

Sri Manakula Vinayagar Medical College & Hospital
Department of Microbiology

MICR							
Topic: General Microbiology and Immunity					Objectives	Date	Time
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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Health, Disease, infectious agents, commensalism, parasite, pathogen and opportunistic pathogen. 2. Enumerate various micro-organisms 3. Classify types of infections. 4. Differentiate between pathogen, commensals, and saprophyte. 5. Describe the classification & morphology of bacteria. 6. Describe the classification & morphology of virus. 7. Describe the classification & morphology of fungi. 8. Describe the classification of parasites. 9. List out different culture media 10. List out and describe different culture methods 11. Interpret various biochemical reactions and choose appropriate tests. 12. List out various serological tests. 13. Describe various methods of transmission of infection. 14. Describe the factors predisposing to microbial pathogenicity. 15. Enumerate various types of infectious diseases. 	06.10.2020 07.10.2020 07.10.2020, 08.10.2020, 09.10.2020 10.10.2020 14.10.2020, 15.10.2020, 16.10.2020 24.10.2020 27.10.2020 28.10.2020, 29.10.2020, 30.10.2020 03.11.2020 12.12.2020 15.12.2020, 16.12.2020 16.12.2020, 17.12.2020, 18.12.2020 22.12.2020, 23.12.2020	8.30am - 9.30am 8.30am - 9.30am 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 8.30am - 9.30am 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 8.30am - 9.30am 8.30am - 9.30am

MI1.2	Perform and identify the different causative agents of Infectious diseases by Gram Stain, ZN stain and stool routine microscopy	S	P	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. List out various methods of staining and uses. 2. Discuss the principle of gram staining 3. Perform independently Gram staining 4. Document the findings with suitable diagram 5. Interpret the results of gram staining 	04.11.2020, 05.11.2020, 06.11.2020	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
					<p>At the end of this practical session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Discuss the principle of ZN staining 2. Perform independently ZN staining 3. Document the findings with suitable diagram 4. Interpret the results of ZN staining with RNTCP grading 	11.11.2020, 12.11.2020, 13.11.2020	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
					<p>At the end of this practical session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Perform independently stool wet mount preparation 2. Identify ova/ cyst/ larvae / trophozoite. 3. Document the findings with suitable diagram 	25.11.2020, 26.11.2020, 27.11.2020	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
MI1.3	Describe the epidemiological basis of common infectious diseases	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define : Epidemiology 2. Describe the various epidemiological patterns of infectious disease. 3. Discuss the various sources and reservoirs of infections. 4. Describe the various modes of transmission of infections. 5. Discuss the various microbial factors contributing to disease. 	28.10.2020	8.30am - 9.30am

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	Y	At the end of this session the Phase II MBBS student should be able to 1. Define: Sterilization, disinfection, asepsis, antiseptics, and decontamination. 2. Classify sterilization. 3. Describe various methods of sterilization	20.10.2020	8.30am - 9.30am
					At the end of this session the Phase II MBBS student should be able to 1. Discuss various methods of disinfection 2. List out Testing of disinfectants. 3. Discuss the application of the different methods in clinical and surgical practice.	21.10.2020	8.30am - 9.30am
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	Y	At the end of this session the Phase II MBBS student should be able to 1. Classify the medical devices using Spaulding's classification 2. Classify disinfectants 3. Define: Fumigation, fogging 4. Describe: Plasma sterilization 5. Identify the most appropriate method of sterilization / disinfection in the given case scenario. 6. Discuss the reason for choosing the method of sterilization / disinfection.	21.10.2020, 22.10.2020, 23.10.2020	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
MI1.6	Describe the mechanisms of drug resistance, and the methods of antimicrobial susceptibility testing and monitoring of antimicrobial therapy	K	K	Y	At the end of this session the Phase II MBBS student should be able to 1. Describe the principles of bacterial genetics 2. Describe bacterial variation 3. Describe the methods of gene transfer in bacteria 4. Describe gene transfer by artificial methods.	13.10.2020 & 14.10.2020	8.30am - 9.30am 8.30am - 9.30am

					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. List out mechanism of action of antimicrobial agents 2. List out various mechanisms of antibacterial resistance. 3. List out and describe different methods of antimicrobial susceptibility testing 4. Define: Bacteriostatic, bactericidal, pharmacodynamics, pharmacokinetics, adverse reactions. 5. Discuss MIC, broth dilution, agar dilution 6. Discuss rational prescription, antibiotic stewardship, auditing. 	31.10.2020 (Integrated)	2.30pm -4.30pm
MI1.7	Describe the immunological mechanisms in health	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Antigen. 2. Classify: Antigen. 3. Describe structure and functions of immune system 4. Describe complement system. 	10.11.2020	8.30am - 9.30am
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Antibody. 2. Classify: Antibody. 3. Describe in detail all types of Antibody. 	11.11.2020	8.30am - 9.30am
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Precipitation, agglutination. 2. Discuss the principle of An -Ab reactions 3. Describe the applications of An-Ab reaction in the diagnosis of diseases. 	14.11.2020	2.30pm -4.30pm

