

# Curriculum plan (Odd Semester 2025-2026)

Teacher Name: **Dr. Varsha Singh**

Paper name: Animal Model and Experimentation (**Practical**)

Class type: B. Sc. (H) IV 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.Selection and Handling of Animal Models: Basic handling and restraint techniques for mice, rats, and zebrafish. Observation of behaviour and physiological parameters.  2.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.		August	Assignments
3.Histology and Imaging: Preparation of tissues for histological studies. Basic imaging techniques (e.g., fluorescent microscopy).  4. Ethical Simulations: Case studies on ethical dilemmas. Mock IAEC proposal writing and review		September	Assignments Revision
5. Presentation of Findings - Preparation of Scientific Posters - Oral Presentation Skills for Sharing Research Outcomes 6. Project on any topic/ Project report on visit to any research institute/laboratory to study the research using any animal model.		October	Assignments Revision Educational Visit
Revision and Mock test		November	

Name of teacher Dr. Varsha Singh

Signature