

S.V.K.P & Dr. K.S. RAJU ARTS & SCIENCE COLLEGE
PENUGONDA - 534 320, W. G. Dt., A. P.
Recognized by UGC as “College with Potential for Excellence”
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DEPARTMENT OF ENGLISH

Programme Specific Outcomes :

- PSO1 : On successful completion of the programme, the students will be accurate both in oral and written communication as they will be strong in grammar and its usage.
- PSO2 : They can express through command of English and its language patterns.
- PSO3 : They can apply critical frame works to analyze the cultural and historical background of texts written in English.
- PSO4 : Students able to speak good English Language.

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DEPARTMENT OF TELUGU

Programme specific outcomes:

- PSO1. Students gain the master knowledge in communication skills , reading skills and writing skills effectively as professionals and continue learning within the field of Telugu language and literature.
- PSO2. Confidence among students toward Indian culture.
- PSO3. Providing Job opportunities through Telugu language.
- PSO4. Encouraging students for their energy levels of creativity in writing poetry & stories etc..
- PSO5. Developing philosophy of life inspiring by the vision of eminent writers.

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DEPARTMENT OF HINDI

Programme Specific Outcome:

PSO: 1 Understanding the relation between society and literature and analyse the role played by Hindi literature in past and present.

PSO: 2 Developing skill of writing official letters in functional Hindi.

PSO: 3 Developing philosophy of life inspiring by the vision of eminent writers.

PSO: 4 Identifying the nature and character of person through his actions.

PSO: 5 Gaining socio cultural consciousness.

PSO: 6 Exploring, analysing and enriching the self knowledge.

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DEPARTMENT OF MATHEMATICS

PROGRAM SPECIFIC OUTCOMES

After the successful completion of this course, the student will:

PSO 1 : Be able to explain the core ideas and the techniques of mathematics at

The college level.

PSO 2 : ☐ Be able to recognize the power of abstraction and generalization, and to

carry out investigative mathematical work with independent judgment.

PSO 3 : ☐ Be able to setup mathematical models of real world problems and

obtain solutions in structured and analytical approaches with

independent judgement.

PSO 4 : ☐ Be able to carry out objective analysis and prediction of quantitative

information with independent judgment.

PSO 5 : ☐ Be able to communicate effectively about mathematics to both lay and

expert audiences utilizing appropriate information and communication

technology.

PSO 6 : ☐ Be able to work independently, and to collaborate effectively in team

work and team building.

PSO 7 : ☐ Be able to conduct self-evaluation, and continuously enrich themselves

through lifelong learning.

PSO 8 : ☐ Be able to communicate to lay audiences and arouse their interest in the

beauty and precision of mathematical arguments and science.

PSO 9 : ☐ Be able to recognize the importance of compliance with the ethics of

science and being a responsible citizen towards their community and a

sustainable environment.

PSO 10 : ☐ Be able to cultivate a mathematical attitude and nurture the interests.

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DEPARTMENT OF PHYSICS

Programme Specific Outcomes : B. Sc., MPC

Physics :

- PSo1 : Educating students in the Core of Physics, including substantial practical and experimental physics, while enabling students to train in both the theoretical and practical aspects.
- PSo2 : Providing high quality education in Physics within an Environment Committed to excellence in teaching.
- PSo3 : Usage of mathematics in Physics equations to describe, interpreting results and critically comparing them with experiment and observations.

Chemistry :

- PSo1 : Acquire Technical Skills required for the synthesis and structural characterisation of organic and inorganic compounds.
- PSo2 : Obtain theoretical knowledge in various spectro analytical techniques with wide applications.
- PSo3 : Knowledge in Chemistry concepts relates to other disciplines of Science.

Mathematics :

- PSo1 : Distinguish between linear, non linear, partial and ordinary differential equations.
- PSo2 : Evaluate line, surface and volume integrals using Divergence, Green and Stokes theorems.
- PSo3 : Understand the role of computations as a tool in real world problem solving.**

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DEPARTMENT OF ELECTRONICS

A graduate of the Bachelor of Science in M.E.Cs Program will demonstrate:

- ❖ PSO 1: Understand the concepts of basic electronic components, networks, communication systems, microprocessors and micro controllers, algorithms, C language, Networking, cloud and Big Data.
- ❖ PSO 2: Analyse the concepts of mathematics, Electronics and computer Networks and able to use them in solving real world problems.
- ❖ PSO 3: Understand the use of electronics in the field of computer science.