					<p>At the end of this session the Phase II MBBS student should be able to</p> <p>1. Interpret the results of VDRL, WIDAL, Latex agglutination, ELISA, ICT.</p> <p>2. Perform under supervision VDRL test.</p> <p>3. Discuss the applications of An-Ab reaction in the diagnosis of diseases.</p>	<p>18.11.2020</p> <p>19.11.2020</p> <p>20.11.2020</p>	<p>2.30pm -4.30pm</p> <p>2.30pm -4.30pm</p> <p>2.30pm- 4.30pm</p>
					<p>At the end of this session the Phase II MBBS student should be able to</p> <p>1. Define: Immunity.</p> <p>2. Classify: Immunity.</p> <p>3. Describe in detail all types of Immunity.</p> <p>4. Describe the role of vaccines in Immunity</p>	<p>04.11.2020</p>	<p>8.30am - 9.30am</p>
					<p>At the end of this session the Phase II MBBS student should be able to</p> <p>1. Describe structure and functions of immune system</p>	<p>17.11.2020 & 18.11.2020</p>	<p>8.30am - 9.30am</p> <p>8.30am - 9.30am</p>
					<p>At the end of this session the Phase II MBBS student should be able to</p> <p>1. Define : Complement.</p> <p>2. Classify : Complement system</p> <p>3. Describe all types of complement system.</p>	<p>02.12.2020,</p> <p>03.12.2020,</p> <p>04.12.2020</p>	<p>2.30pm - 4.30pm</p> <p>2.30pm - 4.30pm</p> <p>2.30pm - 4.30pm</p>
MI1.8	Describe the mechanisms of immunity and response of the host immune system to infections	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <p>1. Define : Immune response.</p> <p>2. Describe humoral immune response.</p> <p>2. Differentiate humoral and cell mediated immune response.</p> <p>3. Discuss the theories of immune response.</p> <p>4. Define: Immunological tolerance</p>	<p>24.11.2021</p>	<p>8.30am-9.30am</p>

					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe cell mediated immune response. 2. Differentiate humoral and cell mediated immune response. 3. Discuss the theories of immune response. 4. Define: Immunological tolerance 	25.11.2021	8.30am-9.30am
MI1.9	Discuss the immunological basis of vaccines and describe the Universal Immunisation schedule	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Vaccine, Vaccine preventable diseases, Immunoprophylaxis, Toxoid. 2. Classify immunization 3. Describe different types of immunity 4. Describe <i>UIP</i> 5. Describe National Immunisation Schedule (India) 	09.12.2020 (Integrated)	8.30am-9.30am
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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Hypersensitivity. 2. Classify hypersensitivity and describe their features. 3. Describe the mechanisms of type I,II,III,IV hypersensitivity 4. Describe the mediators of anaphylaxis 5. Discuss tuberculin test, patch test. 	28.11.2020 (Integrated)	2.30pm-4.30pm
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define : Autoimmunity 2. Describe various mechanisms and of autoimmunity 3. Describe the pathogenesis of autoimmune diseases 4. Choose tests for detecting antinuclear antibodies 5. Describe Immunofluorescent test, ELISA, 	01.12.2020	8.30am-9.30am

					At the end of this session the Phase II MBBS student should be able to 1. Define : Immunodeficiency 2. Classify immunodeficiency syndromes 3. Describe various immunodeficiency syndromes. 4. Discuss the laboratory methods used in detection of immunodeficiency diseases.	02.12.2020 (Integrated)	8.30am-9.30am
MI1.11	Describe the immunological mechanisms of transplantation and tumor immunity	K	KH	Y	At the end of this session the Phase II MBBS student should be able to 1. Classify transplants, grafts 2. Define: allograft reaction, histocompatibility antigens, MHC, 3. Describe types of HLA typing 4. Describe Graft – versus-host reaction 5. Define Tumour antigen, immunological surveillance 6. Describe immunosuppression. 7. Describe immunotherapy in cancer	08.12.2020 (Integrated)	8.30am-9.30am

Topic: CVS and Blood

MI2.1	Describe the etiologic agents in rheumatic fever and their diagnosis	K	KH	Y	At the end of this session the Phase II MBBS student should be able to 1. Describe the morphology, pathogenesis, antigenic structures, toxin & virulence factors, clinical features, epidemiology of streptococcus pyogenes 2. Classify streptococcus 3. Discuss the serological test for diagnosis of rheumatic fever. 4. Discuss the role of antibiotics in treatment and prevention of rheumatic fever.	30.12.2020 (Integrated)	2.30pm - 4.30pm
-------	--	---	----	---	---	----------------------------	-----------------

