

**Course Title: IMMUNOLOGY**  
**Academic year 2011 / 2012**

**First Year / Second Semester**

CODE	COURSE TITLE	TIME	FORM	WEEK
<b>IMMUNOLOGY</b>				
0712IMM1Gen01	Physiological function of immune system	1hr	L	2
0712IMM1Gen02	Structure of immune system	1hr	L	2
0712IMM1Gen03	Innate immune response	1hr	L	3
0712IMM1Gen04	Innate immune response	1hr	L	3
0712IMM1Gen05	Antigen & Immunogen	1hr	L	3
0712IMM1Gen06	Antibodies 1	1hr	L	4
0712IMM1Gen07	Antibodies 2	1hr	L	4
0712IMM1Gen08	Complement System 1	1hr	L	5
0712IMM1Gen09	Cytokines	1hr	L	5
0712IMM1Gen10	Antigen antibody Reaction 1	1hr	L	6
0712IMM1Gen11	Antigen antibody reaction 2	1hr	L	6
0712IMM1Gen12	Humoral immune response	1hr	L	6
0712IMM1Gen13	Cell mediated immune response 1	1hr	L	7
0712IMM1Gen14	Cell mediated immune response 2	1hr	L	7
0712IMM1Gen15	MHC system & immune response	1hr	L	7
0712IMM1Gen16	Hypersensitivity 1	1hr	L	8
0712IMM1Gen17	Hypersensitivity 2	1hr	CBL	9
0712IMM1Gen18	Hypersensitivity 3	1hr	L	9
0712IMM1Gen19	Tumor immunology	1hr	L	10
0712IMM1Gen20	Immunodeficiency disorders1	1hr	L	10
0712IMM1Gen21	Immunodeficiency disorders2	1hr	L	11
0712IMM1Gen22	Immune tolerance	1hr	L	12
0712IMM1Gen23	Auto immune diseases	1hr	L	13
0712IMM1Gen24	Transplantation Immunity1	1hr	L	13
0712IMM1Gen25	Transplantation immunity2	1hr	CBL	14
0712IMM2Gen01	Practical	4hr	P	15

**Second Year / First Semester**

CODE	COURSE TITLE	TIME	FORM	WEEK
<b>GENERAL MICROBIOLOGY</b>				
0821MIC1Gen01	Introduction to Microbiology and Bacterial Taxonomy	1hr	L	1
0821MIC1Gen02	Microscopy and morphology of Bacteria-II	1hr	L	1
0821MIC1Gen03	Microscopy and morphology of Bacteria-III	1hr	L	1
0821MIC1Gen04	Bacterial growth	1hr	L	1
0821MIC1Gen05	Preparation of smear and Gram staining	1hr	P	2
0821MIC1Gen06	Gram stain and Zeihel neelsen staining	2hrs	P	2
0821MIC1Gen07	Culture media	1hr	P	2

