

Course Code	Course Name	Credits
26ZY151	INVERTEBRATE 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 protozoans with suitable examples.
2. Mounting and observation of sponge spicules and gemmules.
3. Study of canal systems in sponges through permanent slides/models.
4. Identification and classification of coelenterates and their polymorphism.
5. Observation of corals and reef-forming organisms.
6. Study of life cycle stages of helminth parasites.
7. Identification of annelids and study of parapodia, setae and nephridia.
8. Dissection of earthworm – digestive and reproductive systems.
9. Identification and classification of arthropods of economic importance.
10. Study of mouthparts and appendages of insects and crustaceans.
11. Observation of larval forms in crustaceans and echinoderms.
12. Study of molluscan shells and torsion in gastropods.
13. Dissection of freshwater mussel/Pila – internal anatomy.
14. Study of echinoderms and water vascular system through models/specimens.
15. Museum specimen collection, identification and record submission.
16. Preparation and staining of temporary slides of protozoans from pond water.
17. Comparative study of locomotory organs in Amoeba, Euglena and Paramecium.
18. Study of regeneration in Hydra and Planaria through charts/models.
19. Identification of poisonous and beneficial arthropods with economic importance.
20. Field visit to a freshwater/marine habitat for collection and observation of invertebrate fauna.

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