General Medicine

Second MBBS (Clinical posting)

(Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. Vol. 2)

- 1. Total Teaching hours : 25+60
- 2. A. Lectures(hours): 25

- B. Self-directed learning (hours) : NIL
- C. Clinical Postings (hours): 60
- D. Small group teachings/tutorials/Integrated teaching/Practicals (hours): NIL

Week / Day	Day of the Week *	Competency Nos.	Topics & Subtopics (Suggested)	Duration	TL Method
1/1	Monday	1.10	Orientation to History Taking	3 hours	Bed side clinic
1/2	Tuesday	9.3	History taking and causes of anemia	1 hour	Bed side clinic
		8.9	Evaluation of all risk factors and co- morbidities for patient with hypertension	1 hour	Bed side clinic
		11.7	Elicit document and present a medical history that will differentiate the etiologies of diabetes including risk factors, precipitating factors, lifestyle, nutritional history, family history, medication history, co-morbidities and target organ disease	1 hour	Bed side clinic
1/3	Wednesday	16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel, sexual history and other concomitant illnesses	1 hour	Bed side clinic
		25.4	Elicit document and present a medical history that helps delineate the aetiology of zoonotic diseases that includes the evolution and pattern of symptoms, risk factors, exposure through occupation and travel	2 hours	Bed side clinic
1/4	Thursday	26.20	Demonstrate ability to communicate to patients in a patient, respectful, non- threatening, non-judgmental and empathetic manner	2 hours	Bed side clinic
		26.21 & 26.22	- Demonstrate respect to patient privacy		Bed side

Week / Day	Day of the week	Competency Nos.	Topics & Subtopics	Duration	TL Method
			-Demonstrate ability to maintain confidentiality in patient care	1 hour	clinic
1/5	Friday	26.35	Demonstrate empathy in patient encounters	1 hour	Bed side clinic
		6.7 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		1 hour	Bed side clinic
		26.19 , 26.24 & 26.25	 Demonstrate ability to work in a team of peers and superiors Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers Demonstrate responsibility and work ethics while working in the health care team 	1 hour	Bed side clinic
2/1	Monday	1.11, part 1.29	Orientation to General Exam	3 hours	Bed side clinic
2/2	Tuesday	1.12	Pulse examination with demonstration	3 hours	Bed side clinic /DOAP
2/3	Wednesday	1.13	Measure BP accurately	2 hours	Bed side clinic /DOAP
		1.14	JVP	1 Hour	Bed side clinic /DOAP
2/4	Thursday	4.9	Evaluation of fever	1.5 hours	Bed side clinic/DOAP
		4.10	Examination of skin ,lymph node, chest and abdominal examination	1.5 hours	Bed side clinic/DOAP
2/5	Friday	9.4	Perform a systematic examination that includes : general examination for pallor, oral examination	1 hour	Bed side clinic
		4.21	Orientation to Clinical decision making	2 hours	Bed side clinic
3/1	Monday	7.11 and 7.12	Orientation to medical history and examination of joints ,muscle and skin rheumatological diseases	1hour	Bed side clinic
		11.8	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) in a patient	1 hour	Bed side clinic

Week / Day	Day of the week	Competency Nos.	Topics & Subtopics	Duration	TL Method
			with diabetes		
		Practice sess Measurement	sion for clinical skills including BP t/ ward rounds	1 hour	Bed side clinic
3/2	Tuesday	1.30	Skill Acquisition - IM injection	3 hour	Skills lab
3/3	Wednesday	5.9	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 and family history in patient with liver disease.	1 hour	Bed side clinic
		16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination	1 hour	Bed side clinic
		5.14	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology	1 hours	Bed side clinic
3/4	Thursday	2.7	CVS Examination with demonstration	3 hour	Bed side clinic/DOAP
3/5	Friday	3.4 & 3.5	Orientation to history taking, general examination & systemic examination of Respiratory system	3 hours	Bed side clinic/DOAP
4/1	Monday	18.3	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	2 hours	Bed side clinic
		Practice sess rounds	ion for clinical and other skills/ ward	1 hour	Bed side clinic / skills lab
4/2	Tuesday	18.5	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate based on the history	2 hours	Bed Side clinic
		Practice sess rounds	ion for clinical and other skills/ ward	1 hour	Bed side clinic / skills lab
4/3	Wednesday	20.4 & 20.5	Medicalemergency- Elicit and document and present an appropriate history, the circumstance, time, kind of snake, evolution of symptoms in a patient with snake bite	2 hours	Bed side clinic

Week / Day	Day of the week	Competency Nos.	Topics & Subtopics	Duration	TL Method
			- Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination in a case of snake bite		
		Practice sess rounds	ion for clinical and other skills/ward	1 hour	Bed side clinic / skills lab
4/4	Thursday	Practical Asse	essment + Theory Assessment	3 hours	Case presentatio n
4/5	Friday	Skills Assessm Logbook Certi	ent – Certifiable skills and soft skills fication	3 hours	OSCE stations/ skills stations

Student Doctor method of clinical teaching – on the emergency day/ admission day of the clinical unit, students will be posted in admission area (Casualty / EMS) and allotted a case/ cases, which they will be following over the period of indoor stay and the same will be entered in the Logbook.

