

**MUTHURANGAM GOVT. ARTS COLLEGE (A), VELLORE – 02**

**DEPARTMENT OF TAMIL**

**PROGRAMME : FOUNDATION TAMIL, NON – MAJOR, B.A. MAJOR TAMIL**

**Programme Outcomes**

PO – 1. Modern literature: ( Poetry - Prose - Non - detailed) These subjects are helping students to

become a creative writers, essay writers, orators, actors, stage performers etc., to secure

good fame and name in the society.

PO – 2. Grammar: (nannool - yaapu - thandi - puraporul venbmaalai - nambi agapporul - dravida

mozhigalin oppilakanam) The grammar subject is playing key role in the language syllabus. This subject is helping them to learn the language fluently to read write and speak. Tamil grammar is most important to sustain the standard of the language.

PO \_ 3. Inscription and archaeology: These are the allied subjects & Non major subjects which is closely

related to the Tamil language and literature since from the ancient period. These subjects brings

knowledge on the history and growth of Tamil language and literature as well as the culture of

the Tamils.

**Programme specific Outcomes**

Pso – 1. Journalism and mass communication: This subject helps students to get job opportunities in

the competitive society. Today mass media and communication is very familiar to accommodate skilled persons to run the departments well. In fact, Tamil learned

graduates

were giving first priority.

PsO – 2. Tourism management: This subject also helps students to learn more about tourism places and

its importance. This subject leads them to become a self employed person in various directions.

PsO – 3. Folklore - feminism: These subjects also teaches the students about trends of the modern social

changes and make them aware to build this equilibrium in the society.

**Knowledge Level description**

K1-Basic ideas / Remembering / Recalling; K2-Understanding; K3- Applications; K4 - Analyzing

## **DEPARTMENT OF TAMIL**

### **PROGRAMME : M.A. & M.Phil Tamil**

#### **Programme Out comes**

PO – 1. PG students shall improve their grammar knowledge thoroughly to handle the language

Perfectly and make creativity among student community.

Po – 2. M.Phil students are having research training by presenting research paper on the syllabus in the weekly seminar classes. Also they were tuned to participate in the debates and other Tamil oriented skills.

#### **Programme Specific Out comes**

PSO – 1. PG students are studying in Ancient Literature on the whole. They were thought the

Tamil Heritage and culture through the subject. So that they can understand the history

and life of the and ancestors to follow in the existing life.

PSO – 2. Didactic literature is also syllabus for PG & M.Phil students. Virtue literature like Thirukkural and other literatures help students community to learn the humility and self dignity to lead the pions of life in the society.

PSO -3. Tamil is a Bhakti language which teaches morals and ethics through various religious philosophies. Also bhakti literature provides good lesson to the student community to live better and make the society better.

## Department of English

### B.A English

<b>PO.NO</b>	<b>Programme Outcome</b>
	<b>On Completion of the B.A Degree programme the graduates will be able to:</b>
<b>PO-1</b>	Understand and apply critical and theoretical approach to the reading of texts in multiple genres.
<b>PO-2</b>	Write analytically and critically in a variety of formats including, essays, reports, critical reviews, research papers, articles and letters.
<b>PO-3</b>	Identify,analyze, appreciate, interpret, and describe the literary and cultural texts in different genres.
<b>PO-4</b>	Become familiar with the representative and cultural texts within specific, historical, geographical and cultural context.
<b>PO-5</b>	Understand the process of communicating and interpreting human experiences through literary representation.

<b>PO.NO</b>	<b>Programme Specific Outline</b>
	<b>After completing the course the students will be able to:</b>
<b>PSO-1</b>	Use English effectively in formal and informal situations
<b>PSO-2</b>	Identify the different genres in English literature like Indian literature, British literature and American literature.
<b>PSO-3</b>	Develop vocabulary and communicative skills and attempt creative writings.
<b>PSO-4</b>	Enjoy reading literature; the short stories, poems, novels and plays, mastering language learning skills like listening, speaking, reading and writing.
<b>PSO-5</b>	Develop enriched confidence to appear for competitive examinations and are able to get the jobs in industry, government schools and offices.