A graduate of the Bachelor of Science in M.P.E Program will demonstrate:

- ❖ PSO 1: Ability to interlink the skills developed and gets an aptitude to address the problems in smart home design, smart sensors in various fields.
- ❖ PSO 2: Analyze the concepts of mathematics, Physics and Electronics able to use them in solving real world problems.
- ❖ PSO 3: Perform and testing of different electronics components and circuits.

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U.G DEPARTMENT OF CHEMISTRY

PROGRAMME SPECIFIC OUTCOMES

B.Sc., (Chemistry)

Program Specific Objectives:

- ❖ Bachelor of Science in Chemistry is to prepare students for successful careers and for advanced graduate study in Chemistry.
- ❖ To impart knowledge of a broad range of Chemical instruments, apparatus, tools, and mathematical & computer techniques, and the capability of applying them to analyze and synthesis the compounds.
- ❖ To make them understand fundamental theoretical and practical concepts in Chemical Science.
- ❖ Impart capability of solving a wide variety of problems by applying principles of computational thinking.
- ❖ Inculcate habits of working effectively and professionally on analysis of chemical components.

Programme Specific Outcomes:

PSO1: Gain the knowledge of Chemistry through theory and practical.

PSO2: To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.

PSO3: Identify chemical formulae and solve numerical problems.

PSO4: Use modern chemical tools, Models, Chem-draw, Charts and Equipments.

PSO5: Know structure-activity relationship.

PSO6: Understand good laboratory practices and safety.

PSO7: Develop research oriented skills.

PSO8: Make aware and handle the sophisticated instruments/equipments.

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DEPARTMENT OF COMPUTER SCIENCE

Program Specific Objectives:

- ❖ Bachelor of Science in Computer Science is to prepare students for successful careers and for advanced graduate study in computer science.
- ❖ To impart knowledge of a broad range of Computer Science skills, tools, and mathematical techniques, and the capability of applying them to analyze and design complex systems.
- ❖ To make them understand fundamental theoretical and practical concepts in Computer Science.
- ❖ Build the ability to adapt to an ever-changing technological landscape.
- ❖ Impart capability of solving a wide variety of problems by applying principles of computational thinking.
- ❖ Inculcate habits of working effectively and professionally on diverse project teams.
- ❖ Induce the ability to communicate technical information clearly and effectively, both orally and in writing.
- ❖ Facilitate them to understand how to approach social effects of computing ethically and responsibly, and being committed to doing so.

Programme Specific Outcome:

PSO1: Apply fundamental principles and methods of Computer Science to a wide range of Applications.

PSO2: Design, correctly implement and document solutions to significant computational Problems.

PSO3: Impart an understanding of the basics of our discipline.

PSO4: Prepare for continued professional development. **PSO5:** Develop proficiency in the Practice of computing

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DEPARTMENT OF ZOOLOGY

Programme specific outcome (BZC & CZBT)

Zoology:

The graduate of this programme should be able to

PSO1:Identify and list out common animals.

PSO2:Explain various physiological changes in our bodies.

PSO3:Analyze the impact of environment on our bodies.

PSO4:Understand various genetic abnormalities.

PSO5:Explain the role and impact of different environmental conservation programmes.

PSO6:Identify animals beneficial to humans.

BOTANY:

PSO1:Expose themselves to the diversity amongst life forms

PSO2:Make aware of natural resources and environment and the importance of conserving it.

BIOTECHNOLOGY:

PSO1:Biotechnology is a field of applied biology that involves the use of living organisms and bioprocesses in engineering, technology, medicine and other fields requiring by products.

PSO2:Biotechnology being a multidisciplinary field is in great demand because of its various applications in the field of research and development.

CHEMISTRY:

PSO1:To be familiarised with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences and to apprise the students of its relevance in future studies.

PSO2:To be exposed to the different processes used in industries and their applications.

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DEPARTMENT OF BOTANY

PSO 1 : Understand the importance of plants ,their diversity and its conservation.

PSO 2: Achieve knowledge of pure and applied botany.

PSO 3: Understand contribution of botany in increase and improve our supply of medicines, food , fibers and other plant products.

