

Government College for women (Autonomous),
Kumbakonam-612 002, Tamil Nadu
Affiliated to the Bharathidasan University, Tiruchirappalli

UG Programme outcomes

CONTENT

1. ZOOLOGY
2. BOTANY
3. PHYSICS
4. CHEMISTRY
5. COMPUTER SCIENCE
6. GEOGRAPHY
7. MATHEMATICS
8. COMMENCE
9. ECONOMICS
10. HISTORY
11. TAMIL
12. ENGLISH

Programme: B.Sc., Zoology

Programme Code : USZO

Programme Outcomes for B.Sc., Zoology

PO1	Obtain functional knowledge of the fundamental theoretical concepts and experimental methods in Science
PO2	Develop skills critically to reflect upon the theory they learn.
PO3	Extend and understand the impact of science on society.
PO4	Inculcate ability to engage in life-long learning to improve professional competency.
PO5	Apply their professional ability for entrepreneurship and self employment.

Programme Specific Outcomes for B.Sc., Zoology

PSO1	Students gain knowledge and skill in the fundamentals of animal science, understand the complex interactions among various living organisms
PSO2	Analyze complex interactions among the various animals of different phyla, distribution and their relationship with the environment
PSO3	Understand and apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms, the complex evolutionary processes and behaviour of animals
PSO4	Can understand the functioning of Immune system and its interaction with pathogens, allergens and organ transplants.
PSO5	Correlates the physiological processes of animals and relationship of organ systems
PSO6	Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species
PSO7	Perform laboratory experiments as per standard protocols in the areas of Biology
PSO8	Gain knowledge of Agro based Small Scale industries like sericulture, fish farming and vermicompost preparation.
PSO9	To impart skills and necessary training to initiate start-ups in the realm of life sciences.

Programme : B.Sc., BOTANY

Programme Code : USBO

Programme Outcomes for B.Sc., BOTANY

PO1	Critical Thinking: Apply the knowledge of biology to make scientific queries and understanding about plant diversity.
PO2	Effective Communication: Successful transfer of scientific knowledge both orally and in writing.
PO3	Practical skills in the field and laboratory experiments.
PO4	Presentation skills (oral & writing) in Botany
PO5	Scientific knowledge in Botany and fundamental metabolism of plants.
PO6	Knowledge about biodiversity exploration, estimation and conservation.
PO7	Effective Citizenship: Responsible for learning, develop honesty in work and respect for self and others.
PO8	Ethics: Convey and practice social, environmental and biological ethics.
PO9	Self-directed and Life-long Learning: study incessantly by self to cope with growing competition for higher studies and employment

Programme Specific Outcomes for B.Sc., BOTANY

PSO1	Educate students in and around Kumbakonam, a prime area of Cauvery Delta, about plant science.
PSO2	Inculcate strong fundamentals on modern and classification aspects of Botany.
PSO3	Build life skills in Edible mushroom cultivation, Biofertilizer production, Greenhouse maintenance and Seed technology through value-added courses.
PSO4	Understand the nature and basic concepts of cell biology, Taxonomy and ecology.
PSO5	Analyse the relationships among plants and microbes.
PSO6	Career opportunities and job opportunities.
PSO7	
PSO8	
PSO9	

II. PROGRAMME SPECIFIC OUTCOMES (PSOs):

PSO1: Educate students in and around Kumbakonam, a prime area of Cauvery Delta, about plant science.

PSO2: Inculcate strong fundamentals on modern and classification aspects of

Botany.

PSO3: Build life skills in Edible mushroom cultivation, Biofertilizer production, Greenhouse maintenance and Seed technology through value-added courses.

PSO4: Understand the nature and basic concepts of cell biology, Taxonomy and ecology.

PSO5: Analyse the relationships among plants and microbes.

PSO6: Career opportunities and job opportunities.

PSO7: Create platform for higher studies in Botany.

PSO8: Facilitate students to take-up successful career in Botany.

Programme : B.Sc., Chemistry

Programme Code : USCH

Programme Outcomes for B.Sc., Chemistry

PO1	
PO2	
PO3	
PO4	
PO5	
PO6	
PO7	
PO8	
PO9	

Programme Outcomes :

PO 1: Provides a broad foundation of chemistry

PO 2 : Understand the importance of elements in periodic table and its role in daily life and organizing chemical information.

PO 3: Able to Interpret and analyze quantitative data.

PO 4 : This course will equip the students to face the employment challenges and instil confidence to turn into entrepreneur and expand their knowledge, available opportunities related to chemistry in government services through exams particularly in field of food safety, health inspector, pharmacist

PO 5 : Hone their skills of handling of corrosive ,poisonous, explosive and carcinogenic chemicals making themselves employable in any kind of industries.