0821MIC1Gen08	Culture methods and types of media	1hr	L	3
0821MIC1Gen09	Identification of bacteria-Traditional methods	1hr	L	3
0821MIC1Gen10	Identification of bacteria non-Traditional methods	1hr	L	3
0821MIC1Gen11	Cultivation of micro-organisms	1hr	P	3
0821MIC1Gen12	Anaerobic cultivation	1hr	P	3
0821MIC1Gen13	Biochemical reactions	1hr	P	4
0821MIC1Gen14	Microbial Pathogenicity	1hr	L	4
0821MIC1Gen15	Sterilization and disinfection 1	1hr	L	4
0821MIC1Gen16	Sterilization and disinfection 2	1hr	L	4
0821MIC1Gen17	Sterilization and disinfection	1hr	P	5
0821MIC1Gen18	Antimicrobial. Chemotherapy 1	1hr	L	5
0821MIC1Gen19	Antimicrobial. Chemotherapy 2	1hr	P	5
0821MIC1Gen20	Streaking and plating out of bacteria	1 hr	P	5
<b>General Mycology and Virology</b>				
0821MIC1Gen21	General mycology 1	1hr	L	6
0821MIC1Gen22	General mycology 2	1hr	L	6
0821MIC1Gen23	Mycology	2hr	P	6
0821MIC1Gen24	General properties of viruses	1hr	L	7
0821MIC1Gen25	Virus host interaction & viral replication	1hr	L	7
0821MIC1Gen26	Bacteriophage	1hr	L	7
0821MIC1Gen27	Antiviral drugs vaccines/interferon	1hr	L	8
0821MIC1Gen28	Lab diagnosis of viral infections	1hr	L	8
0821MIC1Gen29	Microbial Genetics	2 hr	L	9
0821MIC1Gen30	Microbial Genetics	2 hr	L	9
<b>GASTROINTESTINAL TRACT</b>				
0821MIC1GIT31	Introduction to Gastro intestinal tract infections	1hr	L	11
0821MIC1GIT32	Bacillus Cereus& Vibrio parahemolyticus	1hr	L	11
0712IMM2GIT01	<b>Bacillus Cereus</b>	<b>hr 1</b>	<b>P</b>	11
0821MIC1GIT33	Clostridium Perfringes ClosteridiumBotulinum	1hr	L	11
0821MIC1GIT34	<b>Clostridium difficile</b>	<b>1hr</b>	<b>P</b>	11
0821MIC1GIT35	Listeria monocytogenes, Brucella	1hr	L	12
0712IMM2GIT02	<b>Listeria monocytogenes, Brucella</b>	<b>1hr</b>	<b>P</b>	12
0821MIC1GIT36	Campylobacter jejuni,Helicobacter pylori	1hr	L	12
0712IMM2GIT03	<b>Campylobacter jejuni,Helicobacter pylori</b>	<b>1hr</b>	<b>P</b>	12
0821MIC1GIT37	Esch. Coli	1hr	L	12
0821MIC1GIT38	Salmonella Typhi & paratyphi	2hrs	CBL	13
0821MIC1GIT39	Shigella species	1Hr	L	13
0821MIC1GIT40	Vibrio cholera	1hr	L	13
0712IMM2GIT04	<b>Shigella,Salmonella,</b>	<b>1hr</b>	<b>P</b>	13
0712IMM2GIT05	<b>Vibrio cholera,E.coli</b>	<b>1hr</b>	<b>P</b>	14
0821MIC1GIT41	Yersinia enterocolitica	1hr	L	14
0821MIC1GIT42	Salmonella typhi murium& enteritidis	1hr	L	14
0821MIC1GIT43	Rotavirus,Norwalk virus& adenovirus &Astrovirus	1hr	L	14
0821MIC1GIT44	Hepatitis virus	3hr	L	14

0712IMM2GIT06	Virus, Leptospira, Hepatitis	1hr	P	15
0821MIC1GIT45	Food poisoning	2hr	L	15
0821MIC1GIT46	Viruses causing GIT infection	1hr	L	15
MOLECULAR GENETICS				
0821MIC1Mol47	Bacterial genetics introduction	2hr	L	10
0821MIC1Mol48	Mutation	2hr	L	10
0821MIC1Mol49	Recombinant technology,PCR.Blotting Technique	1hr	L	10

**Second Year / Second Semester**

CODE	COURSE TITLE	TIME	FORM	WEEK
CARDIOVASCULAR SYSTEM				
0822MIC1CVS01	Staphylococcus	1hr	L	3
0822MIC1CVS02	Staphylococcus	1hr	L	
0822MIC1CVS03	Streptococcus	1hr	CBL	
0822MIC1CVS04	Haemophilus Influenza	1hr	L	4
0822MIC1CVS05	Picornavirus	1hr	L	4
0822MIC1CVS06	Haemorrhagic fever virus	1hr	L	
0822MIC1CVS07	Haemorrhagic fever virus	1hr	CBL	5
0822MIC1CVS08	Haemophilus Staphylococcus,Streptococcus	1hr	P	
RESPIRATORY SYSTEM				
UPPER RESPIRATORY SYSTEM				
0822MIC1Res01	Respiratory Tract Infection:Introduction	1hr	L	9
0822MIC1Res02	Rhinoviruses, Adenoviruses, Corona viruses	1hr	L	
0712IMM2Res07	Rhinoviruses, Adenoviruses, Corona viruses	1hr	P	10
0822MIC1Res03	Corynaebacterium Diptheriae	1hr	CB L	10
0712IMM2Res08	Corynaebacterium Diptheriae	1hr	P	
0822MIC1Res04	Enterovirus, Ebstein Barr Virus, Measles	1hr	L	11
0822MIC1Res05	K.Rhinoscleromatis, Borrelia Vincenti	1hr	L	
0822MIC1Res06	Influenza viruses	1hr	L	
0822MIC1Res07	Bordetella pertussis	1hr	L	
0712IMM2res09	Vruses causing resp. infection	1hr	P	
Lower Respiratory Tract Infection:				
0822MIC1Res08	Mycobacterium Tuberculosis 1	1hrs	CBL	12
0822MIC1Res09	Mycobacterium Tuberculosis 1	1hr	L	
0712IMM2Res10	Mycobacterium Tuberculosis 1,	1hr	P	13
0822MIC1Res10	Pneumococci	1hr	L	
0822MIC1Res11	Klebsiella pneumoniae	1hr	L	
0712IMM2Res11	Pneumococci, Klebsilla pneumoniae	1hr	P	14
0822MIC1Res12	Pseudomonas	1hr	L	
0822MIC1Res13	Mycoplasma pneumoniae	1hr	L	
0712IMM2Res12	Pseudomonas/ mycoplasma	1hr	P	
0822MIC1Res14	Chlamydia (Psittaci, Pneumoniae)	1hr	L	
0822MIC1Res15	Legionella pneumophila	1hr	L	15
0822MIC1Res16	Coxiella Brunietti	1hr	L	

