

Curriculum plan (Odd Semester 2026)

Teacher Name: **Mr. Vikash yadav**

Paper name **Cell and Molecular Biology Zoo-DSC-14**

Class type: Zoo Hons. III year(V sem) G1& G2

Paper shared with: : Dr. Shanuja Beri

Date	Practical
August/2026	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
August/2026	. 2. Preparation of permanent slides of mitosis/meiosis
September /2026	3. Study of Polytene chromosomes from Chironomous/Drosophila larva
September /2026	4. Inoculation and culture of E. coli in liquid culture medium (LB).
October/2026	5. Preparation of solid culture medium (LB) and growth of E. coli by spreading and streaking.
October /2026	6. Estimation of the growth kinetics of E. coli from the data provided.
October /2026	7. Quantitative estimation of salmon sperm/calf thymus DNA using colorimeter. 157(Diphenylamine reagent) or spectrophotometer (A260 measurement)
November/2026	8. Study and interpretation of electron micrographs/photographs showing: DNA replication, Transcription, and Split genes
November/2026	9. Project related to topics covered in theory/ project report based on visit to labs/institutions/industry etc.
November	REVISION and MOCK PRACTICAL TEST

Name of teacher

Signature