

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM1.1	Describe and discuss the epidemiology, pathogenesis clinical evolution and course of common causes of heart disease including: rheumatic/ valvular, ischemic, hypertrophic inflammatory.	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe epidemiology of heart disease . 2. Describe pathogenesis of heart disease . 3. Enumerate causes of heart disease . 4. Enumerate causes of ischaemic heart disease. 5. Discuss hypertrophic heart disease.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
IM1.2	Describe and discuss the genetic basis of some forms of heart failure	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define heart failure. 2. Describe genetic basis of heart failure . 3. List different types of heart failure. 4. Differentiate different types of heart failure.	K	KH	N	Lecture, Small group discussion	Written		Pathology, Physiology	
IM1.3	Describe and discuss the aetiology microbiology pathogenies and clinical evolution of rheumatic fever, criteria, degree of rheumatic activity and rheumatic valvular heart disease and its complications including infective endocarditis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe etiology of rheumatic fever. 2. Discuss pathogenesis of rheumatic fever . 3. Discuss evolution of rheumatic fever. 4. Discuss Jones criteria. 5. Enlist rheumatic valvular heart disease. 6. Enumerate rheumatic fever complications. 7. Enumerate causes of endocarditis.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology, Microbiology	
IM1.4	Stage heart failure	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe stages of heart failure.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
IM1.5	Describe ,discuss and differentiate the processes involved in R Vs L heart failure, systolic vs diastolic failure	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the mechanism involved in right heart failure. 2. Describe the mechanism involved in left heart failure . 3. Differentiate between right and left heart failure. 4. Define systolic heart failure. 5. Define diastolic heart failure. 6. Differentiate between systolic and diastolic heart failure.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
IM1.6	Describe and discuss the compensatory mechanisms involved in heart failure including cardiac remodelling and neurohormonal adaptations	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define cardiac remodelling. 2. Discuss neurohormonal adaptations in heart failure. 3. Discuss the compensatory mechanism in heart failure.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	

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GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM1.11	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and estimate its severity including: measurement of pulse, blood pressure and respiratory rate, jugular venous forms and pulses, peripheral pulses, conjunctiva and fundus, lung, cardiac examination including palpation and auscultation with identification of heart sounds and murmurs, abdominal distension and splenic palpation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate pulse examination. 2. Demonstrate blood pressure examination. 3. Demonstrate respiratory rate. 4. Demonstrate jugular venous pulse. 5. Demonstrate peripheral pulses. 6. Demonstrate respiratory sounds. 7. Demonstrate apex beat. 8. Identify cardiac areas. 9. Identify cardiac sounds. 10. Identify cardiac murmurs. 11. Document abdominal distension. 12. Demonstrate splenic examination.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM1.12	Demonstrate peripheral pulse, volume, character, quality and variation in various causes of heart failure	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate peripheral pulses. 2. Describe pulse volume. 3. Describe pulse character.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM1.13	Measure the blood pressure accurately, recognise and discuss alterations in blood pressure in valvular heart disease and other causes of heart failure and cardiac tamponade	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate blood pressure measurement. 2. Discuss alterations in blood pressure in valvular heart disease. 3. Discuss cardiac tamponade.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM1.14	Demonstrate and measure jugular venous distension	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate jugular venous pressure measurement. 2. Differentiate between external and internal jugular vein. 3. Differentiate between arterial and venous pulsation.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM1.15	Identify and describe the timing, pitch quality conduction and significance of precordial murmurs and their variations	At the end of the session the phase-III, part II MBBS student must be able to : 1. Identify the timing of murmurs, 2. Identify the pitch of murmurs. 3. Identify the conduction of murmurs. 4. Describe the timing of murmurs. 5. Describe the pitch of murmurs. 6. Describe the conduction of murmurs. 7. Differentiate systolic and diastolic murmurs. 8. Differentiate murmur of mitral and tricuspid regurgitation.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			

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GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM1.16	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Differentiate mitral stenosis and mitral valve prolapse. 2. Discuss clinical features of aortic regurgitation. 3. Enumerate different murmurs. 4. Describe murmur of aortic stenosis.	K	KH	Y	Bedside clinic, Small group discussion	Skill assessment			
IM1.17	Order and interpret diagnostic testing based on the clinical diagnosis including 12 lead ECG, Chest radiograph, blood cultures	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate investigations for diagnosis of heart failure. 2. Discuss ECG. 3. Identify ECG changes. 4. Describe findings in chest X-ray. 5. Discuss blood culture.	K	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM1.18	Perform and interpret a 12 lead ECG	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate 12 lead ECG. 2. Perform under supervision 12 lead ECG. 3. Document changes in ECG.	S	P	Y	Bedside clinic, DOAP session	Skill assessment	3		
IM1.19	Enumerate the indications for and describe the findings of heart failure with the following conditions including: 2D echocardiography, brain natriuretic peptide, exercise testing, nuclear medicine testing and coronary angiogram	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indications for 2D Echocardiography. 2. Enumerate the indications for exercise testing. 3. Enumerate the indication for coronary angiogram. 4. Describe Brain Natriuretic peptide.	S	KH	N	Lecture, Small group discussion, Bedside clinic	Skill assessment		Radiodiagnosis	
IM1.20	Determine the severity of valvular heart disease based on the clinical and laboratory and imaging features and determine the level of intervention required including surgery	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the severity of valvular heart disease. 2. Enumerate clinical features of severe valvular heart disease. 3. Discuss the intervention required for valvular heart disease. 4. List the indication for valvotomy. 5. List the indication for valvuloplasty.	C	SH	Y	Small group discussion, Lecture, Bedside clinic	Written/ Skill assessment			
IM1.21	Describe and discuss and identify the clinical features of acute and subacute endocarditis, echocardiographic findings, blood culture and sensitivity and therapy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the clinical features of acute and subacute endocarditis. 2. Enumerate the causes of endocarditis. 3. Describe Echocardiographic findings. 4. Discuss blood culture and sensitivity. 5. Discuss treatment of acute and subacute endocarditis.	K	KH/SH	Y	Bedside clinic, Small group discussion, Lecture	Skill assessment			

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GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate technique of collecting specimen for blood culture in sterile condition. 2. Perform under supervision.	S	SH	Y	DOAP session	Skill assessment		Microbiology	
IM1.23	Describe, prescribe and communicate non pharmacologic management of heart failure including sodium restriction, physical activity and limitations	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe non-pharmacologic management of heart failure. 2. Discuss normal sodium intake. 3. Discuss physical activity and its limitations.	S/C	SH	Y	Lecture, Small group discussion	Skill assessment			
IM1.24	Describe and discuss the pharmacology of drugs including indications, contraindications in the management of heart failure including diuretics, ACE inhibitors, Beta blockers, aldosterone antagonists and cardiac glycosides	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enlist the drugs used to treat heart failure. 2. Discuss mechanism of action of above drugs. 3. Enumerate the side effects of diuretics. 4. Enumerate the side effects of beta blockers. 5. Define the doses of all these drugs.	K	KH	Y	Lecture, Small group discussion	Viva voce/written		Pharmacology	
IM1.25	Enumerate the indications for valvuloplasty, valvotomy, coronary revascularization and cardiac transplantation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the indication of valvuloplasty. 2. Discuss the indication of valvotomy. 3. Describe coronary revascularization. 4. Enumerate indications of coronary revascularization. 5. List the indications of cardiac transplantation.	K	KH	Y	Lecture, Small group discussion, Bedside clinic	Viva voce/written			
IM1.26	Develop document and present a management plan for patients with heart failure based on type of failure, underlying aetiology	At the end of the session the phase-III, part II MBBS student must be able to : 1. Identify different types of heart failure. 2. Discuss etiology of heart failure. 3. Document management plan for patients with heart failure. 4. Counsel the patient of heart failure.	S	SH	Y	Bedside clinic, Skill assessment, Small group discussion	Bedside clinic/ Skill assessment/written			
IM1.27	Describe and discuss the role of penicillin prophylaxis in the prevention of rheumatic heart disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the role of penicillin prophylaxis. 2. Discuss the dose of penicillin for prophylaxis. 3. Counsel the patient for long term use of penicillin.	K	KH	Y	Bedside clinic, Small group discussion	Written		Microbiology, Pharmacology	

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GENERAL MEDICINE										
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)					
IM1.28	Enumerate the causes of adult presentations of congenital heart disease and describe the distinguishing features between cyanotic and acyanotic heart disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define congenital heart disease. 2. List different congenital heart diseases. 3. Discuss adult congenital heart disease. 4. Differentiate between cyanotic and acyanotic heart disease.			K	KH	Y	Bedside clinic, Small group discussion	Bedside clinic/ Skill assessment/written	
IM1.29	Elicit document and present an appropriate history, demonstrate correctly general examination, relevant clinical findings and formulate document and present a management plan for an adult patient presenting with a common form of congenital heart disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Present history of a patient of ventricular septal defect. 2. Identify the clinical features. 3. Identify the murmur of ventricular septal defect. 4. Document the clinical findings. 5. Document management plan for ventricular septal defect.			K	KH	Y	Bedside clinic, Small group discussion	Skill assessment/ written	
IM1.30	Administer an intramuscular injection with an appropriate explanation to the patient	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define an intramuscular injection. 2. Counsel the patient for injection. 3. Define the correct sites of injection. 4. Document an intramuscular injection. 5. Perform under supervision intramuscular injection.			S	SH	Y	Bedside clinic, Skill assessment	Log book documentation of completion	Pharmacology
Topic: cute Myocardial Infarction/ IHD		Number of competencies: (24)			Number of procedures that require certification					
IM2.1	Discuss and describe the epidemiology, antecedents and risk factors for atherosclerosis and ischemic heart disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define Ischemic heart disease. 2. Describe its epidemiology. 3. Enumerate the risk factors of Ischemic heart disease. 4. Discuss pathogenesis of atherosclerosis.			K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Pathology, Physiology, Community Medicine
IM2.2	Discuss the aetiology of risk factors both modifiable and non modifiable of atherosclerosis and IHD	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the modifiable risk factors of atherosclerosis. 2. Discuss the non- modifiable factors of atherosclerosis. 3. Discuss the modifiable risk factor of Ischemic heart disease. 4. Discuss the non- modifiable risk factor of Ischemic heart disease.			K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Pathology, Physiology

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GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM2.3	Discuss and describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the lipid cycle. 2. Define dyslipidemia. 3. Enumerate names of different lipids. 4. Discuss pathogenesis of atherosclerosis. 5. Discuss role of dyslipidemia in pathogenesis of atherosclerosis.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Biochemistry	
IM2.4	Discuss and describe the pathogenesis natural history, evolution and complications of atherosclerosis and IHD	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss symptoms of Ischemic heart disease. 2. Discuss warning signs of Ischemic heart disease. 3. Enumerate complications of atherosclerosis. 4. Enumerate complications of Ischemic heart disease.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
IM2.5	Define the various acute coronary syndromes and describe their evolution, natural history and outcomes	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define acute coronary syndrome. 2. List various types of acute coronary syndrome. 3. Describe clinical features of stable angina. 4. Describe clinical features of unstable angina. 5. Describe clinical features of acute myocardial infarction.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM2.6	Elicit document and present an appropriate history that includes onset evolution, presentation risk factors, family history, comorbid conditions, complications, medication, history of atherosclerosis, IHD and coronary syndromes	At the end of the session the phase-III, part II MBBS student must be able to : 1. Document appropriate history of angina patient. 2. Document appropriate history of acute myocardial infarction patient. 3. Document family history of angina patient. 4. List of comorbid diseases associated with myocardial infarction. 5. List the complications of Angina. 6. Discuss treatment of stable angina. 7. Discuss treatment of unstable angina. 8. Discuss treatment of myocardial infarction.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM2.7	Perform, demonstrate and document a physical examination including a vascular and cardiac examination that is appropriate for the clinical presentation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform cardiovascular system examination. 2. Demonstrate cardiovascular system examination. 3. Document cardiovascular system examination.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			

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GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM2.8	Generate document and present a differential diagnosis based on the clinical presentation and prioritise based on "cannot miss", most likely diagnosis and severity	At the end of the session the phase-III, part II MBBS student must be able to : 1. Document blood pressure check up. 2. Document atherosclerosis by palpating radial artery. 3. Document peripheral arteries pulsation. 4. Document by history severity of chest pain.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM2.9	Distinguish and differentiate between stable and unstable angina and AMI based on the clinical presentation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Differentiate between stable and unstable angina. 2. Enumerate the clinical features of acute myocardial infarction.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM2.10	Order, perform and interpret an ECG	At the end of the session the phase-III, part II MBBS student must be able to : 1. Ask ECG technician to do a 12 lead ECG with long lead II. 2. Document the process of ECG. 3. Perform under supervision ECG. 4. Document different ECG waves. 5. Identify ST changes. 6. Identify a wave. 7. Identify rate and rhythm.	S	P	Y	Bedside clinic, DOAP session	Skill assessment	3		
IM2.11	Order and interpret a Chest X-ray and markers of acute myocardial infarction	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate markers of acute myocardial infarction. 2. Discuss levels of markers of acute myocardial infarction. 3. Describe Trop -T and its duration. 4. Order chest X-ray PA view . 5. Present chest X-ray and document size of heart.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM2.12	Choose and interpret a lipid profile and identify the desirable lipid profile in the clinical context	At the end of the session the phase-III, part II MBBS student must be able to : 1. Interpret lipid profile. 2. Counsel the patient for lipid profile. 3. Counsel the patient for diet and pharmacotherapy.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		Biochemistry	
IM2.13	Discuss and enumerate the indications for and findings on echocardiogram, stress testing and coronary angiogram	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indications for 2D Echo. 2. Enumerate the indications for TMT. 3. Enumerate the indication for coronary angiogram. 4. Discuss the findings of Echo. 5. Discuss the findings of coronary angiogram.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

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GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM2.14	Discuss and describe the indications for admission to a coronary care unit and supportive therapy for a patient with acute coronary syndrome	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indication of admission to coronary care unit. 2. Identify the indications of admission to coronary care unit. 3. Discuss supportive therapy of patient of acute coronary syndrome. 4. Counsel the patient's attendants.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM2.15	Discuss and describe the medications used in patients with an acute coronary syndrome based on the clinical presentation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the medicines used in patients with acute coronary syndrome. 2. Discuss medicines used in stable angina. 3. Discuss drugs used in unstable angina. 4. Discuss drugs used in acute myocardial infarction.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
IM2.16	Discuss and describe the indications for acute thrombolysis, PTCA and CABG	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indication for acute thrombolysis. 2. Enumerate the indication for PTCA. 3. Enumerate the indication for CABG.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM2.17	Discuss and describe the indications and methods of cardiac rehabilitation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define cardiac rehabilitation. 2. Discuss indications for cardiac rehabilitation. 3. Describe the methods of cardiac rehabilitations.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM2.18	Discuss and describe the indications, formulations, doses, side effects and monitoring for drugs used in the management of dyslipidemia	At the end of the session the phase-III, part II MBBS student must be able to : 1. List the drugs used in management of dyslipidemia. 2. List their formulations. 3. Discuss indications of drugs used in dyslipidemia. 4. Discuss doses of drugs used in management of dyslipidemia. 5. Describe the side effects of drugs used in management of dyslipidemia.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology, Biochemistry	

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GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
IM2.19	Discuss and describe the pathogenesis, recognition and management of complications of acute coronary syndromes including arrhythmias, shock, LV dysfunction, papillary muscle rupture and pericarditis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the pathogenesis of complications of acute coronary syndrome. 2. Discuss the pathogenesis of cardiac arrhythmias. 3. Discuss the pathogenesis of shock. 4. Discuss the pathogenesis of left ventricular dysfunction. 5. Discuss the pathogenesis of papillary muscle rupture. 6. Discuss the pathogenesis of pericarditis. 7. Discuss the management of arrhythmias. 8. Discuss the management of shock. 9. Discuss the management of left ventricular dysfunction. 10. Discuss the management of papillary muscle rupture. 11. Discuss the management of pericarditis.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		
IM2.20	Discuss and describe the assessment and relief of pain in acute coronary syndromes	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the assessment of relief of pain in acute coronary syndromes. 2. Discuss causes of no relief of pain in acute coronary syndromes.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Pharmacology	
IM2.21	Observe and participate in a controlled environment an ACLS program	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define ACLS . 2. Demonstrate ACLS. 3. Identify indication of ACLS. 4. Observe ACLS. 5. Perform under supervision ACLS .	S	KH	N	DOAP session	NA		
IM2.22	Perform and demonstrate in a mannequin BLS	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define BLS . 2. Demonstrate BLS. 3. Perform BLS in a mannequin.	S	P	Y	DOAP session	Skill assessment	1	
IM2.23	Describe and discuss the indications for nitrates, anti platelet agents, gpIb IIIa inhibitors, beta blockers, ACE inhibitors etc in the management of coronary syndromes	At the end of the session the phase-III, part II MBBS student must be able to :	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Pharmacology	
IM2.24	Counsel and communicate to patients with empathy lifestyle changes in atherosclerosis / post coronary syndromes	At the end of the session the phase-III, part II MBBS student must be able to : 1. Counsel the patient for life style changes in atherosclerosis. 2. Counsel the patient for life style changes in post coronary syndrome.	C/A	SH	Y	DOAP session	Skill assessment		AETCOM

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GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
Topic: Pneumonia			Number of competencies: (19)			Number of procedures that require certification: (NIL)				
IM3.1	Define, discuss, describe and distinguish community acquired pneumonia, nosocomial pneumonia and aspiration pneumonia	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define pneumonia 2. Differentiate community acquired pneumonia and Nosocomial pneumonia, aspiration pneumonia.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Human Anatomy, Pathology, Microbiology	
IM3.2	Discuss and describe the aetiologies of various kinds of pneumonia and their microbiology depending on the setting and immune status of the host	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate aetiologies of pneumonia according to Immune status.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Microbiology	
IM3.3	Discuss and describe the pathogenesis, presentation, natural history and complications of pneumonia	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss pathogenesis of pneumonia. 2. Describe clinical features of pneumonia 3. Describe natural history of pneumonia 4. List the complications of pneumonia.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology, Microbiology	
IM3.4	Elicit document and present an appropriate history including the evolution, risk factors including immune status and occupational risk	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate history taking in case of respiratory disease.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM3.5	Perform, document and demonstrate a physical examination including general examination and appropriate examination of the lungs that establishes the diagnosis, complications and severity of disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate general examination. 2. Demonstrate inspection in respiratory examination. 3. Demonstrate palpation in respiratory examination. 4. Demonstrate auscultation in respiratory examination. 5. Demonstrate percussion in respiratory examination.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM3.6	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Present a differential diagnosis based on the clinical features in Pneumonia.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM3.7	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view, Mantoux, sputum gram stain, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing and ABG	At the end of the session the phase-III, part II MBBS student must be able to : 1. Interpret diagnostic tests based on the clinical presentation in Pneumonia.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		Radiodiagnosis, Microbiology	

