

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2025-26

Name of the Teacher: Ms.Nitu

Department: Zoology

Subject/Course: Animal Diversity of Non- Chordates

Programme: UG (Sec- A)

Semester: 1st

Unit	Name of Topic/Contents	Tentative Dates/Days
1.	General Character and classification of Phylum protozoa & type study of Plasmodium. General character and classification of Phylum Porifera and type study of Sycon.	August
2.	General character and classification of Phylum Coelenterata and type study of Obelia. General character and classification of Phylum Platyhelminthes and Aschelminthes and type study of Liver Fluke (Fasciola hepatica) Assessment Test	September
3.	General character and classification of Annelida and type study of Earthworm (Pheretima postuma) General character and classification of Arthropoda and type study of Cockroach (Periplaneta americana) Assignment 1st	October
4.	General character and classification of Phylum Mollusca and type study of Pila And General character and classification of Echinodermata and type study of Asterias. General Character and classification of Hemichordata.	November

Name of the Teacher: Ms. Nitu

Department: Zoology

Subject/Course: SEC Zoology.

Programme: B.A+B.sc life science

Semester: IIIrd

Unit	Name of Topic/Contents	Tentative Dates/Days
Unit-1	Microtomy introduction definition history and application in biological sciences, types of microtome rotatory micro sledge microtomy , cryomicrotomy	August
Unit-2	Collection and transportation of sample specimen for histological examination basic concept of fixation Assignment - 1 Class Test	September
Unit-3	Section cutting and paraffin section cutting stretching spreading the sections and attachment to the glass slide, staining principle and procedure, preparation of stain and solvent	October
Unit-4	General staining procedure for paraffin embedded tissue nuclearstains,and cytoplasm hematoxylin,eosin,Mercury bromophenol blue staining toluidine blue.	November

Name of the Teacher: Dr. Komal Duhan

Department: Zoology

Subject/Course: Ecology and Environment

Programme: B.sc final year

Semester: 5th

Unit	Name of Topic/Contents	Tentative Dates/Days
I	Basic concepts of Ecology – Definition , significance, concept of Habitat & Ecological niche Ecosystem – Concept , components, property & Function Ecological energetics and energy flow model, food chain, food web, trophic structure, ecological pyramids, concept of productivity	August
II	Factor affecting environment : abiotic factor, biotic factor introduction to major ecosystem of the world Biogeochemical cycle : concept, reservoir pool, gaseous cycle and sedimentary cycle Community ecology : Characteristics, composition, structure, origin and development of community ecological succession Assignment I	September
III	Population: growth, regulation Population interaction : competition predation, parasitism ,commensalism and mutualism Concept of biodiversity and Conservation of natural resources Class test	October
IV	Climate change: global warming, green house effect ozone depletion , sustainable development Natural resources : type, use and conservation Environmental pollution	November

Name of the Teacher:Dr. Komal duhan

Department: Zoology

Subject/Course: VOC Zoology.

Programme: B.C.A+B.sc life science

Semester: 5th SEMESTER

Unit	Name of Topic/Contents	Tentative Dates/Days
Unit-1	Apiculture, meaning, definition scope and history Status of apiculture industry in india Classification and life cycle of honey bee identification of indigenous and exotic honey bee species	August
Unit-2	Cutivable species if honey bee with references to india	September

	<p>Social organisation of honey bee caste queen drone and worker</p> <p>Nesting behaviour of honey bee , seasonal management, swarming in honey bee, waggle dance</p> <p>Defending honey bee</p> <p>Diseases and enemies</p> <p>Control and preventive measures</p> <p>Assignment - 1</p>	
Unit-3	<p>Role of bees in cross pollination in horticulture and agriculture</p> <p>Methods of artificial bee keeping</p> <p>Equipment used in bee keepind industry</p> <p>Method of extraction of honey and other products</p> <p>Class Test</p>	October
Unit-4	<p>Products of apiculture industry and their uses (honey , bee wax,royal jelly, bee venom, propolis and pollen)</p> <p>Bee keeping industry</p> <p>Prospect of apiculture as self employment venture</p> <p>Economics of apiculture expenditure, net income and additional benefits</p>	November

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2025-26

Name of the Teacher: Anjali Sharma

Department: Zoology

Subject/Course: MDC Zoology.