## M.A ENGLSIH

<b>PO.NO</b>	<b>Programme Outline:</b>  <b>After completing M.A Degree programme the students will be able to:</b>
<b>PO-1</b>	Write critical analysis of any given genre and also write research article in the familiar area of their study.
<b>PO-2</b>	Carryout the independent and original scholarship that informs research, teaching and service in the Department of English.
<b>PO-3</b>	Design and carry out original and persuasive research in English Literature with particular attention to their chosen area of focus.
<b>PO-4</b>	Demonstrate an ability to define projects and conduct research independently.
<b>PO-5</b>	Acquire a number of strategies for analyzing individual examples of literary and film and also write review of the same.

<b>PO.NO</b>	<b>Programme Specific Outline</b>  <b>After completing M.A Degree programme the students will be able to:</b>
<b>PSO-1</b>	Appear for competitive examinations such as SET, NET, TET, etc...
<b>PSO-2</b>	Present papers in symposia and answers the questions in an open forum.
<b>PSO-3</b>	Able to seek careers in a wide range of English public relations or communication fields.
<b>PSO-4</b>	Gain in-depth knowledge of the core-areas of the subject.
<b>PSO-5</b>	Demonstrate a command of English and its linguistic structures, recognize and comprehend different varieties of English.

**PG DEPARTMENT OF HISTORY**

**B.A HISTORY PROGRAMME**

**Programme outcomes**

<b>PO.No</b>	<b>Upon completion of the B.A HISTORY Degree Programme the graduates will be able to</b>
<b>PO-1</b>	<b>To know about the subject of History and to cater the needs of the society.</b>
<b>PO-2</b>	<b>To cultivate the knowledge about administration, social and cultural history.</b>
<b>PO-3</b>	<b>To learn about the ethic value and scope of the subject.</b>
<b>PO-4</b>	<b>To understand the contemporary issues ,to achieve various aspects of the life.</b>
<b>PO-5</b>	<b>To motivate the achievements, goals and develop in various fields.</b>

**Programme Specific Outcomes:**

<b>PSO.No</b>	<b>Upon completion of these courses the students would</b>
<b>PSO-1</b>	<b>To understand the background of our culture, tradition, religion and History.</b>
<b>PSO-2</b>	<b>To develop the interest in the study of History.</b>
<b>PSO-3</b>	<b>To develop the interest to collect Archaeological material to built History.</b>
<b>PSO-4</b>	<b>To motivate the students to know or visit historical sites, archaeological museum and tourist centers.</b>
<b>PSO-5</b>	<b>To motivate the students to face competitive examinations.</b>

### M.A., HISTORY PROGRAMME

PO.No	Programme outcomes  Upon completion of the M.A HISTORY Degree Programme the graduates will be able to
PO-1	To help developing a keen historical sense of thinking ,investigating and analyzing the facts.
PO-2	Student can explore possibilities across a variety of fields including Journalism, Public administration, social welfare, archaeology, Museology, Restoration of monuments etc.
PO-3	To achieve knowledge in the subject of History and apply its principles to befit for employment, such as Teacher, Research Assistant, Historian ,Journalist, Social counsellors.
PO-4	To develop confidence to appear for UPSC/TNPSC Group I,II,IV and can even start their own business.
PO-5	Can adopt themselves to ethical values, harmonious living and contribute to digital world.

#### **Program Specific Outcomes:**

PSO-1	They can understand the relatives of history and contributions of various races and nations.
PSO-2	To enables the students to lead their own inquiries to the past events and contemporary issues.
PSO-3	To attempt to interpret the fact and explain the causes and results of the events.
PSO-4	To participate in social, economical and political organizations confidently.
PSO-5	To develop values of patriotism, cultural heritage, research ethics and moral values.

## **DEPARTMENT OF BUSINESS ADMINISTRATION**

### **PROGRAM OUTCOME**

BBA is a stepping stone to the high value professional course, MBA. It helps the students to gain essential knowledge about the corporate world and also the fundamentals of administration.