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GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM3.8	Demonstrate in a mannequin and interpret results of an arterial blood gas examination	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate how to interpret ABG (arterial blood gas examination)	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM3.9	Demonstrate in a mannequin and interpret results of a pleural fluid aspiration	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate how to interpret pleural fluid examination)	S	SH	Y	DOAP session	Skill assessment			
IM3.10	Demonstrate the correct technique in a mannequin and interpret results of a blood culture		S	SH	Y	DOAP session	Skill assessment		Microbiology	
IM3.11	Describe and enumerate the indications for further testing including HRCT, Viral cultures, PCR and specialised testing	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe indications of HRCT, Viral cultures, PCR and specialised testing in Pneumonia. 2. Enumerate the specialised testing in Pneumonia.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		Radiodiagnosis, Microbiology	
IM3.12	Select, describe and prescribe based on the most likely aetiology, an appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe most likely aetiology based empirical antimicrobial. 2. Describe antimicrobial spectrum in Pneumonia.	S	SH	Y	Bed side clinic, DOAP session	Skill Assessment/ Written/ Viva voce		Pharmacology, Microbiology	
IM3.13	Select, describe and prescribe based on culture and sensitivity appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum.	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Written/ Viva voce		Pharmacology, Microbiology	
IM3.14	Perform and interpret a sputum gram stain and AFB		S	P	Y	DOAP session	Skill assessment		Microbiology	
IM3.15	Describe and enumerate the indications for hospitalisation in patients with pneumonia	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indications for hospitalisation in case of pneumonia	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			
IM3.16	Describe and enumerate the indications for isolation and barrier nursing in patients with pneumonia	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indications for isolation and barrier nursing in pneumonia	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			
IM3.17	Describe and discuss the supportive therapy in patients with pneumonia including oxygen use and indications for ventilation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe supportive therapy in patients with pneumonia. 2. Enumerate indications for mechanical ventilation.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration	
GENERAL MEDICINE										
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)					
IM3.18	Communicate and counsel patient on family on the diagnosis and therapy of pneumonia	At the end of the session the phase-III, part II MBBS student must be able to : 1. Counsel the patient family about diagnosis of pneumonia. 2. Therapy of pneumonia			C/A	SH	Y	DOAP session	Skill assessment	
IM3.19	Discuss, describe, enumerate the indications and communicate to patients on pneumococcal and influenza vaccines	At the end of the session the phase-III, part II MBBS student must be able to : 1. Counsel the pneumonia patient about pneumococcal and influenza vaccines			S/C	K	Y	Lecture, Small group discussion	Short note/ Viva voce	Microbiology
Topic: Fever and febrile syndromes		Number of competencies: (26)			Number of procedures that require certification : (NIL)					
IM4.1	Describe and discuss the febrile response and the influence of host immune status, risk factors and comorbidities on the febrile response	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the febrile response. 2. Discuss the risk factory and comorbidities.			K	K	Y	Lecture, Small group discussion	Written	Microbiology
IM4.2	Describe and discuss the influence of special populations on the febrile response including: the elderly, immune suppression, malignancy and neutropenia, HIV and travel	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe febrile response in the elderly, immune suppression, malignancy and neutropenia, HIV and travel. 2. Describe febrile response in immune suppression 3. Describe febrile response in malignancy 4. Describe febrile response in HIV			K	K	Y	Lecture, Small group discussion	Written	Microbiology
IM4.3	Discuss and describe the common causes, pathophysiology and manifestations of fever in various regions in India including bacterial, parasitic and viral causes (e.g.Dengue, Chikungunya, Typhus)	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate common cause of fever. 2. Describe pathophysiology of fever. 3. Describe manifestations of feve.			K	K	Y	Lecture, Small group discussion	Written	Microbiology, Community Medicine
IM4.4	Describe and discuss the pathophysiology and manifestations of inflammatory causes of fever	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe pathophysiology of inflammatory causes of fever. 2. Describe manifestations of inflammatory causes of fever.			K	KH	Y	Lecture, Small group discussion	Written	Microbiology
IM4.5	Describe and discuss the pathophysiology and manifestations of malignant causes of fever including hematologic and lymph node malignancies	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe pathophysiology of malignant causes of fever. 2. Discuss Clinical features of malignant causes of fever.			K	KH	Y	Lecture, Small group discussion	Written	Pathology, Microbiology
IM4.6	Discuss and describe the pathophysiology and manifestations of malaria	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss pathophysiology of malaria. 2. Describe Clinical features of malaria.			K	KH	Y	Lecture, Small group discussion	Written	Microbiology

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM4.7	Discuss and describe the pathophysiology and manifestations of the sepsis syndrome	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss pathophysiology of sepsis syndrome. 2. Describe Clinical features of sepsis syndrome.	K	K	Y	Lecture, Small group discussion	Written			
IM4.8	Discuss and describe the pathophysiology, aetiology and clinical manifestations of fever of unknown origin (FUO) including in a normal host, neutropenic host, nosocomial host and a host with HIV disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss pathophysiology of fever of unknown origin (FUO). 2. Describe and clinical manifestations of fever of unknown origin (FUO). 3. Enumerate aetiology of fever of unknown origin (FUO)	K	K	Y	Lecture, Small group discussion	Written		Microbiology	
IM4.9	Elicit document and present a medical history that helps delineate the aetiology of fever that includes the evolution and pattern of fever, associated symptoms, immune status, comorbidities, risk factors, exposure through occupation, travel and environment and medication use	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate history taking in case of fever 2. Classify type of fever 3. List risk factor of fever.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		Microbiology	
IM4.10	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)	At the end of the session the phase-III, part II MBBS student must be able to : 1. Performe general examination in case of fever. 2. Perform respiratory examination in case of fever. 3. Perform abodominal examination in case of fever.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM4.11	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes	At the end of the session the phase-III, part II MBBS student must be able to : 1. Differentiate between infective, inflammatory, malignant and rheumatologic causes based on clinical features.	K	SH	Y	Bedside clinic, DOAP session	Written/ Viva voce			
IM4.12	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and QBC	At the end of the session the phase-III, part II MBBS student must be able to : 1. List of diagnostic test in case of fever.	K	SH	Y	Bedside clinic, Skill assessment	Skill assessment		Pathology, Microbiology	
IM4.13	Perform and interpret a sputum gram stain		S	SH	Y	DOAP session	Log book/ documentation		Microbiology	
IM4.14	Perform and interpret a sputum AFB		S	SH	Y	DOAP session	Log book/ documentation		Microbiology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM4.15	Perform and interpret a malarial smear		S	SH	Y	DOAP session	Log book/ documentation/ Skill assessment		Microbiology	
IM4.16	Enumerate the indications and describe the findings in tests of inflammation and specific rheumatologic tests, serologic testing for pathogens including HIV, bone marrow aspiration and biopsy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indications in case of bone marrow aspiration and biopsy.	K	KH	N	Lecture, Small group discussion	Written		Pathology	
IM4.17	Observe and assist in the performance of a bone marrow aspiration and biopsy in a simulated environment	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform undersupervision of bone marrow aspiration and biopsy.	S	SH	N	Skills lab	Log book/ documentation/ DOAP session		Pathology	
IM4.18	Enumerate the indications for use of imaging in the diagnosis of febrile syndromes	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indications of imaging in febrile syndromes.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce			
IM4.19	Assist in the collection of blood and wound cultures		S	SH	Y	DOAP session	Log book/ documentation		Microbiology	
IM4.20	Interpret a PPD (Mantoux)	At the end of the session the phase-III, part II MBBS student must be able to : 1. Present how to interpret a PPD (Mantoux)	S	SH	Y	DOAP session	Log book/ documentation		Microbiology	
IM4.21	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the appropriate diagnostic plan in febrile syndrome.	K	KH	Y	Bedside clinic, Skill assessment	Skill assessment			
IM4.22	Describe and discuss the pharmacology, indications, adverse reactions, interactions of antimalarial drugs and basis of resistance	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the pharmacology of anti-malarial drugs. 2. Enumerate the indications of anti-malarial drugs. 3. List the adverse reaction of anti-malarial drugs. 4. Describe the basis of resistance of anti-malarial drugs.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
IM4.23	Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs	At the end of the session the phase-III, part II MBBS student must be able to : 1. Identify the drug for malaria based on the species 2. Identified/Identify the drug for Malaria prevalence of drugs resistance and national programs	S	SH	Y	Small group discussion	Skill assessment		Microbiology, Pharmacology	
IM4.24	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate the appropriate treatment plan based on patient clinical and immune status.	C	SH	Y	DOAP session	Skill assessment			

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration	
GENERAL MEDICINE										
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)					
IM4.25	Communicate to the patient and family the diagnosis and treatment	At the end of the session the phase-III, part II MBBS student must be able to : 1. Communicate to the patient and family about the diagnosis of malaria. 2. Communicate to the patient and family about the treatment of malaria.			C	SH	Y	DOAP session	Skill assessment	AETCOM
IM4.26	Counsel the patient on malarial prevention	At the end of the session the phase-III, part II MBBS student must be able to : 1. Counsel the patient of malarial prevention.			C	SH	Y	DOAP session	Skill assessment	Microbiology, Pharmacology
Topic: Liver disease		Number of competencies: (10)			Number of procedures that require certification : (NIL)					
IM5.1	Describe and discuss the physiologic and biochemical basis of hyperbilirubinemia	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe physiologic of hyperbilirubinemia. 2. Discuss biochemical basis of hyperbilirubinemia.			K	K	Y	Lecture, Small group discussion	Written/Viva voce	Pathology, Physiology
IM5.2	Describe and discuss the aetiology and pathophysiology of liver injury	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe pathophysiology of liver injury. 2. Enumerate aetiology of liver injury.			K	K	Y	Lecture, Small group discussion	Written/ Viva voce	Pathology, Physiology
IM5.3	Describe and discuss the pathologic changes in various forms of liver disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe physiologic changes in various forms of liver disease.			K	K	Y	Lecture, Small group discussion	Written/ Viva voce	Pathology
IM5.4	Describe and discuss the epidemiology, microbiology, immunology and clinical evolution of infective (viral) hepatitis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe and epidemiology, of infective (Viral) hepatitis. 2. Discuss clinical evolution of infective (Viral) hepatitis.			K	K	Y	Lecture, Small group discussion	Written/ Viva voce	Pathology, Microbiology
IM5.5	Describe and discuss the pathophysiology and clinical evolution of alcoholic liver disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the pathophysiology alcoholic liver disease. 2. Discuss clinical evolution of alcoholic liver disease.			K	K	Y	Lecture, Small group discussion	Written/ Viva voce	Pathology
IM5.6	Describe and discuss the pathophysiology, clinical evolution and complications of cirrhosis and portal hypertension including ascites, spontaneous bacterial peritonitis, hepatorenal syndrome and hepatic encephalopathy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the pathophysiology of cirrhosis. 2. Enumerate complication of cirrhosis and portal hypertension, spontaneous bacterial peritonitis, hepatorenal syndrome and hepatic encephalopathy.			K	K	Y	Lecture, Small group discussion	Written/ Viva voce	Pathology

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM5.7	Enumerate and describe the causes and pathophysiology of drug induced liver injury	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the causes of drug induced liver injury. 2. Describe the pathophysiology of drug induced liver injury.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Pharmacology	
IM5.8	Describe and discuss the pathophysiology, clinical evolution and complications cholelithiasis and cholecystitis		K	K	Y	Lecture, Small group discussion	Written/ Viva voce		General Surgery	
IM5.9	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes clinical presentation, risk factors, drug use, sexual history, vaccination history and family history	At the end of the session the phase-III, part II MBBS student must be able to : 1. Present a medical history in case of liver disease.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM5.10	Perform a systematic examination that establishes the diagnosis and severity that includes nutritional status, mental status, jaundice, abdominal distension ascites, features of portosystemic hypertension and hepatic encephalopathy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate nutritional status / mental status, jaundice in case of liver disease. 2. Demonstrate inspection in abdominal examination 3. Demonstrate palpation in abdominal examination 4. Demonstrate percussion in abdominal examination 5. Present feature of portosystemic hypertension and hepatic encephalopathy 6. Present stages of hepatic encephalopathy.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM5.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe differential diagnosis according to specific symptom in case of liver disease.	K	KH	Y	Bedside clinic, DOAP session	Skill assessment/ Viva voce			
IM5.12	Choose and interpret appropriate diagnostic tests including: CBC, bilirubin, function tests, Hepatitis serology and ascitic fluid examination in patient with liver diseases.	At the end of the session the phase-III, part II MBBS student must be able to : 1. Interpret appropriate diagnostic tests in case of liver disease.	S	KH	Y	Bedside clinic, DOAP session	Skill assessment		Pathology	
IM5.13	Enumerate the indications for ultrasound and other imaging studies including MRCP and ERCP and describe the findings in liver disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indication for ultrasound. 2. Enumerate the indication for MRCP and ERCP 3. Describe the findings in MRCP and ERCP & Ultrasound in liver disease.	K	K	Y	Bedside clinic, Small group discussion	Viva voce/ Written		Radiodiagnosis	General Surgery