Programme: B.A Semester: IIIrd

Unit	Name of Topic/Contents	Tentative Dates/Days
Unit-1	Human skelton and bones characteristics axial and appendicular skeleton joints cartilage and ligament interaction between skeletal muscles and nerves ABO and RH system in humans method of determination importance and dangers of blood transfusion.	September
Unit-2	Human cell and chromosome, cell as unit of life morphology and functional elements of human chromosome sex determination, definition different types and scope Assignment - 1 Class Test	October
Unit-3	Respiration in humans anatomy and physiology of respiration factor affecting change of gases and diffusing capacity, introduction of dental formula and types and development of tooth	October
Unit-4	Darwinism species and population, concept of evolution theory of darwinism	November

	neodarwinism,genetic drift and hardywinberg principle, human evolution origin and evolution,adaptive evolution	
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TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2025-26

Name of the Teacher: Anjali Sharma

Department: Zoology

Subject/Course: cell biology and animal genetics.

Programme: B.sclInd

Semester: IIIrd

Unit	Name of Topic/Contents	Tentative Dates/Days
Unit-1	General structure of animal cell plasma membran,model various mode of transport across the membrane active and passive endocytosis exoocytosis,endoplasmic reticulum types and functions structure associated enzyme and role of Golgi complex in animal cell ribosome types biogenesis and role in protein synthesis lysosome structure enzyme and their role in polymorphism, mitochondria structure mitochondria mitochondria semiautonomous body biogenesis function of mitochondria function,cilia and flagellar structure and function	September

Unit-2	<p>Ultrastructure and function of nucleus, nuclear membrane nuclear lamina,nucleolus find structure of chromosome nucleosome concept and role of histone Euchromatin heterochromatin,introduction and mendal law of inheritance linkage and recombination cell cycle, crossing over and the chismata formation,mapping sex determination and its mechanism male and female heterogeneous system genetic balance system</p> <p>Assignment - 1</p> <p>Class Test</p>	October
Unit-3	<p>Y chromosome male haploidy,cytoplasmic inheritance linkage and role of hormones in sex determination sex link inheritance hemophilian colour blindness in men,eye colour Drosophila non dis junction of sex chromosome in drosophila,sex linked and influenced inheritance extra chromosome and cytoplasmic,inheritance Kappa particle in paramecium shell coil in snails milk factor in mice,multiple allelism</p>	October
Unit-4	<p>AbO blood group in man human genetics human karyotype,chromosomal abnorml involving autosomes and sex chromosome monozyotic and dizygotic twins</p>	November

	inborn error of metabolism DNA fingerprinting transgenic animals	
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SESSION: 2025-26

Name of the Teacher: Chanchal Sharma

Department: Zoology

Subject/Course: MDC Zoology

Programme: B.A First

Semester: 1st

Unit	Name of Topic/Contents	Tentative Dates/Days
Unit-1	Zoology: Definition and scope, introduction of animal kingdom, non chordates and invertebrates, General character of protozoa and porifera, Biodiversity	August
Unit-2	General characteristics of phylum coelenterata and annelida and their economic importance Assignment - 1 Class Test	September
Unit-3	General characteristics of phylum arthropods and mollusca and their economic importance, Basic character of starfish with special reference to its importance in ecosystem economic importance of starfish	October
Unit-4	Revision all syllabus	November

TENTATIVE LESSON PLAN (SEMESTERS)

SESSION: 2025-26

Name of the Teacher: Chanchal Sharma

Department: Zoology.

Subject/Course: Animal diversity of non chordates

Programme: B.sc life science Sec- B

Semester: 1st

Unit	Name of Topic/Contents	Tentative Dates/Days
Unit-1	Protozoa general characters and classification plasmodium vivax, phylum porifera general characters and classification, character of phylum porifera Scypha	August
Unit-2	Phylum coelenterata their general characters and classification, study of obelia, platyhelminthes, general character and classification of fasciola hepatica Assignment - 1 Class Test	September
Unit-3	general characters and classification of Annelida, general classification of Pheretima posthuma,	October
Unit-4	General characters and classification of Periplaneta Americana, molluscs character, echinoderm asteris, hemichordates general character and classification	November

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