1. After completing three years of Bachelors in Business Administration (BBA) program, students will be enhanced with knowledge and skills in the field of management, accounting, marketing, human relations, production, research, mathematics and statistics.
2. To improve communication skills.
3. To enhance the critical evaluation capability of the students.
4. Students are able to define, analyse, and devise solutions for structured and unstructured business problems and issues using cohesive and logical reasoning patterns for evaluating information, materials, and data.
5. Apply the managerial knowledge for effective decision making.
6. It leads a student to higher education opportunities and strengthens their knowledge.

### **PROGRAM SPECIFIC OUTCOME**

1. Developing specific managerial skills to own or manage business activities.
2. Students have choices to pursue professional courses such as CA, M.COM, MBA, ICWA, CS, etc
3. Students are able to play roles of businessmen, entrepreneur, managers, consultant.
4. Students can function effectively as a member, leader, individual and group in the society.
5. Providing opportunity to the students to gain practical exposure towards the workplace.

**P.G and Research Department of Commerce**

**PG & RESEARCH DEPARTMENT OF COMMERCE**

**Programme: B.Com**

**PROGRAMME OUTCOME**

Upon completion of the B.Com Degree Programme the graduate would be able to

- PO-1 Facilitate Students to pursue Higher Studies/Professional course/appear Competitive examinations
- PO-2 Apply subject knowledge to cater to the needs of the Society/Employer/Institution/Own Business/Enterprise with Competency.
- PO-3 Making a positive contribution to the Public, Government, Commerce and Industry by thorough accounting practices.
- PO-4 Gain Both Qualitative and Quantitative knowledge in managerial accounting career skills which would be used in future career in various business and Services.
- PO-5 Acquire certain skills like effective communication, decision making, problem solving by adopting various techniques learned
- PO-6 Compute taxes as its provisions are learned as required by the Tax authorities.

**Programme Specific Outcomes**

Completion of these courses facilitate

- PSO-1 To transform and empower women graduates to meet global challenges through holistic education in terms of recent Teaching – Learning methodologies.
- PSO-2 To groom the graduates towards excellence through building communication skills, handling leadership challenges and negotiating career path ways.
- POS-3 To heighten the conscious of the graduate on socio-economic concern and to evolve it as an in- built mechanism to chisel as better human being.
- POS-4 To impart the knowledge to graduates by blending the core areas of the subject domain in a pragmatic manner so as to emerge as efficient professionals, entrepreneur and finance experts
- POS-5 To bridge the inherent skills of graduates with the industrial expectations in the ever - changing and challenging global competitive business environment by continuously providing comprehensive knowledge in the subject domain



## **PROGRAMME: P.G.- COMMERCE- M.COM.**

### **PROGRAMME OBJECTIVES**

The aim of this Programme is to develop Commerce professionals with specialised skills and applied competencies in theoretical and practical knowledge of Finance and Marketing that will cater to the contemporary needs of industry and academia by providing student-centric learning ambience backed with critical thinking and problem solving capabilities. The main objective of this Programme is to train the students to develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management, security market transactions, corporate governance practices, and marketing management of a business.

The Programme will enable students:

- To acquaint with conventional as well as contemporary areas in the discipline of Commerce.
- To be well versed in national as well as International trends.
- For conducting business, accounting and research practices.
- To understand role of regulatory bodies in corporate and financial sectors.

### **PROGRAMME SPECIFIC OUTCOMES – M.COM**

- To impart the knowledge of business and the techniques of managing the business with special focus on marketing, Insurance and banking theory law and practices knowledge basic accounting principles and the latest application oriented corporate accounting methods.
- To develop decision making skills through costing methods and practical application of management accounting principles.
- To enhance the horizon of knowledge in various field of commerce through advertising and sales promotion, auditing and entrepreneurial development.
- To enhance computer literacy and its applicability in business through latest version on tally and e-commerce principles.
- To create awareness in application oriented research through research for business decisions.