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM5.14	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology	At the end of the session the phase-III, part II MBBS student must be able to : 1. Present a diagnostic approach in case of hyperbilirubinemia.	S	SH	Y	Bedside clinic, Small group discussion	Viva voce/ Written		Pathology, Microbiology	
IM5.15	Assist in the performance and interpret the findings of an ascitic fluid analysis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate the finding of ascitic fluid analysis.	S	KH	Y	DOAP session	documentation in log book			
IM5.16	Describe and discuss the management of hepatitis, cirrhosis, portal hypertension, ascites spontaneous, bacterial peritonitis and hepatic encephalopathy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the management of hepatitis 2. Discuss the manage of cirrhosis. 3. Discuss manage of portal hypertension. 4. Discuss management of spontaneous, bacterial peritonitis. 5. Discuss management of hepatic encephalopathy.	K	KH	Y	Written, Small group discussion	Skill assessment/ Written/ Viva voce		Pharmacology	General Surgery
IM5.17	Enumerate the indications, precautions and counsel patients on vaccination for hepatitis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Counsel the patient on vaccination for hepatitis.	K/C	SH	Y	Written, Small group discussion	Written/ Viva voce		Microbiology	
IM5.18	Enumerate the indications for hepatic transplantation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indications for hepatic transplantation.	K	K	Y	Written, Small group discussion	Written/ Viva voce			General Surgery
Topic: HIV			Number of competencies: (23)				Number of procedures that require certification : (NIL)			
IM6.1	Describe and discuss the symptoms and signs of acute HIV seroconversion	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss clinical features of acute HIV-Seroconversion.	K	KH	Y	Lecture, Small group discussion	Short note/ Viva voce		Microbiology	
IM6.2	Define and classify HIV AIDS based on the CDC criteria	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define HIV-AIDS. 2. Classify HIV-AIDS.	K	KH	Y	Lecture, Small group discussion	Short notes/ Viva voce		Microbiology	
IM6.3	Describe and discuss the relationship between CDC count and the risk of opportunistic infections	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the relationship between CDC count and the risk of opportunistic infections.	K	KH	Y	Lecture, Small group discussion	Short notes/ Viva voce		Microbiology	
IM6.4	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related opportunistic infections	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe pathogenesis of HIV. 2. Descuss clinical features of HIV related opportunistic infections. 3. Discuss HIV opportunistic infections.	K	KH	Y	Lecture, Small group discussion	Short notes/ Viva voce		Microbiology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM6.5	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related malignancies	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the pathogenesis of HIV related malignancies. 2. Discuss clinical features of HIV related malignancies. 3. Enumerate the HIV-related malignancies.	K	KH	Y	Lecture, Small group discussion	Short notes/ Viva voce		Pathology, Microbiology	
IM6.6	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related skin and oral lesions	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe pathogenesis of HIV related skin and oral lesions. 2. Discuss the clinical features of HIV related skin and oral lesions.	K	KH	Y	Lecture, Small group discussion	Short notes/ Viva voce		Pathology, Microbiology	
IM6.7	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes risk factors for HIV, mode of infection, other sexually transmitted diseases, risks for opportunistic infections and nutritional status	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate medical history in case of HIV patient . 2. Present risk factor for HIV 3. Identify mode of infection in HIV 4. Interpret risk for opportunistic infections and nutritional status.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM6.8	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom	At the end of the session the phase-III, part II MBBS student must be able to : 1. Present a differential diagnosis based on clinical features that suggest a specific aetiology for the presenting symptom.	S	SH	Y	Bedside clinic, DOAP session, Small group discussion	Skill assessment			
IM6.9	Choose and interpret appropriate diagnostic tests to diagnose and classify the severity of HIV-AIDS including specific tests of HIV, CDC	At the end of the session the phase-III, part II MBBS student must be able to : 1. Interpret appropriate diagnostic test to diagnose the severity of HIV AIDS. 2. Classify the specific test of HIV to grade severity.	K	KH	Y	Bedside clinic, DOAP session, Small group discussion	Written/ Skill assessment		Pathology, Microbiology	
IM6.10	Choose and interpret appropriate diagnostic tests to diagnose opportunistic infections including CBC, sputum examination and cultures, blood cultures, stool analysis, CSF analysis and Chest radiographs	At the end of the session the phase-III, part II MBBS student must be able to Describe the diagnostic workup of tests for HIV	S	KH	Y	Bedside clinic, DOAP session, Small group discussion	Written/ Skill assessment			
IM6.11	Enumerate the indications and describe the findings for CT of the chest and brain and MRI	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate indications for CT chest 2. Enumerate indications for MRI brain. 3. Interpret and discuss ring enhancing lesion on MRI.	K	K	N	Small group discussion, Lecture, Bedside clinic	Written/ Viva voce		Radiodiagnosis	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM6.12	Enumerate the indications for and interpret the results of: pulse oximetry, ABG, Chest Radiograph	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indications for pulse oximeter, abg and chest xray. 2. Discuss cxr in case of P. cystis carinii.	K	KH	Y	Bedside clinic, DOAP session, Small group discussion	Written/ Skill assessment			
IM6.13	Describe and enumerate the indications and side effects of drugs for bacterial, viral and other types of diarrhea	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the drugs for bacterial diarrhoea viral diarrhoea protozoal diarrhoea a/w HIV. 2. Discuss the s/e of these drugs.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology, Microbiology	
IM6.14	Perform and interpret AFB sputum	At the end of the session the phase-III, part II MBBS student must be able to : 1. Know and show how to make sputum slide. 2. Know and show how to differentiate AFB after staining the slide.	S	P	Y	DOAP session	Skill assessment		Microbiology	
IM6.15	Demonstrate in a model the correct technique to perform a lumbar puncture	At the end of the session the phase-III, part II MBBS student must be able to 1. Know and show the correct technique of lumbar puncture on a model. 2. Know the indications and precautions of lumbar puncture. 3. Know the complications of lumbar puncture.	S	SH	Y	Simulation	Skill assessment		Microbiology	
IM6.16	Discuss and describe the principles of HAART, the classes of antiretrovirals used, adverse reactions and interactions	At the end of the session the phase-III, part II MBBS student must be able to : 1. Know the principles of HAART. 2. Enumerate all the classes of antiretroviral drugs. 3. Know the s/e and drug interactions of ART.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology, Pharmacology	
IM6.17	Discuss and describe the principles and regimens used in post exposure prophylaxis	At the end of the session the phase-III, part II MBBS student must be able to : Describe post exposure prophylaxis in HIV.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology, Pharmacology	
IM6.18	Enumerate the indications and discuss prophylactic drugs used to prevent HIV related opportunistic infections	At the end of the session the phase-III, part II MBBS student must be able to : Enumerate and discuss the prophylactic drugs for opportunistic infections of HIV.	K/C	K	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Microbiology	
IM6.19	Counsel patients on prevention of HIV transmission	At the end of the session the phase-III, part II MBBS student must be able to Show how to counsel patients about mode of transmission of HIV	C	SH	Y	DOAP session	Skills assessment		AETCOM	
IM6.20	Communicate diagnosis, treatment plan and subsequent follow up plan to patients	At the end of the session the phase-III, part II MBBS student must be able to : Counsel and communicate the treatment and follow up plan to the patient.	C	SH	Y	DOAP session	Skills assessment		AETCOM	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM6.21	Communicate with patients on the importance of medication adherence	At the end of the session the phase-III, part II MBBS student must be able to : Counsel the patient about importance of adherence to medicine.	C	SH	Y	DOAP session	Skills assessment		AETCOM	
IM6.22	Demonstrate understanding of ethical and legal issues regarding patient confidentiality and disclosure in patients with HIV	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate about the legal and ethical issues about HIV. 2. Know the patient confidentiality and disclosure in patients with HIV.	K/A	SH	Y	DOAP session, Small group discussion	Viva voce/ Written/ Skill Assessment		AETCOM	
IM6.23	Demonstrate a non-judgemental attitude to patients with HIV and to their lifestyles	Show a non judgemental attitude towards patient.	A	SH	Y	Small group discussion	observation by teacher		AETCOM	
Topic: Rheumatologic problems			Number of competencies: (27)				Number of procedures that require certification: (NIL)			
IM7.1	Describe the pathophysiology of autoimmune disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe auto immune disease. 2. Describe the pathophysiology of auto immune disease.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM7.2	Describe the genetic basis of autoimmune disease	At the end of the session the phase-III, part II MBBS student must be able to : Describe the genetic basis of auto immune disease.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM7.3	Classify cause of joint pain based on the pathophysiology	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the causes of joint pains. 2. Describe the classification of joint pains based on the pathophysiology.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM7.4	Develop a systematic clinical approach to joint pain based on the pathophysiology	At the end of the session the phase-III, part II MBBS student must be able to : Describe the approach to the joint pains based on the pathophysiology.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM7.5	Describe and discriminate acute, subacute and chronic causes of joint pain	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the causes of acute joint pains, subacute joint pains and chronic joint pains. 2. Describe the diagnostic significance of duration of joint pain.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM7.6	Discriminate, describe and discuss arthralgia from arthritis and mechanical from inflammatory causes of joint pain	1. List the difference between arthralgia and arthritis. 2. Enumerate the causes of inflammatory joint pains. 3. Enumerate the causes of mechanical joint pains	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
IM7.7	Discriminate, describe and discuss distinguishing articular from periarticular complaints	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the clinical difference between articular and prearticular pain. 2. Enumerate the causes of articular and prearticular joint pains.		K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	
IM7.8	Determine the potential causes of joint pain based on the presenting features of joint involvement	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the causes of large joint pains. 2. Enumerate the causes of small joint pains.		K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	
IM7.9	Describe the common signs and symptoms of articular and periarticular diseases	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate signs and symptoms of articular joint pain. 2. Enumerate signs and symptoms of periarticular joint pains		K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	
IM7.10	Describe the systemic manifestations of rheumatologic disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the clinical features of Rheumatoid Arthritis. 2. Enumerate the diagnostic criteria for Rheumatoid Arthritis. 3. Describe the extra articular manifestations of Rheumatoid Arthritis.		K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	
IM7.11	Elicit document and present a medical history that will differentiate the aetiologies of disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform the history taking of a patient with joint pains including : duration of joint pains articular or periarticular joint pains		S	SH	Y	Bedside clinic, DOAP session	Skill assessment	
IM7.12	Perform a systematic examination of all joints, muscle and skin that will establish the diagnosis and severity of disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform examination of all joints. 2. Describe the findings about joint involved 3. Perform the range of motion across joint, describe the limitation of motion, deformities if any.		S	SH	Y	Bedside clinic, DOAP session	Skill assessment	
IM7.13	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	At the end of the session the phase-III, part II MBBS student must be able to : List the differential diagnoses on the basis of joint pains		K/S	KH	Y	Bedside clinic, Small group discussion	Skill assessment/ Written	
IM7.14	Describe the appropriate diagnostic work up based on the presumed aetiology	At the end of the session the phase-III, part II MBBS student must be able to : 1. Choose the diagnostic work up plan for the patient. 2. List the diagnostic tests based on the etiology.		K	KH	Y	Bedside clinic, Small group discussion	Skill assessment/ Written	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM7.15	Enumerate the indications for and interpret the results of : CBC, anti- CCP, RA, ANA, DNA and other tests of autoimmunity	At the end of the session the phase-III, part II MBBS student must be able to : Enumerate the indications and interpretations of CBC with ESR, antiCCP, RA factor, ANA profile and dsDNA.	K	SH	Y	Bedside clinic, Small group discussion	Skill assessment/ Written		Pathology	
IM7.16	Enumerate the indications for arthrocentesis	At the end of the session the phase-III, part II MBBS student must be able to : 1.Enumerate the indications of arthrocentesis. 2. Describe the findings in synovial fluid in various arthritis.	K	K	Y	Small group discussion, Lecture	Written/ Viva voce			
IM7.17	Enumerate the indications and interpret plain radiographs of joints	At the end of the session the phase-III, part II MBBS student must be able to : 1. List the indications of XRAYs of various joints : knee elbow spine hand and wrist shoulder hip and pelvis 2. Describe the findings of radiographs.	K	SH	Y	Bedside clinic, Small group discussion	Skill assessment/ Written		Radiodiagnosis	
IM7.18	Communicate diagnosis, treatment plan and subsequent follow up plan to patients	At the end of the session the phase-III, part II MBBS student must be able to : 1.Counsel the patient about treatment symptomatic and disease modifying. 2. Inform the patient about follow up visits.	C	SH	Y	DOAP session	Skill assessment/ Written			
IM7.19	Develop an appropriate treatment plan for patients with rheumatologic diseases	At the end of the session the phase-III, part II MBBS student must be able to : Deescribe the treatment of Rheumatoid Arthritis and SLE.	K	KH	Y	Bedside clinic, Small group discussion	Skill assessment/ Written			
IM7.20	Select, prescribe and communicate appropriate medications for relief of joint pain	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the treatment of crystal arthropathy gout. 2. Differentiate between gout and pseudogout.	K/C	SH	Y	DOAP session	Skill assessment/ Written		Pharmacology	
IM7.21	Select, prescribe and communicate preventive therapy for crystalline arthropathies	At the end of the session the phase-III, part II MBBS student must be able to : 1. Choose appropriate pain relief medication. 2. Counsel the patient about pain relief medication and its side effects.	K/C	SH	Y	DOAP session	Skill assessment/ Written		Pharmacology	
IM7.22	Select, prescribe and communicate treatment option for systemic rheumatologic conditions	At the end of the session the phase-III, part II MBBS student must be able to : Describe the extraarticular manifestations of RA.	K/C	SH	Y	DOAP session	Skill assessment/ Written		Pharmacology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM7.23	Describe the basis for biologic and disease modifying therapy in rheumatologic diseases	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe and list DMARDS. 2. Describe the biologics in Disease modifying treatment of RA. 2. Describe MOA of : INF inhibin (Infliximab, Etarncept) IL-1 blocker, anti T cell, Anti B cell.	K	KH	Y	Bedside clinic, Small group discussion	Skill assessment/ Written		Pharmacology	
IM7.24	Communicate and incorporate patient preferences in the choice of therapy	At the end of the session the phase-III, part II MBBS student must be able to : Council and incorporate patient choice in therapy	C/A	SH	Y	DOAP session	Skill assessment		AETCOM	
IM7.25	Develop and communicate appropriate follow up and monitoring plans for patients with rheumatologic conditions	At the end of the session the phase-III, part II MBBS student must be able to : Council the patient about treatment and follow up visits.	C	SH	Y	DOAP session	Skill assessment			
IM7.26	Demonstrate an understanding of the impact of rheumatologic conditions on quality of life, well being, work and family	At the end of the session the phase-III, part II MBBS student must be able to : 1. Council the monitoring plan to the patient. 2. Monitor the CBC, liver enzymes RA factor and ESR.	A	SH	Y	DOAP session	Skill assessment			
IM7.27	Determine the need for specialist consultation	At the end of the session the phase-III, part II MBBS student must be able to : List the indications of referral to the specialist.	K	K	Y	Small group discussion, Lecture	Viva voce			
Topic: Hypertension			Number of competencies: (20)			Number of procedures that require certification: (NIL)				
IM8.1	Describe and discuss the epidemiology, aetiology and the prevalence of primary and secondary hypertension	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the causes of primary and secondary hypertension. 2. Discuss the epidemiology of primary and secondary hypertension. 3. Discuss the prevalence of primary and secondary hypertension.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
IM8.2	Describe and discuss the pathophysiology of hypertension	At the end of the session the phase-III, part II MBBS student must be able to : Describe pathophysiology of hypertension.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
IM8.3	Describe and discuss the genetic basis of hypertension	At the end of the session the phase-III, part II MBBS student must be able to : Describe genetic basis of hypertension.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM8.4	Define and classify hypertension	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define hypertension. 2. Describe the classification of hypertension.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM8.5	Describe and discuss the differences between primary and secondary hypertension	At the end of the session the phase-III, part II MBBS student must be able to : Enumerate the differences between primary and secondary hypertension.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM8.6	Define, describe and discuss and recognise hypertensive urgency and emergency	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define hypertensive emergency and urgency 2. Describe the clinical signs and symptoms hypertensive emergencies. 3. Describe the treatment and mangement hypertensive emergency and urgencies.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM8.7	Describe and discuss the clinical manifestations of the various aetiologies of secondary causes of hypertension	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the effect of hypertension on brain. 2. Describe hypertensive heart diseases. 3. Describe hypertensive nephropathy. 4. Describe peripheral arterial diseases. 5. Describe hypertensive retinopathy.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM8.8	Describe, discuss and identify target organ damage due to hypertension	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the clinical manifestations of secondary hypertension. 2. List the etiology of secondary hypertension.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM8.9	Elicit document and present a medical history that includes: duration and levels, symptoms, comorbidities, lifestyle, risk factors, family history, psychosocial and environmental factors, dietary assessment, previous and concomitant therapy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Should be able to present a medical history of a patient of hypertension. 2. Enumerate the signs and symptoms of hypertension. 3. Enumerate the risk factors of hypertension. 4. Describe the family history, co-morbidities and environmental factors significat for hypertension. 5. Describe the psychosocial and dietary factors for hypertension.	K	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM8.10	Perform a systematic examination that includes : an accurate measurement of blood pressure, fundus examination, examination of vasculature and heart	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate the accurate BP measurement in all four limbs. 2. Describe and demonstrate the postural hypotension. 3. Demosntrate the fundus examintaion in patients with assistance. 4. Demonstrate the measurement of JVP.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM8.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	At the end of the session the phase-III, part II MBBS student must be able to : Describe the d/d regarding cause of HTN	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM8.12	Describe the appropriate diagnostic work up based on the presumed aetiology	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the diagnostic workup of primary hypertension. 2. Describe the diagnostic workup of secondary hypertension.	K	KH	Y	Small group discussion	Skill assessment/ Written/ Viva voce			
IM8.13	Enumerate the indications for and interpret the results of : CBC, Urine routine, BUN, Cr, Electrolytes, Uric acid, ECG	At the end of the session the phase-III, part II MBBS student must be able to : Discuss the interpretations of cbc, uriner/m, kft, uric acid and ecg in a case of hypertension.	K	KH	Y	Small group discussion	Skill assessment/ Written/ Viva voce			
IM8.14	Develop an appropriate treatment plan for essential hypertension	At the end of the session the phase-III, part II MBBS student must be able to : Describe the treatment plan for hypertension.	K	KH	Y	Small group discussion	Written/ Viva voce		Pharmacology	
IM8.15	Recognise, prioritise and manage hypertensive emergencies	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the hypertensive emergencies . 2. discuss the management of hypertensive emergencies.	S	SH	Y	DOAP session	Skill assessment/ Written		Pharmacology	
IM8.16	Develop and communicate to the patient lifestyle modification including weight reduction, moderation of alcohol intake, physical activity and sodium intake	At the end of the session the phase-III, part II MBBS student must be able to : Describe the lifestyle modifications regarding hypertension.	C	SH	Y	DOAP session	Skill assessment			
IM8.17	Perform and interpret a 12 lead ECG	At the end of the session the phase-III, part II MBBS student must be able to : Perform and describe the interpretations of a 12 lead ecg.	S	P	Y	DOAP session	documentation in log book/ skills station			
IM8.18	Incorporate patient preferences in the management of HTN	At the end of the session the phase-III, part II MBBS student must be able to : Discuss and incorporate patient preferences in the management of hypertension.	A/C	SH	Y	DOAP session	Skill assessment			
IM8.19	Demonstrate understanding of the impact of Hypertension on quality of life, well being, work and family	At the end of the session the phase-III, part II MBBS student must be able to : Demonstrate the impact of hypertension on quality of life, well being , work and family.	A	SH	Y	Bedside clinic, DOAP session	observation by faculty			
IM8.20	Determine the need for specialist consultation	At the end of the session the phase-III, part II MBBS student must be able to : Discuss the need for the specialist consultation in management of hypertension.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
Topic: Anemia			Number of competencies: (21)				Number of procedures that require certification : (NIL)			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM9.1	Define, describe and classify anemia based on red blood cell size and reticulocyte count	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define anaemia 2. Classify anaemia on size of RBC as microcytic , normocytic and macrocytic 3. Define reticulocyte count. Classify anaemia on the basis of low, normal and high reticulocytic count	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM9.2	Describe and discuss the morphological characteristics, aetiology and prevalence of each of the causes of anemia	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the types of anaemias on the basis of aetiology. 2. List the prevalence and the causes of anaemia of each type.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM9.3	Elicit document and present a medical history that includes symptoms, risk factors including GI bleeding, prior history, medications, menstrual history, and family history	At the end of session phase III part II MBBS , student must be able to : 1. Present medical history of anaemia the includes symptoms , risk factors , prior history , medications , menstrual history and family history. 2. Record / Document case history of anaemia.	S	SH	Y	Bed side clinic, DOAP session	Skill assessment			
IM9.4	Perform a systematic examination that includes : general examination for pallor, oral examination, DOAP session of hyper dynamic circulation, lymph node and splenic examination	At the end of session phase III part II MBBS , student must be able to : 1. Perform independently systemic examination including general examination of pallor , oral examination. 2. Present DOAP session hyperdynamic circulation . 3. Perform independently Lymph node , spleen examination	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM9.5	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	At the end of session phase III part II MBBS , student must be able to : 1. Present differential diagnosis of anaemia . 2. Identify specific etiology based on clinical features.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Written		Pathology	
IM9.6	Describe the appropriate diagnostic work up based on the presumed aetiology	At the end of session phase III part II MBBS , student must be able to : 1. Document the diagnostic workup based on presumed etiology . (FLOW CHART)	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Written		Pathology	
IM9.7	Describe and discuss the meaning and utility of various components of the hemogram	1. Describe the meaning of hemogram 2. Describe the component of hemogram 3. Discuss the utility of various component of hemogram.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce/ Skill assessment		Pathology	
IM9.8	Describe and discuss the various tests for iron deficiency	At the end of session phase III part II MBBS , student must be able to : Describe the various test for iron deficiency	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce/ Skill assessment		Pathology	

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
IM9.9	Order and interpret tests for anemia including hemogram, red cell indices, reticulocyte count, iron studies, B12 and folate	At the end of session phase III part II MBBS , student must be able to : 1. Perform under supervision order test for anemia including hemogram, red cell indices, reticulocyte count, iron studies, B12 and folate.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Written		Pathology
IM9.10	Describe, perform and interpret a peripheral smear and stool occult blood	At the end of session phase III part II MBBS , student must be able to : 1. Perform under supervision peripheral blood smear 2. Interpret peripheral blood smear. 3. Interpret stool for occult blood	S	SH	P	Bedside clinic, DOAP session	Skill assessment/ Written		Pathology
IM9.11	Describe the indications and interpret the results of a bone marrow aspirations and biopsy	At the end of session phase III part II MBBS , student must be able to : 1. Describe the indication of bone marrow aspiration 2. Describe the indications of bone marrow biopsy 3. Interpret the results of bone marrow aspiration 4. Interpret the results of bone marrow biopsy.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce/ Skill assessment		Pathology
IM9.12	Describe, develop a diagnostic plan to determine the aetiology of anemia	At the end of session phase III part II MBBS , student must be able to : Describe a diagnostic plan to determine the aetiology of anemia.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce/ Skill assessment		Pathology
IM9.13	Prescribe replacement therapy with iron, B12, folate	At the end of session phase III part II MBBS , student must be able to : Perform under supervision replace therapy with iron , B12 , Folate.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Written		Pharmacology
IM9.14	Describe the national programs for anemia prevention	At the end of session phase III part II MBBS , student must be able to : Describe the national program for anemia prevention.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology, Community Medicine
IM9.15	Communicate the diagnosis and the treatment appropriately to patients	At the end of session phase III part II MBBS , student must be able to : 1. Communicate the diagnosis appropriately to patients. 2. Communicate the treatment appropriately to patients.	C	SH	Y	DOAP session	Skill assessment		
IM9.16	Incorporate patient preferences in the management of anemia	At the end of session phase III part II MBBS , student must be able to : Council the patient preferences in the management of anemia.	C	SH	Y	DOAP session	Skill assessment		
IM9.17	Describe the indications for blood transfusion and the appropriate use of blood components	At the end of session phase III part II MBBS , student must be able to : 1. Describe the indications for blood transfusion 2. Choose the appropriate use of blood components.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce/ Skill assessment		Pathology