MI2.2	Describe the classification etio-pathogenesis, clinical features and discuss the diagnostic modalities of Infective endocarditis	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Enumerate the organisms causing infective endocarditis 2. Describe the pathogenesis, clinical features of infective endocarditis. 3. Discuss the approach to identify the causative organism. 4. Define: Minimum Inhibitory concentration, minimum bactericidal concentration. 5. Discuss the importance of multiple sample collection. 6. Discuss automated blood culture systems. 	23.12.2020 (Integrated)	2.30pm - 4.30pm
MI2.3	Identify the microbial agents causing Rheumatic Heart Disease & infective Endocarditis	S	SH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Identify bacteria by observing colony morphology, biochemical reactions 2. Interpret antimicrobial susceptibility test. 3. Discuss other test that can be used for diagnosis. 	20.01.2021, 21.01.2021, 22.01.2021	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. List the common microbial agents causing anemia. 2. Describe the morphology of the common microbial agents causing anemia. 3. Discuss the mode of infection, pathogenesis & clinical course of the common microbial agents causing anemia. 4. Discuss the laboratory diagnosis of the common microbial agents causing anemia. 5. Discuss the treatment & prevention of the common microbial agents causing anemia. 	26.12.2020 30.12.2020 19.01.2021 20.01.2021 03.02.2021 03.02.2021 04.02.2021, 05.02.2021 10.02.2021	2.30pm - 4.30pm 8.30am - 9.30am 8.30am - 9.30am 8.30am - 9.30am 8.30am - 9.30am 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 8.30am - 9.30am

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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Classify parasites 2. Describe the morphology of common parasites 3. Describe the life cycle of all common parasites 4. Describe the pathogenesis, clinical features & laboratory diagnosis for all common parasites 5. Describe the morphology, life cycle, pathogenesis, clinical features of malarial parasite. 6. Describe the treatment and prevention for malaria. 	23.01.2021	2.30pm - 4.30pm
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the morphology, life cycle, pathogenesis, clinical features of filarial worm. 2. Describe the laboratory diagnosis for filarial worm. 6. Describe the treatment and prevention for filarial worm. 	27.01.2021	8.30am - 9.30am
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the morphology, life cycle, pathogenesis, clinical features of leishmania & Trypanosoma. 2. Describe the laboratory diagnosis for kalaazar & sleeping sickness. 3. Describe the treatment and prevention for kalaazar & sleeping sickness. 	30.01.2021	2.30pm - 4.30pm
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the morphology, life cycle, pathogenesis, clinical features of Schistosomes. 2. Describe the laboratory diagnosis for schistosomiasis. 3. Describe the treatment and prevention for schistosomiasis. 	02.02.2021	8.30am - 9.30am

MI2.6	Identify the causative agent of malaria and filariasis	K/S	SH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Observe the peripheral smear preparation 2. Demonstrate Leishman's staining of peripheral smear. 3. Identify the different stages of malarial parasite in the given smear. 4. Identify the microfilaria in the given smear. 5. Describe the morphology of various stages of malarial parasite and microfilaria 	27.01.2021, 28.01.2021, 29.01.2021	2.30pm -4.30pm 2.30pm -4.30pm 2.30pm -4.30pm
MI2.7	Describe the epidemiology, the etio- pathogenesis, evolution complications, opportunistic infections, diagnosis, prevention and the principles of management of HIV	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe morphology, epidemiology, pathogenesis of HIV 2. Describe clinical features of AIDS 3. Describe the immunological abnormalities in HIV infection 4. Describe various methods of laboratory diagnosis of HIV 5. Discuss NACO guidelines, strategies, pre-test counseling, post-test counseling 6. Discuss applications of serological tests. 7. Discuss laboratory monitoring of HIV infection 8. Describe various modes of transmission of HIV 9. Discuss the different approaches to the treatment of AIDS 10. Describe prophylactic measures in preventing HIV transmission 11. Discuss NACO guidelines for post-exposure prophylaxis 	09.02.2021	8.30am-9.30am
Topic: Gastrointestinal and hepatobiliary system							

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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Enumerate the microbial agents causing diarrhea and dysentery 2. Describe the epidemiology, morphology, pathogenesis, clinical features and diagnostic modalities of vibrio cholera. 3. Describe the epidemiology, morphology, pathogenesis, clinical features and diagnostic modalities of shigella 4. Describe the epidemiology, morphology, pathogenesis, clinical features and diagnostic modalities of viral gastroenteritis. 5. Enumerate the parasites causing diarrhea 6. Describe the morphology, life cycle, pathogenesis, clinical features and diagnosis of Entamoebahistoltyca 7. Describe the morphology, life cycle, pathogenesis, clinical features and diagnosis of coccidian parasites 8. Describe the morphology, life cycle, pathogenesis, clinical features and diagnosis of tapeworms 9. Describe the morphology, life cycle, pathogenesis, clinical features and diagnosis of hookworm. 	10.02.2021, 11.02.2021, 12.02.2021 13.02.2021 17.02.2021 23.02.2021 24.02.2021 27.02.2021	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm 8.30am - 9.30am 8.30am -9.30am 8.30am - 9.30am 2.30pm - 4.30pm
MI3.2	Identify the common etiologic agents of diarrhea and dysentery	S	SH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Discuss various samples that can be collected from patient having diarrhea and dysentery. 2. Identify the causative microorganism by observing colony morphology, gram staining, wet mount preparation, biochemical reaction. 3. Discuss various tests available for diagnosing viral diarrhoea. 	17.02.2021, 18.02.2021, 19.02.2021	2.30pm- 4.30pm 2.30pm -4.30pm 2.30pm -4.30pm

