

DEPARTMENT OF MEDICAL MICROBIOLOGY & IMMUNOLOGY

LECTURES AND PRACTICALS SCHEDULE IN MEDICAL BACTERIOLOGY AND MYCOLOGY

2022/2023

HMM 601 and HMM 602 MASTER OF SCIENCE IN MEDICAL MICROBIOLOGY (MSc. Med Micro)

**WID 605 and WID 606 MASTER OF SCIENCE IN TROPICAL AND INFECTIOUS DISEASES
(MSc.TID)**

HHP 801 MASTER OF MEDICINE IN HUMAN PATHOLOGY (MMed. Pathology PART 1 Y 2)

METHODS OF DELIVERY 1. LECTURES and SEMINARS are online or face to face 2. PRACTICALS are hands on

DAY / DATE	LECTURES		PRACTICALS/ILLUSTRATIONS 2.00 p.m. to 5.00 p.m.
	9.00 a.m.-10.30 a.m.	11.00 a.m. to 1.00 p.m.	
MONDAY 27/02/2023	Introduction Classification and taxonomy of bacteria Dr. P. Odhiambo	Bacterial physiology Bacterial cell structure Dr. A. Maina	Introduction to Medical Bacteriology Laboratory practical methods J.Oloo; T. Githinji; W. Gitau; F Mose; F. Muthini

DAY / DATE	LECTURES		STUDENTS' SEMINARS 12.00 to 1.00 p.m.	PRACTICALS/ILLUSTRATIONS 2.00 to 5.00 p.m.
	9.00 a.m. to 10.30 a.m.	11.00 a.m.to 12.00		
TUESDAY 28/02/2023	Bacterial cell genetics Dr. M. Mureithi	Pathogenicity and infection Bacterial normal flora Dr. W. Mutai	Safety in Microbiology laboratory	Continuation of Introduction to Med Microbiology practicals Safety in microbiology laboratory J.Oloo; T. Githinji; W. Gitau; F Mose; F. Muthini
WEDNESDAY 01/03/2023	Staphylococci and Micrococci Dr. W. Mutai	Sterilization and Disinfection Dr. S. Odera	Quality control in Microbiology laboratory	Practical methods Quality control staphylococci
THURSDAY 02/03/2023	Streptococci Dr. M. Mureithi		Bacterial growth media and media preparation	Sterilization and Disinfection Streptococci

FRIDAY 03/03/2023	Antibacterial antimicrobial agents Dr. F. Mutua		Antimicrobial resistance by bacteria (1) Antimicrobial agents susceptibility tests methods (2)	Antimicrobial susceptibility tests
DAY / DATE	LECTURES 9.00 a.m. to 11.30a.m.		STUDENTS' SEMINARS 12.00 noon to 1.00 p.m.	PRACTICALS / ILLUSTRATIONS 2.00 p.m. to 5.00 p.m.
MONDAY 06/03/2023	Corynebacterium Bacillus Lactobacilli Listeria Actinomycetes Dr. P. Odhiambo		Staining techniques in bacteriology	Corynebacterium Bacillus Actinomycetes
TUESDAY 07/03/2023	9.00 a.m. to 10.30 a.m.	10.30 a.m. to 12.00	Differentials of Gram positive organisms	Haemophilus Yersinia
	Haemophilus Brucella Bordetella Dr A. Maina	Yersinia Francisella Pasteurella Dr. M. Mureithi		
WEDNESDAY 08/03/2023	Neisseria Moraxella Dr. A. Maina		Future prospects for <i>Neisseria gonorrhoeae</i> treatment	Neisseria
THURSDAY 09/03/2023	Chlamydiae Mycoplasmas Dr. S. Odera		Microscopy	Neisseria
FRIDAY 10/03/2023	Anaerobic bacteria Clostridia Bacteroides others Dr. P. Odhiambo		Anaerobic culture techniques	Anaerobic organisms and culture techniques
MONDAY 13/03/2023	Mycobacteria Dr. M. Mureithi		Automated techniques in clinical bacteriology (1) Laboratory animals (2)	Laboratory methods of Investigation of mycobacterial infections
TUESDAY 14/03/2023	Enterobacteriaceae general Klebsiella Escherichia Proteus and others Dr. F. Mutua		Extended spectrum beta-lactamases and Carbapenem resistant Enterobacteriaceae	Enterobacteriaceae general Klebsiella Escherichia Proteus
WEDNESDAY 15/03/2023	Salmonella Shigella Pseudomonas Dr. S. Odera		Pathogenicity islands and molecular mechanisms of Salmonella enteric infections	Salmonella Shigella Pseudomonas
THURSDAY 16/03/2023	Vibrios Campylobacter Helicobacter Dr. W. Mutai		Rickettsiaceae (1) Differentials of Gram negative organisms (2)	Vibrios Campylobacter