## **PROGRAMME: RESEARCH - COMMERCE- M.Phil.**

### **PROGRAMME OUTCOMES (POs)**

On completion of the M.Phil Programme, the researcher will be able to

**PO 1:** Apply contextual and practical knowledge endowed professionally for the academic and corporate world.

**PO 2:** Identify the research aptitude to pursue research in new and advanced areas.

**PO 3:** Apply skill sets for critical and analytical thinking, communication and leadership in all walks of life.

**PO 4:** Identify, design & formulate projects relating to the need of the environment for sustainable development.

**PO 5:** Plan for any area of specialisation relating research in initiatives relating to contemporary areas in business and design teaching methodology based on practical exposure gained for life-long learning.

### **PROGRAMME SPECIFIC OUTCOME (PSOs)**

On completion of the specific programme the researcher will be able to:

**PSO 1:** Learn the latest trends in Commerce relating to human resource management, marketing, banking, entrepreneurial development and finance.

**PSO 2:** Analyze and evaluate the complex problems in business with an understanding of the contextual and practical knowledge gained.

**PSO 3:** Prepare for a career in teaching and research.

**PSO 4:** Equipped for employment in Government and Private Research institutions

**PSO 5:** Engage in lifelong learning by being equipped with a global outlook towards facing challenges of the dynamic world.

**PSO 6:** Acquire proficiency and analytical skills in areas of commerce along with hands on experience in organizations with respect to research project/work.

## DEPARTMENT OF MATHEMATICS

### B.Sc., Mathematics

#### Programme Outcomes: (POs)

1. Scientific temper will be developed in students.
2. Students will acquire basic practical skills and technical knowledge along with domain knowledge of different subjects in the science stream.
3. Students will become employable, they will be eligible for career opportunities in industry, or will be able to opt for entrepreneurship.
4. Students will possess basic subject knowledge required for higher studies, professional and applied courses like management studies, Law etc.,
5. Students will be aware of and able to develop solution oriented approach towards various social and environmental issues.

#### Programme Specific Outcomes: (PSOs)

1. A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology.
2. A student should get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.
3. Student is equipped with mathematical modeling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
4. Student should be able to apply their skills and knowledge that is translate in formation presented verbally into mathematical form, select and use appropriate mathematical formula or techniques in order to process the information and draw the relevant conclusion.
5. Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

## M.Sc., Mathematics

### Programme Outcomes: (POs)

After going through two years of study, our mathematics Post-Graduates will exhibit ability to:

1. Apply knowledge of mathematics, basic science and software knowledge.
2. Identify, formulate and solve the problems.
3. Design a system or process to improve its performance satisfying its constraints.
4. Conduct experiments and collect, analyze and interpret the data.
5. Conduct themselves to uphold the professional and social obligations.
6. Function in a multi disciplinary team.
7. Proficiency in oral and written communication.
8. Continue professional development and learning as a life long activity.

### Programme Specific Outcomes: (PSOs)

By the completion of the Post Graduate Programme in mathematics the student will have the following programme specific outcomes.

1. To be able to demonstrate standard mathematical principles and methods.
2. To be able to identify the logical background of real world problems or research problems.
3. To be able to utilize appropriate mathematical tools to solve research level or real world problems.
4. To be able to critically analyze the possible solutions of the emerging mathematical problems.

## **PG & Research Department of Physics**

### **Program Outcomes for UG**

- PO 1: To experience all the innovative ideas of modern life.
- PO 2: To enable the students in multi diversity scientific awareness.
- PO 3: To impart scientific knowledge to rural students.
- PO 4: To uplift the standard of students to next level.
- PO 5: To excel the Socio-Environ and academic behaviour of the Students.

### **Program Specific Outcomes for UG**

1. Physics develops scientific attitude among rural students to enhance the rational thinking, critical skills to face challenges, which are in front of their.
2. It creates depth of knowledge in the subject to socially face the problems in scientific world.
3. It also develops leadership quality among the students and integrates knowledge and develops skills for applications.
4. The recent scheme of the subject partaking to physics develops skills for handling computer, electronic gadgets knowledge in chemistry and mathematics to successfully handle the students.
5. The scientific knowledge provide by the physics to develop the skill of handling machinery and scientific equipments in the laboratory.