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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Enteric fever 2. Enumerate the organisms causing enteric fever 3. Discuss the clinical course, epidemiology, complications of enteric fever 4. Define: Carrier state 5. Classify carriers 6. Discuss laboratory diagnosis of enteric fever 7. Discuss diagnosis of carriers. 8. Describe prophylactic measures to control enteric fever. 	29.12.2020	8.30am-9.30am
MI3.4	Identify the different modalities for diagnosis of enteric fever. Choose the appropriate test related to the duration of illness	S	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Identify the bacilli by isolation of bacteria. 2. Demonstration of antibodies by serological tests. 3. Demonstration of circulating antigen. 	24.02.2021, 25.02.2021, 26.02.2021	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
MI3.5	Enumerate the causative agents of food poisoning and discuss the pathogenesis, clinical course and laboratory diagnosis	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Food poisoning 2. Enumerate the causative agents of food poisoning 3. Differentiate enterotoxin, cytotoxin and neurotoxin. 4. Discuss the pathogenic mechanism of gastroenteritis due to food poisoning 5. Describe the clinical presentation. 6. Discuss laboratory diagnosis by serology, enterotoxin detection. 	03.03.2021, 04.03.2021, 05.03.2021	2.30pm-4.30pm 2.30pm -4.30pm 2.30pm -4.30pm
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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Acid peptic disease 2. Enumerate the microorganisms causing APD 3. Describe the pathogenesis of APD due to H.pylori 4. Discuss the diagnosis and management of the causative agent of APD. 	16.02.2021	8.30am - 9.30am

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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Viral hepatitis 2. Enumerate the viruses causing hepatitis 3. Classify viral hepatitis 4. Describe the epidemiology, pathogenesis, clinical features, lab diagnosis, treatment and prophylaxis of hepatitis A 5. Describe the epidemiology, pathogenesis, clinical features, lab diagnosis, treatment and prophylaxis of hepatitis B 6. Describe the epidemiology, pathogenesis, clinical features, lab diagnosis, treatment and prophylaxis of hepatitis C 7. Discuss antigenic diversity of hepatitis B virus. 	04.03.2021 11.03.2021	8.30am - 9.30am 8.30am - 9.30am
MI3.8	Choose the appropriate laboratory test in the diagnosis of viral hepatitis with emphasis on viral markers	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Discuss the clinical and serological events occurring in a patient with acute hepatitis. 2. Interpret the common serological patterns in HBV infection 	10.03.2021, 11.03.2021, 12.03.2021	2.30pm-4.30pm 2.30pm-4.30pm 2.30pm-4.30pm
Topic: Musculoskeletal system skin and soft tissue infections							

MI4.1	Enumerate the microbial agents causing anaerobic infections. Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of anaerobic infections	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Anaerobiasis 2. List out anaerobic bacteria and disease caused by them 3. Classify clostridia. 4. Describe the morphology of clostridia 5. Discuss the pathogenesis, clinical features, lab diagnosis, treatment and prophylaxis of Gas gangrene. 6. Discuss the pathogenesis, clinical features, lab diagnosis, treatment and prophylaxis of Tetanus. 7. Discuss the pathogenesis, clinical features, lab diagnosis, treatment and prophylaxis of botulism. 8. Discuss the pathogenesis, clinical features, lab diagnosis, treatment and prophylaxis of pseudomembrane colitis. 9. Describe the transport and culture of clinical samples for anaerobes. 10. List out normal anaerobic flora of human body. 11. List out common anaerobic infections and the bacteria responsible. 	31.03.2021, 01.04.2021, 02.04.2021	2.30pm-4.30pm 2.30pm-4.30pm 2.30pm-4.30pm
MI4.2	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of bone & joint infections	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Classify bone & joint infections 2. Enumerate the microorganisms causing infections of bone & joint 3. Describe the etio-pathogenesis & clinical course of bone & joint infections. 4. Discuss the laboratory diagnosis of bone & joint infections. 	17.03.2021 (Integration)	2.30pm-4.30pm

MI4.3	Describe the etio-pathogenesis of infections of skin and soft tissue and discuss the clinical course and the laboratory diagnosis	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. List out skin & soft tissue infection 2. Enumerate the etiological agents of epidermis & dermis infections 3. Enumerate the etiological agents of subcutaneous tissue infections 4. Enumerate the etiological agents of post- operative wound infections 5. Enumerate the etiological agents of burns wound infection 6. Describe the proper method of specimen collection & transport. 7. Discuss the clinical course of bacterial, viral, fungal and parasitic lesions 8. Describe the approach to diagnosis of skin & soft tissue infection. 	18.03.2021 24.03.2021, 25.03.2021, 26.03.2021 25.03.2021 01.04.2021 07.04.2021, 08.04.2021, 09.04.2021 08.04.2021	8.30am - 9.30am 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm- 4.30pm 8.30am - 9.30am 8.30am - 9.30am 2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm- 4.30pm 8.30am - 9.30am
-------	---	---	----	---	--	--	--

