

**INTER DISCIPLINARY COURSE
(IDC)
DEPARTMENT OF ZOOLOGY
BHATTADEV UNIVERSITY, BAJALI**

**INTER-DISCIPLINARY COURSE (IDC) DEPARTMENT OF
ZOOLOGY
BHATTADEV UNIVERSITY, BAJALI**

Course Name: FUNDAMENTALS OF ANIMAL DIVERSITY

1st Semester

Paper Code: ZOO1103ID

Credit: 3

Total lectures: 45

Learning objectives

- To understand the animal kingdom.
- To understand the taxonomic position of non-chordates to chordates.
- To understand the general characteristics of animals belonging to Protista to mammals.
- To understand the body organization of animals belonging to Protista to mammals.
- To understand about human health, various diseases and their causative agents.

Learning outcomes

- Students should be able to describe unique characters of animals belonging to protozoa to mammals.
- Students should be able to recognize the life functions of different animal groups.
- Students should be able to recognise the diversity from Protista to Vertebrata.
- Students should be able to understand about human health and recognise the various diseases harmful to human beings.

SECTION-1: Taxonomy and Nomenclature 6L

Five Kingdom Classification, Rules ICZN, Collection and preservation specimen.

SECTION-2: Basic Concepts of Non chordate 13L

General Characters of Kingdom Protista.

General Characters of Phylum Porifera, Cnidaria, Platyhelminthes, Nematelminths, Annelida, Arthropoda, Mollusca and Echinodermata.

SECTION-3: Basic Concepts of Chordate 13L

General Characteristics of Protochordate and Chordates.

General Characters of Class Cyclostomes, Pisces, Amphibia, Reptilia, Aves and Mammals.

SECTION-4: Human health and diseases 13L

Types of Diseases, Dengue, Rabies, Pneumonia, Ascariasis, STDs, Cancer, Hepatitis,

SUGGESTIVE READINGS:

- Barrington, E.J.W. (1979). *Invertebrate Structure and Functions*. II Edition, E.L.B.S. and Nelson
- KOTPAL *Invertebrate Zoology*

- Ruppert and Barnes, R.D. (2006). *Invertebrate Zoology*, VIII Edition. Holt Saunders International Edition
- Barnes, R.S.K., Calow, P., Olive, P.J.W., Golding, D.W. and Spicer, J.I. (2002).
- *The Invertebrates: A New Synthesis*, III Edition, Blackwell Science
- Young, J.Z. (2004). *The Life of Vertebrates*. III Edition. Oxford university press.
- Pough H. *Vertebrate life*, VIII Edition, Pearson International.
- Darlington P.J. *The Geographical Distribution of Animals*, R.E. Krieger Pub Co. Hall B.K. and Hallgrimsson B. (2008). *Strickberger's Evolution*. IV Edition. Jones and Bartlett Publishers Inc
- Human health and disease by CDC
