

PROGRAMME OUTCOMES OF B. Sc. I ZOOLOGY 2024-25

After completion of B.Sc. I Zoology program the student will be able to:

PO 1: The students will learn about the basic concepts of Zoology and a platform for the entry of students in post- graduation studies, competitive examinations, paramedical fields and agricultural business will be prepared.

PO 2: Students will understand the concepts in zoology and be able to understand, classify, describe, and discuss different aspects of zoology like animal Phyla, conservation of animals, animal physiology, etc.

PO 3: Students can apply their knowledge to solve problems related to genetics, and ecology and become competent to apply their knowledge of physiology, ethology, and entomology in their day-to-day life.

PO 4: The students acquire various practical skills and dissection skills.

PO 5: The students will be able to diagnose problems related to environmental issues, health and hygiene, agriculture and pest management, conservation of natural resources, etc., and try to solve them with scientific aptitude.

PO 6: The students will apply their knowledge of zoology for the development of entrepreneurship and also practice it in their day-to-day lives.

PROGRAMME SPECIFIC OUTCOMES OF B. Sc. I ZOOLOGY

PSO 1: The students will learn about animal diversity, cell biology, genetics, ecology, ethology, evolution, and entomology.

PSO 2: The students will understand various basic concepts and be able to describe them.

PSO 3: The students can apply their knowledge to classify, distribute, and organize the animals.

PSO 4: The students can solve the problems related to patterns of heredity, pedigree analysis, etc.

PSO 5: The students will acquire skills like sketching the diagrams, karyotype analysis, dissection, and other practical skills.

COURSE OBJECTIVES (COS): ZOO-101: ANIMAL DIVERSITY

The Course on animal diversity is aimed at making the student to:

CO 1: Understand the concept and importance of biodiversity.

CO 2: Enable the students to identify the similarities and differences among the animals in different Phyla and classes.

CO 3: Develop sensitivity for the conservation of biodiversity in their day-to-day life.

CO 4: Equip the students with the skills of dissection.

COURSE OBJECTIVES (COS): ZOO-102: CELL BIOLOGY

CO 1: Understand the general organization of cell organelles and their functions.

CO 2: Apply their knowledge to study the functioning of a cell and cell divisions and its regulation.

CO 3: Analyze the role of cell organelles and cell cycle checkpoints with examples of anemia, diabetic wounds, and cancer.

CO 4: Equip the students with skills like handling the microscope, micrometry, staining techniques, etc.

COURSE OBJECTIVES (COS): ZOO-201: GENETICS

CO 1: Understand heredity and variation.

CO 2: Apply their knowledge to draw the genetic crosses based on patterns of heredity.

CO 3: Culture the Drosophila and handling skills among the students.

CO 4: Enable the students to develop

- a. a gene map using data of crossing over and linkage study.
- b. draw, and analyze pedigree.
- c. analyze karyotypes.

COURSE OBJECTIVES (COS): ZOO-202: ECOLOGY, ETHOLOGY, EVOLUTION AND ENTOMOLOGY

CO 1: Understand the basic concepts.

CO 2: Enable the students to identify the amazing features of the insect world.

CO 3: Train students to arrange the animals on a geological time scale.

CO 4: Mold the student to apply their knowledge to construct food chains, food webs, and ecological pyramids.