

Curriculum plan (Odd Semester 2025)

Teacher Name: **Dr. Shanuja Beri**

Paper name: **Animal Models and Experimentation (Practical) DSC**

Course: Zoology (Sem VII)

Paper shared with: **Dr. Varsha Singh**

Date	Practical
August	• Selection and Handling of Animal Models Basic handling and restraint techniques for mice, rats, and zebrafish. Observation of behaviour and physiological parameters
September	• Techniques in Experimental Research Induction of disease models (e.g., diabetes with streptozotocin, tumors using carcinogens). Behavioral testing: Maze and anxiety tests. Sample collection: Blood and tissue collection techniques. • Ethical Simulations: Case studies on ethical dilemmas. Mock IAEC proposal writing and review
October	• Histology and Imaging: Preparation of tissues for histological studies. Basic imaging techniques (e.g., fluorescent microscopy • Presentation of Findings - Preparation of Scientific Posters Oral Presentation Skills for Sharing Research Outcomes
November	• Project on any topic/ Project report on visit to any research institute/laboratory to study the research using any animal model. • Revision • Mock