Focus of Learner-Doctor programme - History taking, physical examination, assessment of change in clinical status, communication and patient education

* Day of week is only suggestive, considering the posting is started on Monday. If posting is commenced on any other day, day of week can be modified accordingly.

General Medicine

Second MBBS (from Feb/March 2021)

Subject: GENERAL MEDICINE Theory

(Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. Vol. 2; page nos. 60-142)

- 1. Total Teaching hours : **25h + 60h**
- 2. A. Lectures(hours): 25h B. Self directed learning (hours): NIL
 - C. Clinical Postings (hours): 4 Wks (60h)
 - D. Small group teachings/tutorials/Integrated teaching/Practicals(hours): NIL

Lecture	Competency	Topic	Subtopics
	Nos.		
1	IM 4.1 to 4.5	Fever & Febrile	Introduction to Fever, Pathophysiology, Causes-
		Syndromes	Describe and discuss the febrile response and the influence
			of host immune status, risk factors and comorbidities on the
			febrile Response, Describe and discuss the influence of
			special populations on the febrile response including: the
			elderly, immune suppression, malignancy and neutropenia,
			nathonhysiology and manifestations of fever in various
			regions in India including bacterial, parasitic and viral causes
			(e.g.Dengue, Chikungunya, Typhus), inflammatory causes of
			fever, malignant causes of fever including hematologic and
			lymph node malignancies
2	IM 4.6; 4.15;	Fever & Febrile	Malaria - Discuss and describe the pathophysiology and
	4.22 to 4.26	Syndromes	manifestations of malaria, interpret a malarial smear,
			Describe and discuss the pharmacology, indications, adverse
			reactions, interactions of antimalarial drugs and basis of
			resistance, malarial prevention
3	IM 4.7	Fever & Febrile	Sepsis Syndrome - Discuss and describe the pathophysiology
		Syndromes	and manifestations of the sepsis syndrome
4	IM 4.8; 4.16;	Fever & Febrile	FUO- Discuss and describe the pathophysiology, aetiology
	4.18	Syndromes	and clinical manifestations of fever of unknown origin (FUO)
			including in a normal host, neutropenic host, nosocomial
			host and a host with HIV disease , 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, Enumerate the indications for use of imaging in the
			diagnosis of tebrile syndromes.

5		Infections	Describe and discuss the response and the influence of host
			immune status, risk factors and comorbidities on zoonotic
			diseases, pathophysiology and manifestations, appropriate
	IM		diagnostic plan, newer techniques in the diagnosis, empiric
	25.1; 25.2;		treatment plan OF -
	25.3,		Leptospirosis & Dengue
6	25.7,25.8,	Infections	Rabies & Tetanus
7	25.10,25.11	Infections	Scrub Typhus, Typhoid
8		Infections	Acute encephalitis syndromes including JE
9	IM 6.1 to 6.3	HIV	Describe and discuss the symptoms and signs of acute HIV
			Seroconversion, Define and classify HIV AIDS based on the
			CDC criteria, Describe and discuss the relationship between
			CDC count and the risk of opportunistic infections
10	IM 6.4 to 6.6;	HIV	Describe and discuss the pathogenesis, evolution and clinical
	6.9		features of common HIV related opportunistic infections,
			malignancies, skin and oral lesions, Choose and interpret
			appropriate diagnostic tests to diagnose and classify the
			severity of HIV-AIDS including specific tests of HIV, CDC
11	IM 6.16 to	HIV	Discuss and describe the principles of HAART, the classes of
	6.18		antiretrovirals used, adverse reactions and interactions,
			Discuss and describe the principles and regimens used in
			post exposure prophylaxis, Enumerate the indications and
			discuss prophylactic drugs used to prevent HIV related
			opportunistic infections
12	IM 16.1;	Diarrheal	Describe and discuss the aetiology of acute and chronic
	16.13; 16.14;	Diseases	diarrhea including infectious and noninfectious causes,
	16.6		Distinguish between diarrhea and dysentery based on
			clinical features, Describe and enumerate the indications,
			pharmacology and side effects of pharmacotherapy for
			parasitic, bacterial and viral causes of diarrhea
13	IM 16.11;	Diarrheal	Diagnosis of acute diarrhea (Stool culture & Blood culture);
	16.12	Diseases	Diagnosis of chronic diarrhea (Antibodies, colonoscopy,
			imaging & biopsy)
14	IM 16.2; 16.3	Diarrheal	Describe and discuss the acute systemic consequences of
		Diseases	diarrhea including its impact on fluid balance, Describe and
			discuss the chronic effects of diarrhea including
			malabsorption
15	IM 16.15-	Diarrheal	Distinguish based on the clinical presentation Crohn's
	16.17	Diseases	disease from Ulcerative Colitis, Describe and enumerate the
			indications, pharmacology and side effects of
			pharmacotherapy including immunotherapy, the indications
10			for surgery in inflammatory bowel disease
10	1111 3.2,3.3	Pheumonia	Discuss and describe the etiologies of various kinds of
			prieumonia and their microbiology depending on the setting
			and minimum status of the nost, Discuss and describe the
			participations of photomonia
17	IM 3 1	Pneumonia	Define discuss describe and distinguish community
1/		Fileumonia	acquired nneumonia nosocomial nneumonia and
			acquired pricumonia, nosoconnal pricumonia dilu espiration pneumonia
1			aspiration pricamonia

