

DEPARTMENT OF ZOOLOGY

LESSON PLAN - PAPER NAME: ANIMAL DIVERSITY CHORDATES-I
PAPER CODE: 20UZ00201

TEACHER'S NAME: DR. KHUSHBOO

CLASS: B.Sc - ILM) 2nd Sem.

MONTH :->	FEBRUARY
WEEK-2	Classification of Chordates, Origin & Evolutionary tree
WEEK-3	Salient features of Chordates, Economic Importance
WEEK-4	Functional Morphology with examples. General characters & classification of Protochordata
MONTH :-	MARCH
WEEK-1	Type Study - <u>Herdmania</u>
WEEK-2	Type Study - <u>Herdmania</u> & Type Study - <u>Amphioxus</u> <small>(class Test)</small>
WEEK-3	Type Study - <u>Amphioxus</u> , General characters & Classification of Cyclostomata, Type study - <u>Petromyzon</u>
WEEK-4	Holi vacations (23 rd - 31 st March 2024)
MONTH :->	APRIL
WEEK-1	Type study - <u>Petromyzon</u>
WEEK-2	General characters & Classification of Pisces, Scales of fishes, Fish Migration, <small>Class-Test</small>
WEEK-3	Parental care in fishes, Type study - <u>Labeo</u>
WEEK-4	Type study <u>Labeo</u>
MONTH :-	MAY
WEEK-1	Type study <u>Labeo</u>
WEEK-2	Revision of syllabus
WEEK-3	-
WEEK-4	-

Syllabus Coverage - 70%
Khushboo

TEACHER'S NAME
 Khushboo
 (DR. KHUSHBOO)
(TEACHER'S SIGN.)

(H.O.D)
ZOOLOGY

Lesson Plan
Department of Zoology

Class-B.Sc. 1st Year, 2nd Semester,

Animal Diversity Chordata II

Week	Topic
08/02 to 10/02/2024	Rana tigrina – Morphology, Skin , Digestive System,
12/02 to 17/02/2024	Nervous system, Respiratory system
19/02 to 24/02/2024	Circulatory system, sense organ, excretory system,
26/02 to 02/03/2024	Reproductive system, Parental Care in Amphibian, Test of Unit 1
04/03 to 09/03/2024	Type study of Hemidactylus, Morphology, Skin , Digestive System,
11/03 to 16/03/2024	Nervous system, Respiratory system, Circulatory system, sense organ,
18/03 to 22/03/2024	Excretory system, Reproductive system, Extinct reptiles, poisonous and non-poisonous snake test of Unit 2
23/03 to 31/03/2024	Holi break
01/04 to 06/04/2024	Type study of Pigeon: Morphology, Skin , Digestive System, Nervous system, Respiratory system,
08/03 to 13/04/2024	Circulatory system, sense organ, excretory system, Reproductive system, Principle of aerodynamics in birds flight, migration in birds, Test of Unit 3
15/04 to 20/04/2024	Type study of Rat: Morphology, Skin , Digestive System,
22/04 to 27/04/2024	Nervous system, Respiratory system, Circulatory system, sense organ
29/04/ to 30/04/2024	Excretory system, Reproductive system, Test of Unit 4



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LESSON PLAN - PAPER NAME: Cell Biology & Genetics

PAPER CODE: 20VZ00401

TEACHER'S NAME: SANGEETA

CLASS: B.Sc.II (H.)
4th Sem

MONTH :->	FEBRUARY
WEEK-2	Plasma membrane.
WEEK-3	Endoplasmic reticulum, Golgi complex
WEEK-4	Ribosomes, Mendel's work on inheritance, Class test.
MONTH :->	MARCH
WEEK-1	Genetic variation, Principles of inheritance,
WEEK-2	Incomplete dominance, Multiple alleles, Epistasis
WEEK-3	Pleiotropy, lethal alleles, sex linked inheritance
WEEK-4	Sex determination, Chromosomal abnormalities. Holi Vacations. (23-31 March 2024)
MONTH :->	APRIL
WEEK-1	Lysosomes, Mitochondria, Class test.
WEEK-2	Cytoskeleton, Cilia & flagella, Nucleus.
WEEK-3	Linkage and Crossing over, Chromosomal mutations.
WEEK-4	Gene mutations, Polygenic inheritance
MONTH :->	MAY
WEEK-1	Extra chromosomal inheritance.
WEEK-2	Revision
WEEK-3	Revision.
WEEK-4	

Syllabus Coverage
~~50%~~
70%
upto 15/04/24.

