

LESSON PLAN (August 2025 – November 2025)

Name of Assistant Professor: Naveen Kumar Saxena

Class: B.Sc.1st Year Semester :-1st

Subject: Zoology

Paper : SEC (Skill Enhancement Course)

Week 1	Unit 1 Introduction to Bird watching.
Week 1,2	Characteristics of Birds with flight adaptations.
Week 3	Important field signs of bird watching. Unit Test
Week 4	Unit II Zoological Names of Important birds.
Week 5	Field characters of important birds.
Week 6	Sexual dimorphism in birds

Naveen

Unit Test	
Week 7.	Unit III Important Indian Bird areas
Week 8	Important Bird areas of Haryana
Week 9	Resident & Migratory Birds Unit Test
Week 10	Unit 4 Birds as bio-indicators
Week 11	Birds in food chain and Agriculture
Week 12	Bird Migration
Week 13	

N. K. Gupta

Assignments & Test	
Week 14	Unit Test

Mkuyar

LESSON PLAN (August 2025– November 2025)

Name of Assistant Professor: Naveen Kumar Saxena

: B.Sc.1st Year Semester :-1st

Subject: Zoology

MBC : Paper (Basics of Zoology – I)

Week 1, 2	Unit 1 Zoology: Definition and scope, introduction to Animal Kingdom, animal characters, Non-Chordates and Invertebrates with examples, Invertebrate Phyla, Introduction to basic characters of animal with special reference to the non chordates,
Week 3	Biodiversity: Introduction and Scope, General characters of Protozoa and Porifera.
Week 4	Study of Amoeba and sponges with special reference to its structure and economic importance.
Week 5	Unit 2 General characters of Coelentrata and Annelida; Unit Test
Week 6	Ecological importance of corals; Morphology of earthworm and Its ecological role, Economic importance of Leech
Week 7	

Naveen

General characters of Arthropoda and Mollusca,	
Week 8	Unit 3 Study of basic characters of insects and snails. Unit Test
Week 9	Insects as pest : Grasshopper, Economic importance of Honey Bee.
Week 10	Snails as pest in Paddy fields
Week 11	General characters of Echinodermata, Unit Test
Week 12	Unit 4 Study of basic characters of Star fish with reference to its role.
Week 13	Ecosystem: Economic importance of Star Fish
Week 14	Ecosystem: Economic importance of Star Fish.

Handwritten signature

Week 15

Unit Test

Week 15

Assignments & Test

Murray

LESSON PLAN (August 2025 – November 2025)

Name of Assistant Professor: Naveen Kumar Saxena

Class: B.Sc.1st Year Semester :-1st

Subject: Zoology

Lesson Plan: From August 2025 To November 2025

Week 1.	Unit 1
Phylum Protozoa	characters and classification up to class level .
Week 2	Type study of <i>Plasmodium</i> .
Phylum Porifera	General characters and classification up to class level.
Week 3	Type study of <i>Sycon</i> .
Phylum Coelenterate	Unit 2
	General characters and classification up to class level
	Type Study of <i>Obelia</i>
	Unit Test
Week 4	
Phylum -Platyhelminthes and Aschelminthes :	
Week 5	General characters and classification up to class level
Week 6	Type study of Liver Fluke, <i>Fasciola hepatica</i> .
Week 7	Unit 3

Naveen

Phylum Annelida	
	General characters and classification upto class level.
Week 8	Type study of Earthworm, <i>Pheretima posthuma</i> (Habitat, habits, Metamerism,
	Unit Test
Week 9	
	Digestive System, circulatory system.
Phylum Arthropoda:	
Week 10	General characters and classification up to class level,
Week 11	
	Type study of Cockroach, <i>Periplaneta americana</i> (Habitat, habits, external morphology,
Week 12	
	Digestive System, respiratory system, excretory system, reproductive system)
	Unit Test
Week 13	Unit 4
Phylum Mollusca	
	General characters and classification up to class level, Type study of <i>Pila globosa</i>
Week 14	
Phylum Echinodermata	
	General characters and classification up to class level,

Handwritten signature

Week 15

Type stud of *Arterias* (Sea Star)

(Habitat, habits, external morphology, water vascular system,
Circulatory system.

