DEPARTMENT OF ZOOLOGY

SESSION: 2024-25

LESSON PLAN (ODD SEMESTER)

Name of Assistant Professor: Dr. Umesh Kumar

Class & Section: B.Sc. I (Life Science) Section A & B

Paper: 24 UN-ZOO-101 (Animal Diversity of Non-Chordates)

Month	Week/ Days	Chantar/ Tania
July	Week 4	Chapter/ Topic General characters of Protozoa
		General characters of Protozoa
August	Week 1	Classification up to class level
	Week 2	Type study of Plasmodium
	Week 3	General characters of Porifera
	Week 4	Classification of Porifera up to class level
		classification of Forfiera up to class level
September	Week 1	General characters of Coelentrata
	Week 2	Classification of Coelentrata up to class level
	Week 3	Type Study of Obelia
	Week 4	General characters of Platyhelminthes, General
		characters of Aschelminthes, Class test
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October	Week 1	Platyhelminthes and Aschelminthes: Classification up to
	200	class level
	Week 2	Type study of Liver Fluke, Fasciola hepatica
	Week 3	Phylum – Annelida:
		General characters and classification up to class level
	Week 4	Type study of Earthworm, Pheretima posthuma (Habitat
		habits, metamerism, digestive System, circulatory
		system, nervous system, reproductive system)
	Week 5	Phylum – Arthropoda: General characters and
		classification up to class level, Type study of
		Cockroach, Periplaneta americana (Habitat, habits,
		external morphology, digestive system, respiratory
_		system, excretory system, reproductive system)
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November	Week 1	Phylum - Mollusca: General characters and
		classification up to class level, Type study of Pila
	Week 2	Phylum – Echinodermata: General characters and
		classification up to class level, Type study of
		Asterias (Sea Star) (Habitat, habits, external
		morphology, water vascular system, Circulatory
		System)
	Week 3	Phylum Hemichordata: General characters of
		Hemichordates with examples
	Week 4	Class test & Revision

(UMESH KUMDR)

LESSON PLAN FOR ODD SEMESTER (SESSION: 2024-25)

Name of Assistant Professor: Dr. Ajay Kumar

Department of Zoology

Class & Section: B.Sc.II (Life Science) Section A

Paper: 24 Animal Physiology (20UZOO301) and animal Biochemistry (20UZOO302)

Month	Week/ Days	Chapter/ Topic
July	Week 4	Introduction and classification of carbohydrates, General properties, structure, Glycolysis, kerb cycle ETC
August	Week 1	Physiology of digestion of carbohydrates, proteins and lipid, structure and importance of fatty acids and types
	Week 2	Physiology of respiration and transport of gases, biosynthesis and beta oxidation of fatty acids
	Week 3	Structure of heart and origin and conduction of cardiac impulse, introduction of proteins
	Week 4	Composition of blood, structure and function & general properties of proteins,
September	Week 1	classification & nomenclature of proteins, Structure of nephron and types
	Week 2	Physiology of excretion, transport through membrane, buffers
	Week 3	Structure of a neuron, membrane potential, origin and conduction of action potentialin myelinated and non-myelinated nerve fibre
	Week 4	Nucleic acid introduction and types, structure and function of DNA
October	Week 1	Ultra-structure of Skeletal muscle. physiology of muscle contraction
	Week 2	Physiology of male reproduction
· ·	Week 3	Spermatogenesis and hormonal control
	Week 4	Physiology of female reproduction, menstrual cycle and its hormonal control
	Week 5	Diwali vacation
November	Week 1	structure and function of RNA and its different components,
	Week 2	types of RNA, role in protein synthesis and central dogma Structure and function of pituitary and thyroid gland
	Week 3	Structure and function of Parathyroid's, pancreas and adrenal gland
	Week 4	Structure and function of Adrenal glands/ Revision

Bear



M.N.S.GOVT. COLLEGE, BHIWANI DEPARTMENT OF Zoology

LESSON PLAN

SESSION: 2024-25

Name of Teacher: Dx. KHUSHBOO

Class & Section: BSc-TH rdy (5th sem) Sec-B

Paper: Ammunology (ZOOLOGY Paper-I)