MRS. SANGEETA
TEACHER'S NAME
Sangeeta
(TEACHER'S SIGN.)

Sangeeta
(H.O.D)
ZOOLOGY

Session: 2023-24**Class - B.Sc. Med 3rd sem****Teacher's Name : Dr. Ajay Kumar****Date/Week****Topic to be covered**12/02 to
14/02/2024

Unit-I: Historical perspective, aim and scope of developmental biology

19/02 to
21/02/2024

Generalized structure of sperm and ovum and spermatogenesis

26/02 to
28/02/2024

unit -I Oogenesis and its hormonal control

04/03 to
06/03/2024

Unit II: Fertilization and its types and mechanism

11/03 to
13/03/2024

Parthenogenesis and cleavage

18/03 to
20/03/2024

Types of eggs and pattern of cleavage

23/03 to
31/03/2024**Holi Vacations**01/04 to
03/04/2024

Unit- II Blastulation in vertebrates and invertebrates and fate map of frog and chick and methods of fate map construction

08/04 to
10/04/2024UNIT-III Gastrulation in invertebrates and vertebrates, formation of three germinal layers in frog and chick.
MINOR TEST15/04 to
17/04/2024

elementary knowledge of primary organizer and assignment topics distributions, UNIT-IV-- Extra embryonic membranes and structure

22/04 to
24/04/2024

concept of competence, determination and differentiation

29/04 to
30/04/2024

concept of regeneration

DEPARTMENT OF ZOOLOGY

LESSON PLAN (FOURTH SEM.)

SESSION: 2023-2024

Name: Preeti Sangwan (Extension Lecturer)

Class: B.Sc. 2nd Year (MEDICAL)

Paper: Medical Diagnostics

Month	Week/ Days	Chapter/ Topic
Febuary	Week 2	Introduction to Medical Diagnostics and Its Importance
	Week 3	Blood Composition, Preparation of Blood Smear and Differential Leucocytes count using Leishman's stain
	Week 4	Platelet -count using Haemocytometer, Erythrocyte Sedimentary Rate, Packed Cell Volume
March	Week 1	Tumour : Type, detection and metastasis, medical imaging: X-Ray of bone fracture, PET, MRI and CT-Scan
	Week 2	Infectious Diseases: Causes, Types, Symptoms , Complications, Diagnosis and Prevention of Diabetes
	Week 3	Infectious Diseases: Causes, Types, Symptoms , Complications, Diagnosis and Prevention of Hypertension
	Week 4	HOLI -BREAK
April	Week 1	Class Tests and assignments, Infectious Diseases: Causes, Types, Symptoms, Complications, Diagnosis and Prevention of Tuberculosis
	Week 2	Infectious Diseases: Causes, Types, Symptoms , Complications, Diagnosis and Prevention of Hepatitis and COVID-19
	Week 3	Testing of Blood Glucose using Glucometer/ Kit and Revision
	Week 4	Class Test and Revision

