

Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Odd Semester (Semester-V)
Session – 2022-23

Department- Zoology

Name of the Teacher- Dr. Divya Sharma

Class- B.Sc. III (Medical)

Sections- A & B

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		
August	17.08.2022	31.08.2022	Introduction to parasitology (pertaining to various terminologies in use). Brief introduction to pathogenic microbes. (Dengue, Chikungunya, Japanese encephalitis, tuberculosis).	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 28.08.2023				
September	01.09.2022	30.09.2022	Epidemic diseases, such as typhoid, cholera, smallpox; their occurrence and eradication programmes. 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> .	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.09.2023				
October	01.10.2022	31.10.2022	Brief accounts of life history, mode of infection and pathogenicity of the following pathogens with reference to man; prophylaxis and treatment: Pathogenic helminthes: <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> .	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.10.2022				
November	01.11.2022	25.11.2022	Life cycle, disease caused and control measures of arthropod vectors: <i>Anopheles stephensi</i> , <i>A. culicifaces</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> .	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 22.11.2023				
End semester Examination 28.11.2022 to 31.12.2022				

Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Even Semester (Semester-VI)
Session – 2022-23
Department- Zoology
Name of the Teacher- Dr. Divya Sharma
Class- B.Sc. III (Medical)
Sections- A & B
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	16.01.2023	31.01.2023	Brief introduction to Cells, organs, specific and non-specific defence 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.	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.01.2023				
February	01.02.2023	28.02.2023	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	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.02.2023				
March	01.03.2023	31.03.2023	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.	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.03.2023				
April	01.04.2023	29.04.2023	Histochemistry: Principle and method of Staining of carbohydrates, proteins and fats with bromophenol blue, Periodic acid Schiff, Sudan Black blue and Feulgen reaction.	Powerpoint presentation, group discussion, assignments, Flipped classroom method
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.04.2023				
End semester Examination 02.05.2023 to 03.06.2023				