Topic:

MI5.1	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of meningitis	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Meningitis 2. Classify meningitis 3. Enumerate the causative agents of meningitis 4. Describe the clinical presentation of meningitis 5. Discuss the approach to diagnosis of meningitis 6. Discuss collection of CSF 7. Discuss microscopy, culture, serology, molecular methods for the diagnosis of meningitis. 	15.04.2021 (Integration)	2.30pm - 4.30pm
-------	---	---	----	---	--	-----------------------------	-----------------

MI5.2	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of encephalitis	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Encephalitis 2. Classify Encephalitis 3. Enumerate the causative agents of Encephalitis 4. Describe the clinical presentation of Encephalitis 5. Discuss the approach to diagnosis of bacterial Encephalitis 6. Discuss the approach to diagnosis of viral Encephalitis 7. Discuss the laboratory diagnosis of fungal Encephalitis 8. Discuss the laboratory diagnosis of parasitic Encephalitis 	<p>21.04.2021, 22.04.2021, 23.04.2021 28.04.2021, 29.04.2021, 30.04.2021 15.04.2021 22.04.2021</p>	<p>2.30pm -4.30pm 2.30pm -4.30pm 2.30pm -4.30pm 2.30pm -4.30pm 2.30pm -4.30pm 2.30pm -4.30pm 8.30am-9.30am 8.30am -9.30am</p>
MI5.3	Identify the microbial agents causing meningitis	S	SH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Identify the microorganism based on the given smear, colony morphology & biochemical reactions. 2. Interpret abnormal results of CSF analysis report provided. 	<p>28.04.2021, 29.04.2021, 30.04.2021</p>	<p>2.30pm -4.30pm 2.30pm -4.30pm 2.30pm -4.30pm</p>
Topic: Respiratory tract infections							

MI6.1	Describe the etio-pathogenesis, laboratory diagnosis and prevention of Infections of upper and lower respiratory tract	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Classify respiratory tract infections 2. Enumerate the microorganisms causing upper respiratory tract infection 3. Describe the approach to diagnosis of upper respiratory tract infection. 4. Describe microscopy, bacterial & fungal culture methods, serology, for diagnosing upper respiratory tract infection 5. Enumerate the microorganisms causing lower respiratory tract infection 6. Classify pneumonia 7. Discuss sample collection (sputum, BAL, ET secretion, serum) 8. Describe the approach to diagnosis of lower respiratory tract infection. 9. Describe the laboratory diagnosis of bacterial pneumonia. 	29.04.2021	8.30am - 9.30am
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the clinical features, pathogenesis, clinical course of pneumococcal pneumonia & influenza. 2. Discuss the laboratory diagnosis of pneumococci & H.influenza. 3. Describe the measures to prevent the transmission. 	05.05.2021, 06.05.2021, 07.05.2021	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm- 4.30pm
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the clinical features, pathogenesis, clinical course of Atypical pneumonia & legionella pneumonia. 2. Discuss the laboratory diagnosis of mycoplasma & Legionella. 3. Describe the measures to prevent the transmission. 	06.05.2021	8.30am - 9.30am

<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the clinical features, pathogenesis, clinical course of diphtheria & whooping cough. 2. Discuss the laboratory diagnosis of c.diphtheriae & Bordetella. 3. Describe the measures to prevent the transmission. 	<p>12.05.2021, 13.05.2021, 14.05.2021</p>	<p>2.30pm- 4.30pm 2.30pm- 4.30pm 2.30pm-4.30pm</p>
<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the clinical features, pathogenesis, clinical course of chlamydial infection. 2. Discuss the laboratory diagnosis of chlamydia. 3. Describe the measures to prevent the transmission. 	<p>13.05.2021</p>	<p>8.30am - 9.30am</p>
<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. List the viruses causing URTI. 2. Describe the clinical course & laboratory diagnosis of Rhino viral infections. 3. Discuss the clinical course & laboratory diagnosis of Adenoviral infections. 4. Describe the measures to prevent the transmission. 	<p>19.05.2021, 20.05.2021, 21.05.2021</p>	<p>2.30pm -4.30pm 2.30pm- 4.30pm 2.30pm-4.30pm</p>
<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the clinical features, pathogenesis, clinical course of orthomyxovirus. 2. Discuss the laboratory diagnosis of orthomyxovirus. 3. Describe the measures to prevent the transmission. 	<p>20.05.2021</p>	<p>8.30-9.30am</p>
<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the clinical features, pathogenesis, clinical course of paramyxovirus. 2. Discuss the laboratory diagnosis of paramyxovirus. 3. Describe the preventive measures to prevent the transmission. 	<p>26.05.2021, 27.05.2021, 28.05.2021</p>	<p>2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm- 4.30pm</p>