18	IM 3.15; 3.16	Pneumonia	Describe and enumerate the indications for hospitalization in patients with pneumonia, Describe and enumerate the indications for isolation and barrier nursing in patients with pneumonia
19	IM 3.17; 3.19	Pneumonia	Describe and discuss the supportive therapy in patients with pneumonia including oxygen use and indications for ventilation, Discuss, describe, enumerate the indications and communicate to patients on pneumococcal and influenza vaccines
20	IM 20.1; 20.3; 20.7	Envenomation	Enumerate the local poisonous snakes and describe the distinguishing marks of each, Describe the initial approach to the stabilization of the patient who presents with snake bite , Enumerate the indications and describe the pharmacology, dose, adverse reactions, hypersensitivity reactions of anti snake venom .
21	IM 20.8; 20.9	Envenomation	Describe the diagnosis, initial approach stabilization and therapy of scorpion envenomation and bee sting allergy
22	IM 21.1 to 21.3	Poisoning	Describe the initial approach to the stabilization of the patient who presents with poisoning, Enumerate the common plant poisons seen in your area and describe their toxicology, clinical features, prognosis and specific approach to detoxification, common corrosives poisoning .
23	IM 21.4	Poisoning	Enumerate the commonly observed drug overdose in your area and describe their toxicology, clinical features, prognosis and approach to therapy
24	IM 23.1, 23.4	Nutrition & Vitamin Deficiencies	Discuss and describe the methods of nutritional assessment in an adult and calculation of caloric requirements during illnesses, Enumerate the indications for enteral and parenteral nutrition in critically ill patients
25	IM 23.2; 23.3	Nutrition & Vitamin Deficiencies	Discuss and describe the causes and consequences of protein caloric malnutrition in the hospital, Discuss and describe the aetiology, causes, clinical manifestations, complications, diagnosis and management of common vitamin deficiencies

Maharashtra University of Health Sciences General Medicine

Third professional Part I MBBS

Subject: General Medicine

Theory - Lectures + SDL + Tutorials, Seminars, Integrated

(Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. Vol. 2)

- 1. Total Teaching hours : **25+ 35+ 5+72**
- 2. A. Lectures(hours): 25
- B. Self-directed learning (hours): 05
- C. Clinical Postings (hours): 72
- D. Small group teachings/tutorials/Integrated teaching/Practicals (hours): 35

Lecture / SDL	Competency Nos.	Торіс	Subtopics	
1	IM 9.1; 9.2	Anaemia	Classification of anemia; Etiology & Prevalence	
2	IM 9.7; 9.8,9.21	Anaemia	Components of hemogram; Tests for Iron deficiency & Vit. B12 Deficiency. Determine the need for specialist consultation.	
3	IM 9.11; 9.12	Anaemia	Diagnostic plan for evaluation of anemia including BMA & Biopsy	
4	IM 9.17; 15.12,9.18,	Anaemia	Indication for Blood transfusion & components; Precautions during transfusion including mismatch transfusion.	
SDL-1	IM 9.14	Anaemia	National programs for prevention of anemia	
5	IM 14.1 to 14.4	Obesity	Definition, prevalence, etiology, risk factors including monogenic forms, environmental factors of obesity	
6	IM 14.5; 14.9, 14.10,14.13; 14.14;14.15	Obesity	Natural history, complications, laboratory tests , pharmacotherapy and bariatric surgery of obesity and prevention of obesity	
7	IM 15.1; 15.6	GI Bleed	Etiology and distinguishing features of UGI and LGI Bleed	
8	IM 15.2 ; 15.3; 15.11	GI Bleed	Physiological effects, Evaluation and steps in stabilizing a patient with acute volume loss due to GI bleed; including blood and component transfusion	

