PRACTICAL -1

LIFE AND DIVERSITY OF INVERTEBRATES AND CHORDATES

Semester	Subject Code	Category	Practical		Theory	Practical	Credits
			Hrs/ week	Total Hours/ Semester			
II	21CPZO21	Core Practical-I	4	60	Nil	60	4

COURSE OBJECTIVES:

- To identify and study of selected Protozoans
- To understand the evolution /different types of coelom.
- To dissect and mount the digestive system of insects
- To Study of the specimens and their adaptive features for their respective modes of life
- To Study of the skull types with reference to jaw suspensions

INVERTEBRATA **30 Hours**

Identification and study of selected Protozoans (Entamoeba histolytica, Plasmodium vivax) and Helminthes (Taenia solium)

Different Types of Coelom

Identification and study of sections of available animals from Cnidaria (Hydra), Aschelminthes (Ascaris lumbricoides- Male and Female) and Annelida (Nereis) Identification and study of larval forms (Crustaceans and Echinoderms) of major phyla of Invertebrates.

Major Practical-Dissection

Dissection of digestive system of insect (Cockroach), Sepia.

Dissection of nervous system of Prawn, insect (Cockroach), and Sepia.

Dissection of reproductive system of insect (Cockroach)

Minor Practical -Mounting

Mouth parts of Honey bee, Housefly, Mosquito

Appendages or Prawn

Sting apparatus of Honeybee

Radula of Phyla

Study of prepared slides - mouthparts of bug and Butterfly to relate their structure and function.

CHORDATA **30 Hours**

To study of the following specimen to bring out their affinities:

a. Amphioxus

b. Balanoglossus

c. Ascidian

To study of the following specimens with reference to their adaptive features for their respective modes of life

d. Echeneis

e. Ichthyophis / Uraeotyphlus

f. Hyla

g. Draco

h. Pigeon

i. Bat

To study of the following skull types with reference to jaw suspensions

j. Fish

k. Frog

l. Calotes

m. Snake

n. Rat/Rabbit

Dissection and mounting

Webberian ossicles in Cat fish.

Aortic arches in Teleost

IX and X Cranial nerves of Cat fish.