PSO 4: Understand health and environmental protection and to solve the pollution problems.

PSO 5: Understand knowledge of botany is an essential pre-requisite for the pursuit of many applied sciences like Agriculture, Horticulture ,Sericulture, Forestry, Pharmacology and Medicine.

PSO 6: Understand to care Environment.

PSO 7: Understand experiments in botany.

PSO 8: To understand Knowledge of Taxonomy and Ethno botany

PSO 9: To Understand the Knowledge of Medicinal plants.

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DEPARTMENT OF BIO-TECHNOLOGY/BIOCHEMISTRY/MICROBIOLOGY

PROGRAMME SPECIFIC OUTCOME : B. Sc (MBBCBT)

MICROBIOLOGY

PSO1: A general course emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification.

PSO2: This course also includes sophomore level material covering immunology, virology, epidemiology and DNA technology.

BIOCHEMISTRY

PSO1: This course presents the chemical reactions and metabolic functions in the living system and their regulations.

PSO2: To make the student to understand the concept of Basic Structure and metabolism of Bio molecules

PSO3: To inculcate knowledge in cellular functions , physiology and also biochemical properties of molecules.

BIOTECHNOLOGY

PSO1: Acquire knowledge on the fundamentals of biotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in life sciences.

PSO2: Acquire knowledge in domain of biotechnology enabling their applications in industry and research.

PSO3: Empower the students to acquire technological knowhow by connecting disciplinary and interdisciplinary aspects of biotechnology.

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DEPARTMENT OF HISTORY

Program Specific Outcomes Department of History

PSO1. Understand background of our religion, customs institutions, administration and so on.

PSO2. Understand the present existing social, political, religious and economic conditions of the people.

PSO3. Analyze relationship between the past and the present is lively presented in the history.

PSO4. Develop practical skills helpful in the study and understanding of historical events.

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DEPATMRNT OF ECONOMICS

Programmmme Specific Outcomes

- POS: 1 To able to understand basic concepts of economics.
- POS: 2 To able to analyze economic behavior in practice.
- POS: 3 Understand the economic way of thinking.
- POS: 4 The ability to analyze historical and current events from an economic perspective.
- POS: 5 The ability to write clearly expressing an economic point of view.
- POS: 6 Be exposed to alternative approaches to economic problems through exposure to
Coursework in allied fields.
- POS: 7 To create students ability to suggest of the various economic problems.

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DEPATMRNT OF POLITICS

Program Specific Outcomes

- PSO1: Knowledge about political system of the nation.
- PSO2: Study of national and international political affairs.
- PSO3: Study from competitive examination point of view.
- PSO4: Understanding the government mechanism, its functions, duties and responsibilities.
- PSO5: Creating appropriate and efficient political leaders.
- PSO6: Getting knowledge of political law.
- PSO7: Getting knowledge of Constitution of India.

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DEPARTMENT OF COMMERCE

B.COM (GENERAL)
PROGRAMME SPECIFIC OUTCOMES

PSO 1: Students will gain thorough subject skills within various disciplines of commerce, business, accounting, economics, banking, insurance finance, and auditing.

PSO 2: Students will have a thorough learning and application of accounting standards in context of contemporary corporate system and legislation.

PSO 3: The course focuses on In-depth knowledge of laws relating to consumers, employees, tax and companies.

PSO 4: Students will acquire the skills for analyzing and interpreting financial statements which will help them in taking financial decisions for organizations.

PSO 5: Learners will be able to recognize features and roles of businessmen, entrepreneur, managers and consultants, who will help them to possess knowledge and other soft skills required for critical decision making.

PSO 6: Students will be able to pursue their career as Financial Analyst apart from different positions in the field of accounting, taxation, banking, insurance and corporate law.

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DEPARTMENT OF COMMERCE

PSO 1: Students will improve their computer literacy, their basic understanding of operative systems and a working knowledge of software commonly used in academic and professional environments.

PSO 2: Students will learn to organize information efficiently in the forms of outlines, charts, etc. using appropriate software.

PSO 3: Students will acquire skills for designing and delivering an effective presentation and developing the various IT skills to electronic databases.

PSO 4: To develop the students with communication, leadership and entrepreneurial skills.

PSO 4: Students will be able to design and implement a web page.