Month	Week	Topic
July	Week 4	Historical perspective of Immunology, Anatomical Barriers Anglammation, Cells & Molecules in Innate Immunity
August	Week 1	Inflammation, Cells & Molecules in Annate Immunity
	Week 2	Adaptive Immunity, Passive & Active Immunity
	Week 3	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Week 4	Antigenicity & Ammunogenicity
September	Week 1	Smmurogene, Adjurant
	Week 2,	lables 1. 16 x 1-(ell CPC10)
	Week 3	Structure & functions of Ammunoglobuling
	Week 4	Primary immune response
	Week 1	Secondary immune response
	Week 2	0 111 111 114 100 66110 21
October	Week 3	Gell & coomb's classification
	Week 4	Diwali vaccations
	Week 5	Types of Hypersensitivities
November	Week 1	Tupes of vaccines
	Week 2	
	Week 3	
	Week 4	Revision

(Dr. Khushboo)

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M.N.S.GOVT. COLLEGE, BHIWANI DEPARTMENT OF Zoology

LESSON PLAN

SESSION: 2024-25

Name of Teacher: Dr. KHUS HBOO

Class & Section: B. Sc- Why (5threm) Sec-A

Paper: Aquaculture (Zoology Paper - I)

Month	Week	Topic
July	Week 4	General description of Fish, Feeding habits
	Week 1	Manner of reproduction in fish, Types of fine
August	Week 2	Types of scales, uses of scales in classification
	Week 3	Determination of Fishage, Gill & gas exchange
	Week 4	Swim Bladder, Types & sole in Kespiraion
	Week 1	Reproduction in Fish
September	Week 2	flectric organi Bioluminiscence
	Week 3	Mechanoseceptors, Schooling
	Week 4	Parental Care, Migration in fisher
October	Week 1	10 0 10 10 10 10 CIL WELLES
	Week 2	- Calaira Caracter V (DECITA
	Week 3	Depletion of fisheries resources, aquacultos
	Week 4	N. And P. A. C.
	Week 5	Extensive, semi-extensive, Intensive Fish culture
November	Week 1	Barral Culture, racy cue
	Week 2	Composite fish culture, snauced executing in her
	Week 3	Remision of syllabus
	Week 4	

(Dr. Khushbor)

Odd Semester.

M.N.S.GOVT. COLLEGE, BHIWANI **DEPARTMENT OF Zoology**

LESSON PLAN

SESSION: 2024-25

Name of Teacher: Songe ta.
Class & Section: B. Sc. III (5th Sem.)

Paper: Elonomic Zoology (Paper II)

Month	Week	Topic
July	Week-4	Life history, control & damage by Helioverpa
August	Week I	Pyrilla perpusilla and papillo demolecy
	Week 2	Callosobruchy, Sitophilus, Tribolium
	Week 3	Lac culture.
	Week 4	Class test and assignment. Life history and control of Pediculus humans
	Week 1	Life history and control of Pediculus humany
	Week 2	Anopheles, Culex
September	Week 3	Aedes, xenopsylla
	Week 4	Serieulture
	Week 1	Preservation 4 artificial inservination in Cattles
	Week 2	Induction of early puberty. Synchronization of est ous in cattles.
October	Week 3	Synchronization of est ous in cattles.
	Week 4	Piggery.
	Week 5	Divadi vacations
November	Week 1	Poultry farming.
	Week 2	Principle and management of breeding stock
	Week 3	Processing and preservation of eggs.
	Week 4	

Odd Semester

M.N.S.GOVT. COLLEGE, BHIWANI **DEPARTMENT OF Zoology**

LESSON PLAN

SESSION: 2024-25

Name of Teacher: Sangerta.
Class & Section: B.Sc. III (5th Sem)

Paper: Animal Biotechnology. (Paper II)

Month	Week	Topic
July	Week 4	Concept, scope and applications of biotech in Agr
August	Week 1	Veterinary, human health, medicine and puther
	Week 2	Cloning vectors: Playmids, Cosnids Class text and assignment.
	Week 3	Class text and assignment.
	Week 4	Phagemids, Lambda Bacteriophoge, M13, BALYAC.
	Week 1	Expression vectors. Restriction enz.
	Week 2	7021 100110 100
September	Week 3	Southern, Northern and Western blotting
	Week 4	Polymerase chain reaction.
	Week 1	MA Finger printing
	Week 2	Applications of transgenic animals.
October	Week 3	Applications of transgenic animals.
	Week 4	Culture techniques
	Week 5	Diwali vacactions.
November	Week 1	Animal Cell Culture, Expressing closed gens
	Week 2	RDT.
	Week 3	Revision
	Week 4	Revision.