**Lesson Plan**

Name of the Faculty : Ms Monika Khatkar (Visiting Faculty)

Discipline : Medical Lab Technology

Semester : 3rd

Subject : Clinical Microbiology-III

Lesson Plan : 15 weeks (from July -November 2018)

Work load (lecture/practical) per week (in hours) : Lectures-03, practicals-03

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| **Week** | **Theory** | | **Practical** | |
| **Lecture**  **day** | **Topic(including assignment test)** | **Practical**  **Day**  **(2 hours lab each day), (2 hours each day\*2days in week=4 weekly load)** | **Topic** |
| 1st | 1st | Introduction to the whole syllabus of CMB-III | 1st & 2nd | 1. Collection and routine stool examination for detection of intestinal parasites |
| 2nd | **Ch - 1** Introduction to medical parasitology |
| 3rd | General characteristics, morphology, classification of Protozoa,Helminthes |
| 2nd | 4th | Lab samples for detection of parasites collection | 3rd &4th | 1. Experiment on preparation of saline |
| 5th | Parasite transportation |
| 6th | Parasite processing and preservationfor routine investigation –blood ,stool |
| 3rd | 7th | Assignment 1 Protozoa ,Helminthes | 5th & 6th | 1. Experiment on Lugol’s Iodine preparation |
| 8th | Revision of unit 1 |
|  | 9th | Concentration Techniques of stool |
| 4th | 10th | Concentration techniques for demonstration of ova and cysts | 7th & 8th | 1. Experiment on concentration methods   -floatation method(saturated salt solution /zinc sulphate) |
| 11th | Revision of unit 2 |
| 12th | Giardia morphology ,life cycle ,lab diagnosis |
| 5th | 13th | Entamoeba histolytica morphology ,life cycle ,lab diagnosis | 9th & 10th | 5. Experiment on sedimentation method(formal ether) |
| 14th | Revision of unit 3 |
| 15th | Ancylostoma morphology ,life cycle ,lab diagnosis |
| 6th | 16th | Ascaris lumbricoides morphology ,life cycle ,lab diagnosis | 11th & 12th | 6. Identification of adult worms/cyst from preserved specimen Tape,Hook,Roundworm, |
| 17th | Revision of unit 4 |
| 18th | T solium, T saginata morphology ,life cycle ,lab diagnosis |
| 7th | 19th | Malarial parasite morphology ,life cycle ,lab diagnosis | 13th & 14th | 7. Identification of Ecoli,Giardia,Entamoeba |
| 20th | Revision of unit 5 |
| 21st | Virology - introduction |
| 8th | 22nd | Virology characteristics, classification | 15th & 16th | 8. Preparation of stains(Leishman,Giemsa) |
| 23rd | Medically important viruses rabies |
| 24th | Revision of unit 6 |
| 9th | 25th | Polio pathogenicity,lab diagnosis,prevention | 17th &18th | 9. Preparation of thick and thin smear |
| 26th | HIV pathogenicity,lab diagnosis,prevention |
| 27th | HBV pathogenicity,lab diagnosis,prevention |
| 10th | 28th | Revision of unit 7 | 19th &20th | 10. Staining of smears |
| 29th | Virological sample |
| 30th | Transportation of virology sample |
| 11th | 31st | Revision of unit 8 | 21st &22nd | 11. Examination of smears for malarial parasite |
| 32nd | Storage of virology sample |
| 33rd | Revision of unit 9 |
| 12th | 34th | Doubt class of unit 1 to 4 | 23rd & 24th | 12. Demo of various stages of malarial parasite from stained slide. |
| 35th | Test of unit 1 to 4 |
| 36th | Doubt of unit 5 to 8 |
| 13th | 37th | Test of unit 5 to 8 | 25th & 26th | Problem solving seesions of students in practicals |
| 38th | Revision of unit 9,10 |
| 39th | Test of unit 9,10 |
| 14th | 40th | Revision of unit 11 | 27th & 28th | VIVA |
| 41st | Test of unit 11 |
| 42nd | Presenatation of unit 1 to 6 |
| 15th | 43th | Presentation of unit 7 to 11 | 29th & 30th | Revision of experiments |
| 44th | Doubt class |
| 45th | Revision of whole syllabus |