

Curriculum plan (Odd Semester 2024-2025)

Teacher Name: **Dr. Varsha Singh**

Paper name: Cell and Molecular Biology (Practical)

Class type: B. Sc. (H) III year

Paper shared with: Dr. Shanuja Beri

Unit to be taken	Allocated lectures	Month wise schedule to be followed	Tests/Assignments/ Revision/Presentations etc
1.Requirement of a Tissue culture laboratory, its equipment and its layout. Concept of cell culture and cell lines; Media preparation for mammalian tissue culture. 4.Inoculation and culture of E. coli in liquid culture medium (LB). 5. Preparation of solid culture medium (LB) and growth of E. coli by spreading and streaking. 6.Estimation of the growth kinetics of E. coli from the data provided.		August	Test
2. Preparation of permanent slides of mitosis/meiosis*. 3. Study of Polytene chromosomes from Chironomous/Drosophila larva.		September	Assignments Revision
7.Quantitative estimation of salmon sperm/calf thymus DNA using colorimeter. (Diphenylamine reagent) or spectrophotometer (A260 measurement). 8.Study and interpretation of electron micrographs/photographs showing: DNA replication, Transcription, and Split genes. 9. Educational Trip		October	Revision, Test and Assignments, corrections Educational Trip

Name of teacher

Signature

