

Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Odd Semester (Semester-V)
Session – 2023-24

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	21.07.2023	31.07.2023	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
Departmental Meeting on 03.08.2023 to review the progress of syllabus as per lesson plans				
August	01.08.2023	31.08.2023	Epidemic diseases, such as typhoid, cholera, smallpox; their occurrence and eradication programmes.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 02.09.2023 to review the progress of syllabus as per lesson plans				
September	01.09.2023	30.09.2023	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> .	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 03.10.2023 to review the progress of syllabus as per lesson plans				
October	01.10.2023	31.10.2023	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> . MST	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 02.11.2023 to review the progress of syllabus as per lesson plans				
November	01.11.2023	18.11.2023	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 cheopis</i> , <i>Pediculus</i> . Revision and Class test	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 20.11.2023 to review the completion of syllabus as per lesson plans				
End semester Examination 27.11.2023 to 30.12.2023				

Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Even Semester (Semester-VI)
Session – 2023-24
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	09.01.2024	31.01.2024	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 02.02.2024 to review the progress of syllabus as per lesson plans				
February	01.02.2024	29.02.2024	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. MST	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 02.03.2024 to review the progress of syllabus as per lesson plans				
March	01.03.2024	31.03.2024	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.	Power point presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting on 02.04.2024 to review the progress of syllabus as per lesson plans				
April	01.04.2024	22.04.2024	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 24.04.2024 to review the completion of syllabus as per lesson plans				
End semester Examination 02.05.2024 to 05.06.2024				