

**B.Sc. Zoology**  
**( Course Outcome )**

**B.Sc. First Year**

**Paper I : Animal Diversity: Non Chordata**

**CO1:** Students should be able to learn about the importance of systemic, taxonomy and phylogeny to get a concrete idea of evolution of non chordate phyla.

**CO2:** Students should be able to understand the various morphological, anatomical structures and functions of animals of different phyla.

**CO3:** Students should be able to get the knowledge about economic, ecological and medical significance of various animals in human welfare.

**CO4:** Students should be able to understand the important parasites and their control measures.

**Paper II : Cell Biology, Reproductive Biology and Developmental Biology**

**CO1:** Students should be able to develop deeper understanding of what life is and how it functions at cellular level.

**CO2:** Students should be able to understand the nature and basic concepts of cell biology, reproductive and developmental biology.

**CO3:** Students should be able to understand structure and functions of cell membrane and cellular organelles.

**CO4:** Students should be able to understand the importance of latest reproductive trends, reproductive techniques to be applied for human welfare.

**CO5:** Students should be able to understand the general patterns and sequential developmental stages during embryogenesis and understand how the developmental processes lead to establishment of body plan of multicellular organisms.

**CO6:** Students should be able to understand about the evolutionary development of various animals.

**B.Sc. Second Year**

**Paper I : Diversity of Chordates and Comparative Anatomy**

**CO1:** Students should be able to understand chordate diversity of animals and their taxonomic position.

**CO2:** Students should be able to identify the morphological and anatomical features and basis of chordate classification.

**CO3:** Students should be able to know economic importance and present status that will develop positive attitude towards conservation of biodiversity.

**CO4:** Students should be able to differentiate the organisms belonging to different taxa by studying comparative anatomy.

**CO5:** The project, assignment will give them a flavour of research in studying biodiversity, taxonomy besides improving their writing skills and lay foundation of career in Zoology.

## **Paper II : Physiology and Biochemistry**

**CO1:** Students should be able to understand how organs function at different levels i.e from cellular to system levels.

**CO2:** Students should be able to examine internal harmony of different body systems by learning inherent disorders and deficiencies which is needed to maintain good health.

**CO3:** Students should be able to understand functions of biomolecules and their role in metabolism by studying biochemistry.

**CO4:** Students should be able to develop a strong foundation for research and employability skills.

**CO5:** Students should be able to improve the student's perspective of health biology through deep study of physiology.

### **B.Sc III Year**

#### **Paper I : Genetics**

**CO1:** Students should be able to understand basic concepts of genetics, laws of inheritance and central dogma of biology.

**CO2:** Students should be able to understand of genetic basis of evolution, human karyotyping and speciation.

**CO3:** Student should be able to explain Mendel's law, transcription and translation processes.

**CO4:** Students should be able to explain that genetic engineering involves the extraction of genes from one organism and placing them into another organism.

#### **Paper II : Ecology and Applied Zoology**

**CO1:** Student should be able to explain distribution of fauna in different zones interaction

**CO2:** Student should be able to understand Animal behaviour and response of animals to different instincts.

**CO3:** Students should be able to explain interaction of biota, abiota and various kinds of animal adaptations.

**CO4:** Students should be able to understand concepts of fisheries, fishing tools and site selection, Aqua culture systems, induced breeding techniques, post harvesting techniques .

**CO5:** Students gain imparts knowledge of beneficial and non-beneficial insects and how they interact with their environment, other species and humans