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM9.18	Describe the precautions required necessary when performing a blood transfusion	At the end of session phase III part II MBBS , student must be able to : Describe the precautions required necessary when performing a blood transfusion.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce/ Skill assessment			
IM9.19	Assist in a blood transfusion	At the end of session phase III part II MBBS , student must be able to : Perform under supervision in blood transfusion	S	SH	Y	Bedside clinic	document in log book			
IM9.20	Communicate and counsel patients with methods to prevent nutritional anemia	At the end of session phase III part II MBBS , student must be able to : 1. Communicate the patients with the methods to prevent nutritional anemia. 2. Counsel the patients with the methods to prevent nutritional anemia	C	SH	Y	DOAP session	Skill assessment			
IM9.21	Determine the need for specialist consultation	At the end of session phase III part II MBBS , student must be able to : Describe the need for specialist consultation.	K	KH	Y	Lecture, Small group discussion	Written			
Topic: Acute Kidney Injury and Chronic renal failure			Number of competencies: (31)			Number of procedures that require certification: (NIL)				
IM10.1	Define, describe and differentiate between acute and chronic renal failure	At the end of session phase III part II MBBS , student must be able to : 1. Define acute renal failure. 2. Define chronic renal failure. 3. Describe acute renal failure. 4. Describe chronic renal failure. 5. Differentiate between acute and chronic renal failure.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.2	Classify, describe and differentiate the pathophysiologic causes of acute renal failure	At the end of session phase III part II MBBS , student must be able to : 1. Classify acute renal failure. 2. Describe acute renal failure. 3. Differentiate the pathophysiologic causes of acute renal failure.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.3	Describe the pathophysiology and causes of pre renal ARF, renal and post renal ARF	At the end of session phase III part II MBBS , student must be able to : 1. Describe the pathophysiology of pre renal ARF. 2. Describe the pathophysiology of Renal ARF. 3. Describe the pathophysiology of Post renal ARF. 4. Describe the causes of pre renal ARF. 5. Describe the causes of renal ARF. 6. Describe the causes of Post renal ARF.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.4	Describe the evolution, natural history and treatment of ARF	At the end of session phase III part II MBBS , student must be able to : 1. Describe the evolution of ARF. 2. Describe the natural history of ARF. 3. Describe the treatment of ARF.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM10.5	Describe and discuss the aetiology of CRF	At the end of session phase III part II MBBS , student must be able to : 1. Describe the etiology of CRF. 2. Discuss the etiology of CRF.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.6	Stage Chronic Kidney Disease	At the end of session phase III part II MBBS , student must be able to : Classify stages of CKD.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.7	Describe and discuss the pathophysiology and clinical findings of uraemia	At the end of session phase III part II MBBS , student must be able to : 1. Describe the pathophysiology of uraemia. 2. Discuss the clinical features of uraemia.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.8	Classify, describe and discuss the significance of proteinuria in CKD	At the end of session phase III part II MBBS , student must be able to : 1. Classify the significance of proteinuria in CKD. 2. Describe the significance of proteinuria in CKD.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.9	Describe and discuss the pathophysiology of anemia and hyperparathyroidism in CKD	At the end of session phase III part II MBBS , student must be able to : 1. Describe the pathophysiology of anemia in CKD. 2. Describe the pathophysiology of hyperparathyroidism in CKD.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.10	Describe and discuss the association between CKD glycemia and hypertension	At the end of session phase III part II MBBS , student must be able to : Describe the association between CKD glycemia and hypertension.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.11	Describe and discuss the relationship between CAD risk factors and CKD and in dialysis	At the end of session phase III part II MBBS , student must be able to : 1. Describe the relationship between CAD risk factors with CKD. 2. Describe the relationship between CAD risk Factors and CKD in dialysis patient.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM10.12	Elicit document and present a medical history that will differentiate the aetiologies of disease, distinguish acute and chronic disease, identify predisposing conditions, nephrotoxic drugs and systemic causes	At the end of session phase III part II MBBS , student must be able to : 1. Document medical history that will differentiate the etiologies of disease (in renal patient). 2. Document medical history that distinguish acute disease. 3. Document medical history that distinguish chronic disease. 4. Document medical history that identify predisposing conditions. 5. Document medical history that identify nephrotoxic	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration	
GENERAL MEDICINE										
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)					
IM10.13	Perform a systematic examination that establishes the diagnosis and severity including determination of volume status, presence of edema and heart failure, features of uraemia and associated systemic disease	At the end of session phase III part II MBBS , student must be able to : 1. Perform independently the systemic examination of CKD patient to establish diagnosis. 2. Identify the CKD severity determination. A. Volume status. B. Presence of oedema. C. Presence of heart failure. d. Uraemia features. e. Any associated systemic disease.			S	SH	Y	Bedside clinic, DOAP session	Skill assessment	
IM10.14	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	At the end of session phase III part II MBBS , student must be able to : 1. Enumerate the differential diagnosis based on clinical features that suggest a specific etiology. 2. Choose priorities based on clinical features that suggest a specific etiology.			K	KH	Y	DOAP session, Small group discussion	Skill assessment/ Written/ Viva voce	
IM10.15	Describe the appropriate diagnostic work up based on the presumed aetiology	At the end of session phase III part II MBBS , student must be able to : Describe the appropriate diagnostic workup base presumed etiology . (FLOWCHART).			K	SH	Y	DOAP session, Small group discussion	Skill assessment/ Written/ Viva voce	
IM10.16	Enumerate the indications for and interpret the results of : renal function tests, calcium, phosphorus, PTH, urine electrolytes, osmolality, Anion gap	At the end of session phase III part II MBBS , student must be able to : 1. Enumerate the indications for renal function tests. 2. Enumerate the indications for calcium , phosphorus. 3. Enumerate the indications for parathyroid hormones. 4. Enumerate the indications for urine electrolytes , osmolality , anion gap. 5. Interpret the results of renal function test. 6. Interpret the results of calcium , phosphorus , PTH. 7. Interpret the results of urine electrolytes , osmolality , anion gap.			K	KH	Y	DOAP session, Small group discussion	Skill assessment/ Written/ Viva voce	Pathology
IM10.17	Describe and calculate indices of renal function based on available laboratories including FENa (Fractional Excretion of Sodium) and CrCl (Creatinine Clearance)	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate renal function test. 2. Interpret indices includin FeNa and CrCl.			S	SH	Y	DOAP session, Small group discussion	Skill assessment/ Written/ Viva voce	Pathology
IM10.18	Identify the ECG findings in hyperkalemia	At the end of session phase III part II MBBS , student must be able to : Identify the ECG findings in hyperkalemia.			S	SH	Y	DOAP session, Small group discussion	Skill assessment/ Written/ Viva voce	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM10.19	Enumerate the indications and describe the findings in renal ultrasound	At the end of session phase III part II MBBS , student must be able to : 1. Enumerate the indications of renal ultrasound. 2. Describe the findings in Renal ultrasound.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Radiodiagnosis	
IM10.20	Describe and discuss the indications to perform arterial blood gas analysis: interpret the data	At the end of session phase III part II MBBS , student must be able to : 1. Document the indications to perform ABG analysis. 2. Interpret the data of ABG analysis	S	P	Y	DOAP session	documentation in log book			
IM10.21	Describe and discuss the indications for and insert a peripheral intravenous catheter	At the end of session phase III part II MBBS , student must be able to : 1. Describe the indications for peripheral intravenous catheter. 2. Perform independently to insert a peripheral intravenous catheter.	S	P	Y	DOAP session, Bedside clinic	documentation in logbook			
IM10.22	Describe and discuss the indications, demonstrate in a model and assist in the insertion of a central venous or a dialysis catheter	At the end of session phase III part II MBBS , student must be able to : 1. The indications of central venous catheter. 2. The indications of insertion of dialysis catheter. 3. Demonstrate in model the insertion of central venous / dialysis catheter.	S	SH	N	DOAP session	Skill assessment with model			
IM10.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients	At the end of session phase III part II MBBS , student must be able to : 1. Communicate diagnosis to the patients. 2. Communicate treatment plan to the patients. 3. Counsel for subsequent followup plan to patients.	C	SH	Y	DOAP session	Skill assessment			
IM10.24	Counsel patients on a renal diet	At the end of session phase III part II MBBS , student must be able to : Counsel patients on renal diet.	K	SH	Y	DOAP session	Skill assessment			
IM10.25	Identify and describe the priorities in the management of ARF including diet, volume management, alteration in doses of drugs, monitoring and indications for dialysis	At the end of session phase III part II MBBS , student must be able to : 1. List of priorities in the mngement of ARF. 2. Inform patient priorities in ARF management about diet , volume management , alteration in doses of drugs and indiactions for dailysis.	K/C	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
IM10.26	Describe and discuss supportive therapy in CKD including diet, anti hypertensives, glyceemic therapy, dyslipidemia, anemia, hyperkalemia, hyperphosphatemia and secondary hyperparathyroidism	At the end of session phase III part II MBBS , student must be able to : 1. Describe the supportive treatment in CKD including a. Diet b. Antihypertensive c. Glycemic treatment. D. Dyslipidemia e. Anemia f. Hyperkalemia g. Hyperphosphatemia h. Secondary hyperparathyroidism	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		
IM10.27	Describe and discuss the indications for renal dialysis	At the end of session phase III part II MBBS , student must be able to : Communicate the indication of renal dialysis.	C/A	KH	Y	Lecture, Small group discussion	Written/ Viva voce		
IM10.28	Describe and discuss the indications for renal replacement therapy	At the end of session phase III part II MBBS , student must be able to : Communicate the indications for renal replacement therapy.	C	KH	Y	Lecture, Small group discussion	Written/ Viva voce		
IM10.29	Describe discuss and communicate the ethical and legal issues involved in renal replacement therapy	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate understanding of ethical issues involved in renal replacement therapy. 2. Inform the legal issues involved in renal replacement therapy.	C/A	KH	Y	Lecture, Small group discussion	Written/ Viva voce		
IM10.30	Recognise the impact of CKD on patient's quality of life well being work and family	At the end of session phase III part II MBBS , student must be able to : 1. Inform about CKD. 2. Councel about CKD impact on patient qaility of life , well being. 3. Councel patient about CKD patient family for disease	A	K	Y	Lecture, Small group discussion, Bedside clinic	observation by faculty		
IM10.31	Incorporate patient preferences in to the care of CKD	At the end of session phase III part II MBBS , student must be able to : Councel the patient in to care of CKD.	A/C	KH	Y	Lecture, Small group discussion, Bedside clinic	observation by faculty		
Topic: Diabetes Mellitus		Number of competencies: (24)			Number of procedures that require certification : (02)				
IM11.1	Define and classify diabetes	At the end of session phase III part II MBBS , student must be able to : 1. Define the diabetes. 2. Classify the diabetes.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM11.2	Describe and discuss the epidemiology and pathogenesis and risk factors and clinical evolution of type 1 diabetes	At the end of session phase III part II MBBS , student must be able to : 1. Describe the epidemiology of Type 1 Diabetes. 2. Discuss the pathogenesis of Type 1 Diabetes. 3. Describe the risk factors of Type 1 Diabetes. 4. Describe the clinical evolution of Type 1 Diabetes.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM11.3	Describe and discuss the epidemiology and pathogenesis and risk factors economic impact and clinical evolution of type 2 diabetes	At the end of session phase III part II MBBS , student must be able to : 1. Describe the epidemiology of Type 2 Diabetes. 2. Discuss the pathogenesis of Type 2 Diabetes. 3. Describe the risk factors of Type 2 Diabetes. 4. Describe the clinical evolution of Type 2 Diabetes.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM11.4	Describe and discuss the genetic background and the influence of the environment on diabetes	At the end of session phase III part II MBBS , student must be able to : 1. Describe the genetic background of diabetes. 2. Discuss the influence of environment on diabetes.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce			
IM11.5	Describe and discuss the pathogenesis and temporal evolution of microvascular and macrovascular complications of diabetes	At the end of session phase III part II MBBS , student must be able to : 1. Describe the pathogenesis of diabetes. 2. Discuss the temporal evolution of microvascular complication of diabetes. 3. Discuss the temporal evolution of macrovascular complication of diabetes.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM11.6	Describe and discuss the pathogenesis and precipitating factors, recognition and management of diabetic emergencies	At the end of session phase III part II MBBS , student must be able to : 1. Describe the pathogenesis of diabetic emergencies. 2. Discuss the precipitating factors of diabetic emergencies. 3. Describe the recognition of diabetic emergencies. 4. Describe the management of diabetic emergencies.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM11.7	Elicit document and present a medical history that will differentiate the aetiologies of diabetes including risk factors, precipitating factors, lifestyle, nutritional history, family history, medication history, co-morbidities and target organ disease	At the end of session phase III part II MBBS , student must be able to : 1. Present the medical history that will differentiate the aetiologies of diabetes including risk factors , precipitating factors , life style , nutritional history family history , medical history , co morbidities and target organ damage. 2. Document the medical history that will include risk factors, precipitating factors, lifestyle, nutritional history, family history, medication history, co-morbidities and target organ disease.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM11.8	Perform a systematic examination that establishes the diagnosis and severity that includes skin, peripheral pulses, blood pressure measurement, fundus examination, detailed examination of the foot (pulses, nervous and deformities and injuries)	At the end of session phase III part II MBBS , student must be able to : 1. Perform independently systematic examination to establish the diagnosis. 2. Identify the severity by examining a. Skin b. Pulse c. Blood Pressure d. Fundus e. Foot examination for pulse , injury and deformity.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM11.9	Describe and recognise the clinical features of patients who present with a diabetic emergency	At the end of session phase III part II MBBS , student must be able to : 1. Describe the clinical features of patients who presents with diabetic emergencies. 2. Identify the clinical features of patients who presents with diabetic emergency.	K	KH	Y	Small group discussion, Lecture	Written/ Viva voce			
IM11.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology	At the end of session phase III part II MBBS , student must be able to : 1. Discuss the differential diagnosis based on clinical features that suggest specific aetiology. 2. Choose priorities , based on clinical features that suggest specific aetiologies.	K	KH	Y	Small group discussion, Lecture	Written/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM11.11	Order and interpret laboratory tests to diagnose diabetes and its complications including: glucoses, glucose tolerance test, glycosylated hemoglobin, urinary micro albumin, ECG, electrolytes, ABG, ketones, renal function tests and lipid profile	At the end of session phase III part II MBBS , student must be able to : 1. Perform independently to order laboratory test to diagnose diabetes. 2. Interpret laboratory test to diagnose diabetes. 3. Interpret its complications including : a. Glucose tolerance test. b. Glycosylated hemoglobin c. Urine microalbumin d. ECG e. Electrolytes. f. ABG g. Ketones. h. Renal function test i. Lipid profile	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		Pathology	
IM11.12	Perform and interpret a capillary blood glucose test	At the end of session phase III part II MBBS , student must be able to : 1. Perform independently capillary blood glucose test. 2. Interpret capillary blood glucose test.	S	P	Y	Bedside clinic, DOAP session	Skill assessment	2	Pathology, Biochemistry	
IM11.13	Perform and interpret a urinary ketone estimation with a dipstick	At the end of session phase III part II MBBS , student must be able to : 1. Perform urinary ketone estimation with dipstick. 2. Interpret urinary ketone estimation with dipstick.	S	P	Y	Bedside clinic, DOAP session	Skill assessment	2	Pathology, Biochemistry	
IM11.14	Recognise the presentation of hypoglycaemia and outline the principles on its therapy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define hypoglycemia 2. Enumerate clinical features of hypoglycemia 3. Discuss the treatment of hypoglycemia	K	KH	Y	Small Group discussion, Lecture	Written/ Viva voce			
IM11.15	Recognise the presentation of diabetic emergencies and outline the principles of therapy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate Diabetic emergencies 2. Enumerate clinical features of Diabetic Ketoacidosis 3. Enumerate clinical features of Hyperglycemic hyperosmolar state 4. Enumerate clinical features of hyperglycemia 5. Discuss the treatment of Diabetic ketoacidosis 6. Discuss the treatment of Hyperglycemic hyperosmolar state 7. Discuss the treatment of Hyperglycemia	K	KH	Y	Small Group discussion, Lecture	Written/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM11.16	Discuss and describe the pharmacologic therapies for diabetes their indications, contraindications, adverse reactions and interactions	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate types of oral hypoglycemic agents 2. List the indications of oral hypoglycemic agents 3. List the contraindications of oral hypoglycemic agents 4. List adverse reactions of oral hypoglycemic agents 5. Discuss the drug interactions of oral hypoglycemic agents	K	KH	Y	Small Group discussion, Lecture	Written/ Viva voce		Pharmacology	
IM11.17	Outline a therapeutic approach to therapy of T2Diabetes based on presentation, severity and complications in a cost effective manner	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the oral hypoglycemic drugs according to clinical presentation and severity. 2. List of Oral hypoglycemic agents according to economic status. 3. Classify the drugs with their complications.	K	KH	Y	Small Group discussion, Lecture	Written/ Viva voce			
IM11.18	Describe and discuss the pharmacology, indications, adverse reactions and interactions of drugs used in the prevention and treatment of target organ damage and complications of Type II Diabetes including neuropathy, nephropathy, retinopathy, hypertension, dyslipidemia and cardiovascular disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define target organ damage in type II diabetes 2. Discuss the treatment of target organ damage in type II diabetes with mechanism of action 3. List indications of target organ damage in type II diabetes 4. List adverse reactions of drugs used in target organ damage in type II diabetes 5. Discuss the drug interactions of drugs used in target organ damage 6. Describe the preventive measures of target organ damage 7. Classify complications of type II Diabetes 8. Discuss diabetic neuropathy with clinical features 9. Discuss diabetic nephropathy with clinical features 10. Discuss diabetic retinopathy with clinical features	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
IM11.19	Demonstrate and counsel patients on the correct technique to administer insulin	At the end of the session the phase-III, part II MBBS student must be able to : 1. counsel the patient regarding administering of insulin 2. Demonstrate how to administer insulin 3. Perform under supervision	S/C	SH	Y	DOAP session	Skill assessment		Pharmacology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM11.20	Demonstrate to and counsel patients on the correct technique of self monitoring of blood glucoses	At the end of the session the phase-III, part II MBBS student must be able to : 1. counsel the patient regarding self monitoring of blood glucose 2. Demonstrate how to monitor blood glucose 3. Perform under supervision	S/C	SH	Y	DOAP session	Skill assessment			
IM11.21	Recognise the importance of patient preference while selecting therapy for diabetes	At the end of the session the phase-III, part II MBBS student must be able to : 1. Inform the patient regarding the selective therapy on the basis of complications and severity of diabetes	A	KH	Y	DOAP session	faculty observation			
IM11.22	Enumerate the causes of hypoglycaemia and describe the counter hormone response and the initial approach and treatment	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate causes of hypoglycemia 2. Discuss the pathophysiology of hormones in hypoglycemia 3. Discuss the counter regulatory mechanism of hypoglycemia 4. Describe the approach of the hypoglycemia and its treatment	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
IM11.23	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of diabetic ketoacidosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the causes and risk factors of Diabetic ketoacidosis 2. Describe the pathophysiology of Diabetic ketoacidosis 3. List the clinical features of Diabetic ketoacidosis 4. Describe the presentation of Diabetic ketoacidosis 5. Discuss the diagnosis of Diabetic ketoacidosis 6. Discuss management of Diabetic ketoacidosis	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM11.24	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of Hyperosmolar non ketotic state	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the causes and risk factors of Hyperosmolar non ketotic state 2. Describe the pathophysiology of Hyperosmolar non ketotic state 3. List the clinical features of Hyperosmolar non ketotic state 4. Discuss the presentation of Hyperosmolar non ketotic state 5. Discuss the diagnosis of Hyperosmolar non ketotic state 6. Discuss management of Hyperosmolar non ketotic state	K	KH	N	Lecture, Small group discussion	Written/ Viva voce			

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
Topic: Thyroid dysfunction		Number of competencies: (15)			Number of procedures that require certification : (NIL)				
IM12.1	Describe the epidemiology and pathogenesis of hypothyroidism and hyperthyroidism including the influence of iodine deficiency and autoimmunity in the pathogenesis of thyroid disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss epidemiology of hypothyroidism 2. Discuss epidemiology of hyperthyroidism 3. Describe pathophysiology of hypothyroidism 4. Describe pathophysiology of hyperthyroidism 5. Discuss pathogenesis of iodine deficiency in hyperthyroidism 6. Discuss pathogenesis of iodine deficiency in hypothyroidism 7. Discuss pathogenesis of autoimmunity in hyperthyroidism 8. Discuss pathogenesis of autoimmunity in hypothyroidism	K	K	Y	Lecture, Small group discussion	Written/ Viva voce	Pathology, Physiology	
IM12.2	Describe and discuss the genetic basis of some forms of thyroid dysfunction	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss role of genetics in thyroid disorders	K	K	N	Lecture, Small group discussion	Written/ Viva voce		
IM12.3	Describe and discuss the physiology of the hypothalamopituitary - thyroid axis, principles of thyroid function testing and alterations in physiologic function	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the physiology of the hypothalamopituitary-thyroid axis 2. Discuss principles of thyroid function tests 2. Describe changes in physiologic functioning in thyroid	K	K	Y	Lecture, Small group discussion	Short notes	Pathology, Physiology	
IM12.4	Describe and discuss the principles of radio iodine uptake in the diagnosis of thyroid disorders	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe radio iodine uptake 2. Discuss the principles of radio iodine uptake 3. Discuss role of radio iodine uptake in thyroid disorders.	K	KH	Y	Lecture, Small group discussion	Short notes/ Viva voce		
IM12.5	Elicit document and present an appropriate history that will establish the diagnosis cause of thyroid dysfunction and its severity	At the end of the session the phase-III, part II MBBS student must be able to : 1. Present history of thyroid disorder 2. Identify cause of thyroid disorder 3. Demonstrate diagnosis of thyroid disorder 4. Interpret the severity of thyroid dysfunction	S	SH	Y	Bedside clinic	Skill assessment/ Short case		

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM12.6	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and severity including systemic signs of thyrotoxicosis and hypothyroidism, palpation of the pulse for rate and rhythm abnormalities, neck palpation of the thyroid and lymph nodes and cardiovascular findings	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate Respiratory system examination in thyroid disorder 2. Perform under supervision Respiratory system examination in thyroid disorder 3. Demonstrate abdominal examination in thyroid disorder 4. Perform under supervision abdominal examination in thyroid disorder 5. Demonstrate cardiovascular system axamination in thyroid disorder 6. Perform under supervision cardiovascular system examination in thyroid disorder 7. Identify changes in cardiovascular system 8. Demonstrate palpation of pulse rate 9. Identify abnormalities in pulse rate and rhythm 10. Demonstrate neck palpation of the thyroid gland 11. Perform under supervision neck palpation of the thyroid gland 12. Demonstrate palpation of lymphnodes 13. Perform under supervision palpation of lymphnodes 14. Identify systemic signs of thyrotoxicosis 15. Identify systemic signs of hypothyroidism 16. Demonstrate severity of hypothyroididsm 17. Demonstrate severity of hyperthyroisism	S	SH	Y	Bed side clinic, DOAP session	Skill assessment			General Surgery
IM12.7	Demonstrate the correct technique to palpate the thyroid	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform under supervision palpation of thyroid gland	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			General Surgery
IM12.8	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. List differential diagnosis on the basis of clinical features choose the most likely diagnosis first	K	KH	Y	Bedside clinic, small group discussion	Short case			General Surgery

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM12.9	Order and interpret diagnostic testing based on the clinical diagnosis including CBC, thyroid function tests and ECG and radio iodine uptake and scan	At the end of the session the phase-III, part II MBBS student must be able to : 1. Identify clinical features of hypothyroidism 2. Identify clinical features of hyperthyroidism 3. Document CBC in hypothyroidism 4. Document CBC in hyperthyroidism 5. Document thyroid function tests 6. Identify thyroid disorder on the basis of thyroid function tests 7. Identify ECG changes in hypothyroidism 8. Identify ECG changes in hyperthyroidism 9. Document radio iodine uptake scan in hyperthyroidism	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			General Surgery
IM12.10	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG	At the end of the session the phase-III, part II MBBS student must be able to : 1. Identify atrial fibrillation on ECG 2. Identify pericardial effusion on ECG 3. Identify bradycardia on ECG	S	SH	Y	Bedside clinic, lab	Skill assessment			General Surgery
IM12.11	Interpret thyroid function tests in hypo and hyperthyroidism	At the end of the session the phase-III, part II MBBS student must be able to : 1. Interpret thyroid function tests in hypothyroidism 2. Interpret thyroid function tests in hyperthyroidism	S	SH	Y	Bedside clinic, lab	Skill assessment			General Surgery
IM12.12	Describe and discuss the iodisation programs of the government of India	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the iodisation programs of the government of India 2. Describe the national iodisation programmes	K	KH	Y	Lecture, Bedside clinic	Short note		Community Medicine	
IM12.13	Describe the pharmacology, indications, adverse reaction, interactions of thyroxine and antithyroid drugs	At the end of the session the phase-III, part II MBBS student must be able to : 1. Classify antithyroid drugs 2. Discuss mechanism of action of antithyroid drugs 3. Enumerate indications of antithyroid drugs 4. List the drug interactions of antithyroid drugs 5. List the adverse reactions of antithyroid drugs 6. Discuss mechanism of action of Thyroxine 7. Enumerate indications of Thyroxine 8. List the drug interactions of Thyroxine 9. List the adverse reactions of Thyroxine	K	KH	Y	Lecture, Small group discussion	Viva voce/ Short note		Pharmacology	General Surgery

