

Medical Microbiology I

Level: 2nd Class, 1st Semester

Credit hours/week: 1

Reference text: *Lab Manual for Practical Medical Microbiology Adopted by the Department.*

No	Lecture Title	Hour(s)
1	Orientation to the laboratory. Rules of conduct and general safety. Microscopic techniques. Bright-field light microscope.	2
2	Examination of stained microorganisms; Smear preparation and simple staining; Gram staining.	2
3	The hanging drop slide and bacterial motility; Acid-fast staining procedure.	2
4	Bacterial spores and endospores staining; Microbiological culture media and sterilization; Methods of inoculation and isolation of pure culture.	2
5	Action of dyes and antibiotics; Enzymes assays for some specific microbial enzymes.	2
6	Assays for specific metabolic activities; Acid and gas production from: Carbohydrate fermentation; Triple sugar iron agar test; IMVIC tests.	2
7	Systemic bacteriology: Staphylococci spp.	2
8	Streptococci species.	2
9	Salmonella species.	2
10	Shigella species.	2

11	Pseudomonas species.	2
12	Proteus species.	2
13	<i>Escherichia coli</i>	2
14	Klebsiella species.	2
15	<i>Candida albicans.</i>	2

Medical Virology and Parasitology II

Level: 2nd Class, 2nd Semester

Credit hours/week : 1

Reference text: *Lab Manual for Practical Virology and Parasitology Adopted by the Department.*

No	Lecture Title	Hour(s)
1	Introduction and classification of the human parasites.	2
2	Intestinal protozoa: <i>Entamoeba histolytica</i>.	2
3	Commensal amoeba; <i>Entamoeba coli</i>; <i>Endolimax nana</i>; <i>Iodamoeba buetschillii</i>.	2
4	Flagellate of digestive tract: <i>Giardia lamblia</i>; <i>Chilomastix mesenili</i>.	2
5	Flagellate of genital organs: <i>Trichomonas vaginalis</i>; Ciliate protozoa; <i>Balantidium coli</i>.	2
6	Flagellate of blood and tissues: <i>Leishmania donovani</i>; <i>Leishmania tropica</i>.	2
7	<i>Trypanosoma gambiens</i>; <i>Trypanosome rhodesiense</i>; <i>Trypanosoma cruzi</i>.	2
8	Malarial parasite: Life cycle of <i>Plasmodium</i> species; <i>Plasmodium vivax</i>; <i>Plasmodium falciparum</i>.	2
9	<i>Plasmodium malariae</i>; <i>Plasmodium ovali</i>.	2

10	<i>Toxoplasma gondii</i> ; Cestoidea; <i>Taenia saginata</i> ; <i>Taenia solium</i> .	2
11	<i>Hymenolepis nana</i> ; <i>Echinococcus granulosus</i> ; <i>Echinococcus multilocularis</i> .	2
12	Trematoda: Life cycle of <i>Schistoma</i> species; <i>Schistoma japonicum</i> ; <i>Schistoma mansoni</i> ; <i>Schistoma haematobium</i> .	2
13	Nematoda: <i>Trichurs trichuira</i> ; <i>Entrobis vermicularis</i> .	2
14	<i>Ascaris lumbricoides</i> ; <i>Ancylostoma duodenale</i> .	2
15	Methods of diagnosis of parasites.	2