					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the clinical features, pathogenesis, clinical course of pulmonary tuberculosis. 2. Discuss MDR-TB & XDR-TB. 3. Describe the laboratory diagnosis of tuberculosis. 4. Describe the clinical features, pathogenesis, clinical course of Atypical mycobacteria. 	27.05.2021	8.30am - 9.30am
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the clinical features, pathogenesis, clinical course laboratory diagnosis of fungal pneumonia. 2. Describe the laboratory diagnosis of lung abscess 3. Describe the laboratory diagnosis of ventilator associated pneumonia 4. Enumerate the parasite causing lung infection. 	02.06.2021, 03.06.2021, 04.06.2021	2.30pm- 4.30pm 2.30pm- 4.30pm 2.30pm- 4.30pm
MI6.2	Identify the common etiologic agents of upper respiratory tract infections (Gram Stain)	S	P	Y	<p>At the end of this practical session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Perform independently gram stain for the given smear 2. Identify epithelial cells, inflammatory cells & morphology of different organisms 3. Interpret the findings & identify the most probable pathogen. 	09.06.2021, 10.06.2021, 11.06.2021 (certification)	2.30pm- 4.30pm 2.30pm- 4.30pm 2.30pm- 4.30pm
MI6.3	Identify the common etiologic agents of lower respiratory tract infections (Gram Stain & Acid fast stain)	S	P	Y	<p>At the end of this practical session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Perform independently gram stain for the given smear 2. Identify epithelial cells, inflammatory cells & morphology of different organisms 3. Interpret the findings & identify the most probable pathogen. 4. Perform independently acid fast stain for the given smear 5. Interpret the findings and also grade the slide based on RNTCP guidelines 	09.06.2021, 10.06.2021, 11.06.2021 (certification)	2.30pm- 4.30pm 2.30pm- 4.30pm 2.30pm- 4.30pm
Topic: Genitourinary & Sexually transmitted infections							

MI7.1	Describe the etio-pathogenesis and discuss the laboratory diagnosis of infections of genitourinary system	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Classify the infections of genitourinary system. 2. Enumerate the microorganisms causing infections of genitourinary system 3. Describe the etio-pathogenesis of various infections of genitourinary system 4. Discuss in detail the pathogenesis, clinical features of Gonorrhoea. 5. Describe pathogenesis, clinical features of non- gonococcal urethritis. 6. Discuss the laboratory diagnosis for infections of genitourinary system 	10.06.2021	8.30am - 9.30am
MI7.2	Describe the etio-pathogenesis and discuss the laboratory diagnosis of sexually transmitted infections. Recommend preventive measures	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: STD 2. List out diseases transmitted by sexual route 3. Enumerate the organisms causing STD 4. Describe the pathogenesis, clinical features of syphilis. 5. Describe the pathogenesis, clinical features of granuloma inguinale. 6. Describe the pathogenesis, clinical features of LGV. 8. Describe the morphology, pathogenesis, clinical features of H.ducreyi 9. 10. Discuss the various viral infections transmitted by sexual route. 11. Discuss the approach to diagnosis of suspected sexually transmitted disease. 12. Describe the recommended preventable measures 	16.06.2021, 17.06,2021, 18.06.2021	2.30pm- 4.30pm 2.30pm- 4.30pm 2.30pm- 4.30pm

					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. List out viruses causing genital infection. 2. Discuss the various viral infections transmitted by sexual route. 3. Discuss the approach to diagnosis of suspected sexually transmitted disease. 4. Describe the recommended preventable measures 	17.06.2021	8.30am - 9.30am
					<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the pathogenesis, clinical features of bacterial vaginosis. 2. Describe the morphology, pathogenesis, clinical features of infection caused by Trichomonasvaginalis 3. Describe the morphology, pathogenesis, clinical features of infection caused by Cytomegalovirus. 4. Describe the morphology, pathogenesis, clinical features of infection caused by Rubella. 5. Discuss the approach to diagnosis of suspected sexually transmitted disease. 6. Describe the recommended preventable measures 	23.06.2021, 24.06.2021, 25.06.2021	2.30pm- 4.30pm 2.30pm- 4.30pm 2.30pm- 4.30pm
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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Enumerate the microorganisms causing urinary tract infections 2. List out the predisposing factors for UTI 3. Define: Asymptomatic bacteriuria, CAUTI. 4. Describe the pathogenesis, clinical features, lab diagnosis of upper UTI. 5. Describe the pathogenesis, clinical features, lab diagnosis of lower UTI. 	03.06.2021	8.30am - 9.30am
Topic: Zoonotic diseases and miscellaneous							

