and assets.

**Individual and collaboration:** Exhibit the possibility to adequately achieve errands autonomously and as a part or pioneer in various groups, and in multidisciplinary settings.

**Compelling Communication:** Communicate adequately in spoken and composed structure just as through electronic media with mainstream researchers just as with society on the loose. Exhibit the capacity to compose expositions, reports, make successful introductions and documentation.

**Condition and Society:** Analyse the effect of logical and mechanical advances on the earth and society and the requirement for feasible improvement.

**Morals:** Commitment to proficient morals and obligations.

**Deep rooted learning:** Ability to take part in long lasting learning with regards to the quick improvements in the control.

**Programme Specific outcomes**

PSO1: Improve the issues fathoming abilities.

PSO2: Work together with the other related regions of science.

PSO3: Improve the hypothetical information on Mathematical ideas.

PSO4: Innovatively applying the information on Mathematics in chose genuine circumstances.



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**PG & RESEARCH DEPARTMENT OF PHYSICS**

**M. Sc., Physics**

**Programme Outcomes (POs)**

1. Graduates are to be exposed to various branches of physics.
2. Graduates are to be exposed with recent field in physics.
3. Graduates are to be trained with recent and advanced experiments for employability.
4. Graduates are to be motivated to take research profession.
5. Graduates are to be made to develop communicating skill and handle project work.

**Programme Specific Outcome (PSOs)**

1. To take research as career.
2. Exposed to various mathematical methods to understand physics concept.
3. Good experimental skill.
4. Development of projects and model designing skill.
5. Higher Education toward society development.



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**PG & RESEARCH DEPARTMENT OF TAMIL**

**M.A. TAMIL**

**PROGRAMME OUTCOMES**

1. may;ehLfspy; jkpo; fw;gpj;jy; gzp tha;g;Gfisg; ngWjy;.
2. muR kw;Wk; jdpahH Jiwfspy; Ntiytha;g;Gfisg; ngWjy;
- 3.jkpo; ,yf;fpaj;jpd; md;whl tsHr;rp epiyia mwpe;Jnfhs;Sjy;.

**PROGRAMME SPECIFIC OUTCOMES**

1. mr;R kw;Wk; fhI;rp Clfq;fsfy; gzpahw;Wtjw;fhd gapw;rp ngWjy;.
2. kuGf; ftpij GidAk; Mw;wiyg; ngWjy;.
3. fzpdpj; Jiwapy; epfOk; Gjpa njhopy;El;g mwpitg; ngWjy;.
4. Muha;r;rp Fwpj;j mbg;gil mwpitg; ngWjy;.
5. gy;rka;f;; Nfhl;ghLfis mwptjd; thapyhfr; rkar; nrhw;nghopT Mw;Wk; jpwid tsHj;Jf; nfhs;Sjy;;.



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**PG & RESEARCH DEPARTMENT OF ZOOLOGY**

**M.Sc. Zoology**

**PROGRAMME OUTCOMES**

PO.NO.	On successful completion of M.Sc. Zoology programme in our institution, the post-graduates will be capable of
PO – 1	Comprehending the basic knowledge on the animal kingdom and their evolution
PO - 2	Perceiving the cytogenetic mechanism of cell in different developmental stages of life at molecular level and principles of bio techniques
PO – 3	Understanding the functional anatomy of fauna especially the human being to maintain the good health
PO – 4	Grasping the knowledge of commercially important organisms to develop the entrepreneurial skill for the uplifting the economic status of villagers.
PO – 5	Understanding and applying the natural aspects of life and framing the technologies for the production of life saving products necessary for the welfare of the society.
PO – 6	Developing awareness over the protection of the environment through the nature oriented and eco-friendly sustainable practices
PO-7	Designing a research project, analysing interpreting and solving the problems statistically.

**PROGRAM SPECIFIC OUTCOMES**

1. Ability to apply biological knowledge to other disciplines and to integrate knowledge into their personal life.
2. Capacity to illustrate the structural anatomy and physical functions of various organs in the human body and significance of various immune organs
3. Calibre of understanding the problems existing in the environment and finding out the natural eco-friendly solutions
4. Theoretically and practically sound knowledge in Molecular biology, Biotechnology, Genetics, Cell biology, and Environmental Conservation.
5. Capacity to understand and magnify the microbiological phenomena
6. Expert in the field of identification of entomological specimen and analysing their importance
7. Contributors in the area of Biological Research, Teaching and Biodiversity Conservation
8. Acumen skills in solving the problems of environmental pollution
9. Entrepreneurial skills in commercial branches of life sciences.
10. Wider knowledge on biology of wild life and *in-vitro* and *in-vivo* conservation strategies
11. Skills of using the computers and informatics in studying biology and research
12. Competence in knowing the enzymatic reactions in biochemistry.
13. Capability of understanding the developmental stages of organisms
14. Decoding knowledge on genetic principles of heredity and evolution
13. Designing the methodologies of research and capacity of analysing research data using statistical software.