## PG & Research Department of Physics

### Program Outcomes for PG

- PO 1: To enhance the scientific altitude among the students to inculcate the Scientific curiosity.
- PO 2: To understand the physics in every steps of common life.
- PO 3: To equip the rural students for the global scientific competence.
- PO 4: To drive away the inadequacy of science subject.
- PO 5: To initiate the scientific temperament.

### I M. Sc Physics

Course Title	CLASSICAL MECHANICS AND RELATIVITY	
CODE	17P1PH 1	
CO No.	Course Outcomes	Knowledge Level
CO-1	To learn the basic concepts of Co-ordinates. Understand the concept of D' Alembert's principle and applications of D'Alembert's principle in lagrangian equation of motion.	K1 and K2
CO-2	To learn the basic concepts of Kepler's law and the concepts of central potential. Application of Kepler's law.	K2
CO-3	Understand the concept of canonical transformation and Hamiltonian - Jacobi theory. Applications of canonical and Hamiltonian theory.	K2 and K3
CO-4	Acquire the knowledge of rigid body and understanding the concepts of moment of inertia of rigid body. Applications of rigid body- Symmetrical top.	K2 and K3
CO-5	Understand the concept of Euler analysis and understand the concepts of small oscillations. To learn the concepts of relativity and Maxwell's equation for lagrangian equation.	K3

### B.SC PROGRAMME OUTCOMES

<b>PO. No.</b>	<b>After successful completion of the B.Sc Degree programme the graduate will be able to</b>
<b>PO-1</b>	Students gained the theoretical as well as practical knowledge of handling chemicals.
<b>PO-2</b>	Also they expand the knowledge available opportunities related to chemistry in the government services through public service commission particularly in the field of food safety, health inspector, pharmacist etc.
<b>PO-3</b>	Afford a broad foundation in chemistry that stresses scientific reasoning and analytical problem solving with a molecular perspective.
<b>PO-4</b>	Achieve the skills required to succeed in graduate school, professional school and the chemical industry like cement industries, agro product, Paint industries, Rubber industries, Petrochemical industries, Food processing industries, Fertilizer industries etc.
<b>PO-5</b>	Got exposures of a breadth of experimental techniques using modern instrumentation. Understand the importance of the elements in the periodic table including their physical and chemical nature and role in the daily life.

<b>PSO. No.</b>	<b><u>B.SC PROGRAMME SPECIFIC OUTCOMES</u></b> <b>After successful completion of the course the students would</b>
<b>PSO-1</b>	To develop students' ability and skill to acquire expertise over solving both theoretical and applied chemistry problems.
<b>PSO-2</b>	To provide knowledge and skill to the students' thus enabling them to undertake further studies in chemistry in related areas or multidisciplinary areas that can be helpful for selfemployment/ entrepreneurship.
<b>PSO-3</b>	To enable the graduate prepare for national as well as international competitive examinations, especially UGC-CSIR NET and UPSC Civil Services Examination.
<b>PSO-4</b>	Achieve the skills required to succeed in graduate school, professional school and the chemical industry like cement industries, agro product, Paint industries, Rubber industries, Petrochemical industries, Food processing industries, Fertilizer industries etc.
<b>PSO-5</b>	Got exposures of a breadth of experimental techniques using modern instrumentation. Understand the importance of the elements in the periodic table including their physical and chemical nature and role in the daily life.



<b><u>M.SC PROGRAMME OUTCOMES</u></b>	
<b>PO. No.</b>	<b>After successful completion of the M.Sc Degree programme the graduate will be able to</b>
<b>PO-1</b>	Having a clear understanding of the subject related concepts and of contemporary issues.
<b>PO-2</b>	Having problem solving ability- to assess social issues (societal, health, safety, legal and cultural) and engineering problems
<b>PO-3</b>	Having a clear understanding of professional and ethical responsibility.
<b>PO-4</b>	Students will be able to understand the basic principle of equipments, instruments used in the chemistry laboratory.
<b>PO-5</b>	Students will be able to demonstrate the experimental techniques and methods of their area of specialization in Chemistry