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration	
GENERAL MEDICINE										
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)					
IM12.14	Write and communicate to the patient appropriately a prescription for thyroxine based on age, sex, and clinical and biochemical status	At the end of the session the phase-III, part II MBBS student must be able to : 1. Inform the patient about thyroxine 2. Document thyroxine based on age 3. Document thyroxine based on sex 4. Document thyroxine based on clinical features 5. Document thyroxine based on thyroid function tests			S/C	SH	Y	Skill assessment	Skill assessment	Pharmacology
IM12.15	Describe and discuss the indications of thionamide therapy, radio iodine therapy and surgery in the management of thyrotoxicosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indications of thionamide therapy 2. Discuss the mechanism of action of thionamide therapy 3. Enumerate indications of radio iodine therapy 4. Discuss radio iodine therapy in thyrotoxicosis 5. Indications of surgery in thyrotoxicosis			K	KH	Y	Bedside clinic, Small group discussion	Short note/ Viva voce	Pharmacology General Surgery
Topic: Common malignancies		Number of competencies: (19)			Number of procedures that require certification : (NIL)					
IM13.1	Describe the clinical epidemiology and inherited & modifiable risk factors for common malignancies in India	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate common malignancies in India 2. Discuss clinical epidemiology of common malignancies 3. Discuss the inherited risk factors of common malignancies in India 4. Discuss the modifiable risk factors of common malignancies in India			K	K	Y	Lecture, Small group discussion	Short note/ Viva voce	Pathology, Biochemistry
IM13.2	Describe the genetic basis of selected cancers	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the genetic basis of breast cancer 2. Discuss the genetic basis of lung cancer 3. Discuss the genetic basis of cervix cancer 4. Discuss the genetic basis of oral cancer			K	K	N	Lecture, Small group discussion	Short note/ Viva voce	Pathology
IM13.3	Describe the relationship between infection and cancers	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the infections causing cancer 2. Discuss role of infections in cancer			K	K	Y	Lecture, Small group discussion	Short note/ Viva voce	Pathology, Microbiology

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM13.4	Describe the natural history, presentation, course, complications and cause of death for common cancers	At the end of the session the phase-III, part II MBBS student must be able to : <ol style="list-style-type: none"> 1. Discuss natural history of breast cancer 2. Discuss natural history of lung cancer 3. Discuss natural history of oral cancer 4. Discuss natural history of cervix cancer 5. Describe clinical features of breast cancer 6. Describe clinical features of cervix cancer 7. Describe clinical features of oral cancer 8. Describe clinical features of lung cancer 9. Enumerate complications of breast cancer 10. Enumerate complications of lung cancer 11. Enumerate complications of oral cancer 12. Enumerate complications of cervix cancer 13. Discuss cause of death of breast cancer 14. Discuss cause of death of lung cancer 15. Discuss cause of death oral cancer 	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology	
IM13.5	Describe the common issues encountered in patients at the end of life and principles of management	At the end of the session the phase-III, part II MBBS student must be able to : <ol style="list-style-type: none"> 1. Discuss the common complications in cancer patients in the end stage 2. Discuss the management of cervix cancer in the end stage 3. Discuss the management of lung cancer in the end stage 4. Discuss the management of breast cancer in the end stage 5. Discuss the management of oral cancer in the end stage 	K	K	N	Lecture, Small group discussion	Short note/ Viva voce			
IM13.6	Describe and distinguish the difference between curative and palliative care in patients with cancer	At the end of the session the phase-III, part II MBBS student must be able to : <ol style="list-style-type: none"> 1. Describe curative care in cancer patients 2. Describe palliative care in cancer patients 3. Differentiate between palliative care and curative care in cancer patients 	K	K	N	Lecture, Small group discussion	Short note/ Viva voce		Pharmacology	
IM13.7	Elicit document and present a history that will help establish the aetiology of cancer and includes the appropriate risk factors, duration and evolution	At the end of the session the phase-III, part II MBBS student must be able to : <ol style="list-style-type: none"> 1. Present history of cancer patient 2. Identify aetiology of cancer patient 3. Identify the risk factors of cancer patient 4. Document duration of cancer 	S	K	Y	Bedside clinic	Skill assessment/ Short case			General Surgery

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM13.8	Perform and demonstrate a physical examination that includes an appropriate general and local examination that excludes the diagnosis, extent spread and complications of cancer	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform under supervision general examination of cancer patient 2. Perform under supervision local examination of cancer patient 3. Demonstrate the diagnosis on basis of examination 4. Interpret the spread of cancer 5. Identify the complications of cancer	S	SH	Y	Bedside clinic	Skill assessment/ short case			General Surgery
IM13.9	Demonstrate in a mannequin the correct technique for performing breast exam, rectal examination and cervical examination and pap smear	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate Breast examination 2. Demonstrate rectal examination 3. Demonstrate pap smear	S	K	Y	Bedside clinic	Skill assessment/ Short case		Human Anatomy	General Surgery
IM13.10	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Document the differential diagnosis of cancer on basis of clinical features Interpret the differential diagnosis on priority basis	S	K	Y	Bedside clinic	Skill assessment/ Short case			General Surgery
IM13.11	Order and interpret diagnostic testing based on the clinical diagnosis including CBC and stool occult blood and prostate specific antigen	At the end of the session the phase-III, part II MBBS student must be able to : 1. Document CBC in cancer patient 2. Document stool occult blood in cancer patient 3. Document prostate specific antigen in cancer patient 4. Interpret stool occult blood in cancer patient 5. Interpret CBC in cancer patient 6. Interpret prostate specific antigen in cancer patient	S	K	Y	Bedside clinic	Skill assessment/ Short case			

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
IM13.12	Describe the indications and interpret the results of Chest X Ray, mammogram, skin and tissue biopsies and tumor markers used in common cancers	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe indications of Chest xray in common cancers 2. Elicit the chest xray findings in common cancers 3. Describe indications of mammogram in common cancers 4. Elicit the mammogram findings in common cancers 5. Describe indications of skin biopsies in common cancers 6. Discuss the skin biopsies findings in common cancers 7. Describe indications of Tissue biopsies in common cancers 8. Discuss the tissue biopsies findings in common cancers 9. Describe indications of tumor markers in common cancers 10. Elicit the tumor markers findings in common cancers	K	KH	Y	Bedside clinic, Small group discussion	Short note/ Viva voce		Radiodiagnosis
IM13.13	Describe and assess pain and suffering objectively in a patient with cancer	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss pain in patient with cancer 2. Discuss the severity of pain with cancer	K	KH	Y	Bedside clinic, Small group discussion	Short note/ Viva voce		Pharmacology General Surgery
IM13.14	Describe the indications for surgery, radiation and chemotherapy for common malignancies	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss indications of surgery for common malignancies 2. Discuss indications of radiation for common	K	KH	Y	Bedside clinic, Small group discussion	Short note/ Viva voce		Pharmacology General Surgery
IM13.15	Describe the need, tests involved, their utility in the prevention of common malignancies	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the preventive measures of common malignancies 2. Discuss the use of common tests in prevention of common malignancies	K	KH	Y	Bedside clinic, Small group discussion	Short note/ Viva voce		Pathology
IM13.16	Demonstrate an understanding and needs and preferences of patients when choosing curative and palliative therapy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate understanding of curative and palliative therapy	A/C	KH	Y	Bedside clinic, small group discussion	Short note/ Viva voce		AETCOM

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM13.17	Describe and enumerate the indications, use, side effects of narcotics in pain alleviation in patients with cancer	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate indications of narcotics in cancer patients 2. Describe indications of narcotics in cancer patients 3. Enumerate side effects of narcotics in cancer patients	K	KH	Y	Bedside clinic, Small group discussion	Short note/ Viva voce		Pharmacology	Anesthesiology
IM13.18	Describe and discuss the ethical and the medico legal issues involved in end of life care	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the ethical issues in end of life care 2. Describe the medico legal issues in end of life care	K	KH	Y	Bedside clinic, Small group discussion	Short note/ Viva voce		AETCOM	
IM13.19	Describe the therapies used in alleviating suffering in patients at the end of life	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the therapy and thier role in end of the disese. 2. Discuss the role of rehabilitation and counselling in cancer patient	K	KH	Y	Bedside clinic, Small group discussion	Short note/ Viva voce		AETCOM	
Topic: Obesity			Number of competencies: (15)				Number of procedures that require certification : (NIL)			
IM14.1	Define and measure obesity as it relates to the Indian population	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define obesity 2. Classify obesity 3. Disucss indian guidelines in obesity	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			
IM14.2	Describe and discuss the aetiology of obesity including modifiable and non-modifiable risk factors and secondary causes	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the aetiology of obesity 2. Enumerate modifiable risk factors of obesity 3. Enumerate non modifiable risk factors of obesity 4. Enumerate secondary causes of obesity	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology	
IM14.3	Describe and discuss the monogenic forms of obesity	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss monogenic forms of obesity	K	K	N	Lecture, Small group discussion	Short note/ Viva voce		Pathology	
IM14.4	Describe and discuss the impact of environmental factors including eating habits, food, work, environment and physical activity on the incidence of obesity	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss role of envirinmental factors on the incidence of obesity 2. Discuss role of physical activity on the incidence of obesity	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology, Community Medicine	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM14.5	Describe and discuss the natural history of obesity and its complications	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe natural history of obesity 2. Discuss complications of obesity	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology	
IM14.6	Elicit and document and present an appropriate history that includes the natural history, dietary history, modifiable risk factors, family history, clues for secondary causes and motivation to lose weight	At the end of the session the phase-III, part II MBBS student must be able to : 1. present history of obese patient 2. present natural history of obese patient 3. present dietary history of obese patient 4. present family history of obese patient 5. Demonstrate secondary causes in obese patient 6. Demonstrate counselling of obese patient to lose weight	S	SH	Y	Bedside clinic, Skills lab	Skill assessment			
IM14.7	Perform, document and demonstrate a physical examination based on the history that includes general examination, measurement of abdominal obesity, signs of secondary causes and comorbidities	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate General examination in obese 2. Document General examination in obese 3. Perform under supervision General examination in obese patient 4. Demonstrate measurement of abdominal obesity 5. Perform under supervision measurement of abdominal obesity 6. Demonstrate signs of secondary causes in obese	S	SH	Y	Bedside clinic, Skills lab	Skill assessment			
IM14.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Document differential diagnosis in obese patient on the basis of signs and symptoms 2. Interpret most likely diagnosis	S	SH	Y	Bedside clinic, Skills lab	Skill assessment/ Short note/ Viva voce			
IM14.9	Order and interpret diagnostic tests based on the clinical diagnosis including blood glucose, lipids, thyroid function tests etc.	At the end of the session the phase-III, part II MBBS student must be able to : 1. Document blood glucose in obese 2. Interpret blood glucose levels 3. Document lipid profile in obese 4. Interpret lipid profile in obese 5. Document thyroid profile in obese 6. Interpret thyroid profile in obese	S	SH	Y	Bedside clinic, Skills lab, Small group discussion	Skill assessment/ Short note/ Viva voce			
IM14.10	Describe the indications and interpret the results of tests for secondary causes of obesity	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate tests for secondary causes of obesity 2. Indications of tests for secondary causes of obesity 3. Elicit test results of secondary causes of obesity	K	KH	Y	Bedside clinic, Skills lab, Small group discussion	Skill assessment/ Short note/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM14.11	Communicate and counsel patient on behavioural, dietary and lifestyle modifications	At the end of the session the phase-III, part II MBBS student must be able to : 1. counsel the patient on behavioural modifications of obesity 2. counsel the patient on dietary modifications of obesity 3. counsel the patient on lifestyle modifications of obesity	C	SH	Y	Bedside clinic, Skills lab	Skill assessment			
IM14.12	Demonstrate an understanding of patient's inability to adhere to lifestyle instructions and counsel them in a non - judgemental way	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate an understanding of obese patient inability to adhere to lifestyle instructions 2. Counsel obese patient in a non - judgemental way	A/C	SH	Y	Bedside clinic, Skills lab	Skill assessment			
IM14.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for obesity	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate classification of drugs used in obesity 2. Enumerate indications of drgs used in obesity 3. Discuss mechanism of action of drugs used in obesity 4. List side effects of drugs used in obesity	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pharmacology	
IM14.14	Describe and enumerate the indications and side effects of bariatric surgery	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe indications of bariatric surgery 2. Enumerate indications of bariatric surgery 3. Enumerate side effects of bariatric surgery 4. Discuss side effects of bariatric surgery	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			General Surgery
IM14.15	Describe and enumerate and educate patients, health care workers and the public on measures to prevent obesity and promote a healthy lifestyle	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate preventive measures to be taken in obesity 2. Describe role of health care workers in preventing obesity 3. Describe role of public in preventing obesity	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			
Topic: GI bleeding			Number of competencies: (18)				Number of procedures that require certification : (NIL)			
IM15.1	Enumerate, describe and discuss the aetiology of upper and lower GI bleeding	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate causes of upper GI bleeding 2. Enumerate causes of lower GI bleeding 3. Discuss aetiology of upper GI bleeding 4. Discuss aetiology of lower GI bleeding	K	KH	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology	General Surgery

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM15.2	Enumerate, describe and discuss the evaluation and steps involved in stabilizing a patient who presents with acute volume loss and GI bleed	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate steps taken in acute volume loss 2. Enumerate steps taken in GI bleed 3. Describe steps taken in acute volume loss 4. Describe steps taken in GI bleed	S	SH	Y	DOAP session, Small group discussion, Lecture	Written/ Viva voce/ Skill assessment		Pathology	General Surgery
IM15.3	Describe and discuss the physiologic effects of acute blood and volume loss	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the pathophysiology of acute blood loss 2. Discuss the pathophysiology of volume loss 3. Describe physiologic effects of acute volume loss	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology, Physiology	General Surgery
IM15.4	Elicit and document and present an appropriate history that identifies the route of bleeding, quantity, grade, volume loss, duration, etiology, comorbid illnesses and risk factors	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define malena 2. Define hematochezia 3. Define oesophageal varices 4. Define haemorrhoids 5. Define portal hypertension 6. Identify the various risk factors associated with GI bleed. 7. Identify the route of bleeding on the basis of history. 8. Document the clinical signs of volume loss caused by GI bleed. 9. Identify the grade of GI bleeding. 10. Documenting the etiology of GI bleed. 11. Identify the associated comorbid illnesses associated with GI bleed.	S	SH	Y	Bedside clinic	Skill assessment			General Surgery
IM15.5	Perform, demonstrate and document a physical examination based on the history that includes general examination, volume assessment and appropriate abdominal examination	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform appropriate abdominal examination. 2. Assess volume status of the patient.	S	SH	Y	Bedside clinic, Skills lab	Skill assessment			General Surgery
IM15.6	Distinguish between upper and lower gastrointestinal bleeding based on the clinical features	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define hematemesis. 2. Define malena 3. Define hematochezia. 4. Differentiate between upper and lower GI bleed.	S	KH	Y	Lecture, Small group discussion	Short note/ Viva voce			General Surgery

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform under supervision an anal examination in a mannequin with correct technique. 2. Perform under supervision correctly rectal examination.	S	SH	Y	DOAP session	Skill assessment			General Surgery
IM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. List various differential diagnosis of GI bleed. 2. Enumerate various presenting symptoms of GI bleed. 3. Discuss the various clinical features of GI bleed. 4. Interpret the diagnosis on the basis of presenting symptoms. 5. Prioritize the patient on the basis of their clinical features.	S	SH	Y	Bedside clinic, Skills lab	Skill assessment/ Short note/ Viva voce			General Surgery
IM15.9	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, PT and PTT, stool examination, occult blood, liver function tests, H.pylori test.	At the end of the session the phase-III, part II MBBS student must be able to : 1. Interpret various diagnostic tests on the basis of clinical diagnosis. 2. Identify the significance of stool examination in patients with GI bleed. 3. Choose the candidates to be subjected to H.Pylori test. 4. Interpret the significance of liver function tests in a patient of GI bleed.	S	SH	Y	Bedside clinic, DOAP session, Small group discussion	Skill assessment/ Short note/ Viva voce		Pathology	General Surgery
IM15.10	Enumerate the indications for endoscopy, colonoscopy and other imaging procedures in the investigation of Upper GI bleeding	At the end of the session the phase-III, part II MBBS student must be able to : 1. List Indications of endoscopy. 2. Enumerate Indications of colonoscopy.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			General Surgery
IM15.11	Develop, document and present a treatment plan that includes fluid resuscitation, blood and blood component transfusion, and specific therapy for arresting blood loss	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe a treatment plan for fluid resuscitation. 2. Choose candidates for blood and blood component transfusion. 3. Discuss specific therapies for arresting blood loss in GI bleed.	S	KH	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology	General Surgery

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM15.12	Enumerate the indications for whole blood, component and platelet transfusion and describe the clinical features and management of a mismatched transfusion	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enlist the indication for whole blood transfusion. 2. Choose the candidates for platelet transfusion. 3. Elicit the clinical features of mismatched transfusion. 4. Discuss the protocol for management of a patient of mismatched transfusion.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology	General Surgery
IM15.13	Observe cross matching and blood / blood component transfusion	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate crossmatching of blood.	S	SH	Y	Bedside clinic	Short note/ Viva voce/ Skill assessment		Pathology	General Surgery
IM15.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of pressors used in the treatment of Upper GI bleed	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate the indication of pressors in upper GI bleed. 2. Discuss the side effect profile of pressor agents. 3. Describe the mechanism of action of various pressor agents. 4. Discuss the pharmacodynamics of pressor agents. 5. Describe the pharmacokinetics of pressor agents.	K	K	Y	Lecture, Small group discussion	Short note/Viva voce		Pharmacology	General Surgery
IM15.15	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of acid peptic disease including Helicobacter pylori	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define acid peptic disease. 2. Differentiate a case of acid peptic disease from other causes of upper GI bleed. 3. Discuss the role of H.Pylori in acid peptic disease. 4. choose the candidates for H.pylori treatment. 5. Discuss the long term sequelae of acid peptic disease. 6. Discuss the pharmacotherapy of acid peptic disease. 7. Enumerate the adverse effects of pharmacotherapy of acid peptic disease.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pharmacology, Microbiology	General Surgery

