

**A.V.V.M. SRI PUSHPAM COLLEGE (AUTONOMOUS),  
POONDI-613 503, THANJAVUR**



**PROGRAMME SPECIFIC OUTCOMES**

# **PROGRAMME SPECIFIC OUTCOMES**

## **DEPARTMENT OF HISTORY**

### **The Program Specific outcomes of UG in History are:**

- **On completion of B.A. with History, Students will be acquire :-**
- **Understand background of our religion, customs institution, administration and so on.**
- **Understand the basic themes, concepts, chronology and the scope of history.**
- **Develop practical skills helpful in the study and understanding of historical events.**
- **Acquaint with range of issue related to Indian History that span distinct eras.**
- **Understand the history of Countries other than India with Comparative approach.**
- **Prepare for various types of Competitive Examinations.**
- **Think and argue historically and critically in writing and discussion.**
- **The study of history helps to impart moral education.**
- **Critically recognize the social, political, economic and cultural aspects of History.**
- **History installs the feeling of patriotism in the hearts of the pupils.**

### **The Program outcomes of PG in History are:**

- **At the end of the programme, the students will acquire :-**
- **Entire study of discipline.**
- **Mastery of Subject Knowledge.**
- **Mature personality for employability.**
- **Skills of Employment.**
- **Ability to work (or) Serve.**
- **Critical thinking.**
- **Sense of creativity.**
- **Research talent (or) Spirit,**
- **Interview technique and team spirit.**

- Language skills.

### **The Program outcomes of M. Phil. in History are:**

- Upon completion of M.Phil (History) degree program, the graduate will be able to :-
- Recognize and think towards History Curricula with sound knowledge and theoretical skills by questioning and plausible explanations.
- Motivation themselves and develop an interest in planning and implementation of research.
- Opt for careers demanding writing and communicative skills locally and Globally.
- Recognize and integrate life-long learning skills to become pro-active in personal and professional live.

### **DEPARTMENT OF ECONOMICS**

#### **The UG students will be able to:**

- Know about the importance of the subject Economics.
- Explain concepts, terminologies and theories in Economics.
- Know and evaluate the programmes and policies of the government.
- Understand the track of development of Economic theories in a Chronological order.
- Learn the tools in Statistics and know the various sources of data collection, trends in economic variables, Index numbers and its construction statistically.
- Study about basic Macro economic variables, Policies and tools applied.
- Study about basic concepts in money and monetary standards.
- Understand the basic concepts used in Computer and its applications in Economics.
- Apply and Prepare for all the Competitive Examination conducted by both the Central Government and State Government.
- Face the Examination conducted exclusively by Reserve Bank of India and statistical Organizations.

- Pursue higher education in the same discipline that is MA Economics ,M.Sc Statistics and Master of Business Administration etc.

### **The MA graduates will be able to:**

- Learn higher level concepts, terminologies and theories in Economics.
- Know the Economic Development of various aspects and Policy perspectives.
- Make the students familiar with the use of descriptive and Probability statistics.
- Study research methodologies in Economics and develop the analytical skill through projects.
- Know the contributions of Nobel Laureates.
- Help the students to prepare for SET/NET/ JRF.
- Pursue higher education M.Phil, Ph.D, B.Ed etc.
- Face the Competitive Examinations exclusively Banking field, research field easily.
- Undertake Research fellowship since they have the experience of project at PG level.
- To get employment in School,CSO,NSSO, Company and bank etc.

### **The M.Phil scholars will be able to :**

- Learn the fundamentals of International trade and International financial institutions with reference to India.
- Study the higher level theories of Public Expenditure, Taxation and Indian Tax structure.
- Analyse and evaluate the Economic policies and build Economic Models.
- Develop Research Methodologies in Economics and develop the analytical skill through projects.
- Apply and pursue higher degree of Ph.D.
- Get employment in College, school and Universities.