Week 16

Phylum *Hemichordata*:

General characters of Hemichordates with examples

Unit Test

Week 16

Assignments & Test

Naveen

- B.sc.3rd year 5th semester zoology.
- Paper name. Ecology and environment
- Session. 2025 -2026
- Teacher. Extension lecturer.
- Date. Unit name. Topic name
- 01-08- 2025. - I 09-08-25. Introduction and basic concepts. definition significance. Concepts of habitat and ecological niche
- 11-08-2025-16-08-25. Ecosystem. Concepts. Components properties properties and functions. Ecological energetics and energy flow models.
- 18-08- 2025-23-08-25. Food chain food web; trophic structure; ecological pyramids, concept of productivity.
- 25-08-25-30-08-25 -Factors affecting environment; : Abiotic factors (light intensity, quality and duration) temperature, humidity, wind, rainfall, topography, edaphic factors,
- 01-09-25-06-09-25-Biotic factors. Introduction to major ecosystem of the world.
- 08 -09-25 -12-09-25-biogeographical cycles:-concepts, reservoir pool, gaseous cycles and sedimentary. cycles.
- 15-09-25-20-09-25: community ecology: characteristics, composition, structure, structure origin and development of a community, ecological succession,
- Unit iii. 22-09-25-27-09-29-population, growth and regulation.
- Population interactions -competition, predation, parasitism commensalism and mutualism.
 - 30-09-25-04-10-25- concepts of biodiversity and conservation of natural resources. climate change: global warming, greenhouse effect,
- 06-10-2025-11-10-25- Ozone depletion and sustainable development.
- 20-10-25-25-10-25. - Natural resources-types , uses and conservation. Environmental pollution: Air, water pollution soil pollution and management strategies.
- 27-10-25-02-11-25. Environmental impact assessment.

Alhassan

- Lesson plan.
- Class. B sc.2nd year 3rd semester I
- Virender Kumar extension lecturer
- Cell biology and animal Genetics.
-
- Date. Unit name. Topic name
- 01.08.2025- 08-08-2025 General structure of animal cell. Plasma membrane:various modes of transport across the membrane.
- 11-08- 2025-16-08- 2025. - Mechanism of active and passive transport;endocytosis and passive transport. Endoplasmic reticulum:types and function
- 18-08-2025- 23-08-2025-golgi complex : structure'associated enzymes and role of golgi complex in animal cell. Ribosomes: types and role in protein synthesis.
- 25-08- 2025-30-08-2025. Lysosomes:structure, enzymes and their role;polymorphism. Mitochondria:structure, mitochondria as semisutonomous body. Biogenesis and function of mitochondria . Cilia and flagella. Structure and functions.
- 01-09-2025-06-09-2025-ultrastructure and functions of nucleus: nuclear membrane,nuclear lamina, nucleolus. Fine structure of chromosomes,
- 08 -09-2025-12-09-2025. Nucleosome concept and roleof histone, euchromatin and heterochromatin.
- Unit 3.:15 -09- 2025-20-09-2025. -introduction and Mendels laws of inheritance. Linkage and recombination. Cell cycle, crossing over and chiasmata formation gone mapping
- 22-09-2025-27-09-2025- Sex determination mechanisms :Male And female heterozygous system.;genetic balance systems, cytoplasmic and environmental factors;role of hormones in sex determination.
- 30-09-2025-04- 10-2025.-Sex- linked inheritance: Haemophilia and colour blindness
- In man;eye colouring drosophila; non- dysfunction of sex chromosomes in Drosophila
- 06-10-2025-10-10-2025. -Sex-linked-sex influenced inheritance. Extra chromosomal and cytoplasmic inheritance.;kappa particles in paramecium;shell coiling in snails;milk factors in mice.
- Unit -4. 14-10-2025-19-10-2025. Multiple allelism:Eye colour in Drosophila; A,B,O- bloodgroup in man.
- Human genetics:Human karyotype, chromosomal abnormalities involving autosomes and sex chromosomes, monozygotic anddixygotic twins.
- 27-10-2025-31-10-2025. Inborn error of metabolism(Alcaptonuria, phenylketonuria, albinism, sickle-cell anaemia)
- 03-11-2025-08-11-2025..Applied genetics:Genetic counselling;pre natal diagnosis;DNA fingerprinting,Transgenic animals.
-
-
-
-

Virender Kumar