

Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans- Odd Semester (Semester-I)
Session – 2021-22

Department- Zoology

Names of the Teachers- 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 Undertaken
	From	To		
August	17.08.2021	31.08.2021	Introduction to parasitology (pertaining to various terminologies in use). Brief introduction to pathogenic microbes. (Dengue, Chikungunya, Japanese encephalitis, tuberculosis).	Online lectures through Google meet, PPT, videos
September	01.09.2021	30.09.2021	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> .	Online lectures through Google meet, PPT, videos
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 04.10.2021				
October	01.10.2021	31.10.2021	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> .	Online lectures through Google meet, PPT, videos
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.11.2021				
November	01.11.2021	30.11.2021	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>	Online lectures through Google meet, PPT, videos
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.12.2021				
December	01.12.2021	24.12.2021	Life cycle, disease caused and control measures of arthropod vectors: <i>Culex fatigans</i> , <i>C. tritaeniorhynchus</i> , <i>Mansonia sp.</i> , <i>Xenopsylla cheopis</i> , <i>Pediculus</i> .	Online lectures through Google meet, PPT, videos, PPT and group discussion
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 17.12.2021				
End semester Examination 17.12.2021 to 27.01.2022				

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

Session – 2021-22

Department- **Zoology**

Names of the Teachers- **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 Undertaken
	From	To		
February	03.02.2022	28.02.2022	Brief introduction to Cells, organs, specific and non-specific defence mechanisms. Humoral and cell mediated immune-response, Antigen-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.	Lecture method, PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.03.2022				
March	01.03.2022	31.03.2022	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	Lecture method, PPT, group discussions
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.04.2022				
April	01.04.2022	30.04.2022	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.	Lecture method, PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.05.2022				
May	01.05.2022	25.05.2022	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	Lecture method, PPT
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 26.05.2022				
End semester Examination 26.05.2022 to 05.07.2022				