

DEPARTMENT OF ZOOLOGY
PROGRAM OUTCOME AND COURSE OUTCOMES
2020-21

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:

1. **CO1: ANIMAL DIVERSITY (LOWER NONCHORDATA):** Students gain knowledge and skill in the fundamentals of lowers nonchordate and understands their importance.
2. **CO2: PRINCIPLES OF ECOLOGY:** Analyze complex interactions among the various animals, their distribution and their relationship with the environment.
3. **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.
4. **CO4: CELL BIOLOGY:** Understand the nature and basic concepts about structure and function of different kind of cells and cell organelles.
5. **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.
6. **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.
7. **CO7: FUNDAMENTALS OF BIOCHEMISTRY:** Students gain knowledge about structure and function of bio-molecules and their importance.
8. **CO8: COMPARATIVE ANATOMY OF VERTEBRATES:** Students gain knowledge about structural differences of different organs of different groups of vertebrates.
9. **CO9: PHYSIOLOGY: LIFE SUSTAINING SYSTEMS:** Understands the physiological processes of animals and relationship of organ systems

10. **CO10: BIOCHEMISTRY OF METABOLIC PROCESSES:** Understands about various concepts of metabolic pathways in human health.
11. **CO11: MOLECULAR BIOLOGY :** Understands the structure and functions of nucleic acids.
12. **CO12: GENETICS:** Understands about various concepts of genetics and its importance in human health.
13. **CO 13 DEVELOPMENTAL BIOLOGY:** Understand the basics of how animal develops and its importance and implication.
14. **CO14: EVOLUTIONARY BIOLOGY :** Understands the complex evolutionary processes and evolution of species.
15. **DSE 1 ANIMAL BIOTECHNOLOGY:** Basic concepts of genetic engineering and its application in life
16. **DSE 2: IMMUNOLOGY:** Provides basics knowledge about immune system and allows the student to create insight as how to improve their immune system and good health.
17. **DSE 3 WILDLIFE CONSERVATION AND MANAGEMENT:** To identify and manage mammalian fauna, avian fauna, herpeto-fauna India and Odisha.
18. **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.
19. **GE 1: ANIMAL DIVERSITY (NON CHORDATA AND CHORDATA):** Students gain knowledge and skill in the fundamentals of nonchordates and understands their importance. Students gain knowledge about chordates. Understand the basics of how animal develops.
20. **GE 3: PHYSIOLOGY AND ENDOCRINOLOGY:** Students gain the knowledge about the various physiological processes.