

BAIJNATH CHAUDHARY GOVT. COLLEGE FOR WOMEN, NANGAL CHAUDHARY

Lesson Plan

Name of the Assistant/ Associate Professor: Suril Kumar Sem. IInd

Class and Section: B.Sc. Ist year Subject: Zoology (P II: Genetics)

Month	Topics
1 st Jan. 2024 to 31 st Jan. 2024	Elements of Heredity and Variations; The Varieties of Gene Interaction Linkage and Recombination: Coupling and Repulsion Hypothesis; Crossing over and Chiasmate formation; Gene Mapping
1 st Feb. 2024 to 29 th Feb. 2024	Sex determination and its mechanism: Male and female heterozygous system, Genetic Balance System, cytoplasmic and environmental factors. Sex Linked Inheritance: Haemophilia and color blindness in man, Eye colour in Drosophila Unit test
1 st March 2024 to 31 st March 2024	Extra chromosomal and cytoplasmic inheritance: Kappa particle in Paramecium; Shell coiling in Snail; Multiple Allelism: A, B, O Blood group in Man; Chromosomal Abnormalities. Nature and function of Genetic material: Structure and type of nucleic Acid; Unit test
1 st April 2024 to 30 th April 2024	Protein Synthesis; Gene Mutation; chemical basis of Mutation; Structural and Numerical chromosomal Aberration. Applied Genetics: Eugenics, Genetic Counseling DNA fingerprinting and transgenic animals

Suril Kumar
Teacher's Signature

BAIJNATH CHAUDHARY GOVT. COLLEGE FOR WOMEN, NANGAL CHAUDHARY

Lesson Plan

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

Class and Section: B.Sc. IInd year Subject: Zoology

Month	Topics
1 st Jan. 2024 to 31 st Jan. 2024	<u>Amphibia</u> : origin, evolutionary tree, type study of frog; Parental care in Amphibia <u>Reptilia</u> : type study of lizard. origin evolutionary tree; Extinct Reptiles.
1 st Feb. 2024 to 29 th Feb. 2024	<u>Aves</u> : Type study of Pigeon, flight adaptation; Principles of aerodynamics in birds flight, Migration in Birds. <u>Mammals</u> : classification, type study of Rat Adaptive Radiation of mammal Dentition Unit test.
1 st March 2024 to 31 st March 2024	<u>Circulation</u> : origin, Conduction and Regulation of Heart Beat; Cardiac cycle; Composition and function of Blood and Lymph; Blood Coagulation; ECG. <u>Respiration</u> : Exchange of Respiratory gases; Lungs air volumes; oxygen-dissociation Curve of Hb. Unit test
1 st April 2024 to 30 th April 2024	<u>EXCRETION</u> : Pattern of Excretory Product; Urine formation, Osmothine Cycle <u>Neural integration</u> : Nature, origin and propagation of nerve impulse; Structure and mechanism of Hormone Action <u>Reproduction</u> : Spermatogenesis and Oulation; Fertilisation

Sunil Kumar
Teacher's Signature