

KOLHAN UNIVERSITY, CHAIBASA



Syllabus for FYUGP, NEP-2020 B.Sc. (Hons.) Zoology (Effective from Academic Year 2022-23 onwards)

Draft Prepared by:

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Introductory Regular Course (IRC)
Animal Diversity

Theory (Credits 3):

UNIT I: Protista, Porifera & Cnidaria **8**
hrs
General Characteristics and Classification upto classes; Locomotory Organelles in Protozoa; Canal System in Porifera.

UNIT II: Platyhelminthes, & Nematelminthes **4**
hrs
General Characteristics and Classification upto classes.

UNIT III: Annelida, Arthropoda, Mollusca & Echinodermata **14**
hrs
General Characteristics and Classification upto classes; Vision in Arthropoda; Torsion and Detorsion in Gastropoda.

UNIT IV: Protochordata & Agnatha **5**
hrs
General Characteristics and Classification upto classes; Retrogressive Metamorphosis in Urochordata.

UNIT V: Pisces, Amphibia & Reptilia **8**
hrs
General Characteristics and Classification upto classes; Migration in fishes.

UNIT VI: Aves & Mammals **6**
hrs
General Characteristics and Classification upto classes; Flight adaptations in birds.

Recommended Readings:

- Barnes, R.D. (2006) *Invertebrate Zoology*. VII Edition, Cengage Learning, India.

- 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.
- Barrington, E.J.W. (2012) *Invertebrate Structure and Functions*. II Edition, EWP Publishers
- Ruppert, E.E., Fox, R.S., Barnes, R. D. (2003) *Invertebrate Zoology: A Functional Evolutionary Approach*. VII Edition, Cengage Learning, India
- Pechenik, J. A. (2015) *Biology of the Invertebrates*. VII Edition, McGraw-Hill Education
- Pough H. *Vertebrate Life*, VIII Edition, Pearson International