## DEPARTMENT OF TAMIL

### இளம் இலக்கியம்

- மாணவர்கள் வாழ்வு பயனுள்ளதாக அமைய இலக்கியத்தின் வாயிலாக வழிகாட்டல்.
- தமிழ்மொழி வாயிலாக கணிப்பொறியில் பயிற்சியளித்தல்
- கற்றல் குறைபாடு உடைய மாணவர்கள் மற்ற மாணவர்களோடு சேர்ந்த கற்க ஊக்கமளித்தல்.
- மொழியில் பேசும் திறனை மேம்படுத்துதல். வாழ்வை அழகுணர்ச்சியையும் கலைநயமும் மிக்கதாக மேம்படுத்துதல்.

### இந்தியப் பண்பாடு

- சமய இலக்கியங்களை அறிந்து கொள்வதால் தனிமனித ஒழுக்கம் மேம்படல்.
- அறவழியில் நீதி நேர்மையுடன் வாழ வலியுறுத்தல்.
- தமிழகத்தின் பண்பாடு கலாச்சாரத்தைப் பேணிக் காத்தல்.

### PS-1

- மாணவர்களுக்கு பல சமய நம்பிக்கைகள் மற்றும் பழக்க வழக்கங்களை பக்தி இலக்கியம் வழங்குகிறது.
- இந்த உலகில் நல்ல குடிமகனாக வாழ மாணவர்களிடையே ஒற்றுமையை ஏற்படுத்துகிறது.

### PS – 2

- மாணவர்கள் புதிய மற்றும் நவீன இலக்கியத்தைக் கற்று அவற்றை ஒப்பீடு செய்தல், உலக அளவிலான கருத்துகள் மற்றும் மனித மதிப்புகளைப் பற்றி கற்றல்.

### PS – 3

- இலக்கியங்களில் காணப்படும் புத்திசாலியான, வித்தியாசமான பாத்திரங்கள் மாணவர்கள் தங்கள் அறிவை மேம்படுத்திக் கொள்ளவும், உலகளாவிய அறிவு பெறவும் துணை நிற்கிறது.

#### PS – 4

- எழுத்தாளர், சொற்பொழிவாளர், மொழியியலறிஞர்களாக உருவெடுக்கலாம்.
- பாரம்பரியக் கலைகளைக் கற்று சிறந்த கலைஞர்களாகலாம். போட்டித் தேர்வுகள் எழுதலாம். பழமையான இலக்கியங்களையும் செவ்வியல் இலக்கியங்களையும் காலத்திற்கேற்றவாறு மதிப்பிடலாம், திருத்தி எழுதலாம், புதியதாக கட்டமைக்கலாம்.
- கற்பித்தல் மற்றும் ஆய்வுலகில் சிறந்து விளங்கலாம்.

#### (ஆய்வியல் நிறைஞர்) M.Phil.

- 12ஆம் நூற்றாண்டு தமிழ் இலக்கியம், வரலாறு, பண்பாடு ஆகியவற்றை தேசிய அளவில் ஒப்பீடு செய்தல், மதிப்பிடுதல்.
- இலக்கியங்களில் காணப்படும் மொழியின், கருத்துகள், விளக்கங்கள், தளம், அரசியல் சக்திகள் ஆகியவற்றை இனங்காணல். பரந்துபட்ட அளவில் மற்றவர்களுடன் நாளுக்கு நாள் இலக்கிய ரீதியாக தொடர்பு கொள்வது .
- ஆய்வு தொடர்பான கட்டுரைகளைசரியான தரவுகளுடன் ஆய்விதழ்களில் வெளியிடுதல்

#### முனைவர் பட்டம் (Ph.D.)

- தமிழில் ஆய்வு செய்ய ஆழ்ந்த அறிவு, ஆய்வுப் பரப்பு ஆகியவற்றை நன்றாக அறிந்து கொள்ளல்.