FRIDAY 17/03/2023	Spirochaetes general Treponema Borrelia Leptospira Dr. A. Maina	Serological tests in bacteriology in general Syphilis serology	Illustrations on spirochaetes and serological tests for syphilis
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DATE	LECTURES 9.00 a.m to 11.30a.m.		STUDENTS' SEMINARS 12.00 noon to 1.00 p.m.	PRACTICALS / ILLUSTRATIONS 2.00 p.m. to 5.00 p.m.
MONDAY 20/03/2023	Public Health Microbiology		Bacterial food poisoning	Public Health Microbiology Water and Food
	9.00 to 10.30a.m.	11.00 to 12.00 noon		
	Water and Sewage Dr. S. Odera	Food Dr. P. Odhiambo		
TUESDAY 21/03/2023	Urinary Tract Infection Dr. S. Odera		Intra-abdominal infections Puerperal sepsis Dr. F. Mutua	Laboratory methods on examination of urine specimen Commonly isolated causative agents of UTI
WEDNESDAY 22/03/2023	Dermal Infections Musculoskeletal Infections Dr. P. Odhiambo		Laboratory methods on examination of wound specimen (1) Blood cultures laboratory techniques (2)	Examination of wound swabs and other wound specimens and infected tissue Blood cultures
THURSDAY 23/03/2023	Gastrointestinal infections Dr. W. Mutai		Laboratory methods on examination of stool specimen	Examination of stool samples
FRIDAY 24/03/2023	9.00 to 10.30a.m. ENT infections Eye infections Dr. M. Mureithi	11.00 to 12.00 noon Lower respiratory tract bacterial infections Dr. F. Mutua	Laboratory methods of examination of Eye and ENT specimens (1) Laboratory examination of sputum and other lower respiratory tract secretions and pleural aspirate (2)	Examination of - swabs or discharge from throat /ear /eye - Sputum and other lower respiratory tract specimens
MONDAY 27/03/2023	Genital tract infections Dr. A. Maina		Laboratory methods of examination of genital tract specimens	Examination of genital swabs specimens
TUESDAY 28/03/2023	Bacterial central nervous system infections Dr. F. Mutua		Laboratory methods applied in the examination of cerebrospinal fluid	Processing CSF sample
WEDNESDAY 29/03/2023	Introduction to Medical Mycology: Taxonomy classification and nomenclature Dr. P. Odhiambo		Saprophytic fungi encountered mostly as 1. common laboratory contaminants 2. uncommon causative agents of human infections	Laboratory methods in mycology, growth media and cultures; morphology of common laboratory contaminants

THURSDAY 30/03/2023	Superficial mycoses associated with filamentous fungi Dr. M. Mureithi	Laboratory methods in identification of dermatophytes and other filamentous causative agents of superficial infections	Examination of skin, hair and nail specimens, cultures of dermatophytes & other moulds of superficial mycoses
FRIDAY 31/03/2023	Antifungal antimicrobial agents Dr. A. Maina	1. Antifungal agents resistance 2. Antifungal agents susceptibility testing	Continuation of practicals in mycology
DAY / DATE	LECTURES 9.00 a.m. to 11.30a.m.	STUDENTS' SEMINARS 12.00 noon to 1.00 p.m.	PRACTICALS / ILLUSTRATIONS 2.00 p.m. to 5.00 p.m.
MONDAY 03/04/2023	Yeasts Superficial infections Systemic yeast infections Dr. W. Mutai	Laboratory methods of isolation and identification of commonly isolated yeasts; other techniques of identification of yeasts associated with human infections	Examination of specimens from yeast infections and identification procedures of yeasts
TUESDAY 04/04/2023	Subcutaneous fungal infections Dr. S. Odera	Laboratory methods on detection of causative agents of subcutaneous mycoses and mucormycosis in specimens	Causative agents of mucormycosis Illustrations on subcutaneous fungal infections and causative agents Mycology laboratory practicals cont'd
WEDNESDAY 05/04/2023	Systemic mycoses: Dimorphic fungi Opportunistic infections Aspergillosis Dr. P. Odhiambo	Laboratory methods of detection of fungi in 1. Dimorphic fungal infections 2. Other filamentous causative agents of systemic fungal infections (1) Serological tests in the investigation of systemic fungal infections (2)	Cultures and identification of agents of systemic mycoses Aspergillus species Illustrations on dimorphic fungi and associated infections Illustrations on Aspergillus and aspergillosis
THURSDAY 06/04/2023	REVISION		
FRIDAY 07/04/2023	ASSESSMENT TEST FOR HHP 801		
ASSESSMENT TESTS	dates and days to be discussed and scheduled for MSc Med micro 1. HMM 601 2. HMM 602; TID 2. WID 605 2. WID 606;		

Coordinators

Dr. Phoebe A. Odhiambo
HMM 601, HMM 602, HHP 801 and WID 605

Dr. Anne Maina
WID 606

Chairman, Medical Microbiology and Immunology department
Dr. M. Mureithi