

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/SH/ P
MI1.1	Describe the different causative agents of Infectious diseases+A208, the methods used in their detection, and discuss the role of microbes in health and disease	K	KH
MI1.2	Perform and identify the different causative agents of Infectious diseases by Gram Stain, ZN stain and stool routine microscopy	S	P
MI1.3	Describe the epidemiological basis of common infectious diseases	K	KH
MI1.4	Classify and describe the different methods of sterilization and disinfection. Discuss the application of the different methods in the laboratory, in clinical and surgical practice	K	KH
MI1.5	Choose the most appropriate method of sterilization and disinfection to be used in specific situations in the laboratory, in clinical and surgical practice	K	KH
MI1.6	Describe the mechanisms of drug resistance, and the methods of antimicrobial susceptibility testing and monitoring of antimicrobial therapy	K	K
MI1.7	Describe the immunological mechanisms in health	K	KH
MI1.8	Describe the mechanisms of immunity and response of the host immune system to infections	K	KH
MI1.9	Discuss the immunological basis of vaccines and describe the Universal Immunisation schedule	K	KH
MI1.10	Describe the immunological mechanisms in immunological disorder (hypersensitivity, autoimmune disorders and immunodeficiency states) and discuss the laboratory methods used in detection.	K	KH
MI1.11	Describe the immunological mechanisms of transplantation and tumor immunity	K	KH
MI2.1	Describe the etiologic agents in rheumatic fever and their diagnosis	K	KH
MI2.2	Describe the classification etio-pathogenesis, clinical features and discuss the diagnostic modalities of Infective endocarditis	K	KH

MI2.3	Identify the microbial agents causing Rheumatic Heart Disease & infective Endocarditis	S	SH
MI2.4	List the common microbial agents causing anemia. Describe the morphology, mode of infection and discuss the pathogenesis, clinical course, diagnosis and prevention and treatment of the common microbial agents causing Anemia	K	KH
MI2.5	Describe the etio-pathogenesis and discuss the clinical evolution and the laboratory diagnosis of kalaazar, malaria, filariasis and other common parasites prevalent in India	K	KH
MI2.6	Identify the causative agent of malaria and filariasis	K/S	SH
MI2.7	Describe the epidemiology, the etio- pathogenesis, evolution complications, opportunistic infections, diagnosis, prevention and the principles of management of HIV	K	KH
MI3.1	Enumerate the microbial agents causing diarrhea and dysentery. Describe the epidemiology, morphology, pathogenesis, clinical features and diagnostic modalities of these agents	K	KH
MI3.2	Identify the common etiologic agents of diarrhea and dysentery	S	SH
MI3.3	Describe the enteric fever pathogens and discuss the evolution of the clinical course and the laboratory diagnosis of the diseases caused by them	K	KH
MI3.4	Identify the different modalities for diagnosis of enteric fever. Choose the appropriate test related to the duration of illness	S	KH
MI3.5	Enumerate the causative agents of food poisoning and discuss the pathogenesis, clinical course and laboratory diagnosis	K	KH
MI3.6	Describe the etio-pathogenesis of Acid peptic disease (APD) and the clinical course. Discuss the diagnosis and management of the causative agent of APD	K	KH
MI3.7	Describe the epidemiology, the etio-pathogenesis and discuss the viral markers in the evolution of Viral hepatitis. Discuss the modalities in the diagnosis and prevention of viral hepatitis	K	KH
MI3.8	Choose the appropriate laboratory test in the diagnosis of viral hepatitis with emphasis on viral markers	K	KH
MI4.1	Enumerate the microbial agents causing anaerobic infections. Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of anaerobic infections	K	KH
MI4.2	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of bone & joint infections	K	KH

MI4.3	Describe the etio-pathogenesis of infections of skin and soft tissue and discuss the clinical course and the laboratory diagnosis	K	KH
MI5.1	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of meningitis	K	KH
MI5.2	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of encephalitis	K	KH
MI5.3	Identify the microbial agents causing meningitis	S	SH
MI6.1	Describe the etio-pathogenesis, laboratory diagnosis and prevention of Infections of upper and lower respiratory tract	K	KH
MI6.2	Identify the common etiologic agents of upper respiratory tract infections (Gram Stain)	S	P
MI6.3	Identify the common etiologic agents of lower respiratory tract infections (Gram Stain & Acid fast stain)	S	P
MI7.1	Describe the etio-pathogenesis and discuss the laboratory diagnosis of infections of genitourinary system	K	KH
MI7.2	Describe the etio-pathogenesis and discuss the laboratory diagnosis of sexually transmitted infections. Recommend preventive measures	K	KH
MI7.3	Describe the etio-pathogenesis, clinical features, the appropriate method for specimen collection, and discuss the laboratory diagnosis of Urinary tract infections	K	KH
MI8.1	Enumerate the microbial agents and their vectors causing Zoonotic diseases. Describe the morphology, mode of transmission, pathogenesis and discuss the clinical course, laboratory diagnosis and prevention	K	KH
MI8.2	Describe the etio-pathogenesis of opportunistic infections (OI) and discuss the factors contributing to the occurrence of OI, and the laboratory diagnosis	K	KH
MI8.3	Describe the role of oncogenic viruses in the evolution of virus associated malignancy	K	KH
MI8.4	Describe the etiologic agents of emerging Infectious diseases. Discuss the clinical course and diagnosis	K	KH
MI8.5	Define Healthcare Associated Infections (HAI) and enumerate the types. Discuss the factors that contribute to the development of HAI and the methods for prevention	K	KH