- புதிய அணுகுமுறைகளைப் பயன்படுத்தி பிரச்சினைகளைக் கண்டறிந்து அவற்றுக்கான தீர்வுகளை தொழில்நுட்ப ரீதியாகவும் புத்திசாலித்தனமாகவும் தீர்வுகளைக் கண்டறிதல்.
- ஆய்வாளர்களுக்கும் சமூகத்திற்கும் தேவையான வழிகாட்டல்களை மேற்கொள்ளல். தலைமைப் பண்பு மற்றும் கற்றல் திறன்களை வளர்த்துக் கொள்ளல்.

## **DEPARTMENT OF ENGLISH**

### **The Program outcomes of UG in English are:**

- At the end of the programme, the students will acquire.
- Students can practice the communicative skills in their daily life in the circumstances of their own.
- Articulate their own ideas and questions clearly.
- Develop passion for literature language and cultivate the Imagination.

### **The Program outcomes of PG in English are:**

- Families with textual genres.
- Honing analytical and interpretive skills.
- Become accomplished active readers.
- Develop the comprehension to appreciate the formal elements of language.

### **The Program outcomes of M. Phil. in English are:**

- At the end of the programme, the students will acquire.
- Ensuring high standard of behaviour attitude.
- Develop advanced meaning related concepts.
- Identify methods and sources for research evaluate the sources.

## **DEPARTMENT OF COMMERCE**

### **The Program outcomes of UG in Commerce are:**

- To impart the knowledge on basic concepts and applications in the domain of Commerce.
- To provide the students with necessary knowledge in the sphere of financial system.
- To equip the students with the recent advancements in the various fields of Commerce such as banking and insurance sectors.
- To prepare the students to pursue higher studies such as M.Com., M.B.A., C.A., ICWA, and ACS.
- To facilitate the students to hold key positions in corporate arena.

### **The Program outcomes of PG in Commerce are:**

- To impart the knowledge and skills on various advanced concepts and its applications in the field of Commerce.
- To impart the necessary skills and aptitude for successful entrepreneurship.
- To equip the students with recent business practices.
- To prepare the students to occupy the prominent positions in business, industries and related organizations.

### **The Program outcomes of M. Phil. in Commerce are:**

- To make the students to develop a comprehensive ideas of commerce and trade.
- To educate the students about the promotion of knowledge about business.
- To develop teaching and assessment skills.
- To keep pace with the development in the areas of management.
- Provide training required for undertaking research in commerce.
- Prepare scholars for undertaking higher responsibilities in such areas as Financial Management, Human Resource Management, Marketing Management.

## **DEPARTMENT OF MATHEMATICS**



### **The Program outcomes of UG in Mathematics are:**

- At the end of the programme, the students will acquire.
- Problem solving Skills.
- Understand the concepts of algebra which include equations, numbers and algebraic structures.
- Students will be able to use the concepts of analysis in solving problems. The concepts include sets, numbers, functions and convergence.
- Understand mathematical ideas from basic axioms.
- On completion of the program the students are well poised to pursue careers in academia, industry and the other areas of Mathematics.

### **The Program Specific outcomes of PG in Mathematics are:**

- At the end of the programme, the students will acquire.
- Gain knowledge of advanced models and methods of mathematics.
- Able to solve problems in advanced areas of numerical analysis, linear algebra and real analysis.
- Analyse and write logical arguments to prove mathematical concepts.
- Develop specific skills in independently analyzing, modeling and solving problems at a high level of abstraction.
- Gain a research oriented learning that develops analytical and integrative problem solving approaches.

### **The Program Specific outcomes of M. Phil. in Mathematics are:**

- At the end of the programme, the students will acquire.
- Students gain the knowledge of research methodology to write dissertations.
- Students will be able to publish research articles in reputed journals.
- students will acquire the knowledge of higher research level thinking in pure and applied Mathematics.
- This course has enhancing teaching and research skills in Mathematics.

**DEPARTMENT OF PHYSICS**

### **The Program specific outcomes of UG in Physics are:**

- On completion of B.Sc., Physics, the students will acquire:-
- Knowledge in various areas of physics , such as Electricity, magnetism, electronic , atomic & nuclear Physics, etc.
- Hands on training in Practical Physics.
- Abilities to enter into postgraduate studies in Physics, Material Science, Medical Physics.

