

Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Odd Semester (Semester-V)
Session – 2025-26
Department- Zoology
Name of the Teacher- Dr. Divya Sharma
Class- B.Sc. III (Medical)

Single section

Subject- Zoology

Paper–II: OPTION I: MEDICAL ZOOLOGY & MEDICAL LABORATORY TECHNOLOGY-I
(ZOO-502A)

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
July	24.07.2025	31.07.2025	Introduction to parasitology (pertaining to various terminologies in use). Brief introduction to pathogenic microbes. (Dengue, Chikungunya, Japanese encephalitis, tuberculosis).	Power point presentation, group discussion, assignments, Flipped classroom method
August	01.08.2025	31.08.2025	Epidemic diseases, such as typhoid, cholera, smallpox; their occurrence and eradication programmes.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 27.08.2025 to review the progress of syllabus as per lesson plans				
September	01.09.2025	30.09.2025	Brief accounts of life history, mode of infection and pathogenicity of the following pathogens with reference to man; prophylaxis and treatment: Pathogenic protozoans: <i>Entamoeba</i> , <i>Trypanosoma</i> , <i>Leishmania</i> , <i>Giardia</i> , <i>Trichomonas</i> and <i>Plasmodium</i> . MST	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 24.09.2025 to review the progress of syllabus as per lesson plans				
October	01.10.2025	31.10.2025	Brief accounts of life history, mode of infection and pathogenicity of the following pathogens with reference to man; prophylaxis and treatment: Pathogenic helminths: <i>Fasciolopsis</i> , <i>Schistosoma</i> , <i>Echinococcus</i> , <i>Ancylostoma</i> , <i>Trichinella</i> , <i>Wuchereria</i> , <i>Dracunculus</i> and <i>Oxyuris</i> .	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 29.10.2025 to review the progress of syllabus as per lesson plans				
November	01.11.2025	13.11.2025	Life cycle, disease caused and control measures of arthropod vectors: <i>Anopheles stephensi</i> , <i>A. culicifacies</i> , <i>Aedes aegypti</i> , <i>A. albopictus</i> , <i>Culex fatigans</i> , <i>C. tritaeniorhynchus</i> , <i>Mansonia sp.</i> , <i>Xenopsylla cheopsis</i> , <i>Pediculus</i> . Revision and Class test	Power point presentation, group discussion, assignments, Flipped classroom method
End semester Examination from 14.11.2025 to 26.12.2025				

Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Even Semester (Semester-VI)

Session – 2025-26

Department- Zoology

Name of the Teacher- Dr. Divya Sharma

Class- B.Sc. III (Medical)

Single section

Subject- Zoology

**Paper–II: OPTION I: MEDICAL ZOOLOGY & MEDICAL LABORATORY TECHNOLOGY-
 II (ZOO-602A)**

Month	Date		Topics to be Covered	Academic Activity to be Undertaken
	From	To		
January	10.01.2026	31.01.2026	Brief introduction to Cells, organs, specific and non-specific defense mechanisms. Humoral and cell mediated immune-response, Antigens-physical & chemical properties Antibodies- Structure and function of immunoglobulin M, G, A, E and D. Antigen and antibody interactions: Serodiagnostic assays. Vaccines and their types.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 28.01.2026 to review the progress of syllabus as per lesson plans				
February	01.02.2026	29.02.2026	Biochemistry: Protein estimation, Estimation of blood urea, blood sugar and urine analysis. Histopathology: Common fixatives and staining techniques Laboratory safety rules, hazards and precautions during sample collection and laboratory investigations. Laboratory techniques: Colorimetry, Microscopy (student's and electron microscope), Autoclaving, Centrifugation, Spectrophotometry.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 25.02.2026 to review the progress of syllabus as per lesson plans				
March	01.03.2026	31.03.2026	Hematology: Collection of blood (Venous and Capillary), Anticoagulants (merits and demerits), Romanowsky's stains Bacteriology: Sterilization, (dry heat, moist heat, autoclave, filtration), Disinfection, staining techniques (gram's stain, AFB stain, etc), Culture media (Defined & Synthetic media & routine laboratory media), Bacterial culture (aerobic and anaerobic), Antibiotic sensitivity. MST	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 25.03.2026 to review the progress of syllabus as per lesson plans				
April	01.04.2026	25.04.2026	Histochemistry: Principle and method of Staining of carbohydrates, proteins and fats with bromophenol blue, Periodic acid Schiff, Sudan Black blue and Feulgen reaction. Revision and Class test	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 22.04.2026 to review the completion of syllabus as per lesson plans				
End semester Examination from 27.04.2026 to 05.06.2026				