**Lesson Plan**

**Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans- Odd Semester (Semester-I)**

**Session – 2020-21**

**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)**

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| **Month** | **Date**  | **Topics to be Covered** | **Academic Activity Undertaken** |
| **From** | **To** |  |
| September | 14.09.2020 | 30.09.2020 | Introduction to parasitology (pertaining to various terminologies in use). Brief introduction to pathogenic microbes. (Dengue, Chikangunya, Japanese encephalitis, tuberculosis).  | Online lectures through Google meet, PPT, videos |
| October | 01.10.2020 | 31.10.2020 | 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: *Entamoeba, Trypanosoma, Leishmania, Giardia, Trichomonas and Plasmodium.*  | Online lectures through Google meet, PPT, videos |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.11.2020** |
| November | 01.11.2020 | 30.11.2020 | Brief accounts of life history, mode of infection and pathogenicity of the following pathogens with reference to man; prophylaxis and treatment:Pathogenic helminthes: *Fasciolopsis, Schistosoma, Echinococcus, Ancylostoma, Trichinella, Wuchereria, Dracunculus and Oxyuris.* | Online lectures through Google meet, PPT, videos |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.12.2020** |
| December | 01.12.2020 | 31.12.2020 | Life cycle, disease caused and control measures of arthropod vectors: *Anopheles stephensi, A culicifaces,Aedes aegypti, A. albopictus***MST** | Online lectures through Google meet, PPT, videos |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 03.01.2021** |
| January | 01.01.2021 | 31.01.2021 | Life cycle, disease caused and control measures of arthropod vectors: *Culex fatigans, C.tritaeniorhynchus, Mansonia sp., Xenopsylla cheopis,Pediculus.*  | 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 02.02.2020** |
| February | 01.02.2021 | 10.02.2020 | **REVISION** | ONLINE TESTS AND REVISION LECTURES |

**Lesson Plan**

**Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans- Even Semester (Semester-II)**

**Session – 2020-21**

**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)**

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| --- | --- | --- | --- |
| **Month** | **Date**  | **Topics to be Covered** | **Academic Activity Undertaken** |
| **From** | **To** |
| April | 01.04.2021 | 30.04.2021 | Brief introduction to Cells, organs, specific and non-specific defence mechanisms. Humoral and cell mediated immune-response, Antigens-physical & chemical propertiesAntibodies - 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 plan** |
| May | 01.05.2021 | 31.05.2021 | Biochemistry: Protein estimation, Estimation of blood urea, blood sugar and urine analysis. Histopathology: Common fixatives and staining techniquesLaboratory 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 plan**  |
| June | 01.06.2021 | 30.06.2021 |  **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 plan** |
| July | 01.07.2021 | 31.07.2021 | 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 plan** |