

WAIKHOM MANI GIRLS' COLLEGE, THOUBAL OKRAM

DEPARTMENT OF ZOOLOGY

Course Outcome of BSc. Zoology

- CO 1.** Describe general taxonomic scales on animal classification.
- CO 2.** Learn the concepts and approaches of taxonomy.
- CO 3.** Distribution of animals in different realm interactions.
- CO 4.** Tracing the fossils to understand the development of animals and the significance of fossils.
- CO 5.** Identify protozoa and porifera by examining their characters and classifications.
- CO 6.** Understand the origin of Metazoa.
- CO 7.** Learn about the distinguishing characters and classification of Nematelminthes.
- CO 8.** Knowledge of structural organisation in Coelenterata and Platyhelminthes.
- CO 9.** Describe the life cycles of *Taenia solium*, *Fasciola hepatica* and *Ascaris lumbricoides*.
- CO 10.** Explain the structural organisation in Annelida, Echinodermata and Arthropoda .
- CO 11.** Describe the distinguishing characters and classification in Annelida.
- CO 12.** Able to state the general characters, structural organisation and classification of chordate.
- CO 13.** Study the external features, respiratory systems of petromyzon and scoliodon.
- CO 14.** Examine the respiratory organs of fishes and general characters of lung fishes.
- CO 15.** Comparing the distinguish characters and classification of Amphibia and Reptilia.
- CO 16.** Tracing the origin, general characters and classification of Aves and Mammals.
- CO 17.** Comparing the Integumentary system, digestive system, circulatory system, skeletal system, nervous system, urogenital system and endocrine glands.
- CO 17.** Explain the concept of biodiversity and wildlife.
- CO 18.** Differentiate types of ecosystem and environmental pollution.

- CO 19.** Applied knowledge of Apiculture, Sericulture and Fisheries.
- CO 20.** Computer applications in biological sciences.
- CO 21.** Assessing evidences of evolution and various theories of evolution.
- CO 22.** Understand the concepts of adaptation of animals.
- CO 23.** Analysing the different types of animal behaviour.
- CO 24.** Application of biotechnology.
- CO 25.** Knowing the structural and functional aspects of cells.
- CO 26.** Identify and describe the cell organelles.
- CO 27.** Detailed study of the nucleus.
- CO 28.** Understand the cell regulatory mechanisms.
- CO 29.** Differentiate the different types of inheritance, gene interactions and mutation.
- CO 30.** Developed skill and application of RFLP, RAPD, AFLP and PCR
- CO 31.** Discuss different structure and types of Ig, brief idea of HIV and AIDS.
- CO 32.** Examine the process of gametogenesis, fertilization and parthenogenesis.
- CO 33.** Developmental stages of eggs.
- CO 34.** Tracing the development of organs and types of metamorphosis.
- CO 35.** Understand the basic concept of histological techniques and microscopics anatomy of various organs.
- CO 36.** Explain the mechanisms of metabolism and chemistry of nutrients.
- CO 37.** Analyse the functions and secretions of neurosecretory cells, hormones of endocrine glands.
- CO 38.** Describe the functions of muscles, nerve ans sense organs.
- CO 39.** Discuss the mechanisms of excretions.
- CO 40.** State the mechanisms of respiration, heart beat, blood and circulation.
- CO 41.** Introducing the nutrient requirement. Explain digestive and absorption.

PROGRAM OUTCOME OF BSC ZOOLOGY

- PO 1.** Students gained knowledge of Zoology, it broadens their outlook towards importance of study of animals at undergraduate levels.
- PO 2.** It provides students a launch pad to enroll themselves in post graduate study in zoology.
- PO 3.** It helps in applying the knowlege and understanding of Zoology in life and work.
- PO 4.** Understanding of environmental issues and conservative processes.
- PO 5.** Practical work make the students skillful which could be applied to solving common daily problems.
- PO 6.** Project works, field survey and short trips develop their talents and sharpen their brain.
- PO 7.** Develop empathy towards animals and care them bett

PROGRAM SPECIFIC OUTCOME OF BSC ZOOLOGY

- PSO 1.** Students acquires knowledge and understand the basic concepts of Animal physiology, Endocrinology, Developmental biology, Cell biology, Genetics, Evolution, Biotechnology, Environmental biology, Computer application, Applied zoology, Zoogeography and Anatomy.
- PSO 2.** Ability to apply knowledge of biological sciences in Apiculture, Sericulture and Fisheries.
- PSO 3.** Understanding the relationships between animals, plants and microbes.
- PSO 4.** Acquiring more skill in conserving biodiversity in everyday life.
- PSO 5.** Developing first hand knowledge by performing practicals.