Programme Specific Outcomes for B.Sc.,chemistry

PSO1	
PSO2	
PSO3	
PSO4	
PSO5	
PSO6	
PSO7	
PSO8	
PSO9	

Programme Specific Outcomes:

PSO 1 : Gain the knowledge of chemistry through theory and practical.

PSO 2 : Understand good laboratory practices and safety and research oriented skills

PSO 3 : Acquires the ability to synthesize, separate and characterize compounds using laboratory and instrumental techniques

PSO 4 : The design and execution of the experiment should demonstrate an understanding of good laboratory and handling of chemical waste streams and also explain the applications of chemistry to the real life

PSO 5 : Competency for competitive exams

Programme : B.Sc., Computer Science

Programme Code : USCS

i. Programme Outcomes :

On the completion of the B.Sc Computer Science students are able to work as :	
Programmer / Software Engineer / Web-Designer / System Administrator / Data Entry Operator / Software Testing Engineer / IT Officer / Multimedia Designer.	
PO 1	An ability to apply knowledge of Computer Science to analyze problems with strong knowledge of practical and theoretical concepts and to provide effective solutions.
PO 2	Identify, Analyze and formulate solutions to computing problems and compare alternative solutions to computing problems.

PO 3	An ability to apply design and development principles in the implementation of software systems.
PO 4	Adopt to latest trends in the IT industries
PO 5	To provide sound academic knowledge in Technical, analytical and creative skills and also gain new ideas to acquire employability and self-employment.
PO 6	Recognize the social and the Ethical responsibilities of a professional working in the discipline.
PO 7	Participate in Life-Long learning to enhance knowledge and skills necessary to contribute to the betterment of professions.

ii. Programme Specific Outcomes :

A graduate with B.Sc Computer Science will have the ability to	
PSO 1	Impart an understanding fundamentals theoretical an practical concepts on the area of Computer Science.
PSO 2	An ability to use current technologies and tools for programming practically.
PSO 3	An ability to apply design and development principles in the implementation of software systems.
PSO 4	Entrusting student interests in building their career in the field of IT by providing the latest technologies.
PSO 5	Recognize the social and the Ethical responsibilities of a professional working in the discipline
PSO 6	Apply problem solving skills and the knowledge of computer science to solve real-world problems possess employability and entrepreneurship skills.

Programme: ***B.Sc. Geography***

Programme Code: USGE

I. PROGRAMME OUTCOMES :

1. Creates a balance between sustainable development of Human Resource and various needs of society.
2. Students gets exposure to new techniques in Geography.
3. Students gain application knowledge about the acquisition of data, quantitative and qualitative techniques.
4. Student will be able to prove proficiency with the ability to clear in competitive exams like UPSC and TNPSC.
5. Understanding the different Resources in the Regional local and Global level.
6. Students gain knowledge about the basic skills of Map making

II. SPECIFIC PROGRAMME OUTCOME:

1. Students will be able to use the scientific method including critical thinking, sampling, hypothesis formulation and testing, and controlled experimentation to assess environmental problems, and be able to effectively communicate research objectives, methodology, results, interpretations, and conclusions in oral and written formats.
2. Students will have a general understanding of physical geographic processes, the global distribution of landforms and ecosystems, and the role of the physical environment on human population.
3. Students will be able to think in spatial terms to explain what has occurred in the past as well as using geographic principles to understand the present and plan for the future.
4. Students will have a general understanding of the various theoretical and methodological approaches in both physical and human geography and be able to develop research questions and critically analyse both qualitative and quantitative data to answer those questions.
5. Develop and idea about different types of Mapping Techniques.
6. Develop and idea about the different types of scales, map projections, identifications of rocks and minerals, diagrammatic representation of data, types of surveying instruments.
7. Interpretation knowledge of aerial photographs, satellite imageries, Indian toposheets and Indian daily weather report.

Programme : B.Sc., Mathematics
Programme Code: USMA

Programme Outcomes(PO)

On successful completion of B.Sc., Mathematics programme, the graduate students will be able to:

- PO1.** Develop the knowledge of Mathematics in problem solving, planning and ability to learn new Information.
- PO2.** Inculcate the habit of active listening, to identify the devise for solving the problem, significant factor in promoting lifelong learning.
- PO3.** Have practical exposures which equips the students to face modern challenges in the relevant discipline.
- PO4.** Exhibit proficient in arriving innovation-based knowledge, information to provide valid conclusion.
- PO5.** Establish suitable meaning for education, cultivate the students to develop their skill for employability.
- PO6.** Create, select and apply decision making problem in research aspects.
- PO7.** Communicate effectively on various activities and make effective presentations.
- PO8.** Promulgate the ability to learn Mathematics with higher moral and ethical values.
- PO9.** Formulate profound ability to pursue higher education in global level.
- PO10.** Grow civic responsibilities, personality traits and human values through interaction with society.