9	15.14; 15.10; 15.15,15.16, 15.17	GI Bleed	Investigation (endoscopy, colonoscopy, imaging) and treatment of GI bleed including pharmacotherapy of acid peptic disease (including H.pylori), pressors, endoscopic interventions and surgery and appropriate level of specialist consultation
10	IM 5.1; 5.2; 5.3, 5.5; 5.7	Liver Diseases	Etiology, Pathophysiology of hyperbilirubinemia and various forms of liver disease including alcoholic liver disease and drug induced liver injury
11	IM 5.4,5.16, 5.17	Liver Diseases	Epidemiology, microbiology, immunology, clinical evolution of infective (viral) hepatitis and it' management including vaccination.
12	IM 5.12, 13, 14	Liver Diseases	Outline a diagnostic approach to liver disease based on CBS, hyperbilirubinemia, Ascitic fluid examination, liver function changes and hepatitis serology. Enumerate the indications for ultrasound and other imaging studies including MRCP and ERCP and describe the findings in liver disease.
13	IM 5.6,5.18	Liver Diseases	Pathophysiology, evolution, management and Complication of cirrhosis and portal hypertension, indications for hepatic transplantation.
SDL-2	IM 5.8	Liver Diseases	Cholelithiasis and cholecystitis
SDL-2 14	IM 5.8 IM 11.1 to 11.4	Liver Diseases Diabetes	Cholelithiasis and cholecystitis Definition, classification of Diabetes; Epidemiology, Pathogenesis, Genetics, Risk factors and Clinical evolution of Type-1 & -2 DM
SDL-2 14 15	IM 5.8 IM 11.1 to 11.4 IM 11.6; 11.9; 11.11, 11.14; 11.15; 11.22 to 11.24	Liver Diseases Diabetes Diabetes	Cholelithiasis and cholecystitis Definition, classification of Diabetes; Epidemiology, Pathogenesis, Genetics, Risk factors and Clinical evolution of Type-1 & -2 DM Pathogenesis, C/F, Precipitating factors, Stabilization, Principle of therapy & Management (Investigations & treatment) of diabetic emergencies (Hypoglycemia, DKA, HONKS).
SDL-2 14 15 16	IM 5.8 IM 11.1 to 11.4 IM 11.6; 11.9; 11.11, 11.14; 11.15; 11.22 to 11.24 IM 11.16; 11.17	Liver Diseases Diabetes Diabetes Diabetes	Cholelithiasis and cholecystitis Definition, classification of Diabetes; Epidemiology, Pathogenesis, Genetics, Risk factors and Clinical evolution of Type-1 & -2 DM Pathogenesis, C/F, Precipitating factors, Stabilization, Principle of therapy & Management (Investigations & treatment) of diabetic emergencies (Hypoglycemia, DKA, HONKS). Pharmacological therapies for DM, indications, CI, ADR and Interaction- Based on presentation, severity, complication in a cost effective therapy
SDL-2 14 15 15 16 17	IM 5.8 IM 11.1 to 11.4 IM 11.6; 11.9; 11.11, 11.14; 11.15; 11.22 to 11.24 IM 11.16; 11.17 IM 11.5	Liver Diseases Diabetes Diabetes Diabetes Diabetes	 Cholelithiasis and cholecystitis Definition, classification of Diabetes; Epidemiology, Pathogenesis, Genetics, Risk factors and Clinical evolution of Type-1 & -2 DM Pathogenesis, C/F, Precipitating factors, Stabilization, Principle of therapy & Management (Investigations & treatment) of diabetic emergencies (Hypoglycemia, DKA, HONKS). Pharmacological therapies for DM, indications, CI, ADR and Interaction- Based on presentation, severity, complication in a cost effective therapy Pathogenesis, temporal evolution of microvascular and macrovascular complications of diabetes (Neuropathy, Nephropathy, Retinopathy, HTN,