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM15.16	Enumerate the indications for endoscopic interventions and Surgery	<p>At the end of the session the phase-III, part II MBBS student must be able to :</p> <ol style="list-style-type: none"> 1. Enumerate indications of Banding in case of UGI bleed. 2. Enumerate indications of sclerotherapy in case of UGI bleed. 3. Choose the candidates for vagotomy with antrectomy. 4. Elicit the benefits of highly selective vagotomy. 5. Discuss the features of dumping syndrome. 	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			General Surgery
IM15.17	Determine appropriate level of specialist consultation	<p>At the end of the session the phase-III, part II MBBS student must be able to :</p> <ol style="list-style-type: none"> 1. Identify the candidates for gastroenterology referral. 2. Record the significance of endoscopic intervention in a case of upper GI bleed. 	S	K	Y	Small group discussion				General Surgery
IM15.18	Counsel the family and patient in an empathetic non-judgmental manner on the diagnosis and therapeutic options	<p>At the end of the session the phase-III, part II MBBS student must be able to :</p> <ol style="list-style-type: none"> 1. Demonstrate how to counsel the patient regarding diagnosis. 2. Discuss the prognosis of the patient empathetically with family members of the patient. 3. Present the clinical course of the disease. 4. Elaborate the various therapeutic options. 	S	SH	Y	DOAP session	Skill assessment			General Surgery
Topic: Diarrheal disorder			Number of competencies: (17)			Number of procedures that require certification : (NIL)				
IM16.1	Describe and discuss the aetiology of acute and chronic diarrhea including infectious and non infectious causes	<p>At the end of the session the phase-III, part II MBBS student must be able to :</p> <ol style="list-style-type: none"> 1. Define diarrhoea. 2. Define acute diarrhea. 3. Define chronic diarrhea. 4. Enumerate infectious causes of acute diarrhea. 5. Enumerate non infectious causes of acute diarrhea. 6. Enumerate infectious causes of chronic diarrhea. 7. Enumerate noninfectious causes of chronic diarrhea. 	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Microbiology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM16.2	Describe and discuss the acute systemic consequences of diarrhea including its impact on fluid balance	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the systemic sequelae of diarrhea. 2. Describe the role of fluid replenishment in a case of diarrhea. 3. Enumerate the various electrolyte imbalances in a case of diarrhea. 4. Choose among various types of fluid for treatment of various causes of diarrhea.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			
IM16.3	Describe and discuss the chronic effects of diarrhea including malabsorption	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the various chronic sequelae of diarrhea. 2. Define malabsorption. 3. Distinguish malabsorption from maldigestion. 4. Enumerate the various vitamin deficiencies of chronic diarrhea.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			
IM16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel , sexual history and other concomitant illnesses	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate proper history taking in a case of diarrheal diseases. 2. Present the natural history of various diarrheal diseases. 3. Interpret the dietary history for various diarrheal diseases. 4. Document the various concomitant illnesses associated with diarrheal diseases. 5. Identify case of traveller's diarrhea. 6. Document the role of sexual history for various diarrheal diseases.	S	SH	Y	Bedside clinic, Skills lab	Skill assessment		Microbiology, Pathology	
IM16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate how to perform general examination in a patient of diarrheal disease. 2. Perform abdominal examination.	S	SH	Y	Bedside clinic, Skills lab	Skill assessment			
IM16.6	Distinguish between diarrhea and dysentery based on clinical features	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define dysentery. 2. Present the various clinical features of dysentery. 3. Interpret the clinical features that differentiate a case of dysentery among cases of diarrhea.	S	KH	Y	Lecture, Small group discussion	Short note/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM16.7	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Document the various presenting symptoms of diarrheal diseases. 2. Interpret the various clinical features diarrheal diseases. 3. Identify the cases of diarrheal dises that can be treated on oral rehydration therapy. 4. Identify the cases of diarrheal diseases that require hospitalization.	S	SH	Y	Bedside clinic, Skills lab	Skill assessment/ short note/ Viva voce			
IM16.8	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, and stool examination	At the end of the session the phase-III, part II MBBS student must be able to : 1. Interpret various diagnostic tests on the basis of clinical diagnosis. 2. Identify the significance of stool examination in patients with diarrhea. 3. Interpret the various ova and parasites on stool examination.	S	SH	Y	Bedside clinic, Skills lab, Small group discussion	Skill assessment/ Short note/ Viva voce		Microbiology, Pathology	
IM16.9	Identify common parasitic causes of diarrhea under the microscope in a stool specimen	At the end of the session the phase-III, part II MBBS student must be able to : 1. Identify the various parasites causing diarrhea. 2. Demonstrate the various differentiating features of parasites in a wet mount. 3. Document the various techniques for processing the stool before microscopy.	S	SH	Y	DOAP session	Skill assessment		Microbiology	
IM16.10	Identify vibrio cholera in a hanging drop specimen	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate the correct method for preparing a hanging drop specimen. 2. Document the motility of vibrio cholera in the hanging drop specimen. 3. Interpret the motility of vibrio cholera from brownian movement.	S	SH	Y	DOAP session	Skill Assessment		Microbiology	
IM16.11	Enumerate the indications for stool cultures and blood cultures in patients with acute diarrhea	At the end of the session the phase-III, part II MBBS student must be able to : 1. List the indications for stool culture for the patients of acute diarrhea. 2. Enumerate the indications for blood culture in acute diarrheal diseases.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM16.12	Enumerate and discuss the indications for further investigations including antibodies, colonoscopy, diagnostic imaging and biopsy in the diagnosis of chronic diarrhea	At the end of the session the phase-III, part II MBBS student must be able to : 1. List the indications for antibody detection in chronic diarrhea. 2. List the indications for colonoscopy in diarrheal diseases. 3. Interpretation of various specific appearances on diagnostic imaging. 4. Enumerate the role of biopsy for diagnosis of chronic diseases.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	General Surgery
IM16.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for parasitic causes of diarrhea	At the end of the session the phase-III, part II MBBS student must be able to : 1. List the various parasitic causes of diarrhea. 2. Discuss the various antihelmintic drugs. 3. List the various antiprotozoal drugs. 4. Discuss the pharmacodynamics of antihelmintic drugs. 5. Enumerate the adverse effects of commonly used antiparasitic drugs. 6. Discuss the pharmacokinetics of antiparasitic drugs.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pharmacology, Microbiology	
IM16.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for bacterial and viral diarrhea	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the role of antibiotics in diarrhea. 2. Discuss the side effect profile of various antibiotics used for diarrhea treatment. 3. Describe clostridium difficile infection. 4. Elicit the role of antiviral drugs in treatment of diarrhea.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pharmacology, Microbiology	
IM16.15	Distinguish based on the clinical presentation Crohn's disease from Ulcerative Colitis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Identify the clinical presentation of Crohn's disease. 2. Identify the clinical features of Ulcerative colitis. 3. Differentiate the cases of Crohn's disease from ulcerative colitis based on clinical features.	S	SH	Y	Lecture, Small group discussion	Short note/ Viva voce		Pathology	General Surgery
IM16.16	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy including immunotherapy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the role of immunotherapy in inflammatory bowel disease. 2. Discuss the various agents used for immunotherapy in inflammatory bowel disease. 3. Describe the side effect profile of immunotherapy.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce		Pharmacology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM16.17	Describe and enumerate the indications for surgery in inflammatory bowel disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enlist the indications for surgery in inflammatory bowel disease. 2. Discuss role of ileostomy in inflammatory bowel disease. 3. Describe IPAA for treatment of ulcerative colitis.	K	K	Y	Lecture, Small group discussion	Short note/ Viva voce			General Surgery
Topic: Headache			Number of competencies: (14)			Number of procedures that require certification : (NIL)				
IM17.1	Define and classify headache and describe the presenting features, precipitating factors, aggravating and relieving factors of various kinds of headache	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define various types of headaches. 2. Classify types of headache in various groups. 3. Describe clinical features of types of headache. 4. Identify precipitating factors for various types of headaches. 5. Enumerate the aggravating factors of different kinds of headache. 6. List the various relieving factors for different kinds of headaches.	K	KH	Y	Lecture, Small group discussion	Short note/ Viva voce		Human Anatomy	
IM17.2	Elicit and document and present an appropriate history including aura, precipitating aggravating and relieving factors, associated symptoms that help identify the cause of headaches	At the end of the session the phase-III, part II MBBS student must be able to : 1. Document headaches associated with aura. 2. Interpret precipitating factors for various types of headache. 3. Identify relieving factors for various headaches. 4. Document associated symptoms that can identify the cause of various types of headache. 5. Identify the red flag signs associated with various headaches.	S	SH	Y	Bedside clinic, Small group discussion	Bedside clinic/ Skill assessment			
IM17.3	Classify migraine and describe the distinguishing features between classical and non classical forms of migraine	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define classical migraine. 2. Define non classical migraine. 3. Classify patients into various types of migraine. 4. Differentiate cases of migraine from other types of headache. 5. Differentiate cases of classical migraine from non classical migraine based on clinical features.	K	KH	Y	Bedside clinic, Small group discussion	Bedside clinic/ Skill assessment			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM17.4	Perform and demonstrate a general neurologic examination and a focused examination for signs of intracranial tension including neck signs of meningitis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform general neurologic examination. 2. Demonstrate signs for raised intracranial tension. 3. Elicit signs of meningitis including neck rigidity. 4. Elicit kernig's sign. Demonstrate brudzenski's sign.	S	SH	Y	Bedside clinic, Small group discussion	Bedside clinic/ Skill assessment			
IM17.5	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation	At the end of the session the phase-III, part II MBBS student must be able to : 1. Differentiate various types of headache based on clinical features. 2. Prioritise the patient on the basis of presentation. 3. Identify the patients with red flag signs.	S	SH	Y	Bedside clinic, Small group discussion	Bedside clinic/ skill assessment			
IM17.6	Choose and interpret diagnostic testing based on the clinical diagnosis including imaging	At the end of the session the phase-III, part II MBBS student must be able to : 1. Choose the candidates needing neuroimaging for meningitis. 2. Interpret the result of diagnostic testing for meningitis.	S	SH	Y	Lecture, Small group discussion, Bedside clinic	Skill Assessment			
IM17.7	Enumerate the indications and describe the findings in the CSF in patients with meningitis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the indications for CSF analysis in meningitis. 2. Enumerate the various contraindications for lumbar puncture. 3. Describe the clinical findings on various types of meningitis.	K	K	Y	Small group discussion, Bedside clinic	Skill Assessment		Microbiology, Pathology	
IM17.8	Demonstrate in a mannequin or equivalent the correct technique for performing a lumbar puncture	At the end of the session the phase-III, part II MBBS student must be able to : 1. Demonstrate the positioning of patient for performing lumbar puncture on a mannequin. 2. Present the various precautions to be taken for lumbar puncture. 3. Perform under supervision on a mannequin the correct technique of lumbar puncture.	S	SH	Y	DOAP session	Skill assessment		Microbiology, Pathology	
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Identify the significance of various parameters of CSF analysis. 2. Interpret various CSF findings. 3. Document the cause of meningitis based on various parameters of CSF analysis.	S	SH	Y	Small group discussion, Bedside clinic	Skill assessment		Microbiology, Pathology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM17.10	Enumerate the indications for emergency care admission and immediate supportive care in patients with headache	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the indications for emergency care in patients of headache. 2. Classify the patient with headache who require immediate supportive care. 3. Identify the patients with increased intracranial tension associated with headache.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce			
IM17.11	Describe the indications, pharmacology, dose, side effects of abortive therapy in migraine	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the indications for abortive therapy of migraine. 2. List the side effect profile of various medications used for abortive therapy of migraine. 3. Elicit the various contraindications of abortive therapy of migraine. 4. Choose the dose requirement of various abortive therapies of migraine. 5. Discuss the pharmacokinetics of various abortive medications of migraine. 6. Discuss the mechanism of action of various drugs used in abortive therapy of migraine.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
IM17.12	Describe the indications, pharmacology, dose, side effects of prophylactic therapy in migraine	At the end of the session the phase-III, part II MBBS student must be able to : 1. List the indications for prophylactic therapy of migraine. 2. Describe the mechanism of action of various drugs used in prophylactic therapy of migraine. 3. Choose the dose requirement of various prophylactic therapies of migraine. 4. List the side effect profile of various medications used for prophylactic therapy of migraine. 5. Describe the pharmacokinetics of various prophylactic medications of migraine. 6. List the various contraindications of prophylactic therapy of migraine.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration	
GENERAL MEDICINE										
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)					
IM17.13	Describe the pharmacology, dose, adverse reactions and regimens of drugs used in the treatment of bacterial, tubercular and viral meningitis	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the antibiotic regimen for bacterial meningitis. 2. Discuss the treatment of tubercular meningitis. 3. Describe the role of antiviral drugs for viral meningitis 4. Discuss the adverse reactions associated with drugs used to treat bacterial meningitis. 5. Enumerate the side effects of antitubercular drugs. 6. Discuss the side effect of antiviral treatment of viral meningitis.			K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Pharmacology
IM17.14	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy	At the end of the session the phase-III, part II MBBS student must be able to : 1. Counsel the patient of migraine. 2. Inform the migraine patients on the need for prophylactic therapy. 3. Demonstrate the understanding of tension type headache. 4. Counsel the patient regarding role of lifestyle modification in tension type headache patients.			A/C	SH	N	DOAP session	Skill Assessment	Pharmacology Psychiatry
Topic: Cerebrovascular accident		Number of competencies: (17)			Number of procedures that require certification : (NIL)					
IM18.1	Describe the functional and the vascular anatomy of the brain	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe arterial supply of brain. 2. Describe venous supply of brain. 3. Describe dural venous sinuses. 4. Describe circle of willis. 5. Report the most common sites of the brain involved in cerebrovascular accident.			K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Human Anatomy
IM18.2	Classify cerebrovascular accidents and describe the aetiology, predisposing genetic and risk factors pathogenesis of hemorrhagic and non hemorrhagic stroke	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define stroke. 2. Distinguish ischaemic stroke from hemorrhagic stroke. 3. Enumerate risk factors for ischaemic stroke. 4. Enumerate risk factors for hemorrhagic stroke. 5. Describe pathogenesis of ischaemic stroke. 6. Describe pathogenesis of hemorrhagic stroke. 7. Discuss the role of genetics in etiology of cerebrovascular accident.			K	KH	Y	Lecture, Small group discussion	Written/ Viva voce	Pathology

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM18.3	Elicit and document and present an appropriate history including onset, progression, precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the cerebrovascular accident	At the end of the session the phase-III, part II MBBS student must be able to : 1. Elicit appropriate history taking to narrow down the cause of cerebrovascular accident. 2. Describe the aggravating and relieving factors of symptomatology of CVA. 3. Report the progression of CVA based on symptomatology.	S	SH	Y	Bedside clinic	Skill assessment		Pathology	
IM18.4	Identify the nature of the cerebrovascular accident based on the temporal evolution and resolution of the illness	At the end of the session the phase-III, part II MBBS student must be able to : 1. Define the nature of CVA based on course of events in illness. 2. Discuss the resolution of illness based on the nature of CVA. 3. Describe the prognosis of patient on the basis of nature of CVA.	K	KH	Y	Bedside clinic, Small group discussion	Skill Assessment			
IM18.5	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate, based on the history	At the end of the session the phase-III, part II MBBS student must be able to : 1. Perform general physical examination. 2. Demonstrate a detailed neurological examination. 3. Demonstrate examination of cranial nerves. 4. Demonstrate deep tendon reflexes. 5. Enumerate deep tendon reflexes along with their root values. 6. Perform assessment of power of a muscle group. 7. Interpret various signs elicited on neurological examination.	S	SH	Y	Bedside clinic, DOAP session	Skill Assessment			
IM18.6	Distinguish the lesion based on upper vs lower motor neuron, side, site and most probable nature of the lesion	At the end of the session the phase-III, part II MBBS student must be able to : 1. Discuss the features of upper motor neuron lesion. 2. Discuss the features of lower motor neuron lesion. 3. Classify the lesion as upper or lower motor neuron based on the site of lesion.	K/S	SH	Y	Bedside clinic, DOAP session	Skill Assessment		Physiology	
IM18.7	Describe the clinical features and distinguish, based on clinical examination, the various disorders of speech	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe the clinical features of various disorders of speech. 2. Distinguish various disorders of speech. 3. Define aphasia. 4. Define dysarthria. 5. Define aphonia. 6. Define mutism.	K/S	SH	N	Bedside clinic, DOAP session	Skill Assessment		Physiology	

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
IM18.8	Describe and distinguish, based on the clinical presentation, the types of bladder dysfunction seen in CNS disease	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe autonomic nerve supply of bladder. 2. Describe somatic nerve supply of bladder. 3. Define spastic bladder. 4. Define neurogenic bladder. 5. Define hypotonic bladder. 6. Distinguish between various types of bladder dysfunction based on site of lesion. 7. Describe the various bladder dysfunction in CNS disorders.	K	KH	Y	Small group discussion, Bedside clinic	Written/ Viva voce	Physiology	
IM18.9	Choose and interpret the appropriate diagnostic and imaging test that will delineate the anatomy and underlying cause of the lesion	At the end of the session the phase-III, part II MBBS student must be able to : 1. Identify the appropriate diagnostic tests to delineate the anatomy of lesion. 2. Choosing the appropriate imaging test to find the cause of lesion.	S	KH	Y	Bedside clinic, DOAP session, Small group discussion	Written/ Viva voce/ Skill assessment	Radiodiagnosis	
IM18.10	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident (CVA)	At the end of the session the phase-III, part II MBBS student must be able to : 1. Choose the appropriate imaging in a young patient of CVA. 2. Interpret the various findings in imaging of a young CVA.	S	SH	Y	Lecture, Small group discussion	Written/ Viva voce		
IM18.11	Describe the initial supportive management of a patient presenting with a cerebrovascular accident (CVA)	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe emergency management of a patient presenting with cerebrovascular accident. 2. Discuss initial supportive management of unconscious patient.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		
IM18.12	Enumerate the indications for and describe acute therapy of non hemorrhagic stroke including the use of thrombolytic agents	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate indications of thrombolysis in non hemorrhagic stroke patients. 2. Describe the mechanism of action of various thrombolytic agents.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		
IM18.13	Enumerate the indications for and describe the role of anti platelet agents in non hemorrhagic stroke	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe antiplatelet drugs used in non hemorrhagic stroke patients. 2. Enumerate the indications of antiplatelet agents in non hemorrhagic stroke patients. 3. Discuss mechanism of action of various antiplatelet drugs used in non hemorrhagic stroke.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM18.14	Describe the initial management of a hemorrhagic stroke	At the end of the session the phase-III, part II MBBS student must be able to : 1. emergency management of a patient diagnosed with hemorrhagic stroke. 2. Identify a patient of hemorrhagic stroke on the basis of presentation clinical features. 3. Choose appropriate imaging modality for early diagnosis of hemorrhagic stroke.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM18.15	Enumerate the indications for surgery in a hemorrhagic stroke	At the end of the session the phase-III, part II MBBS student must be able to : 1. enlist indications for embolization. 2. Enumerate indications for endovascular repair. 3. Discuss indications for aneurysm clipping. 4. Discuss indications for aneurysm coiling.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce			General Surgery
IM18.16	Enumerate the indications describe and observe the multidisciplinary rehabilitation of patients with a CVA	At the end of the session the phase-III, part II MBBS student must be able to : 1. Enumerate indications of physiotherapy in patients with CVA. 2. Enlist contraindications of physiotherapy in patients with CVA. 3. Describe pharmacotherapy in patients with CVA.	S	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Physical Medicine & Rehabilitation
IM18.17	Counsel patient and family about the diagnosis and therapy in an empathetic manner	At the end of the session the phase-III, part II MBBS student must be able to : 1. Describe course of illness in patients of CVA on pharmacotherapy. 2. Describe clinical outcomes of ischaemic stroke after thrombolysis. 3. Discuss care of bed sores in bedridden patients.	A/C	SH	Y	DOAP session	Skill assessment			
Topic: Movement disorders			Number of competencies: (09)				Number of procedures that require			
IM19.1	Describe the functional anatomy of the locomotor system of the brain	At the end of session phase III part II MBBS , student must be able to : 1. Describe the functional anatomy of locomotor system. 2. Discuss blood supply. 3. Define basal Ganglia.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Human Anatomy, Physiology	
IM19.2	Classify movement disorders of the brain based on distribution, rhythm, repetition, exacerbating and relieving factors	At the end of session phase III part II MBBS , student must be able to : 1. Define movement disorder. 2. List of movement disorders. 3. Describe movement disorders.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
IM19.3	Elicit and document and present an appropriate history including onset, progression precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the movement disorders	At the end of session phase III part II MBBS , student must be able to : 1. Identify signs and symptoms. 2. Identify aggravating and relieving factors. 3. Document associated symptoms. 4. Perform under supervision movement disorders.	S	SH	Y	Bedside clinic	Skill assessment		
IM19.4	Perform, demonstrate and document a physical examination that includes a general examination and a detailed neurologic examination using standard movement rating scales	At the end of session phase III part II MBBS , student must be able to : 1. Perform general examination. 2. Document important physical sign. 3. Record higher mental function examination. 4. Interpret cranial nerves examination.	S	SH	Y	Bedside clinic	Skill assessment		
IM19.5	Generate document and present a differential diagnosis and prioritise based on the history and physical examination	At the end of session phase III part II MBBS , student must be able to : 1. Interpret differential diagnosis of clinical examination. 2. Record your negative findings.	S	SH	Y	Bedside clinic	Skill assessment		
IM19.6	Make a clinical diagnosis regarding on the anatomical location, nature and cause of the lesion based on the clinical presentation and findings	At the end of session phase III part II MBBS , student must be able to : 1. Identify anatomical location of lesion. 2. Demonstrate nature and cause of lesion.	S	SH	Y	Bedside clinic	Skill assessment		
IM19.7	Choose and interpret diagnostic and imaging tests in the diagnosis of movement disorders	At the end of session phase III part II MBBS , student must be able to : 1. Perform CSF examination. 2. Interpret CT scan. 3. Interpret MRI scan.	S	SH	Y	Bedside clinic, Small group session	Skill assessment/ Written/ Viva voce		Radiodiagnosis
IM19.8	Discuss and describe the pharmacology, dose, side effects and interactions used in the drug therapy of Parkinson's syndrome	At the end of session phase III part II MBBS , student must be able to : 1. Describe Parkinson's Syndrome. 2. Classify important drugs used in parkinson's. 3. List of side effects of drug.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology
IM19.9	Enumerate the indications for use of surgery and botulinum toxin in the treatment of movement disorders	At the end of session phase III part II MBBS , student must be able to : 1. Describe the role of surgery in Parkinson's disease. 2. Define role of botulinum toxin in movement disorders.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology General Surgery
Topic: Envenomation		Number of competencies: (09)			Number of procedures that require certification : (NIL)				
IM20.1	Enumerate the local poisonous snakes and describe the distinguishing marks of each	At the end of session phase III part II MBBS , student must be able to : 1. Describe poisonous snakes. 2. Differentiate between Cobra bite and Viper bite.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Forensic Medicine, Pharmacology

