

**ORIENTAL COLLEGE (AUTONOMOUS), TAKYEL, IMPHAL
TEACHING PLAN**

(B.A/B.Sc.)

Name of Department: Zoology

Semester – 3rd Semester 2023-24

Paper Name: Animal Diversity Paper Code: ZOO HG-601

No. of Hours per Week	Credits	Total No. of Hours	Marks
4	4	60	75

Learning Objectives:

- To impart knowledge about co-existence of different forms of living organisms ranging from unicellular to multicellular animals with biodiversity. To understand the terminology needed in classification, the possible group of the invertebrate observed in nature and our role as a caretaker and promoter of life.

Learning outcomes:

- The student will be able to understand classify and identify the diversity of animals.
- The student understands the importance of classification of animals and classifies them effectively using the six levels of classification.
- The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life.

Unit	Section	Topic Lecture	Hours	Learning outcome	Pedagogy	Assessment / Evaluation
I	Protista, Porifera, Radiata					
	1	General characters of Protozoa; Life cycle of Plasmodium	4	Recall characters of Protozoa. Learnt about life cycle of parasite	Lecture, PPT, Diagram	Objective type question, short answer, Assignment, Classroom interaction.
	2	General characters and canal system in Porifera;	4	Recall characters of porifera canal system types are studied.		
	3	General characters of Cnidarians and polymorphism	4	Knowledge about characters of cnidarians. Studied different types of polymorphism		
II	Aceolomates, Pseudocoelomates, Coelomate Protostomes					
	1	General characters of Platyhelminthes; Life cycle of Taenia solium; General characters of Nemathehelminthes; Parasitic adaptations	8	Recall characters of Platyhelminthes. Studied parasite adaptation of Nemathehelminthes	PPT, Lecture, Diagram	MCQ, Assignment, Quiz, Discussion
	2	General characters of Annelida ; Metamerism	4	Get acquainted with characters of Annelida and segmentation body.		
3	Arthropoda, Mollusca, Coelomate Deuterostomes					
	1	General characters. Social life in insects; General characters of mollusca; Pearl Formation	7	Recall characters of Arthropoda and Mollusca. Learnt division of labour among insect and pearl formation in bivalves.	Lecture, PPT, Diagram	Short answer, Classroom interaction
	2	General characters of Echinodermata, Water Vascular system in Starfish	5	Get acquainted with characters of Echinodermata and water vascular system		
4	Protochordata, Pisces.					
	1	Salient features of	8	Recall characters	PPT,	Assignment

		Protochordata; Osmoregulation in fishes, Migration of Fishes		of Protochordata. Learnt Osmoregulation and Migration of Fishes	Lecture	t
5	Amphibia, Amniotes, Aves, Mammalia					
	1	Amphibia : General characters, Adaptations for terrestrial life, Parental care in Amphibia	4	Recall characters of Amphibia. Get acquainted with their various methods of carrying young ones.	Lecture, PPT, Diagram	MCQ, Short answer, Assignment, Classroom interaction
	2	Reptiles and birds Origin of reptiles. Terrestrial adaptations in reptiles: The origin of birds, Flight adaptations.	4	Recall the characters of Reptiles and birds went through their evolutionary history		
	3	Mammalia : Early evolution of mammals; Primates; Dentition in mammals.	4	Went through evolution of mammals. Learnt about the different types of dentition.		

SUGGESTED BOOKS

- Barnes, R.D. (1992). Invertebrate Zoology. Saunders College Pub. USA.
- Ruppert, Fox and Barnes (2006) Invertebrate Zoology. A functional Evolutionary Approach 7th Edition, Thomson Books/Cole
- Campbell & Reece (2005). Biology, Pearson Education, (Singapore) Pvt. Ltd.
- Kardong, K. V. (2002). Vertebrates Comparative Anatomy. Function and Evolution. Tata McGraw Hill Publishing Company. New Delhi.
- Raven, P. H. and Johnson, G. B. (2004). Biology, 6th edition, Tata McGraw Hill Publications. New Delhi.

Name of teachers :

- 1) Prof. R. K. Rajeshwari Devi
- 2) K. Uma Devi
- 3) Dr. L. Chitra Devi
- 4) Dr. H. Binota Devi