

## **Programme Name – Bachelor of Science in Zoology**

### **Programme Outcome**

The objective of this program is to prepare the students for the future when they come out of college and enter the main stream of society. The students should be prepared to lead a sustainable life in collaboration and complete harmony with nature. They should be able to be lifelong learners and apply the knowledge they have acquired in various circumstances of life they are put into. The learner will be able to understand his place in the ecosystem and will be able to choose a lifestyle which is environment friendly and sustainable.

The aim of zoology degree program is to provide platform to learn and understand the concepts regarding animal diversity and to appreciate the variety in relation to their morphology anatomy and behavior.

### **BSc Sem I**

#### **Paper Name- Animal Physiology and Biochemistry**

##### **Course Outcome**

- Students are able to understand the physiology at the cellular levels.
- Students are able to describe the physiology of digestion, respiration and circulation.
- Students are able to understand how mammalian body gets nutrition from different molecules.
- Students are able to understand how coordination and control between various organ systems is maintained in the body.

### **BSc Sem II**

#### **Paper Name-Genetics and cell biology**

##### **Course Outcome**

- Students will be able to describe the function composition of plasma membrane.
- Students will be able to understand the principles of Cell Theory

- Students will be able to differentiate between prokaryotes and eukaryotes
- Students will be able to understand the importance of nucleus and its components.
- Students will be able to understand the chromosomal behaviour during mitosis and meiosis
- Students will be able to comprehend the inheritance patterns affected by the position on chromosomes and how genetic information is passed on in prokaryotes and eukaryotes.

## **BSc II year**

### **Paper Name-Chordata**

#### Course Outcome

- Students will develop understanding about different categories of chordates.
- Students will develop understanding about the general characters and the level of organisation in chordates.
- Students will be able to understand the origin and evolutionary relationships in different sub Phylum of chordates
- Student should be able to describe unique characteristics of protochordates, fishes, amphibian, reptile, birds and mammals.

### **Paper Name- Animal Physiology and Biochemistry**

#### Course Outcome

- Students are able to understand the physiology at the cellular levels.
- Students are able to describe the physiology of digestion, respiration and circulation.
- Students are able to understand how mammalian body gets nutrition from different molecules.
- Students are able to understand how coordination and control between various organ system is maintained in the body.

### **Paper Name- Molecular biology, Biotechnology and Microbiology**

#### Course Outcome

- Students are able to understand the structure of DNA.

- Students are able to describe the Watson and Crick model of DNA.
- Students are able to understand how replication, transcription and translation occur in human body.
- Students are able to understand about recombinant DNA technology and genetic engineering.
- Students will develop a general idea about bacteria, viruses and diseases caused by them.

## **BSc III year**

### **Paper Name-Endocrinology and Applied Zoology**

#### Course Outcome

- Students will develop understanding about different types of endocrine glands in the body.
- Students will develop understanding about the mechanism of hormone action.
- Students will be able to understand the disorders caused by under secretion and over secretion of various glands in the body.
- Student should be able to understand the practices of sericulture and lac culture.
- Student should be able to understand the importance and losses caused by various kinds of pests.

### **Paper Name- Ecology, Conservation biology and Animal behavior.**

#### Course Outcome

- Student should be able to describe the interaction between organisms and environment.
- Student should be able to understand the exchange of nutrient within the ecosystem.
- Student should be able to describe the population and population dynamics.
- Students are able to describe the relationship between abiotic and biotic factors.
- Students are able to describe various biological interactions taking place in environment.

- Students are able to understand how changes in population affect the ecosystem.

**Paper Name- Developmental biology and Toxicology.**

Course Outcome

- Student should be able to describe the process of gametogenesis in mammals.
- Student should be able to understand the development of frog and humans.
- Student should be able to describe the process of implantation and placentation.
- Students are able to describe the history and scope of toxicology.
- Students are able to describe various types of toxins.
- Students are able to understand about different types of pollutions and remedial measures.

**Name of faculty-  
Dr Shailja Rawat.  
Asst Prof Zoology**