

Dr. BhimRao Ambedkar Govt. College Jagdishpura (Kaithal)

Lesson Plan: (from 22 July 2024 to 22 NOVEMBER 2025)

Name of Assistant Professor: **Dr. Pooja Devi**

Class and Section: **BSc Life Sciences I**

Subject: **Zoology B23-ZOO-101 (Animal Diversity of Non-Chordates)**

Dates	Lesson Plan
July Week-4	Unit-1: Introduction of non chordates
August : Week -1	Phylum Protozoa: General characters and classification up to class level
Week-2	Type study of Plasmodium Phylum Porifera: General characters and classification up to class level,
Week-3	Type study of Plasmodium
Week-4	Type study of Sycon Phylum – Coelentrata: General characters and classification up to class level
September : Week -1	Type Study of Obelia
Week -2	Phylum – Platyhelminthes and Aschelminthes: General characters and classification up to class level
Week -3	Type study of Liver Fluke, Fasciola hepatica
Week -4	Phylum – Annelida: General characters and classification up to class level
Week - 5	Type study of Earthworm, Pheretima posthuma (Habitat, habits, metamerism, digestive System,)
OCTOBER : Week- 1	Type study of Earthworm, Pheretima posthuma (circulatory system, nervous system, reproductive system)
Week -2	Phylum – Arthropoda: General characters and classification up to class level
Week -3	Type study of Cockroach, Periplaneta americana (Habitat, habits, external morphology, digestive system, respiratory system, excretory system, reproductive system)
Week -4	Phylum – Mollusca: General characters and classification up to class level , Type study of Pila
Week -5	Diwali Vacations (27 October-03 November)
November Week -2	Phylum – Echinodermata: General characters and classification up to class level, Type study of Asterias (Sea Star) (Habitat, habits, external morphology,
Week -3	Type study of Asterias (water vascular system, Circulatory System)
Week -4	Phylum Hemichordata: General characters of Hemichordates with examples
23 November 2024	EXAM ONWARD

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GC Kaithal

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Lesson Plan: (from 22 July 2024 to 22 NOVEMBER 2025)

Name of Assistant Professor: Dr. Pooja Devi

Class and Section: BSc Life Sciences II

Subject: Zoology- B23-ZOO-201 (Animal Diversity of Chordates)

Dates	Lesson Plan
July Week-4	Chordates: Salient features of chordates; Principles of classification;
August :Week -2	Chordates: Salient features of chordates; Principles of classification;
Week -3	Protochordates: Urochordata: Systematic position, distribution, ecology, morphology and affinities
Week -4	Herdmania Type study
Week -5	Pisces: General characters and classification up to classes with examples emphasizing their biodiversity, Scales & Fins,
September : Week -1	Type study of Labeo
Week -2	Amphibia: General characters and Classification upto class level;
Week -3	Type study of frog,
Week -4	Parental Care and Neoteny in Amphibia
OCTOBER : Week- 1	Reptilia: General characters and Classification upto classes,
Week -2	V Aves: General characters and Classifications upto classes.
Week -3	Flight/Aerial adaptation in birds, Archaeopteryx as missing link
Week -4	Flight/Aerial adaptation in birds, Archaeopteryx as missing link
Week -5	Diwali Vacations (27 October-03 November)
November Week -2	Mammals: General characters and classification up to classes;
Week -3	Type study of Rat
Week -4	Type study of Rat
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Lesson Plan: (from 22 July 2024 to 22 NOVEMBER 2025)

Name of Assistant Professor: **Dr. Pooja Devi**

Class and Section: **BSc. Medical III**

Subject: **Environment Biology (Paper 1) and Evolution and Developmental Biology (paper 2)**

Dates	Lesson Plan
July Week-4	1. Origin of life.
August : Week -1	Concept and evidences of organic evolution.
Week -2	Theories of organic evolution. 4. Concept of micro, macro-and mega-evolution
Week -3	Concept of species Phylogeny of horse.
Week -4	Evolution of man. Historical perspectives, aims and scope of developmental biology.
September : Week -1	Generalized structure of mammalian ovum & sperm, spermatogenesis and Oogenesis, fertilization, parthenogenesis,
Week -2	Different types of eggs and patterns of cleavage. Process of blastulation and fate-map construction in Frog and chick.
Week -3	Gastrulation in frog and chick upto the formation of three germinal layers. Elementary knowledge of primary organizers.
Week -4	13. Elementary knowledge of extra embryonic membranes Concepts of competence, determination and differentiation. Concept of regeneration.
Week -5	Basic concepts of ecology: Definition, signification. Concepts of habitat and ecological niche.
OCTOBER : Week- 1	Factors affecting environment: Abiotic factors (light-intensity, quality and duration), temperature, humidity, topography; edaphic factors; Biotic factors.
Week -2	3. Introduction to major ecosystemt of the world. 4. Ecosystem: Concept, components, properties and functions;
Week -3	Ecological energetics and energy flow-food chain, food web, trophic structure; ecological pyramids concept of productivity.
Week -4	5. Biogeochemical cycles: Concept, reservoir pool, gaseous cycles and sedimentary cycles. 6. Population: Growth and regulation.
Week -5	Diwali Vacations (27 October-03 November)
November Week -2	7. Concept of biodiversity and conservation of natural resources. 8. Migration in fishes and birds. 9. Parental care in animals
Week -3	10. Population interactions: Competition, predation, parasitism, commensalisms and mutualism.
Week -4	11. Environmental Pollution: Air, water, soil and management strategies.
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