

Department of Zoology
Discipline Specific Minor Course
(Semester-II)

Year	Semester	Course Type	Course Code	Course Title	Theory/ Practical	Credits	No. of Lectures/ Practical to be conducted	Page No.
1 st	II	DSC (Minor)	ZO-MN-126T	Animal Systematics	Theory	2	30L	2-3

DISCIPLINE SPECIFIC MINOR COURSE (ZO-MN-126T): Animal Systematics

Course Code & Title	Credits	Credit Distribution of the Course	
		Lecture	Practical
ZO-MN-126T - Animal Systematics	2	2	--

LEARNING OBJECTIVES:

The Learning Objectives of this course are as follows:

- To understand the Animal diversity around us.
- To know the principles of classification of animals.
- Aware about terminology needed in classification.
- To classify invertebrates and to be able to understand the possible group of the Invertebrate observed in nature. to understand our role as a caretaker and promoter of life.

COURSE OUTCOMES:

After completion of this course student will be able to-

- CO1-**Define terms related to animal systematics and outline the system of classification.
- CO2-**Outline the general characters of chordates and illustrate their salient features.
- CO3-**Demonstrate the culturing method of paramecium and explain its morphology.
- CO4-**Explain modes of migration in fishes, birds and parental care in Amphibians.
- CO5-**Classify the invertebrates on the basis of comparative morphology of animals and justify the reasons.

SYLLABUS of ZO-MN-126T:

[30 Hours]

Unit-I: Principles of classification:

[06 Hours]

Origin, development and Definition of systematics, Linnaean hierarchy, Binomial nomenclature, Six kingdom classification system.

Unit-II: Outline of classification with salient features of the following phyla: [11 Hours]

(up to class with one example)

Phylum Protozoa, Porifera, Coelenterata (Cnidaria), Platyhelminthes, Aschelminthes Annelida, Arthropoda and Echinodermata.

Unit-III: General topics:

[08 Hours]

Study of Paramecium (External characters and culture)

General characters of Chordates and classification of chordates up to class with one example.

Unit-IV: General Topics:**[05 Hours]**

Migration in fishes (Anadromous and Catadromous) and Migration in Birds. Parental care in Amphibians.

ESSENTIAL/RECOMMENDED READINGS:

- 1) Life of Vertebrates by Young, JZ., III Edition, Clarendon Press, London.
- 2) General Zoology by Goodnight and others IBH Publishing Co.
- 3) Invertebrate zoology By Jordan EL., and Verma PS., S.Chand and Co., New Delhi.
- 4) Textbook of Invertebrate Zoology, By Kotpal, RL., Rastogi and Co. Meerut.
- 5) Phylum Protozoa By Kotpal, RL., Rastogi and Co. Meerut.
- 6) Phylum Porifera By Kotpal, RL., Rastogi and Co. Meerut.
- 7) Phylum Coelenterates By Kotpal, RL., Rastogi and Co. Meerut.
- 8) Phylum Helminthes By Kotpal, RL., Rastogi and Co. Meerut.

