

DEPARTMENT OF ZOOLOGY

Programme outcome

This branch of science enables a huge opportunity regarding the knowledge of:

1. The economic importance of invertebrates, vertebrates, diversity of different animals.
2. Micro preparation of cells, tissues and different organs of animals.
3. About the knowledge of different diseases, pathogens, prevention and control of different diseases.
4. Different physiological activity and comparative anatomy of animals.
5. Biochemical aspects, metabolic process, cellular activities of different animal cells.
6. Understanding the molecular biological process, embryological development, evolutionary process and defense mechanism of the body.
7. Applications of biotechnology in animal, human welfare and IPR, biosafety, biopiracy, bioterrorism and bioethics.
8. Study of medical science, paramedical science, bio-technology, human biology, and researches in all such fields.

Programme specific outcome

In this programme students know about:

1. Basics and importance of vertebrates and invertebrates.
2. Genetic mutation and variation of animals.
3. Knowledge on different types of animals with their and pathological and non-pathological activities.
4. The basics of cell and its components.
5. Development an understanding of evolutionary process of animal life and principles of genetics.
6. Demonstrate proficiency in the experimental techniques and methods of appropriate analysis of physiology, molecular biology, developmental biology and endocrinology.
7. Examine the internal anatomy of human systems and organs
8. To diagnose viral, bacterial, fungal and helminthes.
9. Understand core concepts of economic zoology and relate with environment, populations, communities, ecosystems and biostatistical applications.
10. Have conceptual understanding of laws of inheritance, genetic basis of loci and alleles and their linkage.
11. Examine the structure, function and replication of DNA.
12. Analysis of the structures and chemical properties of proteins, carbohydrates, lipids, DNA and RNA through various historic experiments.
13. To gain the knowledge of human biology and other animals.

14. Students will acquire communication, soft skill, social awareness and entrepreneurship skill.
15. It aims for work within the fields of research, public administration, governmental and non-governmental organizations, education and industry.

Semester-I

Core -1 (Diversity and Evolution of Non-Chordates)

Course Outcome

1. Provide knowledge about different kinds of invertebrates.
2. Provide knowledge about gradual complexity in the body organization.
3. Differentiation of unicellular and multicellular animals.
4. Structural peculiarities of different non-chordates.
5. Provide knowledge of significance of non-chordate organisms.

Core- 2 (Principles of Ecology and biostatistics)

Course Outcome

1. Ecosystem, food chain, food web, energy flow, ecological pyramids.
2. Basic concepts of population.
3. Provide knowledge about characters of community, diversity and species richness.
4. Support the students to enhance their knowledge about nutrient and biogeochemical cycles.
5. Provide knowledge for conservation of biodiversity.
6. It provides the basic knowledge of biostatistical calculation and application with analysis.

Semester-II

Core- 3 (Diversity and Evolution of Non-Chordates)

Course outcome

1. The students will study different types of non-chordates like Annelida, Arthropoda, Onychophora, Mollusca and Echinodermata.
2. They will study their classification along with ecology and life cycle.
3. Role of Onychophora in evolutionary significance.
4. It provides the types of coelom and metamerism in Annelida.
5. Give idea about the respiratory system of Mollusca and the special feature of Echinodermata.