MI8.6	Describe the basics of Infection control	K	KH
MI8.7	Demonstrate Infection control practices and use of Personal Protective Equipments (PPE)	S	P
MI8.8	Describe the methods used and significance of assessing the microbial contamination of food, water and air	K	KH
MI8.9	Discuss the appropriate method of collection of samples in the performance of laboratory tests in the detection of microbial agents causing infectious diseases	K	KH
MI8.10	Demonstrate the appropriate method of collection of samples in the performance of laboratory tests in the detection of microbial agents causing Infectious diseases	S	SH
MI8.11	Demonstrate respect for patient samples sent to the laboratory for performance of laboratory tests in the detection of microbial agents causing Infectious diseases	A	SH
MI8.12	Discuss confidentiality pertaining to patient identity in laboratory results	A	KH
MI8.13	Choose the appropriate laboratory test in the diagnosis of the infectious disease	K	KH
MI8.14	Demonstrate confidentiality pertaining to patient identity in laboratory results	A	SH
MI8.15	Choose and Interpret the results of the laboratory tests used in diagnosis of the infectious diseases	K/S	SH
MI8.16	Describe the National Health Programs in the prevention of common infectious disease (for information purpose only as taught in CM)	K	K
	*causative agents of Infectious diseases are inclusive of bacterial, viral, parasites and fungal agent conditions.		
	Column C: K- Knowledge, S – Skill, A - Attitude / professionalism, C- Communication. Column F: DOAP session – Demonstrate, Observe, Assess, Perform. Column H: If entry is P: indicate how many procedures must be done independently for cert		

Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Vertical integration	Horizontal Integration
Y	Lecture, Small group discussion	Written/ Viva voce		
Y	DOAP session	Skill assessment		
Y	Lecture	Written/ Viva voce		Community Medicine
Y	Lecture, Small group discussion	Written/ Viva voce	General Surgery	
Y	Small group discussion, Case discussion	Written/Viva voce/ OSPE	General Surgery	
Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology
Y	Lecture	Written/ Viva voce		Pathology
Y	Lecture	Written/ Viva voce	Pediatrics	Pathology
Y	Lecture	Written/ Viva voce	Paediatrics	
Y	Lecture	Written/ Viva voce	Paediatrics	
Y	Lecture	Written/ Viva voce		
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	Pathology
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	Pathology

Y	DOAP session	Skill assessment	General Medicine	Pathology
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	Pathology
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	Pathology
Y	DOAP session	Skill assessment	General Medicine	
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	Pathology
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine, Paediatrics	Pathology
Y	DOAP session	Skill assessment	General Medicine, Paediatrics	
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	Pharmacology, Pathology
Y	DOAP session	Skill assessment	General Medicine	Pathology
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	Pharmacology
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	Pharmacology, Pathology
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	Pathology
Y	Small group discussion, Case discussion	Written/ Viva voce/ OSPE	General Medicine	Pathology
Y	Lecture	Written/ Viva voce	General Medicine	
Y	Lecture	Written/ Viva voce	Orthopaedics	

Y	Lecture	Written/ Viva voce	Dermatology, Venereology & Leprosy, General Surgery	
Y	Lecture	Written/ Viva voce	General Medicine, Pediatrics	Pathology
Y	Lecture	Written/ Viva voce	General Medicine, Pediatrics	Pathology
Y	DOAP session	Skill assessment	General Medicine, Pediatrics	
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	
Y	DOAP session	Skill assessment	General Medicine	
Y	DOAP session	Skill assessment	General Medicine	
Y	Lecture, Small group discussion	Written/ Viva voce	General Surgery	
Y	Lecture, Small group discussion	Written/ Viva voce	Dermatology, Venereology & Leprosy, Obstetrics & Gynaecology	
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine	
Y	Lecture	Written/ Viva voce	General Medicine	Pathology
Y	Lecture	Written	General Medicine	Pathology
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine, Community	
Y	Lecture, Small group discussion	Written/ Viva voce	General Medicine, Community Medicine	

Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine
Y	DOAP session	Skill assessment	General Surgery	Community Medicine
Y	Lecture, Small group discussion	Written/ Viva voce		
Y	Lecture, Small group discussion	Written/ Viva voce		
Y	DOAP session	Skill assessment		
Y	DOAP session	Skill assessment		
Y	Lecture, Small group discussion	Viva voce		
Y	Small group discussions, Case discussion	Written/ Viva voce/ OSPE		
Y	DOAP session	Skill assessment	AETCOM	
Y	Small group discussion, Case discussion	Written/ Viva voce/ OSPE		
Y	Lecture	Written/ Viva voce		Community Medicine
	ts causing various clinical			
<p>in D: K – Knows, KH - Knows How, SH - Shows how, P- performs independently,</p> <p>ification/ graduation</p>				