<u>Lesson Plan</u> Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh **Monthly Teaching Plans- Odd Semester (Semester-V)**

Session – 2024-25

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	Da	nte	Topics to be Covered	Academic Activity		
IVIOILLI	From	То	Topics to be covered	to be Undertaken		
July	22.07.2024	31.07.2024	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	01.08.2024	31.08.2024	Epidemic diseases, such as typhoid, cholera, smallpox; their occurrence and eradication programmes.	Power point presentation, group discussion, assignments, Flipped classroom method		
Departmental Meeting on 27.08.2024 to review the progress of syllabus as per lesson plans						
September	01.09.2024	30.09.2024	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, Trypanosoma, Leishmania, Giardia, Trichomonas and Plasmodium.</i>	Power point presentation, group discussion, assignments, Flipped classroom method		
			MST			
Departmental Meeting on 24.09.2024 to review the progress of syllabus as per lesson plans						
October	01.10.2024	31.10.2024	Brief accounts of life history, mode of infection and pathogenicity of the following pathogens with reference to man; prophylaxis and treatment: Pathogenic helminths: Fasciolopsis, Schistosoma, Echinococcus, Ancylostoma, Trichinella, Wuchereria, Dracunculus and Oxyuris.	Power point presentation, group discussion, assignments, Flipped classroom method		
	Departmenta	al Meeting on 2	29.10.2024 to review the progress of syllabus as per les	son plans		
November	01.11.2024	18.11.2024	Life cycle, disease caused and control measures of arthropod vectors: Anopheles stephensi, A. culicifacies, Aedes aegypti, A. albopictus, Culex fatigans, C. tritaeniorhynchus, Mansonia sp., Xenopsylla cheopsis, Pediculus.	Power point presentation, group discussion, assignments, Flipped classroom method		
	Donoutmontol	Mooting on 16	Revision and Class test	eggon plong		
Departmental Meeting on 18.11.2024 to review the completion of syllabus as per lesson plans End semester Examination 19.11.2024 to 26.12.2024						

Lesson Plan

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

Session – 2024-25

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)

II (ZOO-602A)								
Month		ate	Topics to be Covered	Academic Activity				
	From	To		to be Undertaken				
January	10.01.2025	31.01.2025	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 22.01.2025 to review the progress of syllabus as per lesson plans							
February	01.02.2025	29.02.2025	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 27.02.2025 to review the progress of syllabus as per lesson plans							
March	01.03.2025	31.03.2025	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 27.03.2025 to review the progress of syllabus as per lesson plans								
April	01.04.2025	26.04.2025	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				
	Departmen	tal Meeting on	26.04.2025 to review the completion of syllabus as per les	sson plans				
End semester Examination 28.04.2025 to 04.06.2025								