

DEPARTMENT OF MICROBIOLOGY**II MBBS - IIIrd TERM****TEACHING SLOTS - THEORY**

Ser. No.	Topic
I	GENERAL MICROBIOLOGY - 1 hour each
1	Introduction to Microbiology & Historical Background
2	Classification & Morphology of Bacteria
3	Growth, Nutrition & Metabolism of Bacteria
4	Sterilisation
5	Disinfection
6	Bacterial Genetics
7	Antimicrobial Agents & Drug Resistance
8	Normal Flora
9	Infection
10	Waste Management
II	IMMUNOLOGY - 1 hour each
1	Immunity
2	Antigen
3	Antibody
4	Structure & Function of Immune System
5	Immune Response
6	Complement System
7	Antigen Antibody Reactions 1/2
8	Antigen Antibody Reactions 2/2
9	Hypersensitivity
10	Autoimmunity & Immunodeficiency Diseases
11	Transplantation & Tumour Immunology
III	PARASITOLOGY - 1 hour each
1	Introduction to Medical Parasitology
2	E. histolytica
3	Free living amoebae & flagellates
4	Malaria
5	Haemoflagellates
6	Misc. Protozoa
7	Cestodes 1/2
8	Cestodes 2/2
9	Trematodes
10	Intestinal Nematodes 1/2
11	Intestinal Nematodes 2/2
12	Tissue Nematodes 1/2
13	Tissue Nematodes 2/2

DEPARTMENT OF MICROBIOLOGY

II MBBS - IVth & Vth TERM

TOPICS - THEORY

Ser. No.	Topic
I	SYSTEMIC BACTERIOLOGY - 1 hour each
1	Staphylococcus
2	Streptococcus 1/2
3	Streptococcus 2/2
4	Neisseria
5	C. diphtheriae
6	Bacillus. Methods of Anaerobiosis & Classification. Non Sporing Anaerobes
7	Clostridium
8	Enterobacteriaceae
9	Shigella
10	Salmonella
11	Vibrio
12	Pseudomonas, Campylobacter & Helicobacter
13	Other GNB : Haemophilus, Brucella, Bordetella, Yersinia
14	Mycobacterium tuberculosis
15	Atypical Mycobacteria
16	M. leprae
17	Miscellaneous Bacteria
18	Spirochaetes
19	Actinomycetes & Mycoplasma
20	Rickettsia
21	Chlamydia
22	Bacteriology of Air, Water, Milk and Food
II	VIROLOGY - I hour each
1	General Virology
2	Virus Host Interactions & Laboratory Diagnosis of Viral Infections
3	Bacteriophage
4	DNA Viruses 1/2
5	DNA Viruses 2/2
6	Orthomyxoviruses & Paramyxoviruses
7	Picornaviruses
8	Hepatitis Viruses
9	Arboviruses
10	Rhabdoviruses
11	Retroviruses
12	Slow Miscellaneous & Oncogenic Viruses
III	Mycology - 1 hour each
1	Introduction to Mycology

2	Superficial Mycoses
3	Subcutaneous Mycoses
4	Systemic Mycoses
5	Opportunistic Fungal Infections
6	Miscellaneous Mycoses
IV	APPLIED MICROBIOLOGY (TUTORIALS)
1	Gastrointestinal Infections
2	Upper Respiratory Tract Infections
3	Lower Respiratory Tract Infections
4	Urinary Tract Infections
5	Infections of the Central Nervous System.
6	Wound Infections and Pyogenic Infections
7	Septicaemia and PUO
8	Sexually Transmitted Diseases
9	Newer Techniques in Diagnostic Microbiology
10	Nosocomial Infections
11	Entomology
12	Preventive Inoculations, Immunomodulation and Immunotherapy.
13	Molecular Techniques in Diagnostic Microbiology

DEPARTMENT OF MICROBIOLOGY
II MBBS - IIIrd TERM

TEACHING SLOTS - PRACTICALS

Ser. No.	TOPIC
1	Laboratory Instructions & Biosafety
2	Microscope & Micrometry
3	Gram Stain
4	Hanging Drop
5	Demonstration of Spots.
6	Sterilisation & Disinfection 1/2 (Demonstration)
7	Sterilisation & Disinfection 2/2 (Demonstration)
8	Culture Media 1/2 (Demonstration)
9	Culture Media 2/2 (Demonstration)
10	Culture Methods - Aerobic & Anaerobic
11	Biochemical Reactions 1/2 (Demonstration)
12	Biochemical Reactions 2/2 (Demonstration)
13	Antibiotic Sensitivity Tests
14	Visit to CSSD & Incinerator Site
15	Serological Tests for Diagnosis of Microbial Infections 1/2
16	Serological Tests for Diagnosis of Microbial Infections 2/2
17	Stool Examination (Demonstration)
18	Stool Examination (Normal Constituents)
19	Stool Examination for Cysts/Ova
20	Malaria & Leishmania - Demonstration of Slides
21	Parasitology - Demonstration of Cestodes, Trematodes
22	Parasitology - Demonstration of Nematodes
23	Discussion - Clinical Problems (Parasitology)

DEPARTMENT OF MICROBIOLOGY

II MBBS - IVth & Vth TERM

TOPICS - PRACTICALS

Ser. No.	TOPIC
1	Collection , Transportation & Processing of Samples
2	Colony Morphology
3	Revision - Biochemical Reactions
4	Staphylococcus
5	Streptococci
6	Gram Negative Cocci
7	C. diphtheriae
8	Albert Stain (Demonstration)
9	Albert Stain
10	E. coli
11	Klebsiella
12	Proteus
13	Salmonella
14	Shigella
15	Pseudomonas
16	Mycobacteria (Demonstration)
17	ZN Stain (Demonstration)
18	ZN Stain
19	Candida
20	Mycology 1/2
21	Mycology 2/2
22	Mycology - Slides (Demonstration)
23	Virology - Egg Inoculation

24	Vaccines (Demonstration)
25	Laboratory Animals (Demonstration)
26	Entomology (Demonstration)
27	Bacteriology of Air (Demonstration)
28	Bacteriology of Water (Demonstration)
29	Discussion - Clinical Problems 1/2
30	Discussion - Clinical Problems 2/2
31	Revision - Media
32	Revision - Instruments
33	Revision - Slides
34	Revision - Specimens
35	Revisions - Some Important Practicals - Remaining Classes