### **The Program specific outcomes of PG in Physics are:**

- At the end of the programme, the students will acquire.
- Knowledge in the areas which include materials science, quantum mechanics, micro controller programming and etc.
- Hands on training in advanced Physics experiments.
- Capabilities to enter into the research field.

### **The Program specific outcomes of M. Phil. in Physics are:**

- Knowledge in advance Physics subjects.
- Hands on training in sophisticated equipments like scanning electron microscope, UV-vis-NIR spectrometer and thin film and nanomaterial preparation techniques.
- Capabilities to enter into the full-fledged doctoral degree.

## **DEPARTMENT OF CHEMISTRY**

### **The Programme outcomes of UG in Chemistry are:**

- On completion of B.Sc. Chemistry, Students will acquire knowledge about dyes, fertilizers, paints, domestic chemicals preparation, polymers etc. This knowledge will be helpful to get job in dye industry, paint industry and some production departments in pharmaceutical industry and also students are able to become an entrepreneur and to start small scale industry for the

preparation of domestic chemicals like Phenyl, Soaps, Detergents, Computer Sambranti, etc., and also students are able to work in Water analysis lab.

### **The Programme outcomes of PG in Chemistry are:**

- On completion of M.Sc. Chemistry, Students will acquire a knowledge about organic synthesis and medicinal chemistry which will be useful to get job in research and development (R & D) in all pharmaceutical industry. R & D is the heart of the pharma industry so they may get good salary. Students acquiring knowledge about analytical chemistry. This can be useful to get placement in quality control and formulation department in analytical lab. Students can get Government job in forensics science department by writing Tamil Nadu Public Service Commission, forensic science- scientific assistant grade - II examination. After completing M.Sc Chemistry, students are able to become a industrialist like Textile, dye, plastic, fertilizer industry, etc.,

### **The Programme outcomes of M.Phil.in Chemistry are**

- On completion of M.Phil Chemistry, Students will acquire knowledge about analytical instrumentation like NMR, IR, UV, Mass spectrophotometric, SEM, TEM, etc. Due to these knowledge students will get placement in analytical lab to handle instrumentation at research centers like NISER, IISc, IIT, central university, private pharma industry and Bio lab.

## **DEPARTMENT OF BOTANY**

### **Programme Specific Outcomes for B.Sc. Botany**

- The students on successful completion of B.Sc. Botany, they will acquire knowledge about medicinal plants, pharmacognosy, pharmacology, economic importance of useful plants, phytogeography, etc.
- This knowledge will be helpful to get an employment opportunity in various governmental and non-governmental sectors.
- The students are able to become entrepreneur and they can also start small scale industries like algal, fungal and bacterial biofertilizers unit, edible mushroom cultivation technology unit, nursery management, etc.

- The graduates will be able to identify and analyse the morphological and anatomical features of plants, their structures and learn evolutionary history of plants.

### **Programme Specific Outcomes for M.Sc.Botany**

- On successful completion of PG botany the students will acquire knowledge about phytochemical, pharmacological and pharmacognostic aspects of higher plants.
- They can improve their knowledge in preparing competitive examinations for getting employment in Government and public sector undertaking institutions.
- The students will get idea about various scholarships and become eligible for JRF, SRF, and other relevant scholarships.
- The students will learn various techniques of plant breeding to enable better crop production for human welfare and economic upliftment.
- The students will acquire basic knowledge of biostatistics and learn its application in biological studies.
- The students will learn the basic principles and research methodology, thesis writing and research publications.

### **Programme Specific Outcomes for M.Phil.Botany**

- On successful completion of M.Phil.degree, the students can gain knowledge about instrumentation technology used in biological sciences and eligible to get employability in hospitals, clinical laboratories and pharmaceutical industries.
- The courses are in combination of general and specialized education, simultaneously introducing the concepts of breadth and depth in learning.
- The present curriculum will not only advance their knowledge and understanding of the subject, but will also increase the ability of critical thinking, development of scientific attitude, handling of problems and generating solution, improve practical skills, enhance communication skill, social interaction, increase awareness in environment related issues and recognize the ethical value system.