PSO 6: Students will understand the concept of supply chain management & customer relationship management.

PSO 7: Students will be able to perform any C++ programming tasks.

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DEPATMRNT OF M.C.A

PROGRAM SPECIFIC OUTCOMES:

PSO1: Apply the knowledge of computer application to find solutions for real-life application.

PSO2 : Ability to analyze, design, develop and maintain the software application with latest technologies.

PSO3: Utilize skills and knowledge for computing practice with commitment on social, ethical, cyber and legal values.

PSO4: Inculcate employability and entrepreneur skills among students who can develop customized solutions for small to large Enterprises.

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DEPARTMENT OF MBA

FINANCIAL MANAGEMENT

- PSo1: Analyze the financial performance of an organization and apply various tools that aid in decision making.
- PSo2: To enable the students to apply the knowledge of Accounting standards, financial analytical tools and costing techniques, etc.
- PSo3: The students will be able to identify the relevance of financing, investing and dividend decisions and impact the growth of the form.
- PSo4: The students are able to enhance their knowledge on various financial markets and services.
- PSo5: To analyze and understand the financial perspective of risk management in a broader contest.

MARKETING MANAGEMENT

- PSo1: To understand the basic concepts of marketing and marketing environment.
- PSo2: Develops knowledge about marketing mix concept in the organization.
- PSo3: To understand the diverse set of marketing challenges of product concepts.
- PSo4: To evaluate integrated marketing communication system.
- PSo5: To identify various pricing concepts and understand different modes of channel of distribution systems.

HUMAN RESOURCE MANAGEMENT

PSo1: To gain knowledge of various HR functions

PSo2: To understand and design of recruitment and selection process in the organization.

PSo3: To know the performance appraisal system, its process and review analysis.

PSo4: To understand of training and development concepts in the organization.

PSo5: To know the legal knowledge for employee in the real time work environment.

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DEPARTMENT OF M.Sc. ORGANIC CHEMISTRY

M.Sc. ORGANIC CHEMISTRY – PROGRAM SPECIFIC OUTCOMES

S. No.	PSO Number	Program Specific Outcome
1	PSO 1	Students will be able to gain knowledge in new areas of research in both chemistry and allied fields of science and technology. They will get good opportunities in various research institutes like IICT and industries like Dr. Reddy’s, Hetero Drugs, Aurbindo, Laurus labs and Divi’s etc.
2	PSO 2	After learning this course student is equipped with both theory and practical knowledge of Reaction mechanism, synthesis, estimations, isolation, purification, chromatography and spectroscopic techniques.
3	PSO 3	Students will gain knowledge to play a key role in our society as a basis for ethical behaviour of safe handling of chemicals and maintaining environmental issues.
4	PSO 4	Students will gain sound knowledge on various theoretical concepts, quality control aspects and instrumentation techniques. Chemistry is only the subject to explain all events occurred in universe through micro level.

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DEPARTMENT OF M.Sc. M.SC. ZOOLOGY

PROGRAM SPECIFIC OUT COMES (PSO) OF M.SC. ZOOLOGY
I SEMESTER

PSO1: 19ZOOT11 - TOOLS AND TECHNIQUES FOR BIOLOGY

Biological & Chemical assay. Microscopy, Instrumentation: pH meter, Centrifugation, types of centrifuges, Chromatography; TLC, GC & HPLC. Principles, instrumentation and applications of UV, visible, infrared, NMR spectroscopy; Spectrofluorimetry and mass spectrometry. X-ray diffraction, Incorporation of radio-isotopes in Radiolabeling techniques.

PSO2: 19ZOOT12 BIOSYSTEMATICS, BIODIVERSITY AND EVOLUTION

Importance and applications of biosystematics, Biological classification-Theories. Origin and diversification of eukaryotes, Concepts of evolution – An overview of evolutionary biology, & theories of organic evolution.

PSO3: 19ZOOT13 BIOMOLECULES

Chemical foundations of biology, classification of amino acids, Proteins, Carbohydrates, Lipids, fatty acids and Nucleic acids

PSO4: 19ZOOT14 MOLECULAR CELL BIOLOGY

Experimental system in Cell Biology Biomembranes composition, Transport across membrane Cytoskeleton, Cell-Cell Signaling, Cell-Cell adhesion and communication, Cell cycle, Genome organization and Intracellular protein traffic.