Programme Specific Outcomes(PSO)

On successful completion of B.Sc., Mathematics programme, the graduate students will be able to:

- PSO1.** Communicate mathematics effectively by written, computational and graphic means.
- PSO2.** Demonstrate in-depth knowledge of Mathematics, both in theory and applications.
- PSO3.** Exhibit depth knowledge in analytical and critical thinking to identify, formulate and solve problems in the field of Science and Engineering
- PSO4.** Take up mathematics programme at Master's level anywhere in and outside India.
- PSO5.** The Mathematics UG students after the completion of the course will gain a thorough Knowledge in preparing competitive examinations conducted by TNPSC/UPSC/BSRB

Programme : COMMERCE

Programme Code : UCCO

PROGRAMME OUTCOMES:

PO 1:	Students will prove themselves in different professional exams like C.A., C.S, CMA, MPSC, UPSC as well as other courses.
PO 2:	Students can apply knowledge of business concepts and functions in an integrated manner.
PO 3:	Becomes familiar with business regulatory framework.
PO 4:	Develops entrepreneurial ability.
PO 5:	Promotes the ability to work as individual as well as in team.

<i>PROGRAMME SPECIFIC OUTCOMES:</i>	
PSO 1:	The students will acquire the knowledge, skill in different areas such as accounting, communication, decision making, innovations and problem solving in day to day business activities.
PSO 2:	Students will gain thorough knowledge of Finance, Auditing, Taxation, Accounting and Management.
PSO 3:	Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and in other business supporting services.
PSO 4:	Develops the skills of various techniques used in business.
PSO 5:	Develop thorough knowledge of accounting of an organization.

Programme : B.A. ECONOMICS
Programme Code: UAEC

Programme Outcomes

PO 1: To provide in-depth understanding of theories and models used in the subject of Economics and also to expose the students on practical aspects of the same theory.

PO 2: To equip the students on understanding of economic structure, recent trends in economics to development a logical thinking.

PO 3: To understand the thrust areas of research in the field of economics to enable the students to take up empirical and policy oriented research.

PO 4: To equip the students with managerial and entrepreneurial skills for self employment.

PO 5: To prepare the students to have exposure on examinations for administrative positions and specialise research.

Programme Specific Outcomes

PSO 1 : Students can gain knowledge and skill in the fundamental of economic theories and models.

PSO 2: Developing research knowledge in economics.

PSO 3: Developing the skill of data collection and use of sampling techniques in research.

PSO 4: Gain knowledge of entrepreneurial skill for self employment , Agro based cottage industries like bee keeping, mushroom.

PSO 5: To impart skills and necessary training to initials start-ups in the realm of economic policy

Programme :B.A. HISTORY

Programme Code: UAHS

PROGRAMME OUTCOMES

PO-1 The students acquire knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough.

PO-2 The B.A. graduates will be acquainted with the social, economical, historical, geographical, political, ideological and philosophical tradition and thinking.

PO-3 The program also empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice. .

PO-4 The B. A. program enables the students to aquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.

PO-5 The students will be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever.

PO-6 . To provide the students with an awareness regarding Civil and Legal Rights.

PROGRAM SPECIFIC OUTCOMES

On completion of the BA with History special, students will be able to...

PSO 1 - Understand the basic themes, concepts, chronology and the Scope of Indian History.

PSO 2 - Understand the present existing social, political, religious and economic conditions of the people.

PSO 3 - Develop interests in the study of history and activities relating to history. They:

(a) Collect old coins

(b) Visit places of historical interests, archaeological sites, museums and archives.

(c) Read maps, charts etc

PSO 4 - To promote the skills required for the students appear for career oriented competitive examinations.

PSO 5 - Understand the history of countries other than India with comparative approach.

PSO 6 - To enable the student to choose a career in education as a school teacher.

PSO – 7 – Analyse the spread of various religious administrative, executive and revolutionary ideologies.

PSO – 8 – Understand the Art and Architectural glory of India

PSO – 9 – Compare the role of various rulers, leaders, reformers and constitution for the development of administration society and culture through the ages

