

Curriculum plan (Odd Semester 2021-22; Semester V)

Teacher Name: Dr. Mamta Tripathy

Paper name: Principles of Genetics

Class type: Core (Theory) 2 classes per week

Paper shared with: Dr. Janhawi

Unit to be taken	Allocated lectures	Month wise schedule to be followed	Tests/Assignments/Revision/Presentations etc
Mendelian genetics and its extensions	10	Late July-August	
Revision and Test			
Linkage, Crossing over and Chromosomal Mapping	10	September and early October	
Revision and Test			
Mutations	10	Late October and November	
Revision and Test			

Name of teacher: Dr. Mamta Tripathy

Paper name: Principles of Genetics

Class type: Core (Practical, G 1)

Paper shared with: Dr. Janhawi

Practical to be taken	Month/Date of practical	Tests/Assignments/ Revision/Presentations etc
Study of human karyotype (normal and abnormal)	July 28 th , 2021	
Simulation exercise using seeds or beads to study the Mendel's laws and gene interactions	August 4 th and 11 th , 2021	
Verification of Mendelian ratios using chi square analysis/test	August 18 th , 2021	
Use of probability in solving problems in genetics	August 25 th , 2021	
September 1 st , 2021		Revision
Pedigree analysis	September 8 th , 2021	
Linkage maps based on data from conjugation	September 22 nd and 29 th , 2021	
Linkage maps based on data from <i>Drosophila</i> crosses	October 6 th and 13 th , 2021	
October 20 th and 27 th , 2021		Revision

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