

Curriculum plan (Odd Semester 2024-2025)

Teacher Name: **Ms. Shikha Rani**

Paper name: **Principal of Genetics (PRACTICALS)**

Class type: Zoology III year (5th sem)

Practical shared with: Dr. Neeti Pandey

Unit to be taken	Allocated lectures	Month wise schedule to be followed	Tests/Assignments/ Revision/Presentations etc
<ul style="list-style-type: none">Simulation exercises using beads or seeds to study the gene interactions: 9:3:4; 12:3:1; 9:7; 9:3:3:1 (comb shapes in roosters) and verification of ratios by using Chi square analysis.	4	August	Practical
<ul style="list-style-type: none">Linkage maps based on data (two - point and three - point crossing over) from <i>Drosophila</i>	4	August	Practical
<ul style="list-style-type: none">Pedigree analysis of Autosomal Dominant trait, Autosomal recessive trait, X-linked, Dominant traits, X-linked recessive traits, Y-linked traits and mitochondrial traits.	4	September	Practical
<ul style="list-style-type: none">Use of probability in solving problems of genetics (Sum rule, Multiplication rule & Binomial expansion)	4	September	Practical
<ul style="list-style-type: none">Human Karyotypes, Human chromosomal disorders & single gene disorders.	4	October	Practical and Project

Gene mapping (order and distance) using data from interrupted mating experiments in bacteria	4	October, November	Practical and Revision of all practiclas
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Name of teacher: **Ms. Shikha Rani**

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