PSO5: 19ZOOP15 Tools and Techniques for Biology lab:

Development of theoretical and Practical knowledge in Spectrophotometry , Centrifugation, Paper chromatography, Electrophoresis, pH Meter, Microscopy and tissue preparation for SEM & TEM procedure.

PSO6 19ZOOP16 Biosystematics, Biodiversity and Evolution Lab:

Understanding of Invertebrate and Vertebrate Phyla, types of Speciation-Models/Charts, Problems on Hardy-Weinberg law, Random genetic drift causing change in gene frequency- Practical demonstration and recent studies in Evolution- Examples

PSO7: 19ZOOP17 Biomolecules lab:

Development of practical knowledge in estimation of glycine by formal titration, Estimation of proteins by Lowry and Biurett methods, Analysis and identification of monosaccharides, Estimation of maltose by DNS method, Determination of Iodine value of oils, Estimation of Cholesterol and TLC of Amino acids

PSO8: 19ZOOP18 Molecular cell Biology lab:

Understanding of Light microscopic examination of tissues, Preparation of

different cell-types, Stages of Mitosis and Meiosis, Squash preparation, Sub-cellular fractionation – separation of macromolecules

II SEMESTER

PSO10: 19ZOOT21: BIOSTATISTICS & BIOINFORMATICS

Biostatistics scope and application in biology, Sampling. Primary and Secondary data, Frequency distribution, Graphic representation of data. Computer fundamentals, MS-EXCEL, MS- WORD, Power Point, image and data handling. Bio-informatics, Biological Databases.

PSO11: 19ZOOT22: ANIMAL PHYSIOLOGY

Muscle, Structure and properties, Blood and Circulation immunity, haemostasis, Nerve impulses, Neurotransmitters, Nervous system, Thermoregulation, Osmoregulation, Stress Physiology, Digestion, Respiratory system, Cardiovascular System, Sensory physiology, Physiological Adaptation

PSO12: 19ZOOT23: IMMUNOLOGY

Immunity, Immunogens and antigens, Immunoglobulins, Antigen-antibody interactions, Antigen presentation, Antibody response, Cell mediated immunity, Development of immune system.

PSO13: 19ZOOT24: MOLECULAR BIOLOGY

DNA Structure and Replication, Transcription, Transcription RNA Polymerases, Translation, Genetic Code, Recombination and Repair, DNA repair mechanisms Molecular mapping of genome, Genetic and physical maps, fluorescence insitu hybridization (FISH) for genome analysis.

II SEMESTER PRACTICALS

PSO14: 19ZOOP25: Genetics and Evolution lab:

Understanding of Population Genetics: Calculating gene frequencies, Quantitative Genetics, Multifactor of inheritance.

Practical knowledge in observation of biodiversity, population identification, Growth patterns under laboratory conditions.

PSO15: 19ZOOP26: Developmental Biology lab:

Practical knowledge of an estimation of shell calcium, phosphorous and Observation of spermatozoa in vertebrates

PSO16: 19ZOOP27: Quantitative Biology lab:

Understanding of Vectors and Matrices, Sampling, Frequency distribution, Graphical presentation of the data, Measures of Central Tendency, Measures of Dispersion, Probability, Coefficient of correlation Circuit diagram – Examples of models, Ecological modeling – Case study.

PSO17: 19ZOOP28: Immunology lab:

Practical understanding of Western Blotting, SRID, DID, Immunoelectrophoresis, RIA, ELISA

III SEMESTER

PSO18: 19ZOOT31: POPULATION ECOLOGY

Ecology, Composition, Tropic dynamics of ecosystem, Energy flow, ecological pyramids. Major terrestrial biomes, Population growth, Population Regulation, Effects of increased numbers – Harmful Effects – Beneficial Effects – Protection – Influence on reproduction, Community concept, Habitat and Ecological Niche, Demography – Life Tables. catches.

PSO19: 19ZOOT32: GENERAL AND COMPARATIVE ENDOCRINOLOGY

Scope of endocrinology, Discovery and Classification of hormones, Experimental methods, Phylogeny and ontogeny, Neuroendocrine system. General principles of hormone action, Biosynthesis of steroid hormones, Metabolism of hormones., Hormones growth and development.