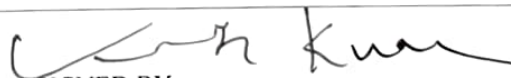
Preeti Sangwan

Lesson Plan
Department of Zoology

Class-B.Sc. 3rd Year, 6th Semester,

ECOLOGY AND EVOLUTION

Week	Topic
08/02 to 10/02/2024	History of ecology, Autecology and synecology,
12/02 to 17/02/2024	Level of organization, Laws of limiting Factor
19/02 to 24/02/2024	Study of biotic and abiotic factor, Unique and group attributes of population, Density, natality, mortality
26/02 to 02/03/2024	fecundity, survivorship curve, age ratio, sex ratio, dispersal and dispersion Test of Unit 1
04/03 to 09/03/2024	Community characteristics, species richness, dominance, diversity, abundance, vertical stratification, Ecological Niche, Ecotone and edge effect
11/03 to 16/03/2024	Ecological succession with one example Types of ecosystems with one example in detail, Food chain: Detritus and grazing food chain
18/03 to 22/03/2024	Food web, Energy flow through the ecosystem, Ecological pyramid Test of Unit 2
23/03 to 31/03/2024	Holi break
01/04 to 06/04/2024	Origin of species, Lamarckism, Darwinism, Neo Darwinism, Evidence of Evolution, Geological time scale
08/03 to 13/04/2024	Neutral theory of molecular evolution, Natural selection, Genetic drift, Test of Unit 3
15/04 to 20/04/2024	Population genetics: Hardy-Weinberg Law, Founder's effect, Bottleneck phenomenon; Species concept
22/04 to 27/04/2024	Isolating mechanism, modes of speciation-allopatric, sympatric,
29/04/ to 30/04/2024	Adaptive radiation, macroevolution, Origin and evolution of horse and man Test of Unit 4


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LESSON PLAN - PAPER-II Wildlife Conservation

PAPER CODE : 20UZ00605

Teacher's Name: Dr. KHUSHBOO

Class: B.Sc-III(M) 6th Sem

MONTH:→	FEBRUARY
WEEK-2	Introduction to Wildlife
WEEK-3	Values of Wildlife, Conservation Ethics & Importance
WEEK-4	Causes of depletion, Conservation Strategies
MONTH:→	MARCH
WEEK-1	Management Planning of wildlife, Carrying Capacity, <u>Class Test</u>
WEEK-2	Ecotourism, Concept of climax persistence, Ecology of perturb- -ence
WEEK-3	Population Density, Natality, Mortality, Disease of Wildlife
WEEK-4	Holi Vacations (23 rd - 31 st March 2024)
MONTH:→	APRIL
WEEK-1	Fertility schedule, sex ratio, quarantine, <u>Class Test</u>
WEEK-2	Sex ratio Computation, Protected area, Tiger Conservation
WEEK-3	Preservation of genetic diversity, Community reserve
WEEK-4	Management Challenges, Restoration of degraded habitats.
MONTH:→	MAY
WEEK-1	Important features of Protected area in India.
WEEK-2	Revision of Syllabus
WEEK-3	
WEEK-4	

Syllabus Coverage-75-1.
Khushboo

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DR. KHUSHBOO
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Soyuz
(H.O.D)
ZOOLOGY

DEPARTMENT OF ZOOLOGY

LESSON PLAN (SIXTH SEM.)

SESSION: 2023-2024

Name: Preeti Sangwan (Extension Lecturer)

Class: B.Sc. 3rd Year (MEDICAL)

Paper: Apiculture and Poultry Farming

Month	Week/ Days	Chapter/ Topic
Febuary	Week 2	Biology and Rearing of Bees, History, Classification and Biology of Honey Bees, Social Organization of Bee Colony, Apiary
	Week 3	Beehive: Newton and Langstroth, Bee pasturage, Selection of Bee Species for Apiculture, Bee Keeping Equipment, Methods of Extraction of Honey
	Week 4	Bee Disēases and Enemies, Control and Preventive Measures, Products of Apiculture Industry and Its Uses (Honey, Bee Wax, Propolis and Pollen)
March	Week 1	Definition of Poultry, Broiler, Layer and Breeder, Common Terms related to Poultry
	Week 2	Development of Poultry Industry in India, Domestication of Poultry, Different Indian and Exotic Breeds of Poultry
	Week 3	Importance of Broiler and Layer production under Indian Scenario
	Week 4	HOLI -BREAK
April	Week 1	Class Tests and assignments, System of Rearing , Range, Semi Intensive, Intensive Rearing, Advantages and Disadvantages
	Week 2	Introduction to Rearing of Fowls and Geese for Meat and Egg production, Regional Influences
	Week 3	Structure of Poultry Industry- Breeder Farm, Hatcheries, Commercial Farms, Feed Mills and Processing Industry
	Week 4	Class Test and Revision

