

Course Code	Course Name	Credits
26ZY152	CHORDATE ZOOLOGY LAB	02

Objective

To provide practical knowledge on the identification, classification, morphology, anatomy and adaptive features of major groups of invertebrate animals.

Practicals

1. Study and identification of protochordates with suitable examples.
2. Identification and classification of cyclostomes and fishes.
3. Study of scales, fins and types of caudal fins in fishes.
4. Dissection of fish – digestive and respiratory systems.
5. Identification and classification of amphibians with adaptive features.
6. Study of venous and arterial systems of frog through charts/models.
7. Dissection of frog – digestive and urinogenital systems.
8. Identification and classification of reptiles with venomous and non-venomous snakes.
9. Study of feathers and beaks adapted for different modes of life in birds.
10. Identification and classification of common birds and mammals.
11. Study of mammalian skulls and dentition.
12. Observation of adaptive modifications in aquatic, aerial and arboreal mammals.
13. Study of preserved specimens, charts and museum collections of chordates.
14. Comparative study of vertebrate heart and brain models.
15. Osteology – study of vertebrae and appendicular skeleton of vertebrates.
16. Identification of larval forms and developmental stages of chordates.
17. Study of accessory respiratory organs in fishes.
18. Comparative study of circulatory systems in vertebrates.
19. Observation of migration and adaptation in birds through charts and specimens.
20. Field observation and documentation of local vertebrate fauna.

Students are required to perform and record at least eight experiments in the laboratory manual as part of the course requirements.