

ZOE123T- Animal diversity and type study (non-chordates)

Semester: II	Course Title:- Animal diversity and type study (non-chordates)	Credit: 2
Course No.: 123T	Minor-2(T)	Hours: 2/week

Course Outcomes: On successful completion of the course, the learner will be able to

COs	Cognitive Abilities	Course Outcomes
CO 1	Remembering	Recall classification and characteristics of invertebrate phyla with examples and justifications.
CO 2	Understanding	Describe features of Porifera, Coelenterata, and other non-chordates, linking them to their ecological roles.
CO 3	Applying	Explain the biology, structure, and functions of Hydra vulgaris.
CO 4	Analyzing	Identify and classify non-chordate specimens using practical and taxonomic knowledge.
CO 5	Evaluating	Evaluate case studies like Hydrozoa polymorphism and coral reefs, applying findings to conservation.
CO 6	Creating	Design innovative strategies, such as models for coral reef restoration or Hydra regeneration studies.

CO-PO Mapping:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
CO 1	3	1		1			1	1	
CO 2	3	1	1	1	1	1		2	1
CO 3	3	1	1	2	1	2		2	1
CO 4	2	2	2		1	2	2		
CO 5	1	2	2	3	2	1	1		1
CO 6	1	3	2				2	2	2

Unit No.	Unit Contents	Sessions Allotted
1	Animal diversity (Non-chordates) – Systematics: <ul style="list-style-type: none"> General characters, salient features and classification of Invertebrates, starting from kingdom up to class, giving reasons & suitable examples (as per practical syllabus): <ul style="list-style-type: none"> Porifera Coelenterata Platyhelminthes 	15

	<ul style="list-style-type: none">▪ Aschelminthes	
2	<p>Animal diversity (Non-chordates):</p> <p>General topics:</p> <ul style="list-style-type: none">· Spicules in porifera· Polymorphism in Coelenterata (Hydrozoa)· Types of coral reefs <p>Type study: Hydra (<i>Hydra vulgaris</i>):</p> <ul style="list-style-type: none">· Systematic position· Habits and habitat· External Morphology· Internal structure (Coelenteron, Body wall)· Locomotion· Nutrition· Respiration· Nervous system· Reproduction (Asexual & Sexual) and Regeneration	15