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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Zoonoses 2. Classify zoonoses 3. Enumerate the microbial agents and their vectors causing Zoonotic diseases. 4. Describe the morphology, mode of transmission, pathogenesis of Zoonotic diseases. 5. Discuss the clinical course, laboratory diagnosis and prevention of Zoonotic diseases. 	24.06.2021	8.30am - 9.30am
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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Opportunistic infections 2. Classify opportunistic infections. 3. Enumerate the organisms causing opportunistic infections. 4. Discuss the factors contributing to opportunistic infections. 	01.07.2021	8.30am - 9.30am
MI8.3	Describe the role of oncogenic viruses in the evolution of virus associated malignancy	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Oncogenic virus 2. Enumerate the viruses causing cancer. 3. Define: Oncogenes 4. Describe the properties of cells transformed by viruses. 5. Describe the mechanism of viral oncogenesis. 	07.07.2021 (Integration)	2.30pm - 4.30pm
MI8.4	Describe the etiologic agents of emerging Infectious diseases. Discuss the clinical course and diagnosis	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Emerging infectious agents. 2. Describe the factors contribute to emerging infections. 3. Discuss their clinical course and diagnosis. 4. Describe the Indian scenario for emerging infectious agents. 	08.07.2021	8.30am - 9.30am

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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define Healthcare Associated Infections (HAI) 2. Enumerate the types of HAI 3. Discuss the factors that contribute to the development of HAI. 4. Discuss the methods of prevention of HAI. 5. Demonstrate the steps of Hand hygiene. 	15.07.2021	8.30am - 9.30am
MI8.6	Describe the basics of Infection control	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: Standard precautions 2. List the components of Standard precautions 3. Describe the components of Standard precautions. 4. Describe the various transmission based precautions. 5. Describe the constitution and functions of HICC. 6. Define: Biomedical waste. 7. Discuss the components of BMW-2016 rule. 	15.07.2021	8.30am - 9.30am
MI8.7	Demonstrate Infection control practices and use of Personal Protective Equipments (PPE)	S	P	Y	<p>At the end of this practical session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Perform independently the steps of Hand hygiene. 2. Demonstrate the 5 moments of Hand hygiene. 3. Perform independently the sequence of donning & doffing PPE. 4. Perform under supervision Bio-spill management. 5. Demonstrate segregation of BMW. 	14.07.2021, 15.07.2021, 16.07.2021.	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
MI8.8	Describe the methods used and significance of assessing the microbial contamination of food, water and air	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Describe the methods used and significance of assessing the microbial contamination of food. 2. Describe the methods used and significance of assessing the microbial contamination of water. 3. Describe the methods used and significance of assessing the microbial contamination of air. 	30.06.2021, 01.07.2021, 02.07.2021.	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm

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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Discuss the method of blood collection for culture 2. Discuss the method of sputum collection for culture 3. Discuss the method of urine collection for culture 4. Discuss the method of wound swab collection 5. Discuss the method of collection of throat swab. 6. Discuss the method of collection of vaginal swab. 7. Discuss the method of collection of CSF. 8. Discuss the method of collection of fluids from sterile sites. 9. Discuss the method of collection of skin scrapping, nail clipping, hair root for the fungal infections. 10. Discuss the instructions given to the patient before collecting specimens 	21.07.2021, 22.07.2021, 23.07.2021.	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
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	Y	<p>At the end of this practical session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Demonstrate independently the method of blood collection for culture 2. Demonstrate independently the method of blood collection for serology. 3. Demonstrate independently the method of collecting throat swab 4. Demonstrate independently the method of collecting wound swab 5. Demonstrate independently the method of collecting skin scrapping 	21.07.2021, 22.07.2021, 23.07.2021.	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
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	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Choose correct container to use for sample collection 2. Demonstrate how to pack the specimen for transport 3. Discuss the information/s that shall be written in the request form. 4. Discuss the storage methods used in case of delay in transportation. 	28.07.2021, 29.07.2021, 30.07.2021	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm

MI8.12	Discuss confidentiality pertaining to patient identity in laboratory results	A	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Define: confidentiality 2. Discuss the rights and responsibility of patients. 3. Discuss the rights and responsibility of laboratory with respect to confidentiality. 4. Discuss the ethical issues involved in confidentiality pertaining to patient identity. 	28.07.2021, 29.07.2021, 30.07.2021	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
MI8.13	Choose the appropriate laboratory test in the diagnosis of the infectious disease	K	KH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Identify the clinical condition based on the history provided. 2. Choose the appropriate laboratory tests in the diagnosis of the infectious disease. 	21.07.2021, 22.07.2021, 23.07.2021.	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
MI8.14	Demonstrate confidentiality pertaining to patient identity in laboratory results	A	SH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Demonstrate confidentiality pertaining to patient identity in laboratory results. 2. Demonstrate the understanding of importance of confidentiality. 3. Counsel the patient about the test results. 	28.07.2021, 29.07.2021, 30.07.2021	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm
MI8.15	Choose and Interpret the results of the laboratory tests used in diagnosis of the infectious diseases	K/S	SH	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. Choose the appropriate laboratory tests in the diagnosis of the infectious disease based on the case scenario. 2. Discuss the reasons for choosing the particular test. 3. Interpret the results of the laboratory tests used in diagnosis of the infectious disease. 	21.07.2021, 22.07.2021, 23.07.2021.	2.30pm - 4.30pm 2.30pm - 4.30pm 2.30pm - 4.30pm

MI8.16	Describe the National Health Programs in the prevention of common infectious disease (for information purpose only as taught in CM)	K	K	Y	<p>At the end of this session the Phase II MBBS student should be able to</p> <ol style="list-style-type: none"> 1. List out the various the National Health Programs in the prevention of common infectious disease. 2. Describe the goals of the various National Health Programs in the prevention of common infectious disease. 	29.07.2021	8.30am - 9.30am
--------	---	---	---	---	--	------------	-----------------

Remarks:

1. The competencies framed for microbiology is insufficient.
2. There is no scope for the following topics in the mentioned competencies
 - a. Microscopy
 - b. sepsis and blood stream infections
 - c. hydatid disease and liver flukes
 - d. nervous system infections other than meningitis and encephalitis (Rabies, Polio, Tetanus and SOLs(Neurocysticercosis, brain abscess) .