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM20.2	Describe, demonstrate in a volunteer or a mannequin and educate (to other health care workers / patients) the correct initial management of patient with a snake bite in the field	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate first aid of snake bite. 2. Educate the local community.	S	SH	Y	DOAP session	Skill assessment/ Written/ Viva voce		Forensic Medicine	
IM20.3	Describe the initial approach to the stabilisation of the patient who presents with snake bite	At the end of session phase III part II MBBS , student must be able to : Discuss with attendants about anti snake venom.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Forensic Medicine	
IM20.4	Elicit and document and present an appropriate history, the circumstance, time, kind of snake, evolution of symptoms in a patient with snake bite	At the end of session phase III part II MBBS , student must be able to : 1. Record vital signs. 2. Perform bed side test.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		Forensic Medicine	
IM20.5	Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination	At the end of session phase III part II MBBS , student must be able to : 1. Perform general physical examination. 2. Perform systemic examination. 3. Perform steps in cardiac examination. 4. Document cardiac and neurological signs of snakebite.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			
IM20.6	Choose and interpret the appropriate diagnostic testing in patients with snake bites	At the end of session phase III part II MBBS , student must be able to : 1. Perform diagnostic test for snake bite.	S	SH	Y	Small group discussion	Written/ Viva voce			
IM20.7	Enumerate the indications and describe the pharmacology, dose, adverse reactions, hypersensitivity reactions of anti snake venom	At the end of session phase III part II MBBS , student must be able to : 1. Document dose of anti snake venom. 2. Define hypersensitivity reaction of snake bite. 3. Describe management of hypersensitivity reaction.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
IM20.8	Describe the diagnosis, initial approach stabilisation and therapy of scorpion envenomation	At the end of session phase III part II MBBS , student must be able to : 1. Describe scorpion bite. 2. List of signs and symptoms.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
IM20.9	Describe the diagnosis initial approach stabilisation and therapy of bee sting allergy	At the end of session phase III part II MBBS , student must be able to : 1. Describe sting bite. 2. Describe allergic reaction of sting bite. 3. Describe treatment of sting bite.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
Topic: Poisoning			Number of competencies: (08)				Number of procedures that require certification : (NIL)			
IM21.1	Describe the initial approach to the stabilisation of the patient who presents with poisoning	At the end of session phase III part II MBBS , student must be able to : 1. Describe management of poisoning. 2. Discuss important steps that you should take in poisoning.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM21.2	Enumerate the common plant poisons seen in your area and describe their toxicology, clinical features, prognosis and specific approach to detoxification	At the end of session phase III part II MBBS , student must be able to : 1. Describe common plant poison. 2. Describe common symptoms. 3. Discuss prognosis.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Forensic Medicine, Pharmacology	
IM21.3	Enumerate the common corrosives used in your area and describe their toxicology, clinical features, prognosis and approach to therapy	At the end of session phase III part II MBBS , student must be able to : 1. Define common corrosive poison. 2. Elicit management of corrosive poisoning.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Forensic Medicine, Pharmacology	
IM21.4	Enumerate the commonly observed drug overdose in your area and describe their toxicology, clinical features, prognosis and approach to therapy	At the end of session phase III part II MBBS , student must be able to : 1. Describe drugs used in your area. 2. Describe management.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Forensic Medicine, Pharmacology	
IM21.5	Observe and describe the functions and role of a poison center in suspected poisoning	At the end of session phase III part II MBBS , student must be able to : Describe the role of poison center and how to collect information regarding treatment antidote	S	KH	Y	DOAP session	document in log book		Forensic Medicine, Pharmacology	
IM21.6	Describe the medico legal aspects of suspected suicidal or homicidal poisoning and demonstrate the correct procedure to write a medico legal report on a suspected poisoning	At the end of session phase III part II MBBS , student must be able to : 1. Always inform the police regarding suicidal or homicidal poisoning. 2. Perform medicolegal report. 3. Preserve the organs for examination of poison.	S	KH	Y	Lecture, Small group discussion, DOAP session	Written/ Viva voce/ Skill assessment		Forensic Medicine, Pharmacology	
IM21.7	Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects with empathy	At the end of session phase III part II MBBS , student must be able to : 1. How to counsel the family members. 2. Explain the prognosis and condition of the patient to the family members.	A/C	SH	Y	DOAP session	Skill assessment		Forensic Medicine, Pharmacology	
IM21.8	Enumerate the indications for psychiatric consultation and describe the precautions to be taken in a patient with suspected suicidal ideation / gesture	At the end of session phase III part II MBBS , student must be able to : 1. Describe the role of psychiatric consultations especially in suicidal attempt. 2. Be polite and communicate in sympathetic manner.	K	KH	Y	DOAP session	Skill assessment		Forensic Medicine, Psychiatry	
Topic: Mineral, Fluid Electrolyte and Acid base Disorder			Number of competencies: (13)				Number of procedures that require certification : (NIL)			
IM22.1	Enumerate the causes of hypercalcemia and distinguish the features of PTH vs non PTH mediated hypercalcemia	At the end of session phase III part II MBBS , student must be able to : 1. List causes of hyperclacemia. 2. Describe normal calcium level. 3. Document features of PTH vs non PTH mediated hypercalcemia.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM22.2	Describe the aetiology, clinical manifestations, diagnosis and clinical approach to primary hyperparathyroidism	At the end of session phase III part II MBBS , student must be able to : 1. Describe hyperparathyroidism. 2. List common clinical features. 3. Elicit diagnostic test you will perform.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology	General Surgery
IM22.3	Describe the approach to the management of hypercalcemia	At the end of session phase III part II MBBS , student must be able to : 1. Describe hypercalcemia. 2. Define management of hypercalcemia.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
IM22.4	Enumerate the components and describe the genetic basis of the multiple endocrine neoplasia syndrome	At the end of session phase III part II MBBS , student must be able to : 1. Define genetic basis of multiple endocrine neoplasia syndrome. 2. List important features.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology	
IM22.5	Enumerate the causes and describe the clinical features and the correct approach to the diagnosis and management of the patient with hyponatremia	At the end of session phase III part II MBBS , student must be able to : 1. Define hyponatremia. 2. Describe its causes and clinical features. 3. Describe the correct approach	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM22.6	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyponatremia	At the end of session phase III part II MBBS , student must be able to : 1. Define normal level of serum sodium . 2. Describe clinical features.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM22.7	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hypokalemia	At the end of session phase III part II MBBS , student must be able to : 1. Define hypokalemia. 2. Describe the presentation of hypokalemia patient. 3. Describe the management of hypokalemia.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM22.8	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyperkalemia	At the end of session phase III part II MBBS , student must be able to : 1. Define hyperkalemia. 2. Describe manifestations. 3. Describe ECG changes. 4. Describe role of insulin.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM22.9	Enumerate the causes and describe the clinical and laboratory features of metabolic acidosis	At the end of session phase III part II MBBS , student must be able to : 1. Define metabolic acidosis. 2. Define normal bicarbonate level. 3. Describe clinical features. 4. Describe its management.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Physiology	

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)			
IM22.10	Enumerate the causes and describe the clinical and laboratory features of metabolic alkalosis	At the end of session phase III part II MBBS , student must be able to : 1. Define metabolic alkalosis. 2. Describe clinical features. 3. Describe its management.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Physiology
IM22.11	Enumerate the causes and describe the clinical and laboratory features of respiratory acidosis	At the end of session phase III part II MBBS , student must be able to : 1. Define respiratory acidosis. 2. Describe clinical features. 3. Describe its management.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Physiology
IM22.12	Enumerate the causes and describe the clinical and laboratory features of respiratory alkalosis	At the end of session phase III part II MBBS , student must be able to : 1. Define respiratory alkalosis. 2. Describe clinical features. 3. Describe its management.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Physiology
IM22.13	Identify the underlying acid based disorder based on an ABG report and clinical situation	At the end of session phase III part II MBBS , student must be able to : 1. Describe and interpret acid base disorders.	S	KH	N	Lecture, Small group discussion	Written/ Viva voce		Physiology
Topic: Nutritional and Vitamin Deficiencies			Number of competencies: (05)			Number of procedures that require certification: (NIL)			
IM23.1	Discuss and describe the methods of nutritional assessment in an adult and calculation of caloric requirements during illnesses	At the end of session phase III part II MBBS , student must be able to : 1. Interpret nutritional assessment. 2. Describe the calorie requirements of normal person. 3. Describe calorie requirement during illness.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Biochemistry Pediatrics
IM23.2	Discuss and describe the causes and consequences of protein caloric malnutrition in the hospital	At the end of session phase III part II MBBS , student must be able to : Describe protein caloric malnutrition in hospitalised patient.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Biochemistry Pediatrics
IM23.3	Discuss and describe the aetiology, causes, clinical manifestations, complications, diagnosis and management of common vitamin deficiencies	At the end of session phase III part II MBBS , student must be able to : 1. Describe vitamin requirement. 2. Describe deficiency symptoms. 3. Describe the diagnosis of vitamin deficiency. 4. Elicit management of vitamin deficiency.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Biochemistry Pediatrics
IM23.4	Enumerate the indications for enteral and parenteral nutrition in critically ill patients	At the end of session phase III part II MBBS , student must be able to : 1. Define enteral nutrition. 2. Define parenteral Nutrition.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Biochemistry Pediatrics
IM23.5	Counsel and communicate to patients in a simulated environment with illness on an appropriate balanced diet	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate and counsel about the balanced diet.	S	SH	Y	DOAP session	Skill assessment		
Topic: Geriatrics			Number of competencies: (22)			Number of procedures that require certification : (NIL)			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM24.1	Describe and discuss the epidemiology, pathogenesis, clinical evolution, presentation and course of common diseases in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe common diseases in elderly. 2. Describe the presentation of these diseases.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM24.2	Perform multidimensional geriatric assessment that includes medical, psycho-social and functional components	At the end of session phase III part II MBBS , student must be able to : Describe the medical ,psychosocial factors affecting the old age.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		Psychiatry	
IM24.3	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of acute confusional states	At the end of session phase III part II MBBS , student must be able to : 1. Describe the aetiopathogenesis of acute confusional states. 2. Describe clinical presentation. 3. Describe its acute care , management and rehabilitation.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM24.4	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vascular events in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe important vascular events in elderly. 2. Describe management of CVA. 3. Describe rehabilitation.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM24.5	Describe and discuss the aetiopathogenesis clinical presentation identification, functional changes, acute care, stabilization, management and rehabilitation of depression in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe causes of depression in elderly. 2. Describe management of depression in elderly. 3. Describe rehabilitation in elderly.	K	KH	Y	Lecture Small group discussion	Written/ Viva voce			Psychiatry
IM24.6	Describe and discuss the aetiopathogenesis causes, clinical presentation, difference in discussion presentation identification, functional changes, acute care, stabilization, management and rehabilitation of dementia in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Define dementia. 2. Describe early manifestations. 3. Describe management and rehabilitation in elderly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			AETCOM
IM24.7	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of personality changes in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe personality changes in elderly. 2. Describe its management and rehabilitation.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce			Psychiatry
IM24.8	Describe and discuss the aetiopathogenesis,clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of osteoporosis in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Define osteoporosis. 2. Describe management of osteoporosis. 3. Describe rehabilitation in elderly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM24.9	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of CVA in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe CVA in elderly. 2. Describe causes of CVA. 3. Describe its management 4. Describe acute care and management.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM24.10	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Define COPD. 2. Describe management of COPD in elderly. 3. Describe respiratory functional changes.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Respiratory Medicine
IM24.11	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of the elderly undergoing surgery	At the end of session phase III part II MBBS , student must be able to : 1. Describe surgical procedures in elderly. 2. Elicit management of the elderly patients. 3. Describe important tests to be performed in elderly patients undergoing surgery.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Anesthesiology, General Surgery
IM24.12	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of degenerative joint disease	At the end of session phase III part II MBBS , student must be able to : 1. Define degenerative joint disease. 2. Describe its management and rehabilitation in elderly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Orthopedics
IM24.13	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of falls in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe causes of falls in elderly. 2. Describe care and management in elderly 3. Advice to the family.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Orthopedics, Physical Medicine & Rehabilitation
IM24.14	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of common fractures in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe common fractures in elderly. 2. Describe management of fracture. 3. Describe post operative rehabilitation in elderly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Orthopedics
IM24.15	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vision and visual loss in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Define causes of vision loss in elderly. 2. Describe its management.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Ophthalmology
IM24.16	Describe and discuss the principles of physical and social rehabilitation, functional assessment, role of physiotherapy and occupational therapy in the management of disability in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe common disabilities in elderly. 2. Describe assessment of disability. 3. Describe management of disabilities in elderly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Orthopedics, Physical Medicine & Rehabilitation

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM24.17	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe causes of hearing loss in elderly. 2. Describe early manifestations. 3. Describe management of hearing loss in elderly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			ENT
IM24.18	Describe the impact of the demographic changes in ageing on the population	At the end of session phase III part II MBBS , student must be able to : 1. Define demographic changes in elderly people. 2. Describe advise to the elderly in this regard.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine	
IM24.19	Enumerate and describe the social problems in the elderly including isolation, abuse, change in family structure and their impact on health.	At the end of session phase III part II MBBS , student must be able to : 1. Enumerate the social problems in elderly. 2. Describe the impact of social problems on health of elderly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Psychiatry
IM24.20	Enumerate and describe social interventions in the care of elderly including domiciliary discussion services, rehabilitation facilities, old age homes and state interventions	At the end of session phase III part II MBBS , student must be able to : 1. Enumerate social interventions in the care of elderly including domiciliary discussion services 2. Enumerate social interventions in the care of elderly including rehabilitation facilities 3. Enumerate social interventions in the care of elderly including old age homes 4. Enumerate social interventions in the care of elderly including state interventions. 5. Describe social interventions in the care of elderly including domiciliary discussion services 6. Describe social interventions in the care of elderly rehabilitation facilities 7. Describe social interventions in the care of elderly old age homes 8. Describe social interventions in the care of elderly state interventions	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
IM24.21	Enumerate and describe ethical issues in the care of the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Enumerate ethical issues in the care of the elderly. 2. Describe ethical issues in the care of the elderly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			AETCOM

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM24.22	Describe and discuss the aetiopathogenesis, clinical presentation, complications, assessment and management of nutritional disorders in the elderly	At the end of session phase III part II MBBS , student must be able to : 1. Describe aetiopathogenesis of nutritional disorders in the elderly 2. Describe clinical presentation nutritional disorders in the elderly 3. Describe complications nutritional disorders in the elderly 4. Describe assessment nutritional disorders in the elderly 5. Describe management of nutritional disorders in the elderly 6. Discuss aetiopathogenesis of nutritional disorders in the elderly 7. Discuss clinical presentation nutritional disorders in the elderly 8. Discuss complications nutritional disorders in the elderly 9. Discuss assessment nutritional disorders in the elderly 10. Discuss management of nutritional disorders in the elderly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Biochemistry	
Topic: Miscellaneous Infections			Number of competencies: (13)			Number of procedures that require certification : (NIL)				

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM25.1	Describe and discuss the response and the influence of host immune status, risk factors and comorbidities on zoonotic diseases (e.g. Leptospirosis, Rabies) and non-febrile infectious disease (e.g. Tetanus)	<p>At the end of session phase III part II MBBS , student must be able to :</p> <ol style="list-style-type: none"> 1. Classify zoonotic disease. 2. Differentiate zoonotic diseases and non febrile infectious disease. 3. Describe the response and the influence of host immune status on zoonotic diseases (e.g. Leptospirosis, Rabies). 4. Describe the response and the influence of risk factors on zoonotic diseases (e.g. Leptospirosis, Rabies). 5. Describe the response and the influence of comorbidities on zoonotic diseases (e.g. Leptospirosis, Rabies). 6. Describe the response and the influence of host immune status on non-febrile infectious disease (e.g. Tetanus). 7. Describe the response and the influence of risk factors on non-febrile infectious disease (e.g. Tetanus). 8. Describe the response and the influence of comorbidities on non-febrile infectious disease (e.g. Tetanus). 9. Discuss the response and the influence of host immune status on zoonotic diseases (e.g. Leptospirosis, Rabies). 10. Discuss the response and the influence of risk factors on zoonotic diseases (e.g. Leptospirosis, Rabies). 11. Discuss the response and the influence of comorbidities on zoonotic diseases (e.g. Leptospirosis, Rabies). 12. Discuss the response and the influence of host immune status on non-febrile infectious disease (e.g. Tetanus). 13. Discuss the response and the influence of risk factors on non-febrile infectious disease (e.g. Tetanus). 14. Discuss the response and the influence of comorbidities on non-febrile infectious disease (e.g. Tetanus). 	K	K	Y	Lecture, Small group discussion	Written		Microbiology, Community Medicine	

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration	
GENERAL MEDICINE										
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)					
IM25.2	Discuss and describe the common causes, pathophysiology and manifestations of these diseases	<p>At the end of session phase III part II MBBS , student must be able to :</p> <ol style="list-style-type: none"> 1. Describe the common causes of zoonotic diseases (e.g. Leptospirosis, Rabies). 2. Describe the pathophysiology of zoonotic diseases (e.g. Leptospirosis, Rabies). 3. Describe the manifestations of zoonotic diseases (e.g. Leptospirosis, Rabies). 4. Describe the common causes of non-febrile infectious disease (e.g. Tetanus). 5. Describe the pathophysiology of non-febrile infectious disease (e.g. Tetanus). 6. Describe the manifestations of non-febrile infectious disease (e.g. Tetanus). 7. Discuss the common causes of zoonotic diseases (e.g. Leptospirosis, Rabies). 8. Discuss the pathophysiology of zoonotic diseases (e.g. Leptospirosis, Rabies). 9. Discuss the manifestations of zoonotic diseases (e.g. Leptospirosis, Rabies). 10. Discuss the common causes of non-febrile infectious disease (e.g. Tetanus). 11. Discuss the pathophysiology of non-febrile infectious disease (e.g. Tetanus). 12. Discuss the manifestations of non-febrile infectious disease (e.g. Tetanus). 	K	K	Y	Lecture, Small group discussion	Written		Microbiology, Community Medicine	
IM25.3	Describe and discuss the pathophysiology and manifestations of these diseases	<p>At the end of session phase III part II MBBS , student must be able to :</p> <ol style="list-style-type: none"> 1. Describe the pathophysiology of zoonotic diseases (e.g. Leptospirosis, Rabies). 2. Describe the manifestations of zoonotic diseases (e.g. Leptospirosis, Rabies). 3. Describe the pathophysiology of non-febrile infectious disease (e.g. Tetanus). 4. Describe the manifestations of non-febrile infectious disease (e.g. Tetanus). 5. Discuss the pathophysiology of zoonotic diseases (e.g. Leptospirosis, Rabies). 6. Discuss the manifestations of zoonotic diseases (e.g. Leptospirosis, Rabies). 7. Discuss the pathophysiology of non-febrile infectious disease (e.g. Tetanus). 8. Discuss the manifestations of non-febrile infectious disease (e.g. Tetanus). 	K	KH	Y	Lecture, Small group discussion	Written		Microbiology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM25.4	Elicit document and present a medical history that helps delineate the aetiology of these diseases that includes the evolution and pattern of symptoms, risk factors, exposure through occupation and travel	<p>At the end of session phase III part II MBBS , student must be able to :</p> <ol style="list-style-type: none"> 1. Present a medical history delineating the aetiology of zoonotic diseases that includes the evolution and pattern of symptoms. 2. Present a medical history delineating the aetiology of zoonotic diseases that includes the risk factors. 3. Present a medical history delineating the aetiology of zoonotic diseases that includes the exposure through occupation and travel. 4. Present a medical history delineating the aetiology of non-febrile infectious diseases that includes the evolution and pattern of symptoms. 6. Present a medical history delineating the aetiology of non-febrile infectious that includes the risk factors. 7. Present a medical history delineating the aetiology of non-febrile infectious that includes the exposure through occupation and travel. 	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		Community Medicine	