<b><u>M.SC PROGRAMME SPECIFIC OUTCOMES</u></b>	
<b>PSO. No.</b>	<b>After successful completion of the course the students would</b>
<b>PSO-1</b>	Apply advanced concepts of organic, analytical, physical and inorganic chemistry to solve complex problems to improve human life.
<b>PSO-2</b>	Able to independently carry out research / investigation to solve practical problems and write / present a substantial technical report/document.
<b>PSO-3</b>	Design experiments, analyze, synthesize and interpret data to provide solutions to different industrial problems by working in the pure, inter and multi-disciplinary areas of chemical sciences.
<b>PSO-4</b>	The course curriculum also includes components that can be helpful to graduate students to develop critical thinking ability by way of solving problems/numerical using basic chemistry knowledge and concepts.
<b>PSO-5</b>	Chemistry graduates are expected to know basics of cognitive biases, mental models, logical fallacies, scientific methodology and constructing cogent scientific arguments.

## **NAME OF THE PROGRAMME : UG/ Computer Science**

B.Sc. or Bachelor of Science with Computer Science is a general multidiscipline bachelor programme. The programme has a balanced emphasis on three science subjects, one of which is computer science. A student studying B.Sc. with Computer Science is required to choose two other subjects which include Physics and Mathematics. Computer science is a discipline that spans theory and practice and it requires thinking both in abstract terms and in concrete terms. Nowadays, practically everyone is a computer user, and many people are even computer programmers. Computer Science can be seen on a higher level, as a science of problem solving and problem solving requires precision, creativity, and careful reasoning.

### **Program Educational Objectives (PEOs)**

- PEO1:** Graduates will have skills and knowledge to excel in their professional career in Computer Science and related disciplines
- PEO2:** Graduates will contribute and communicate effectively within the team to grow into leaders
- PEO3:** Graduates will practice lifelong learning for continuing professional development into leaders
- PEO4:** Graduates will have the capability to continue their formal education and successfully complete an advanced degree
- PEO5:** Graduates will contribute to the growth of the nation and society by applying acquired knowledge in technical, computing and managerial skills.
- PEO6:** Graduates of the program will become technically competent to pursue higher studies.
- PEO7:** Graduates of the program will utilize modern and advanced technological tools for performing Investigation, analysis and synthesis by identifying various computer solutions.

### **Program Learning Outcomes (PLOs)**

- PLO1:** Ability to apply knowledge in mathematics and science fundamentals to solve problems.
- PEO2:** Ability to use a range of programming languages and tools to develop computer programs to solve problems effectively.
- PEO3:** Design, and analyze precise specifications of algorithms, procedures, and interaction behavior.

- PLO4:** Ability to communicate effectively in both verbal and written form in industry and society.
- PLO5:** Ability to work in teams to build software systems and apply the technologies in various fields of Computer Science, including Mobile applications, Web site development and management, databases, and computer networks.
- PLO6:** Ability to select appropriate techniques to tackle and solve problems in the discipline of information security management.
- PLO7:** Understand the basic concepts of system software, hardware and computer graphics.

## **NAME OF THE PROGRAMME: PG/ M.Sc .Computer Science**

### **About the Programme**

M.Sc. in Computer Science is a two-year post-graduate programme with the objective to develop human resources with core competence in various thrust areas of Computer Science and to give an insight into the latest development and happenings in the industry.

### **Program Educational Objectives (PEOs)**

- PEO1:** To provide advanced and in-depth knowledge of computer science and its applications
- PEO2:** To prepare Post Graduates who will achieve peer-recognition; as an individual or in a team; through demonstration of good analytical, design and implementation skills.
- PEO3:** To enable students pursue a professional career in Information and Communication
- PEO4:** Technology in related industry, business and research.
- PEO5:** To impart professional knowledge and practical skills to the students.

### **Program Learning Outcomes (PLOs):**

- PLO1:** An ability to apply programming and computational skills for industrial solutions.
- PLO2:** Realizes the importance of lifelong learning and continuous professional development.
- PLO3:** Broad understanding of latest technological trends.
- PLO4:** An ability to identify opportunities for establishing an enterprise for immediate Employment.
- PLO5:** Ability to understand and apply fundamental research concepts.
- PLO6:** Ability to sustain in the areas of Data Science and Analytics.