18	IM 7.1; 7.2, 7.27	Rheumatologic Problems	Pathophysiology and genetic basis of autoimmune disease and determine the need for specialist consultaion
19	IM 7.3 to 7.6; 7.8	Rheumatologic Problems	Pathophysiology, classification, presenting features, approach, and etiology of joint pain; differentiate arthritis from arthralgia
20	IM 7.10, 7.14,7.15,7,17 ,7,19	Rheumatologic Problems	Describe appropriate diagnostic workup and treatment plan for rheumatological diseases. Enumerate Systemic manifestations of rheumatological diseases,
SDL 4	IM 7.7; 7.9; 7.16	Rheumatologic Problems	Articular from periarticular symptoms; Signs and symptoms of articular and periarticular diseases, Indications for Arthocentesis.
21	IM 12.3; 12.4	Thyroid Dysfunction	Principles of Thyroid function tests, Principles of RAI uptake, alteration of physiological function along with physiology of HPT axis
22	IM 12.1; 12.2; 12.11,12.12; 12.13, 12.14	Thyroid Dysfunction	Epidemiology, pathogenesis, genetic basis of Hypothyroidism, interpretation of TFT, Pharmacotherapy, indication, ADR of Thyroxine. Iodization programmes of Govt of India
23	IM 12.1; 12.2; 12.11,12.13, 12.4; 12.14	Thyroid Dysfunction	Epidemiology, pathogenesis, genetic basis of Hyperthyroidism; interpretation of TFT, Pharmacotherapy, indication, ADR of Anti-thyroid drugs
24	IM 13.1 to 13.3	Common Malignancies	Epidemiology, Genetic Basis, Risk factors for common malignancies in India; Infections causing cancer
25	IM 13.4	Common Malignancies	Natural history, presentation, course, complication and cause of death for common cancers
SDL 5	IM 13.5,13.6, 13.18, 13.19	Common Malignancies	Describe the common issues encountered in patients at the end of life and principles of management, Describe and distinguish the difference between curative and palliative care in patients with cancer, Describe and discuss the ethical and the medico legal issues involved in end of life care, Describe the therapies used in alleviating suffering in patients at the end of life

	Tutorials/Se	minars/Integrated teachings- 35 hours			
		Tutorials- Total 10 hours			
S. No.	Topics		Hours		
1.	Medical emergencies	– Common poisonings	1 hr		
2.	Medical emergencies	 related to Pharmacological agents 	1 hr		
3.	Drugs – IV fluids and p	ain killers including Narcotics	1 hr		
4.	Drugs – used in CPR		1 hr		
5.	Instruments – for vario	ous injections and IV access	1 hr		
6.	Instruments - for rout	Instruments - for routine invasive procedures			
7.	X rays – Format of rea ray Chest	ding X-ray chest, skeletal and pleural involvement in X-	1 hr		
8.	X rays – Parenchymal	involvement in X-ray chest	1 hr		
9.	ECG – Basics of report	ing ECG ,with abnormal rate	1 hr		
10	ECG – Rhythm disturb	ECG – Rhythm disturbances			
		Seminars- Total 16 hours			
S. No.	Topics		Hours		
1.	Clinical approach to As	scites	1 hr		
2.	Clinical approach to A	naemia	1 hr		
3.	Clinical approach to ly	1 hr			
4.	Clinical approach to Ja	1 hr			
5.	Clinical approach to ch	1 hr			
6.	Clinical approach to he	1 hr			
7.	Clinical approach to bl	1 hr			
8.	Clinical approach to Co	1 hr			
9.	Portal hypertension ar	1 hr			
10	Pulmonary arterial hy	Pulmonary arterial hypertension			
11	Pulmonary function te	ests	1 hr		
12	Thyroid function tests		1 hr		
13	Grave's disease		1 hr		
14	Micro-vascular compli	cations of DM	1 hr		
15	Macro-vascular compl	ications of DM	1 hr		
16	Insulin and analogues		1 hr		
		Integration – Total 9 hours			
S.No.	Subject	Topics for integration	Hours		
1.	Clinical	Clinical pharmacokinetics	01		
	Pharmacology	Drug-Drug interaction	01		
		Adverse drug reaction	01		
2.	Clinical Pathology	Anaemia and haemoglobinopathies	01		
		Platelet disorder	01		
		Hematological malignancies	01		
3.	Clinical Microbiology	Biologicals and disease modifying agents	01		
		Antimicrobial resistance	01		
		Viral haemorrhagic fever	01		

General Medicine

Third professional Part I MBBS

Subject: General Medicine

Clinical Posting (4 weeks, 6 days a week, 3 hours per day)

(Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. Vol. 2)

- 1. Total Teaching hours : 25+ 35+ 5= 65
- 2. A. Lectures(hours): 25

B. Self-directed learning (hours): 05

C. Clinical Postings (hours): 72

D. Small group teachings/tutorials/Integrated teaching/Practicals (hours): 35

Clinical skills hours	Procedural Skills hours	Assessment hours	Total
54	12	06	72

Maharashtra University of Health Sciences General Medicine

Fourth professional Year III/II MBBS

Subject: General Medicine

Theory - Lectures + SDL + Tutorials, Seminars, Integrated

(Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. Vol. 2)

- 1. Total Teaching hours :70+ 125+15 + 144+ 72 = 426
- 2. A. Lectures(hours): **70** B. Self-directed learning (hours):15
 - C. Clinical Postings (hours): 144 + 72= 216
 - D. Small group teachings/tutorials/Integrated teaching/Practicals (hours): 125