## **DEPARTMENT OF MICROBIOLOGY**

### **Programme Specific Outcomes for M.Sc.Microbiology**

- Provides learning opportunities in basic principles of microbiology and infectious diseases, helpful to understand the lab animals in medical fields
- Become an entrepreneur in the field of medical lab technology, microbiologists in the govt. and private medical colleges, district headquarters.
- Learn basic principles of agricultural microbiology and become an entrepreneur in biofertilizers and biopesticides production.
- Get an employment opportunity in the forest departments and nurseries in order to mass multiply the biofertilizers, especially VAM.
- Learn basic principles of industrial microbiology and become an entrepreneur in the area of enzyme production which is used in the field of food technology, leather technology and also in the sewage treatment.
- Learn the principles of water quality and become an entrepreneur in the mineral water project at national and international level.

### **Programme Specific Outcomes for M.Phil.Microbiology**

- Get employment opportunities in state and central govt. organizations like Indian Institute of Crop Processing Technology (Thanjavur), Central Food Technology Research Institute (Mysuru), National Research Centre for Banana (Trichy), Vector Control Board (Puducherry & Madurai), Tamil Nadu Pollution Control Board, lab technicians in medical colleges.
- Become Microbiologists and have an avenue to become entrepreneur in the area of agricultural, medical, food and environmental microbiology.

## **DEPARTMENT OF ZOOLOGY & BIOTECHNOLOGY**

### **Programme Specific Outcomes for B.Sc., Zoology**

- Understand the wildlife and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology.
- Analyze the associations among animals, plants and microbes.
- Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Clinical science, Sericulture, Biochemistry, Animal biotechnology, Immunology and research methodology.
- Explain the role and impact of different environmental management programmes.
- Identify various prospective risk factors to health of humans.
- Use tools of information technology for all activities related to zoology.

### **Programme Specific Outcomes for M.Sc., Zoology**

- Develop insight and improve their systematic communication and qualified skills.
- Understanding the morphology and functional features at cellular and sub-cellular level.
- Focusing to prepare them with research-oriented approach in borderline areas of research in Zoology.
- Developing intellectually sound future researchers and academics in the area of general biology, Molecular Biology, Biotechnology, Genetics, Cell biology, Immunology and Environmental Biology.
- Generating Contributors in the area of Biological Research and Teaching.
- Cultivating a generation with Scientific Ethics and Temper.

### **Programme Specific Outcomes for M.Sc., Biotechnology**

- Understanding the functional characteristics at cellular and sub-cellular level.
- Enhancing the technical skills for experimental purposes.
- Understand the applications of biological sciences in Genomics, Proteomics, Recombinant DNA Technology and Medicine.

- Focusing to prepare them with research-oriented approach in frontier areas of research in Biotechnology.
- Perform procedures as per laboratory standards in the areas of Cell culture, Molecular Biology, Biochemistry, Animal biotechnology, Immunology and research methodology.
- Cultivating a generation with Scientific Ethics and Temper.

### **Programme Specific Outcomes for M.Phil., Zoology**

- Develop insight and improve their systematic communication and professional skills.
- Gains knowledge about research methodologies, effective communication and skills of problem solving methods.
- Explain the importance of Applied Zoology.
- Explain various physiological changes in our bodies.
- Analyze the impact of environment and healthcare aspects on our bodies.

### **DEPARTMENT OF COMPUTER SCIENCE**

#### **The Program Specific outcomes of UG in B.Sc.Computer Science:**

- Ability to apply knowledge of computing, mathematics, and basic sciences that may be relevant and appropriate to the domain.
- Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
- Ability to design, implement, and evaluate computer-based system, process, component, or program to meet desired needs.
- An ability to function effectively on teams to accomplish a common goal.
- Understanding of professional, ethical, legal, security, social issues and responsibilities.
- Ability to communicate effectively among a range of audiences.
- Ability to analyze the local and global impact of computing on individuals, organizations, and society.