--	--	--	--	--

Number of procedures that require certification : (01)

Lecture, Small group discussion	Written/ Viva voce			
---------------------------------	--------------------	--	--	--

DOAP session

Skill
assessment

5

Lecture

Written/ Viva
voce

Community
Medicine

Lecture, Small group discussion	Written/ Viva voce		General Surgery	
Small group discussion, Case discussion	Written/Viva voce/ OSPE		General Surgery	
Lecture, Small group discussion	Written/ Viva voce			Pharmacology

Lecture	Written/ Viva voce			Pathology

Lecture	Written/ Viva voce		Pediatrics	Pathology

Lecture	Written/ Viva voce		Paediatrics	
Lecture	Written/ Viva voce		Paediatrics	

Lecture	Written/ Viva voce			
Number of procedures that require certification				
Lecture, Small group discussion	Written/ Viva voce		General Medicine	Pathology

Lecture, Small group discussion	Written/ Viva voce		General Medicine	Pathology
DOAP session	Skill assessment		General Medicine	Pathology
Lecture, Small group discussion	Written/ Viva voce		General Medicine	Pathology

Lecture, Small group discussion	Written/ Viva voce		General Medicine	Pathology

DOAP session	Skill assessment		General Medicine	
Lecture, Small group discussion	Written/ Viva voce		General Medicine	Pathology
Number of procedures that require				

Lecture, Small group discussion	Written/ Viva voce		General Medicine, Paediatrics	Pathology
DOAP session	Skill assessment		General Medicine, Paediatrics	

Lecture, Small group discussion	Written/ Viva voce		General Medicine	Pharmacology, Pathology
DOAP session	Skill assessment		General Medicine	Pathology
Lecture, Small group discussion	Written/ Viva voce		General Medicine	Pharmacology
Lecture, Small group discussion	Written/ Viva voce		General Medicine	Pharmacology, Pathology

Lecture, Small group discussion	Written/ Viva voce		General Medicine	Pathology
Small group discussion, Case discussion	Written/ Viva voce/ OSPE		General Medicine	Pathology
Number of procedures that				

Lecture	Written/ Viva voce		General Medicine	
Lecture	Written/ Viva voce		Orthopaedics	

Lecture	Written/ Viva voce		Dermatology, Venereology & Leprosy, General Surgery	
---------	--------------------	--	---	--

Number of procedures

Lecture	Written/ Viva voce		General Medicine, Pediatrics	Pathology
---------	--------------------	--	------------------------------------	-----------

Lecture	Written/ Viva voce		General Medicine, Pediatrics	Pathology
DOAP session	Skill assessment		General Medicine, Pediatrics	
Number of procedures that				

Lecture, Small group discussion	Written/ Viva voce		General Medicine	

Integrated				
DOAP session	Skill assessment	3	General Medicine	
DOAP session	Skill assessment	3	General Medicine	
Number of procedures that require certification (All)				

Lecture, Small group discussion	Written/ Viva voce		General Surgery	
Lecture, Small group discussion	Written/ Viva voce		Dermatology, Venereology & Leprosy, Obstetrics & Gynaecology	

Lecture, Small group discussion	Written/ Viva voce		General Medicine	
Number of procedures that require certification :				

Lecture, Small group discussion	Written/ Viva voce		General Medicine	
Lecture	Written/ Viva voce		General Medicine	Pathology
Lecture	Written		General Medicine	Pathology
Lecture, Small group discussion	Written/ Viva voce		General Medicine, Community Medicine	

Lecture, Small group discussion	Written/ Viva voce		General Medicine, Community Medicine	
Lecture, Small group discussion	Written/ Viva voce			Community Medicine
DOAP session	Skill assessment	3 each in (Hand hygiene & PPE)	General Surgery	Community Medicine
Lecture, Small group discussion	Written/ Viva voce			

Lecture, Small group discussion	Written/ Viva voce			
DOAP session	Skill assessment			
DOAP session	Skill assessment			

Lecture, Small group discussion	Viva voce			
Small group discussions, Case discussion	Written/ Viva voce/ OSPE			
DOAP session	Skill assessment		AETCOM	
Small group discussion, Case discussion	Written/ Viva voce/ OSPE			

Lecture	Written/ Viva voce			Community Medicine
---------	-----------------------	--	--	-----------------------

