

Lesson Plan

Name of the Assistant/ Associate Professor: Santosh Yadav Sem. 2nd

Class and Section: Zoology BSc 2nd Subject: Zoo of Invertebrate

Month	Topics
21 st March to 31 st March	General characters of Phylum Annelida Biodiversity of phylum Annelida Metamerism;
1 st April to 30 th April	Earthworm: Type study; Trochophore larva General characters & biodiversity; Classification of Phylum Arthropoda Cockroach: Type study
1 st May to 31 st May	Pila: Type study General characters of Mollusca Biodiversity; classification Respiration; Foot; Torsion & Detorsion
1 st June to 30 th June	General characters; Biodiversity & Classification of Echinodermata Asterias: Type study Aristotle Lantern; Echinoderm Larvae
1 st July to 11 th July	Balanoglossus: Type study Larvae of Balanoglossus.

Santosh Yadav
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Lesson Plan

Name of the Assistant/ Associate Professor: Sunil...Kumar Sem...II

Class and Section: B.Sc. Ist Year Subject: Zoology (Pt. Genetics)

Month	Topics
21 st March to 31 st March	<p><u>Unit: I</u> - Elements of Heredity and Variation</p> <ul style="list-style-type: none"> - The varieties of Gene Interaction - Linkage & Recombination: Crossing Over and chiasma formation, Gene Mapping.
1 st April to 30 th April	<p><u>Unit: II</u> - Sex determination and its Mechanism</p> <ul style="list-style-type: none"> - Sex linked Inheritance - Unit test - Extra chromosomal and Cytoplasmic Inheritance; Kappa Particle in Paramecium - Assignment
1 st May to 31 st May	<p><u>Unit: III</u> - Multiple allelism; A, B, O, Blood group</p> <ul style="list-style-type: none"> - Human Genetics; Human Karyotype - Assignment & Unit test Inborn error of Metabolism <p><u>Unit: IV</u> - Nature and function of Genetic Material</p>
1 st June to 30 th June	<p><u>Unit: IV</u> - Structure and type of nucleic acid</p> <p>Protein Synthesis; Mutation</p> <ul style="list-style-type: none"> - Assignment & unit test. <p>Applied Genetics; Eugenics; genetic Counseling</p>
1 st July to 11 th July	<ul style="list-style-type: none"> - DNA-fingerprinting; transgenic Animal - Unit test and Assignment - Revision

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BAIJNATH CHAUDHARY GOVT. COLLEGE FOR WOMEN, NANGAL CHAUDHARY

Lesson Plan

Name of the Assistant/ Associate Professor: Santosh Yadav Sem. 4th

Class and Section: BSc Med.

Subject: Zoology - Physiology

Month	Topics
21 st March to 31 st March	Origin, conduction & regulation of heart beat, cardiac cycle, ECG, cardiac Output, fluid pressure & flow pressure. Blood, Lymph,
1 st April to 30 th April	Blood clotting, clotting factors, anticoagulant, haemopoiesis. Exchange of gases, Transport of gases, lung air volumes, oxygen dissociation curve of Hb, Bohr's effect, Cl ⁻ shift,
1 st May to 31 st May	Regulation of Respiration; Pattern of excretory product, urea cycle urine formation; counter current mechanism; osmoregulation; micturition
1 st June to 30 th June	Nerve impulse conduction through synapse, medullated & non medullated nerve fibre; Hormone action, different glands & their hormones.
1 st July to 11 th July	Gametogenesis, Capacitation, ovulation, corpus luteum, Menstrual cycle, oestrous cycle, Implantation, Gestation

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Lesson Plan

Name of the Assistant/ Associate Professor: Sanil Kumar Sem. Vth

Class and Section: B.Sc. IInd year Subject: Zoology (P.I. - life and diversities of chordates - II)

Month	Topics
21 st March to 31 st March	<p>1. <u>Amphibia</u>: Origin and Evolutionary tree</p> <p>Type Study of frog; Various System of frog like digestive, Respiratory and Nervous system</p> <ul style="list-style-type: none"> - Assignment - Parental Care in Amphibia.
1 st April to 30 th April	<p>2. <u>Reptilia</u>: type study of lizards</p> <ul style="list-style-type: none"> - Assignment & Unit test - Origin & Evolutionary tree - Extinct reptiles, Poisonous and Non-poisonous Snake; Poisonous apparatus in Snake.
1 st May to 31 st May	<p>3. <u>Aves</u>: Type Study of Pigeon;</p> <ul style="list-style-type: none"> - Flight adaptation - Unit test and Assignment - Principle of aerodynamics in Bird flight - Bird Migration
1 st June to 30 th June	<p>4. <u>Mammals</u>: Classification</p> <ul style="list-style-type: none"> - Type Study of Rat - Unit Test - Assignment
1 st July to 11 th July	<ul style="list-style-type: none"> - Type Study of Rat (Contd.-) - Adaptive Radiation of Mammals - Dentition in Mammals.

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Lesson Plan

Name of the Assistant/ Associate Professor: Santosh Yadav Sem...6th...

Class and Section: B.Sc. 6th sem

Subject: Zoology - Dev. Biology

Month	Topics
21 st March to 31 st March	History & scope of Dev. Biology spermatogenesis; str of sperm
1 st April to 30 th April	Oogenesis; Fertilization; Type of eggs Parthenogenesis; Type of cleavage, Blastulation; Type of blastula
1 st May to 31 st May	Fate map in frog & chick Gastrulation; Formation of three germ layers in frog & chick
1 st June to 30 th June	Primary Organisers; Extra embryonic membranes; Competence, determination, differentiation
1 st July to 11 th July	Concept of regeneration

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