- **Recognition of the need for and an ability to engage in continuing professional development.**
- **Ability to use current techniques, skills, and tools necessary for computing practices.**
- **Ability to use and apply current technical concepts and practices in the core development of solutions in the form of Information technology.**
- **Ability to identify and analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems.**
- **Ability to incorporate effectively integrate IT-based solutions to applications.**

### **The Program Specific outcomes of Ug in B.C.A:**

- **All theoretical concepts are implemented in practical which make a student industry ready.**
- **Content of the course prepare a student for self entrepreneurship.**
- **The syllabi of the course are a good platform for higher level course in computer application.**
- **The course is designed to support automation and digitization in all walks of life.**

### **The Program Specific outcomes of PG in M.Sc.Computer Science:**

- **Communicate computer science concepts, designs, and solutions effectively and professionally.**
- **Apply knowledge of computing to produce effective designs and solutions for specific problems.**
- **Use software development tools, software systems, and modern computing platforms.**

### **The Program Specific outcomes of PG in M.C.A:**

- **Understand the concepts and applications in the field of Computing Sciences like Web designing and development, Mobile application development, and Network and communication technologies.**
- **Apply the learning from the courses and develop applications for real world problems.**



- Understand the technological developments in the usage of modern design and development tools to analyze and design for a variety of applications.
- Communicate in both oral and written forms, demonstrating the practice of professional ethics and the concerns for social welfare.

### **The Program Specific outcomes of Pg in M.Sc.IT:**

- Student will be able to apply knowledge of information technology in practice.
- Student will have ability to understand, critically analyze, and test software systems for world-wide network of computers and propose feasible technical solutions using skills, and tools.
- Student will be able to devise and conduct experiments and provide well informed conclusions using recent tools, technologies and industrial trends.

### **The Program Specific outcomes of M. Phil. in Computer Science:**

- It leads a scholar to high level research.
- It prepares a scholar to become a good academician, author of necessary papers.
- It prepares a student to take minor research projects, to become project associate.

## **DEPARTMENT OF STATISTICS**

### **The Program specific outcomes of UG in Statistics are:**

- Students will acquire Problem solving Skills and Numerical Aptitude solving skills.
- Understand the concepts of sampling, Probability distributions and Statistical Quality Control.
- Identify the applications of statistics in other disciplines and society.
- Students will learn applying statistics in both qualitative and quantitative knowledge for their future career.

## **DEPARTMENT OF GEOGRAPHY**

### **The program specific outcomes of B.Sc. in geography are:**

- At the end of the programme, the students will acquire.
- An understanding of and appreciation for the relationship between geography and culture.
- In-depth knowledge in geomorphology particularly formation of landform and its associated processes, world distribution of flora and fauna and their factors, marine resources etc.
- Read, interpret, and generate maps and other geographic representations as well as extract, analyze, and present information from a spatial perspective. A general understanding of how the physical environment, human societies, and local and global economic systems are integral to the principles of sustainable development.
- Handle population data including estimation of population, causes and consequences of population growth, population policies.
- Knowledge on elements, factors of climate and its influence on mankind in a global perspective.
- knowledge on recent space technologies including interpretation of Satellite Imagery, Aerial Photographs, Geographical Information System and Global Positioning System (GPS).

### **DEPARTMENT OF BBA**

### **The Program Specific outcomes of B.B.A are:**

- Acquiring Conceptual Clarity of Various Functional Areas.
- Ability to analyze various functional issues affecting the organization.
- Demonstrating ability to evolve strategies for organizational benefits.
- Analysis and interpretation of the data which is used in Decision Making .
- Demonstrate the ability to develop models / frameworks to reflect critically on specific business contexts.
- Develop Ethical Practices and Imbibe Values for Better Corporate Governance.
- Understand ethical challenges and choices in a business setting.

