#### **SUBJECT-ZOOLOGY**

## MDC 1: ANIMAL DIVERSITY

# **Course Objectives:**

## Theory:

- 1. To form a general understanding of the diversity of the Animal Kingdom through the study of general characters of each Phylum/Class.
- 2. To form an understanding of the body plan, structural adaptations, life history, physiological processes, behaviour and evolutionary relationships in different animals through the study of special topics included in each Phylum/Class.

# MDC 1: ANIMAL DIVERSITY

# DIFFICULTY LEVEL: 100 MODE OF INSTRUCTION: Lecture & Tutorial

# THEORY (CREDITS 3)

# **Group A: Non-Chordates**

Unit 1. Protista	4
General characters of Protozoa; Life cycle of Plasmodium vivax.	
Unit 2. Porifera	3
General characters of Porifera; Canal System in Sycon.	
Unit 3. Cnidaria	3
General characters of Cnidaria; Polymorphism in Hydrozoa.	
Unit 4. Platyhelminthes	3
General characters of Platyhelminthes; Life cycle of Taenia solium.	
Unit 5. Nematoda	3
General characters of Nematoda; Parasitic adaptations.	
Unit 6. Annelida	3
General characters of Annelida; Metamerism in Annelida.	
Unit 7. Arthropoda	4
General characters of Arthropoda; Social life in insects.	
Unit 8. Mollusca	3
General characters of Mollusca; Respiration in Pila globosa.	
Unit 9. Echinodermata	3
General characters of Echinodermata, Water Vascular system in star fish.	
Group B: Chordates:	
Unit 1. Protochordata	2
Salient features of Protochordata with examples.	
Unit 2. Agnatha	
General features of Agnatha with examples.	
Unit 3. Pisces	4
General characters of Pisces, Migration in fishes.	
Unit 4. Amphibia	4
General characters of Amphibia; Parental care in Amphibia.	

Unit 5. Reptilia	5
General characters of Reptilia; Dos and don'ts after snake bite.	
Unit 6. Aves:	5
General characters of Aves; Flight adaptations in birds.	
Unit 7. Mammalia	6
General characters of Mammalia; Dentition in mammals.	

## **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.