0822MIC1Res17	Bacillus anthracis	1hr	L	15
0822MIC1Res18	Fungal infections of the respiratory tract	1hr	L	
<b>Urinary Tract infection</b>				
0822MIC1US01	Urinary Tract infection- introduction	1hr	L	16
0822MIC1US02	Organisms causing urinary tract infection	1hr	CBL	16
0822MIC1US03	Uropathogenic Escherichia coli	2hr	L	16
0712IMM2US13	Proteus, Klebsiella, Pseudomonas aeruginosa	1hr	P	17
0822MIC1US04	Urethritis	1hr	L	17
0822MIC1US05	Pyelonephritis	1hr	L	17
<b>Misselenous</b>				
0822MIC1Mis06	Skin infections	1hr	L	1
0822MIC1Mis07	Hospital acquired infection	2hr	L	2

### Third Year / First Semester

CODE	COURSE TITLE	TIME	FORM	WEEK
<b>Central nervous system</b>				
0831Mic1CNS01	<b>Acute Bacterial (septic) meningitis</b>	hrs 2	L	1
	Haemophilus Influenza			
	Neisseria meningitis			
	Streptococcus pneumonia			
	Streptococcus agalactiae			
	Listeria monocytogenes			
0831Mic1CNS02	<b>Viral (aseptic) meningitis</b>	1 hr	L	2
	Enteroviruses			
	Herpes viruses			
	ADENO VIRUS			
	Mumps virus			
	Poliomyelitis virus			
0831Mic1CNS03	<b>Fungal Infections of CNS</b>	1 hr	L	2
	Cryptococcus neoformans			
	Candida species			
	Aspergillus species			
	Zygomycetes			
0831Mic1CNS04	<b>Encephalitis</b>	1 hr	L	2
	Arbo virusrs			
	Herpes simplex viruses			
	Rabies virus			
	Varicella-zoster virus			
	Measles virus			
0831Mic1CNS05	<b>Abscess of Brain</b>	1 hr	L	3
	Staph Aureus			
	Strept. Viridians			
	Hemolytic streptococci			
	Bacteroides			
0831Mic1CNS06	<b>Chronic CNS infection</b>	1 hr	L	4

	Treponema Pallidum			
	Mycobacterium Tuberculosis			
	Borrelia Burgdorferi			
	Cryptococcus neoformans			
	Human immunodeficiency virus			
0831Mic1CNS07	<b>Transmissible spongiform encephalopathies (TSE)</b>			
<b>0831Mic2CNS01</b>	<b>Practical</b>	<b>1 hr</b>	P	5
<b>Reproductive System</b>				
0831Mic1Rep08	Infections of the reproductive system	hour 1	L	6
0831Mic1Rep09	Sexually Transmitted diseases.			
	Organisms transmitted sexually: Gonococci, Treponema pallidum , Human immunodeficiency virus , Chlamydia trachomatis (D-K & L1,L2,L3) ,Human papilloma virus, Herpes simplex virus type2, Haemophilus ducreyi, Candida albicans, Mycoplasma hominis, Ureaplasma genitalum, Klebsiella garnulomatis , Molluscum contagiosum virus, Mycoplasma genitalium.			
0831Mic1Rep10	<b>Gonorrhea</b>	1 hr	L	7
	Neisseria gonorrhoea			
0831Mic1Rep11	<b>Syphilis</b>	1 hr	L	9
	Treponema Pallidum			
0831Mic1Rep12	<b>Human Immunodeficiency virus</b>			
	Acquired immunodeficiency syndrome	1 hr	L	10
0831Mic1Rep13	<b>Chlamydiae trachomatis genital</b>	2 hr	L	12
	Infection			
0831Mic1Rep14	<b>Vaginitis</b>			
	Candidiasis			
	Bacterial vaginosis			
	Herpes simplex virus			
0831Mic1Rep15	Cervical Infections	1hr	L	13
0831Mic1Rep16	Pelvic Inflammatory diseases (PID)			
<b>0831Mic2Rep02</b>	<b>Practical</b>	<b>1 hr</b>	P	13