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GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM25.5	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin, mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)	<p>At the end of session phase III part II MBBS , student must be able to :</p> <ol style="list-style-type: none"> 1. Perform under supervision a general skin examination. 2. Identify spider naevi. 3. Identify scar marks. 4. Identify striae gravidarum. 5. Identify types of nails. 6. Identify purple striae. 7. Identify visible pulsations. 8. Perform under supervision a mucosal examination. 9. Identify mucosal ulcers. 10. Identify types of tongue. 11. Perform under supervision a lymph node examination. 12. Identify different groups of lymph nodes. 13. Demonstrate lymphadenopathy. 14. Perform under supervision a chest examination. 15. Identify types of chest. 16. Perform under supervision a general abdominal examination. 17. Demonstrate abdominal girth. 18. Identify types of umbilicus. 19. Demonstrate shifting dullness. 20. Demonstrate fluid thrill. 21. Perform under supervision a examination of liver. 22. Demonstrate liver span. 23. Demonstrate liver dullness. 24. Perform under supervision a examination of spleen. 25. Identify grades of splenomegaly. 	S	SH	Y	Bedside clinic, DOAP session	Skill assessment			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM25.6	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes	Enumerate infective causes. Enumerate inflammatory causes. Enumerate malignant causes. Enumerate rheumatologic causes. Distinguish between infective, inflammatory, malignant and rheumatologic causes. List clinical features of infective causes. List clinical features of inflammatory causes. List clinical features of malignant causes. List clinical features of rheumatologic causes. List differential diagnosis of infective causes. List differential diagnosis of inflammatory causes. List differential diagnosis of malignant causes. List differential diagnosis of rheumatologic causes.	K	SH	Y	Bedside clinic, DOAP session	Written/ Viva voce			
IM25.7	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, blood biochemistry, peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and QBC	At the end of session phase III part II MBBS , student must be able to : 1. Choose diagnostic tests based on the differential diagnosis.	K	SH	Y	Bedside clinic, Skill assessment	Skill assessment		Pathology, Microbiology	
IM25.8	Enumerate the indications for use of newer techniques in the diagnosis of these infections	At the end of session phase III part II MBBS , student must be able to : 1. Enumerate the newer techniques used in the diagnosis of infections. 2. Enumerate the indications for use of newer techniques.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce			
IM25.9	Assist in the collection of blood and other specimen cultures	At the end of session phase III part II MBBS , student must be able to : 1. Perform under supervision the collection of blood. 2. Perform under supervision the collection of other specimen cultures.	S	SH	Y	DOAP session	Log book documentation		Microbiology	
IM25.10	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner	At the end of session phase III part II MBBS , student must be able to : 1. Discuss an appropriate cost effective diagnostic plan based on the clinical presentation.	K	KH	Y	Bedside clinic, Skill assessment	Skill assessment			
IM25.11	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate understanding of an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis.	C	SH	Y	DOAP session	Skill assessment		Microbiology, Pharmacology	

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM25.12	Communicate to the patient and family the diagnosis and treatment of identified infection	At the end of session phase III part II MBBS , student must be able to : 1. Inform the patient the diagnosis of identified infection. 2. Inform the patient the treatment of identified infection. 3. Inform the family the diagnosis of identified infection. 4. Inform the family the treatment of identified infection.	C	SH	Y	DOAP session	Skill assessment		AETCOM	
IM25.13	Counsel the patient and family on prevention of various infections due to environmental issues	At the end of session phase III part II MBBS , student must be able to : 1. Counsel the patient on prevention of various infections due to environmental issues. 2. Counsel the family on prevention of various infections due to environmental issues	C	SH	Y	DOAP session	Skill assessment		Community Medicine, General Medicine	
Topic: The role of the physician in the community			Number of competencies: (49)				Number of procedures that require certification : (NIL)			
IM26.1	Enumerate and describe professional qualities and roles of a physician	At the end of session phase III part II MBBS , student must be able to : 1. Enumerate professional qualities of a physician. 2. Describe professional qualities of a physician. 3. Enumerate roles of a physician. 4. Describe roles of a physician.	K	KH	Y	Small group discussion	Written/ Viva voce			
IM26.2	Describe and discuss the commitment to lifelong learning as an important part of physician growth	At the end of session phase III part II MBBS , student must be able to : 1. Describe the commitment to lifelong learning as an important part of physician growth. 2. Discuss the commitment to lifelong learning as an important part of physician growth.	K	KH	Y	Small group discussion	Written/ Viva voce			
IM26.3	Describe and discuss the role of non maleficence as a guiding principle in patient care	At the end of session phase III part II MBBS , student must be able to : 1. Define non-maleficence. 2. Enumerate guiding principles in patient care. 3. Describe the role of non maleficence as a guiding principle in patient care. 4. Discuss the role of non maleficence as a guiding principle in patient care.	K	KH	Y	Small group discussion	Written/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM26.4	Describe and discuss the role of autonomy and shared responsibility as a guiding principle in patient care	At the end of session phase III part II MBBS , student must be able to : 1. Define autonomy. 2. Define shared responsibility pertaining to patient care. 3. Describe the role of autonomy as a guiding principle in patient care. 4. Discuss the role of autonomy as a guiding principle in patient care. 5. Discuss the role of shared responsibility as a guiding principle in patient care 6. Describe the role of shared responsibility as a guiding principle in patient care	K	KH	Y	Small group discussion	Written/ Viva voce			
IM26.5	Describe and discuss the role of beneficence of a guiding principle in patient care	At the end of session phase III part II MBBS , student must be able to : 1. Describe the role of beneficence of a guiding principle in patient care. 2. Discuss the role of beneficence of a guiding principle in patient care.	K	KH	Y	Small group discussion	Written/ Viva voce			
IM26.6	Describe and discuss the role of a physician in health care system	At the end of session phase III part II MBBS , student must be able to : 1. Describe the role of a physician in health care system. 2. Discuss the role of a physician in health care system.	K	KH	Y	Small group discussion	Written/ Viva voce			
IM26.7	Describe and discuss the role of justice as a guiding principle in patient care	At the end of session phase III part II MBBS , student must be able to : 1. Describe the role of justice as a guiding principle in patient care. 2. Discuss the role of justice as a guiding principle in patient care	K	KH	Y	Small group discussion	Written/ Viva voce			
IM26.8	Identify discuss medicolegal, socioeconomic and ethical issues as it pertains to organ donation	At the end of session phase III part II MBBS , student must be able to : 1. Discuss medicolegal issues pertaining to organ donation. 2. Discuss socioeconomic issues pertaining to organ donation 3. Discuss ethical issues issues pertaining to organ donation.	K	KH	Y	Small group discussion	Written/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM26.9	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as it pertains to rights, equity and justice in access to health care	At the end of session phase III part II MBBS , student must be able to : 1. Discuss medicolegal issues pertaining to rights, equity and justice in access to health care. 2. Discuss sociocultural issues pertaining to rights, equity and justice in access to health care. 3. Discuss economic issues pertaining to rights, equity and justice in access to health care. 4. Discuss ethical issues pertaining to rights, equity and justice in access to health care.	K	KH	Y	Small group discussion	Written/ Viva voce			
IM26.10	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to confidentiality in patient care	At the end of session phase III part II MBBS , student must be able to : 1. Discuss medicolegal issues pertaining to confidentiality in patient care. 2. Discuss socio-cultural issues pertaining to confidentiality in patient care. 3. Discuss ethical issues pertaining to confidentiality in patient care.	K	KH	Y	Small group discussion	Written/ Viva voce			
IM26.11	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to patient autonomy, patient rights and shared responsibility in health care	At the end of session phase III part II MBBS , student must be able to : 1. Discuss medicolegal issues pertaining to patient's autonomy in health care. 2. Discuss medicolegal issues pertaining to patient's rights in health care. 3. Discuss medicolegal issues pertaining to patient's shared responsibility in health care. 4. Discuss socio-cultural issues pertaining to patient's autonomy in health care. 5. Discuss socio-cultural issues pertaining to patient's rights in health care. 6. Discuss socio-cultural issues pertaining to patient's shared responsibility in health care. 7. Discuss ethical issues pertaining to patient's autonomy in health care. 8. Discuss ethical issues pertaining to patient's rights in health care. 9. Discuss ethical issues pertaining to patient's shared responsibility in health care.	K	KH	Y	Small group discussion	Written/ Viva voce			

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
IM26.12	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision making in health care including advanced directives and surrogate decision making	At the end of session phase III part II MBBS , student must be able to : 1. Define surrogate decision making. 2. Define advanced directives in decision making. 3. Discuss medicolegal issues pertaining to decision making in health care. 4. Discuss socio-cultural issues pertaining to decision making in health care. 5. Discuss ethical issues pertaining to decision making in health care.		K	KH	Y	Small group discussion	Written/ Viva voce	
IM26.13	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision making in emergency care including situations where patients do not have the capability or capacity to give consent	At the end of session phase III part II MBBS , student must be able to : 1. Define consent. 2. List types of consent. 3. Discuss medicolegal issues pertaining to decision making in emergency care. 4. Discuss socio-cultural issues pertaining to decision making in emergency care. 5. Discuss ethical issues pertaining to decision making in emergency care. 6. Discuss medicolegal issues pertaining to decision making in situations where patients do not have the capability or capacity to give consent. 7. Discuss socio-cultural issues pertaining to decision making in situations where patients do not have the capability or capacity to give consent. 8. Discuss ethical issues pertaining to decision making in situations where patients do not have the capability or capacity to give consent.		K	KH	Y	Small group discussion	Written/ Viva voce	
IM26.14	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to research in human subjects	At the end of session phase III part II MBBS , student must be able to : 1. Discuss medicolegal issues pertaining to research in human subjects. 2. Discuss socio-cultural issues pertaining to research in human subjects. 3. Discuss ethical issues pertaining to research in human subjects.		K	KH	Y	Small group discussion	Written/ Viva voce	
IM26.15	Identify, discuss and defend, medicolegal, socio-cultural and ethical issues as they pertain to consent for surgical procedures	At the end of session phase III part II MBBS , student must be able to : 1. Discuss medicolegal issues pertaining to consent for surgical procedures. 2. Discuss socio-cultural issues pertaining to consent for surgical procedures. 3. Discuss ethical issues pertaining to consent for surgical procedures.		K	KH	Y	Small group discussion	Written/ Viva voce	

No.	COMPETENCY The student should be able to	Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE									
Topic: Heart Failure		Number of competencies: (30)			Number of procedures that require certification : (01)				
IM26.16	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues as it pertains to the physician patient relationship (including fiduciary duty)	At the end of session phase III part II MBBS , student must be able to : 1. Discuss medicolegal issues pertaining to the physician patient relationship. 2. Discuss socio-cultural issues pertaining to the physician patient relationship. 3. Discuss ethical issues pertaining to the physician patient relationship. 4. Discuss professional issues pertaining to the physician patient relationship. 5. Define fiduciary duty.	K	KH	Y	Small group discussion	Written/ Viva voce		
IM26.17	Identify, discuss physician's role and responsibility to society and the community that she/ he serves	At the end of session phase III part II MBBS , student must be able to : 1. Discuss physician's role to society and the community that she/ he serves. 2. Discuss physician's responsibility to society and the community that she/ he serves.	K	KH	Y	Small group discussion	Written/ Viva voce		
IM26.18	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues in physician- industry relationships	At the end of session phase III part II MBBS , student must be able to : 1. Discuss medicolegal issues in physician- industry relationships. 2. Discuss socio-cultural issues in physician- industry relationships. 3. Discuss ethical issues in physician- industry relationships.	K	KH	Y	Small group discussion	Written/ Viva voce		
IM26.19	Demonstrate ability to work in a team of peers and superiors	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to work in a team of peers. 2. Demonstrate ability to work in a team with superiors.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		
IM26.20	Demonstrate ability to communicate to patients in a patient, respectful, non threatening, non judgemental and empathetic manner	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to communicate to patients. 2. Demonstrate ability to communicate patient, respectful, non threatening, non judgemental and empathetic manner with patients.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		
IM26.21	Demonstrate respect to patient privacy	At the end of session phase III part II MBBS , student must be able to : 1. Identify respect to patient privacy. 2. Perform under supervision respect to patient privacy.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		
IM26.22	Demonstrate ability to maintain confidentiality in patient care.	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to maintain confidentiality in patient care.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment		

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM26.23	Demonstrate a commitment to continued learning	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate a commitment to continued learning.	S	SH	Y	Small group discussion	Skill assessment/ Viva voce			
IM26.24	Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers	At the end of session phase III part II MBBS , student must be able to : 1. Identify other health care workers. 2. Demonstrate respect in relationship with patients. 3. Demonstrate respect in relationship with fellow team members. 4. Demonstrate respect in relationship with superiors. 5. Demonstrate respect in relationship with other health care workers.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Viva voce			
IM26.25	Demonstrate responsibility and work ethics while working in the health care team	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate responsibility while working in the health care team. 2. Demonstrate work ethics while working in the health care team.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Viva voce			
IM26.26	Demonstrate ability to maintain required documentation in health care (including correct use of medical records)	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to maintain required documentation in health care. 2. Demonstrate ability to correctly use medical records in health care.	S	SH	Y	Small group discussion	Skill assessment/ Viva voce			
IM26.27	Demonstrate personal grooming that is adequate and appropriate for health care responsibilities	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate personal grooming that is adequate and appropriate for health care responsibilities.	S	SH	Y	Small group discussion	Skill assessment			
IM26.28	Demonstrate adequate knowledge and use of information technology that permits appropriate patient care and continued learning	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate adequate knowledge that permits appropriate patient care. 2. Demonstrate adequate knowledge that permits continued learning. 3. Demonstrate use of information technology that permits appropriate patient care. 4. Demonstrate use of information technology that permits continued learning.	S	SH	Y	Small group discussion	Skill assessment/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM26.29	Communicate diagnostic and therapeutic options to patient and family in a simulated environment	At the end of session phase III part II MBBS , student must be able to : 1. Perform under supervision communicating diagnostic options to patient and family in a simulated environment. 2. Perform under supervision communicating therapeutic options to patient and family in a simulated environment.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Viva voce			
IM26.30	Communicate care options to patient and family with a terminal illness in a simulated environment	At the end of session phase III part II MBBS , student must be able to : 1. Perform under supervision communicating care options to patient and family with a terminal illness in a simulated environment.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Viva voce			
IM26.31	Demonstrate awareness of limitations and seeks help and consultations appropriately	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate giving awareness of limitations to the patient. 2. Demonstrate giving awareness to the patient and family about seeking help and consultations appropriately.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Viva voce			
IM26.32	Demonstrate appropriate respect to colleagues in the profession	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate appropriate respect to colleagues in the profession.	S	SH	N	Small group discussion	Skill assessment/ Viva voce			
IM26.33	Demonstrate an understanding of the implications and the appropriate procedures and response to be followed in the event of medical errors	At the end of session phase III part II MBBS , student must be able to : 1. Identify medical errors. 2. Demonstrate an understanding of the implications in the event of medical errors. 3. Demonstrate an understanding of the appropriate procedures to be followed in the event of medical errors. 4. Demonstrate an understanding of appropriate response to be followed in the event of medical errors.	S	SH	N	Small group discussion	Skill assessment/ Viva voce			
IM26.34	Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts	At the end of session phase III part II MBBS , student must be able to : 1. Identify conflicts of interest in patient care. 2. Identify conflicts of interest in professional relationships. 3. Demonstrate correct response to conflicts of interest regarding patient care. 4. Demonstrate correct response to conflicts of interest regarding professional relationships.	S	SH	Y	Small group discussion	Skill assessment/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)				Number of procedures that require certification : (01)			
IM26.35	Demonstrate empathy in patient encounters	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate empathy in patient encounters.	S	SH	Y	Bedside clinic, DOAP session	Skill assessment/ Viva voce			
IM26.36	Demonstrate ability to balance personal and professional priorities	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to balance personal priorities. 2. Demonstrate ability to balance professional priorities.	S	SH	N	Small group discussion	Skill assessment/ Viva voce			
IM26.37	Demonstrate ability to manage time appropriately	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to manage time appropriately.	S	SH	Y	Small group discussion	Skill assessment/ Viva voce			
IM26.38	Demonstrate ability to form and function in appropriate professional networks	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to form appropriate professional networks. 2. Demonstrate ability to function in appropriate professional networks.	S	SH	N	Small group discussion	Skill assessment/ Viva voce			
IM26.39	Demonstrate ability to pursue and seek career advancement	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to pursue and seek career advancement. 2. Identify career advancement opportunities.	S	SH	N	Small group discussion	Skill assessment/ Viva voce			
IM26.40	Demonstrate ability to follow risk management and medical error reduction practices where appropriate	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to follow risk management. 2. Identify risk management. 3. Demonstrate ability to follow medical error reduction practices. 4. Identify medical error reduction practices.	S	SH	N	Small group discussion	Skill assessment/ Viva voce			
IM26.41	Demonstrate ability to work in a mentoring relationship with junior colleagues	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate ability to work in a mentoring relationship with junior colleagues. 2. Identify responsibilities as a mentor.	S	SH	N	Small group discussion	Skill assessment/ Viva voce			
IM26.42	Demonstrate commitment to learning and scholarship	At the end of session phase III part II MBBS , student must be able to : 1. Demonstrate commitment to learning and scholarship.	S	SH	N	Small group discussion	Skill assessment/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM26.43	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as they pertain to in vitro fertilisation donor insemination and surrogate motherhood	At the end of session phase III part II MBBS , student must be able to : 1. Describe surrogate motherhood. 2. Describe in vitro fertilisation donor insemination. 3. Discuss medicolegal issues pertaining to in vitro fertilisation donor insemination. 4. Discuss medicolegal issues pertaining to surrogate motherhood. 5. Discuss socio-cultural issues pertaining to in vitro fertilisation donor insemination. 6. Discuss socio-cultural issues pertaining to surrogate motherhood. 7. Discuss ethical issues pertaining to in vitro fertilisation donor insemination. 8. Discuss ethical issues pertaining to surrogate motherhood. 9. Discuss economic issues pertaining to in vitro fertilisation donor insemination. 10. Discuss economic issues pertaining to surrogate motherhood.	K	KH	N	Small group discussion	Written/ Viva voce		Obstetrics & Gynaecology	
IM26.44	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to medical negligence	At the end of session phase III part II MBBS , student must be able to : 1. Describe medical negligence. 2. Discuss medicolegal issues pertaining to medical negligence. 3. Discuss socio-cultural issues pertaining to medical negligence. 4. Discuss ethical issues pertaining to medical negligence. 5. Discuss professional issues pertaining to medical negligence.	K	KH	N	Small group discussion	Written/ Viva voce			
IM26.45	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to malpractice	At the end of session phase III part II MBBS , student must be able to : 1. Describe malpractice. 2. Discuss medicolegal issues pertaining to malpractice. 3. Discuss socio-cultural issues pertaining to malpractice. 4. Discuss ethical issues pertaining to malpractice. 5. Discuss professional issues pertaining to malpractice.	K	KH	N	Small group discussion	Written/ Viva voce			

No.	COMPETENCY The student should be able to		Domain K/S/A/ C	Level K/KH/ SH/P	Core Y/ N	Suggested Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
GENERAL MEDICINE										
Topic: Heart Failure			Number of competencies: (30)			Number of procedures that require certification : (01)				
IM26.46	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues in dealing with impaired physicians.	At the end of session phase III part II MBBS , student must be able to : 1. Discuss medicolegal issues in dealing with impaired physicians. 2. Discuss socio-cultural issues in dealing with impaired physicians. 3. Discuss ethical issues in dealing with impaired physicians. 4. Discuss professional issues in dealing with impaired physicians.	K	KH	N	Small group discussion	Written/ Viva voce			

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