

# PROGRAM OUTCOME

Department of Zoology



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## **Program Learning Outcomes:**

The course focusses -

- Developing knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms.
- To study and learn interactions among the various animals of different phyla, their distribution, characteristics and their relationship with the environment.
- Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
- Correlates the physiological processes of animals and relationship of organ systems.
- Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species.
- Gain knowledge of small-scale industries like sericulture, fish farming, bee keeping, aquaculture, animal husbandry, poultry farm.
- Understands the various concepts related to Ecosystem and Ecology and its importance.
- Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties.
- Apply the knowledge and understanding of Zoology to one's own life and work and develops empathy and love towards the animals.

### **Course Outcomes:**

#### **Animal Diversity – Invertebrates & Vertebrates**

- Students to know about the various orders, classes and phylum of Animal taxa through study of characters and classification.
- Knowledge of special characters of different phylum will be gained.
- Students to develop conceptual knowledge of vertebrates, their adaptations and associations in relation to their environment.
- Various species that act as probable vectors for specific diseases to human and livestock are discussed.
- Complex Vertebrate interactions were taught.

#### **Comparative Anatomy and of Vertebrates:**

- Students will gain comparative knowledge of Integumentary, Digestive, Circulatory, Urinogenital, Nervous and Skeletal system of various classes of vertebrates.

**Physiology and Biochemistry:**

- Students to gain fundamental knowledge of animal physiology
- They Seek to understand the mechanisms that work to keep the animal body alive and functioning.
- Interactions and interdependence of physiological and biochemical processes.
- Detailed concepts of digestion, respiration, excretion, the functioning of nerves and muscles, cardiovascular system, endocrine system and reproductive system are taught to students.
- Students learn the concepts of endocrine systems and homeostasis and structure and function of different glands.
- Students to get concepts of enzyme and its action.

**Apiculture:**

- Knowledge about various types of honey bees and artificial bee rearing process.
- Knowing beehives, bee keeping equipment and modern methods of extraction of honey.
- Kinds of bee enemies and diseases.
- Bee economy and entrepreneurship in apiculture and products of bee keeping.

**Sericulture:**

- Students to know about different types of Non-mulberry Sericulture and the process of silk worm rearing.
- Different food plants of Silk worms.
- Pests and diseases associated with silk worm industry.
- Various process involved in silk production.
- Various products of Sericulture industry.

**Ornamental Fish and Fisheries:**

- Students to know and identify about different types of Ornamental fishes and natural aquatic vegetation which can be used in aquarium.
- They also have an insight to different parameters required for successful maintenance of an aquarium.