## **PG DEPARTMENT OF FOODS AND NUTRITION**

### **2.6.1. Programme Outcome**

The department of Nutrition, Food Service Management and Dietetics was started during the academic year 2011 with an under graduate programme of B.Sc Nutrition, Food Service Management and Dietetics and M.Sc Foods and Nutrition was started during the academic year 2018 towards academic excellence. The programme outcome is to enable students to gain knowledge in the field of food, nutrition and dietetics and exemplarily develop students into future teachers, scientists, dieticians in health care sectors, quality control managers in food industries and become a successful entrepreneur. It also makes students as nutrition conscious citizen of India.

### **2.6.2 Programme specific Outcome**

This course provides basic understanding of human anatomy and physiology, food microbiology, nutritional qualities of food, scientific application to food and its effect on health and diseases.

It helps the students to explore the importance of hygiene and sanitation.

It ensures the students to gain in depth knowledge on food processing, importance of food preservation, food standards and quality control, food safety and food biotechnology.

It makes the students to learn various methods involved in cooking effectively without leaching out of nutrients.

It provides opportunity to learn the different milestones of child developmental which in turn helps the students to provide job opportunity in multi-disciplinary field.

It gives path to uptake knowledge on process and principles of nutrition counselling.

## **PG Department of Zoology**

### **B.Sc., Zoology**

#### **BSc., Zoology**

PSO1: Gain knowledge and skills in the basic biological principles and understands the complex interactions among various living organisms.

PSO2: Understanding the morphology and functional characteristics at cellular and sub-cellular (molecular) level

PSO3: Enhancing the technical skills for experimental purposes.

#### **Programme Outcome (PO)**

- Evaluate the role of science, mathematics, and technology in addressing current issues facing local and global communities.
- Drives scientific and societal advancement through technological innovation and entrepreneurship.
- Acquire domain knowledge
- Strengthen critical thinking and reasoning skills
- Develop effective communication skills
- Imbibe human values, inclusiveness attitude and socio-cultural sensitivity
- Build up self-esteem and competence to face challenges
- Attain life-readiness through problem-solving skills and competencies
- Work effectively in groups to meet a shared goal with people whose disciplinary and cultural backgrounds differ from their own.
- Develop appropriate methods of research, investigation, and design, to solve problems in science, mathematics, and technology.

#### **Programme Specific Outcome (PSO)**

- Acquire basic knowledge of various disciplines of Zoology and General
- Biology meant both for a graduate terminal course and for higher studies.
- Understand the rich diversity of organisms and their ecological and evolutionary significance.
- Acquire basic knowledge and skills in certain applied branches for self-employment.
- Impart awareness of the conservation of the biosphere.
- Imbibe basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation.

**PG Department of Zoology**

**M.Sc., ZOOLOGY PROGRAMME**

**Program Outcomes:**

After successful completion of two year PG degree programme in Zoology a student should be able to;

PO1: Gain knowledge and skills in the basic biological principles and understands the complex interactions among various living organisms.

PO2: Recognize the scientific facts behind natural phenomena.

PO3: Applying the theory and practical knowledge to solve the problems of the society.

PO4: Gain knowledge and skills to use modern sophisticated equipment's and tools.

PO5: Gain information and skill on advanced biological techniques to perform experiments and interpret the results in the areas of ecology, developmental biology, physiology, cell biology, genetics, biochemistry, biophysics, bioinformatics, biostatistics, microbiology, biotechnology, and immunology and research methodology.

PO6: Apply the knowledge and understanding of Zoology to one's own and social life.

PO7: Utilize the obtained scientific knowledge to create eco-friendly environment.

PO8: Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties.

**Program Specific Outcomes:**

PSO1: Used the evidences of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They are able to use specific examples to explicate how descent with modification has shaped animal morphology, physiology, life history, and behavior.

PSO2: Explicated the ecological interconnectedness of life on earth by tracing energy and nutrient flows through the environment. They are able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.

PSO3: Explain how organisms function at the level of the gene, genome, cell, tissue, organ and organ-system and develop theoretical and practical knowledge in handling the animals and using them as model organism.