Lecture / SDL	Competenc y Nos.	Торіс	Subtopics	
1	IM 8.1 to 8.5	Hypertension	Define and classify hypertension, Describe and discuss the epidemiology, etiology, prevalence, pathophysiology and genetic basis of essential hypertension, Describe and discuss the differences between primary and secondary hypertension	
2	IM8.7,8.1	Hypertension	Describe and discuss epidemiology, aetiology and the prevalence of secondary HT and the clinical manifestations of the various aetiologies of secondary causes of hypertension	
3	IM8.6	Hypertension	Define, describe and discuss and recognize hypertensive urgency and emergency	
4	IM 8.8, 8.20	Hypertension	Describe, discuss and identify target organ damage due to hypertension, Determine the need for specialist consultation	
SDL 1	IM 8.12,8.13	Hypertension	Describe the appropriate diagnostic work up based on the presumed aetiology, Enumerate the indications for and interpret the results of : CBC, Urine routine, BUN, Cr, Electrolytes, Uric acid, ECG	
SDL 2	IM 8.14	Hypertension	Develop an appropriate treatment plan for patient with hypertension	
5	IM 1.1, 1.2	Heart Failure	Describe and discuss the epidemiology, pathogenesis clinical evolution and course of common causes of heart	

			disease including: rheumatic/valvular, ischemic,
			hypertrophic, inflammatory. Describe and discuss the
			genetic basis of some forms of heart failure.
6	IM 1.3 (part)	Heart Failure	Describe and discuss the aetiology, microbiology
			pathogenesis and clinical evolution of rheumatic fever,
			criteria, degree of rheumatic activity and Rheumatic
			valvular heart disease.
7	IM1.9	Heart Failure	Describe and discuss the clinical presentation and
			features, diagnosis, recognition and management of
			acute rheumatic fever
8	IM 1.3 (part)	Heart Failure	Describe Complications of Rheumatic valvular heart
	IM 1.27		disease. (Other than Infective Endocarditis), Describe
			and discuss the role of penicillin prophylaxis in the
			prevention of rheumatic heart disease
SDL 3	IM 1.25	Heart Failure	Enumerate the indications for valvuloplasty, valvotomy,
			coronary revascularization and cardiac transplantation
9	IM1.3 (part),	Heart Failure	Describe and discuss and identify the clinical features of
	1.21		acute and sub-acute endocarditis, echocardiographic
			findings, blood culture and sensitivity and therapy
10	IM1.4.1.5.1.6	Heart Failure	Staging of heart failure. Describe, discuss and
	,,		differentiate the processes involved in R Vs I heart
			failure, systolic vs diastolic failure. Describe and discuss
			the compensatory mechanisms involved in heart failure
			including cardiac remodeling and neuro-hormonal
			adaptations
11	IM1.7	Heart Failure	Enumerate, describe and discuss the factors that
			exacerbate heart failure including ischemia, arrhythmias,
			anemia, thyrotoxicosis, dietary factors drugs etc.
12	IM 1.8	Heart Failure	Describe and discuss the pathogenesis and development
			of common arrhythmias involved in failure particularly
			atrial fibrillation
10	104 1 10	Lloort College	Four events the indications for and describe the first trans
13	1111 1.19	neart Fallure	chumerate the indications for and describe the findings
			on neart nanure with the following : 2D
			echocardiography, brain natriuretic peptide, exercise
			testing, nuclear medicine testing and coronary
			angiogram
14	IM 1.24	Heart Failure	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
15	IM 1.28	Heart Failure	Enumerate the causes of adult presentations of congenital heart disease and describe the distinguishing features between cyanotic and acyanotic heart disease
16	IM 2.1 ,2.2, 2.4	AMI/IHD	Discuss and describe the epidemiology, antecedents and risk factors both modifiable and non-modifiable, the pathogenesis, natural history, evolution and complications of atherosclerosis and IHD .
SDL 4	IM 2.3	AMI/IHD	Discuss and describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis
17	IM 2.5	AMI/IHD	Define the various acute coronary syndromes and describe their evolution, natural history and outcomes
18	IM 2.13	AMI/IHD	Discuss and enumerate the indications for and findings on echocardiogram, stress testing and coronary angiogram
19	IM 2.14,2.15, 2.16	AMI/IHD	Discuss and describe the indications for admission to a coronary care unit and supportive therapy for a patient with acute coronary syndrome. Discuss and describe the medications used in patients with an acute coronary syndrome based on the clinical presentation. Discuss and describe the indications for acute thrombolysis, PTCA and CABG.
SDL 5	IM 2.17	AMI/IHD	Discuss and describe the indications and methods of cardiac rehabilitation.
20	IM 2.18	AMI/IHD	Discuss and describe the indications, formulations, doses, side effects and monitoring for drugs used in the management of dyslipidemia
21	IM 2.19	AMI/IHD	Discuss and describe the pathogenesis, recognition and management of complications of acute coronary syndromes including arrhythmias, shock, LV dysfunction, papillary muscle and pericarditis
22	IM ,2.20	AMI/IHD	Discuss and describe the assessment and relief of pain in acute coronary syndromes
23	IM 2.23	AMI/IHD	Describe and discuss the indications for nitrates, anti platelet agents, gpIIb IIIa inhibitors, beta blockers, ACE

