

# MICROBIOLOGY SYLLABUS FOR 3<sup>RD</sup> YEAR

## M.B.CH.B.STUDENTS

DEPARTMENT OF MICROBIOLOGY – COLLEGE OF MEDICINE – UNIVERSITY  
OF BASRAH

( 80 hours with discussions )

Topic	Hrs	Lecturer
<b>Part I. GENERAL BACTERIOLOGY</b>	<i>11 hrs</i>	
Classification of bacteria	1	<b>Dr. Sundis S. Bakr</b>
Structure of bacterial cell	1	<b>Dr. Sundis S. Bakr</b>
Growth , survival and death of bacteria	1	<b>Dr. Hanadi A. Jassim</b>
Cultivation of bacteria	1	<b>Dr. Ihsan E. Alsaimary</b>
bacterial metabolism : elements , cycles , regulation & applications	2	<b>Dr. Ihsan E. Alsaimary</b>
Bacterial genetics: Concepts, replication , mutation,regulation, genetic recombination & applications	2	<b>Dr. Ihsan E. Alsaimary</b>
Sterilization & disinfectants	1	<b>Dr. Sundis S. Bakr</b>
Pathogenesis of bacterial infections	1	<b>Dr. Sundis S. Bakr</b>
Antimicrobial chemotherapy	1	<b>Dr. Hanadi A. Jassim</b>
<b>Part II. SYSTEMATIC MEDICAL BACTERIOLOGY</b>	<i>26hrs</i>	
Gram positive cocci: <i>Staphylococcus , Streptococcus &amp; Enterococcus</i>	3	<b>Dr. Ihsan E. Alsaimary</b>
Spore forming Gram positive bacilli (aerobic & anaerobic): <i>Bacillus &amp; Clostridium</i>	3	<b>Dr. Hanadi A. Jassim</b>
<i>Propionibacterium , Listeria</i> Non spore forming Gr+ve bacilli: <i>Corynebacterium</i> & related sp.	2	<b>Dr. Hanadi A. Jassim</b>
<i>Mycobacterium</i>	2	<b>Dr. Sundis S. Bakr</b>
Enteric Gr-ve rodes: Enterobacteriaceae <i>E.coli , Klebsiella , Proteus , Pseudomonas , Acinetobacter, Shigella , Salmonella &amp; others</i>	4	<b>Dr. Sundis S. Bakr</b>
<i>Yersinia , Francisella &amp; Pasteurella</i>	1	<b>Dr. Sundis S. Bakr</b>
<i>Vibrio , Aeromonas , Plesiomonas &amp; others</i>	1	<b>Dr. Ihsan E. Alsaimary</b>
<i>Campylobacter , Helicobacter &amp; associated bacteria</i>	1	<b>Dr. Ihsan E. Alsaimary</b>
<i>Haemophilus , Bordetella and Brucella</i>	1	<b>Dr. Hanadi A. Jassim</b>
<i>Legionella &amp; unusual bacterial pathogens</i>	1	<b>Dr. Hanadi A. Jassim</b>
<i>Mycoplasma &amp; cell wall defective bacteria</i>	2	<b>Dr. Ihsan E. Alsaimary</b>
Rickettsial diseases	2	<b>Dr. Ihsan E. Alsaimary</b>

STD pathogens: <i>Neisseria</i> , <i>Chlamydia</i> Spirochaetes & other spiral bacteria	3	<b><i>Dr. Sundis S. Bakr</i></b>
<b><i>Part III . GENERAL VIROLOGY</i></b>	3 hrs	
General properties & Classification of viruses cultivation Replication of viruses Natural history & mode of transmission Pathogenesis & control of viral diseases Prevention & treatment of viral diseases	3	<b><i>Dr. Hassan J.Hasony</i></b>
<b>Part IV .SYSTEMIC MEDICAL VIROLOGY</b>	11 hrs	
parvovirus	1	<b><i>Dr. Hassan J.Hasony</i></b>
adenovirus & poxvirus	1	
Herpes viruses : HSV-1 , HSV-2 , V2V , CMV , EBV	1	
Orthomyxoviruses	1	
Paramyxovirus & Rubella viruses	1	
picornaviruses	1	
Viral hepatitis	1	
Viral gastroenteritis	1	
arbovirus	1	
Oncogenic viruses	1	
Retroviruses & HIV infection	1	
<b>Part V. BASIC &amp; CLINICAL IMMUNOLOGY</b>	14 hrs	
Basis of body defenses: specific & non specific	1	<b><i>Dr. Thuraya Jaafer</i></b>
immune responses	1	
Immunoglobulins	1	
Antigen-antibody reactions	1	
The complement system	1	
Cell mediated immunity	2	
MHC: structure & diseases	1	
Hypersensitivity reactions	1	
Immunologic tolerance	1	
Transplantation immunology	1	
Autoimmunity & autoimmune diseases	1	
Immunodeficiency diseases	1	
Tumor immunity	1	
<b>Part VI. MEDICAL MYCOLOGY</b>	3 hrs	
Structure,classification, superficial mycosis , subcutaneous mycosis, systemic mycosis and opportunistic fungi	3	<b><i>Dr. Hassan J.Hasony</i></b>

***Dr. Hassan J.Hasony*** : 17 hrs

***Dr. Sundis S. Bakr*** : 14hrs

***Dr. Ihsan E. Alsaimary*** : 14 hrs

***Dr. Thuraya Jaafer*** : 14 hrs

***Dr. Hanadi A. Jassim*** : 9 hrs