

Learning Outcome

After Completing B.Sc (Zoology) Programme student will be able to:

I st Semester

Communicate Scientific information.

- Student will be able to explain and apply the fundamental concepts of the Zoological Science including cell Biology and Genetics, apply the knowledge of internal structure of cell, its function in control of various metabolic function of organisms, interaction of insect vectors with humans and spread of diseases, managements and control of vector and vector borne diseases, organism Biology, understanding of basic concepts of genetics and law of inheritance, concept behind genetic disorder, gene mutations.

II nd Semester

- Student gain fundamental knowledge of animal physiology. Interaction and interdependence of physiological and biochemical processes. Students are taught the detailed concepts of digestion, respiration, excretion, the functioning of nerves and muscles, cardiovascular system, reproductive system and endocrine system.
- Allows the students to gain basic knowledge about various bio molecules and their role in metabolism, classification of enzymes, enzyme kinetics, metabolism of carbohydrates, nucleic acids and metabolic disorders, Gains understanding of cellular organization and functional biology nucleic acids

III rd Semester

- Knowledge of animal cells in culture, growth of cell lines. Imparts the knowledge of culture knowledge cell in artificial media, imparts in depth of tissues, cells and molecules evolved in host defense mechanism
- Understanding of process of Central dogma of life, transcription, translation and survival and propagation of life at molecular level.
- Understanding of how genes are ultimately expressed as proteins,
- Acquire the skills in handling scientific instruments, like microscope, pH meter, centrifuge, colorimeter. Etc. planning and performing in laboratory experiments.
- Students gain skills in techniques of chromatography, electrophoresis, spectroscopy.

IVth Semester

- Understanding of use in recombinant DNA Technology, genetic manipulations
- Understanding of types of immunity, the principles of genetic engineering how genes can be cloned in bacteria and the various technologies involved in it.

- Know the applications of biotechnology in various fields like agriculture, industry in and human health.
- To have an in depth understanding about Immune system & its mechanisms.
- Get introduced to DNA testing and utility of genetic engineering in forensic sciences.
- Get introduced to computers and use of bioinformatics tools.

Vth Semester

- Classify Non-Chordata from Phylum Protozoa to Echinodermata and to be able to understand the possible group of invertebrates observed in nature, recognize the living forms of invertebrates. The student will be able to understand, classify and identify the diversity of invertebrates phylum.
- Gain knowledge of small-scale industries like sericulture, fish farming, bee keeping, aquaculture, animal husbandry, poultry farms and other applied courses.

VI th Semester

- Gain the knowledge of Chordata from Phylum Protochordates to Mammalia.
- Relate the various abiotic factors with health of living forms and ecosystems. Role of various Biomolecules in living systems.
- Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species.
- To understand the origin and advancement of higher vertebrates (tetrapoda).
- To understand general characters of different groups of higher vertebrates.
- Explain structural and functional diversity of chordates.
- Explain evolutionary relationship amongst chordates.