			inhibitors etc in the management of coronary syndromes
24	IM 17.1,17.6, 17.10	Headache	Define and classify headache and describe the presenting features, precipitating factors, aggravating and relieving factors of various kinds of headache. Choose and interpret diagnostic testing based on the clinical diagnosis including imaging. Enumerate the indications for emergency care admission and immediate supportive care in patients with headache.
25	IM 17.3,17.11, 17.12	Headache	Classify migraine and describe the distinguishing features between classical and non-classical forms of migraine. Describe the indications, pharmacology, dose, side effects of abortive therapy and prophylactic therapy in migraine.
26	IM 17.13	Headache	Describe the pharmacology, dose, adverse reactions and regimens of drugs used in the treatment of bacterial, tubercular and viral meningitis.
SDL 6	IM 18.1	Cerebrovascular accident	Describe the functional and the vascular anatomy of the brain
27	IM 18.2	Cerebrovascular accident	Classify cerebrovascular accidents and describe the aetiology, predisposing genetic and risk factors pathogenesis of hemorrhagic and non-hemorrhagic stroke
28	IM 18.10	Cerebrovascular accident	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident (CVA)
29	IM 18.11	Cerebrovascular accident	Describe the initial supportive management of a patient presenting with a cerebrovascular accident (CVA)
30	IM 18.12,18.13	Cerebrovascular accident	Enumerate the indications for and describe acute therapy of non-hemorrhagic stroke including the use of thrombolytic agents and anti-platelet agents
31	IM18.14, 18.15	Cerebrovascular accident	Describe the initial management of a hemorrhagic stroke. Enumerate the indications for surgery in a hemorrhagic stroke.
SDL 7	IM 18.16	Cerebrovascular accident	Enumerate the indications describe and observe the multidisciplinary rehabilitation of patients with a CVA
SDL 8	IM 19.1	Movement disorders	Describe the functional anatomy of the locomotor system of the brain
32	IM 19.2,19.3,IM	Movement disorders	Classify movement disorders of the brain based on distribution, rhythm, repetition, exacerbating and relieving factors, clinical approach to movement

	19.7		disorders.
33	IM 19.8	Movement disorders	Discuss and describe the pharmacology, dose, side effects and interactions used in the drug therapy of Parkinson's syndrome
34	IM19.7,19.9	Movement disorders	Choose and interpret diagnostic and imaging tests in the diagnosis of movement disorders, Enumerate the indications for use of surgery and botulinum toxin in the treatment of movement disorders
35	IM 10.1,10.2	AKI and CRF	Define, describe and differentiate between acute and chronic renal failure, Classify, describe and differentiate the pathophysiologic causes of acute renal failure
36	IM 10.3, 10.4	AKI and CRF	Describe the pathophysiology and causes of pre renal ARF, renal and post renal ARF, Describe the evolution, natural history and treatment of ARF
37	IM 10.5,10.6, 10.7	AKI and CRF	Describe and discuss the aetiology of CRF, Stage Chronic Kidney Disease, Describe and discuss the pathophysiology and clinical findings of uremia
38	IM 10.15,10.16, 10.17,10.19	AKI and CRF	Describe the appropriate diagnostic work up based on the presumed aetiology, Enumerate the indications for and interpret the results of : renal function tests, calcium, phosphorus, PTH, urine electrolytes, osmolality, Anion gap, Describe and calculate indices of renal function based on available laboratories including FENa (Fractional Excretion of Sodium) and CrCl (Creatinine Clearance), Enumerate the indications and describe the findings in renal ultrasound
39	IM10.8 , 10.9 10.10 ,10.11	AKI and CRF	Classify, describe and discuss the significance of proteinuria in CKD, Describe and discuss the pathophysiology of anemia and hyperparathyroidism, Describe and discuss the association between CKD glycaemia and hypertension, Describe and discuss the relationship between CAD risk factors and CKD.
40	IM 10.25	AKI and CRF	Identify and describe the priorities in the management of ARF including diet, volume management, alteration in doses of drugs, monitoring and indications for dialysis
41	IM 10.26	AKI and CRF	Describe and discuss supportive therapy in CKD including diet, anti hypertensives, glycemic therapy, dyslipidemia, anemia, hyperkalemia, hypophosphatemia and