PSO20: 19ZOOT33: BIODIVERSITY AND ANIMAL CONSERVATION

Biodiversity, global, national and local levels, Biogeographic realms, Biogeographic zones, Hotspots in the world and in India, Hierarchical components, Biodiversity management and conservation, Gene banks, Wildlife protection acts, Satellite Remote Sensing and GIS.

PSO21: 19ZOOT34: MOLECULAR BIOLOGY

History and scope of Molecular Biology, Prokaryotic and Eukaryotic DNA Replication, Mechanics of DNA Replication, Transcription, Translation, Antisense and Ribozyme technology, Recombination and Repair, Molecular mapping of genome

III PRACTICALS

PSO22: 19ZOOP35: Population Ecology Lab:

Development of practical knowledge in enumeration of Zooplankton, phytal fauna, Rocky shore fauna, macrobenthos, meiobenthos, Creation of Life Table, Understanding of Zooplankton – Identification and Rocky shore fauna

PSO23: 19ZOOP36: General and Comparative Endocrinology lab:

Practical knowledge in dissection of endocrinology fish, Pituitary gland dissection, Role of iodine in metamorphosis of frog tadpole, Insulin level in blood sample, Identification of human gonadotropic hormone, Prawn – Nervous system.

PSO24: 19ZOOP37: Biodiversity and animal conservation Lab

Understanding of Biodiversity list of local fauna (invertebrates and vertebrates), Practical knowledge in an estimation of DNA, RNA in tissue (Colorimetric method), Understanding of PCR, RFLP Analysis.

IV SEMESTER

PSO25: 19ZOOP41: METABOLIC CELL FUNCTION AND REGULATION

Thermodynamic principles of living organisms, Energy metabolism and high energy compounds, Storage and utilization of biological energy, Nature of Enzymes, Metabolic Engineering,

PSO26: 19ZOOT42: PRINCIPLES OF BIOTECHNOLOGY

Concepts of Biotechnology, Biotechnology in India, Recombinant DNA Technology, Gene cloning, Gene Libraries, Polymerase chain reaction (PCR), PCR in Biotechnology and genetic engineering, Animal cell and tissue culture, Biotechnology in Medicine, Genetic counseling, forensic medicine, Biotechnology and Environment, Biotechnology and intellectual property: Intellectual Property Rights (IPR) Intellectual Property Protection (IPP).

PSO27: 19ZOOT43: AQUACULTURE

Aquaculture and productivity, Freshwater Aquaculture, Fish seed resources, Freshwater fish Culture, Fish nutrition, Brackish water aquaculture, Hatchery management, Brackish water farm management, Mariculture.

PSO28: 19ZOOT44: NEUROBIOLOGY AND ANIMAL BEHAVIOUR

Introduction to Neurobiology, Channels and Membrane Potential, Neural Communication, Organization of the Brain, Cognitive Neuroscience.

IV SEMESTER PRACTICALS

PSO29: 19ZOOP45: Metabolic cell function and regulations lab:

Practical understanding of Enzyme kinetics, Dehydrogenase, Lactic acid estimation, Proteins, glucose and Lipid estimations, DNA, RNA estimation, Transaminases

PSO30: 19ZOOP46: Principles of Biotechnology lab:

Practical understanding of determination of DNA, RNA, Glucose, Proteins and Lipids. Polyacrylamide gel electrophoresis (PAGE), Southern Blotting and Northern Blotting. PCR demonstration.

PSO31: 19ZOOP47: Aquaculture lab:

Practical knowledge in analysis of water Parameters and field exposure visits to aquaculture farms, finfish and shellfish hatcheries

PSO32: 19ZOOP48: Neurobiology and Animal Behaviour Lab

Understanding of animal behaviour – Animal Psychology – Classification of behavioural patterns, communication, ecological aspects, social behavior, reproductive behavior, biological rhythms –migration of fish, turtle and bird.

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DEPARTMENT OF M.Sc. M.SC. BOTANY

Programme Specific Outcomes (P.S.O)

PSO1:

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

PSO2:

Analyse the relationships among animals, plants and microbes.

PSO3:

Perform procedures as per laboratory standards in the areas of Biochemistry, Bioinformatics, Taxonomy, Economic Botany and Ecology