

## **DEPARTMENT OF ZOOLOGY**

### **PROGRAM OUTCOME AND COURSE OUTCOMES**

#### **PROGRAM OUTCOME**

1. Zoology has various scopes in different areas of life. Student gain the knowledge on skill in fundamental of animal science and understand the complex interaction among various living organism.
2. Zoology students are employed as expert of biomass and biogas technology in field of agriculture.
3. Pollution, which is a burning problem of now-a- days, zoology students may help in this regard to maintain equilibrium using ecological knowledge.
4. The students of zoology in the fishery department act as extension officer, caretaker, induced breeder management marketing etc.
5. In case of self employment apiculture, sericulture, fisheries, dairy farming, pest control management is the important area covered by zoology.
6. The zoology student may be treated as key person in pathological lab and in forensic lab.
7. Beside this the student of zoology may be engaged in dept. of ZSI, archeology museum curator wild life management documentation and photographer and food processing etc.

#### **Course Outcomes:**

**CO1: ANIMAL DIVERSITY (LOWER NONCHORDATA):** Students gain knowledge and skill in the fundamentals of lower nonchordate and understands their importance.

**CO2: PERSPECTIVE IN ECOLOGY:** Analyze complex interactions among the various animals, their distribution and their relationship with the environment.

**CO3: ANIMAL DIVERSITY (HIGHER NONCHORDATES):** Students gain knowledge and skill in the general characters, classification, lifecycle and significance of higher nonchordates and understands their importance.

**CO4: PHYSIOLOGY: LIFE SUSTAINING SYSTEM:** Understands the physiological processes of animals and relationship of organ systems

**CO5: DIVERSITY AND DISTRIBUTION OF CHORDATA:** Students gain knowledge and skill about the classification, diversity and distribution of chordate animals and understands the complex interactions among them.

**CO6: PHYSIOLOGY: CONTROLLING AND COORDINATION SYSTEM:** Students gain the knowledge about the various physiological processes especially endocrine system and nervous system of animal and how they are interlinked.

**CO7: COMPARATIVE ANATOMY OF VERTEBRATES:** Students gain knowledge about structural differences of different organs of different groups of vertebrates.



**CO8: BIOCHEMISTRY:** Students gain knowledge about structure and function of bio-molecules and their importance.

**CO9: CELL BIOLOGY:** Understand the nature and basic concepts about structure and function of different kind of cells and cell organelles.

**CO10: PRINCIPLES OF GENETICS:** Understands about various concepts of genetics and its importance in human health.

**CO11: DEVELOPMENTAL BIOLOGY:** Understand the basics of how animal develops and its importance and implication.

**CO12: MOLECULAR BIOLOGY AND BIOTECHNOLOGY:** Understands the structure and functions of nucleic acids and basic concepts of genetic engineering and its application in life.

**CO13: IMMUNOLOGY:** Provides basics knowledge about immune system and allows the student to create insight as how to improve their immune system and good health.

**CO14: EVOLUTIONARY BIOLOGY AND BIOSTATISTICS:** Understands the complex evolutionary processes and evolution of species. They also gain knowledge about analysis and interpretation of various biological data.

**GE 1: ANIMAL DIVERSITY (NON CHORDATA), PHYSIOLOGY AND ENDOCRINOLOGY:** Students gain knowledge and skill in the fundamentals of nonchordates and understands their importance. Students gain the knowledge about the various physiological processes.

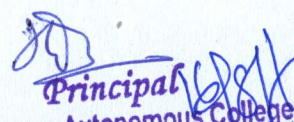
**GE 3: ANIMAL DIVERSITY (CHORDATA), DEVELOPMENTAL BIOLOGY AND IMMUNOLOGY:** Students gain knowledge about chordates. Understand the basics of how animal develops. Know basics knowledge about immune system.

**DSE 1: ANIMAL BEHAVIOUR:** Understands how animal behaves and response of animals to different conditions.

**DSE 2: ECONOMIC ZOOLOGY:** Understands the methods of apiculture, sericulture, aquaculture and dairy and poultry farming.

**DSE 3: MICROBIOLOGY:** Students know about microbes like bacteria, virus, and other pathogens and how they interact with human. Students also gain knowledge about vaccine and antibiotics.

**DSE 4: PROJECT:** Student gains knowledge about how to make research proposal, Construct tool of data collection, learn fieldwork modalities, understands the process of data analysis and writing research projects.

  
**Principal**  
Kendrapara Autonomous College