			secondary hyperparathyroidism		
42	IM 10.27,10.28	AKI and CRF	Describe and discuss the indications for renal dialysis, Describe and discuss the indications for renal replacement therapy		
SDL 9	IM 10.29, 10.30,10.31	AKI and CRF	Describe discuss and communicate the ethical and legal issues involved in renal replacement therapy, Recognize the impact of CKD on patient's quality of life, wellbeing , work and family, Incorporate patient preferences in to the care of CKD		
43	IM 22.1,22.2, 22.3	Fluid Electrolyte & Acid base Disorder	Enumerate the causes of hypercalcemia and distinguish the features of PTH vs non PTH mediated hypercalcemia, Describe the aetiology, clinical manifestations, diagnosis and clinical approach to primary hyperparathyroidism, Describe the approach to the management of hypercalcemia		
44	IM 22.4	Fluid Electrolyte & Acid base Disorder	Enumerate the components and describe the genetic basis of the multiple endocrine neoplasia syndrome		
45	IM 22.5,22.6	Fluid Electrolyte & Acid base Disorder	Enumerate the causes and describe the clinical features and the correct approach to the diagnosis and management of the patient with Hyponatremia and hypernatremia		
46	IM 22.7,22.8	Fluid Electrolyte & Acid base Disorder	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hypokalemia and hyperkalemia		
47	IM 22.9,22.10, 22.11, 22.12	Fluid Electrolyte & Acid base Disorder	Enumerate the causes and describe the clinical and laboratory features of metabolic acidosis, metabolic alkalosis, respiratory acidosis, respiratory alkalosis		
SDL 10	IM 24.18,24.19, 24.21	Geriatrics	Describe the impact of the demographic changes in ageing on the population, Enumerate and describe the social problems in the elderly including isolation, abuse, change in family structure and their impact on health and discuss ethical issues in care of elderly.		
48	IM 24.1, 24.3, 24.5 to 25.7	Geriatrics	Describe and discuss the epidemiology, pathogenesis, clinical evolution, presentation and course of common diseases in the elderly, Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization,		

			management and rehabilitation of acute confusional states, depression, dementia and personality changes in elderly.
49	IM 24.10	Geriatrics	Describe and discuss the etiopathogenesis causes, clinical presentation, difference in clinical presentation identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly.
50	IM 24.4,24.9	Geriatrics	Describe and discuss the etiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of, vascular events and CVA in the elderly
51	IM 24.11	Geriatrics	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of the elderly undergoing surgery
52	IM 24.8,24.12, 24.13,24.14	Geriatrics	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of osteoporosis, degenerative joint disease, falls, and common fractures in elderly
53	IM 24.15 to 25.17	Geriatrics	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vision and visual loss, hearing loss and disabilities in the elderly
54	IM 24.22	Geriatrics	Describe and discuss the aetiopathogenesis, clinical presentation, complications, assessment and management of nutritional disorders in the elderly
SDL 11	IM 24.20	Geriatrics	Enumerate and describe social interventions in the care of elderly including domiciliary discussion services, rehabilitation facilities, old age homes and state interventions
55	IM 26.2, 26.23,26.27, 26.38, 26.39,26.42	The role of the physician in the community	Professional Development – Describe and discuss the commitment to lifelong learning as an important part of physician growth, Demonstrate a commitment to continued learning, Demonstrate personal grooming that is adequate and appropriate for health care responsibilities, Demonstrate ability to form and

			function in appropriate professional networks,
			Demonstrate ability to pursue and seek career
			advancement, Demonstrate commitment to learning and
			scholarship.
56	IM 26.3,26.4,	The role of the	Bioethics in Clinical Practice - Describe and discuss the
	26.5,26.11	physician in the	role of beneficence, non-maleficence, autonomy and
		community	shared responsibility as guiding principles in patient care
57	IM	The role of the	Time management - Demonstrate ability to manage
	26.37,26.36	physician in the	time appropriately, Demonstrate ability to balance
		community	personal and professional priorities
58	IM 26.12,	The role of the	Decision making in health care - Identify, discuss and
	26.13, 26.25	physician in the	defend medico legal, socio-cultural and ethical issues as
		community	it pertains to decision making in health care including
			decision making in emergency care including situations
			where patients do not have the capability or capacity to
			give consent, Identify, discuss and defend, medico legal,
			socio-cultural and ethical issues as they pertain to
			consent for surgical procedures
59	Module 4.1	Pandemic	Lessons learnt from Covid 19 pandemic – a Narrative.
		module	
60	Module 4.1	Pandemic	Individual responsibilities in Pandemic Situation.
60	Module 4.1	Pandemic module	Individual responsibilities in Pandemic Situation.
60 SDL 12	Module 4.1	Pandemic module The role of the	Individual responsibilities in Pandemic Situation.
60 SDL 12	Module 4.1 26.47	Pandemic module The role of the physician in the	Individual responsibilities in Pandemic Situation. Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical
60 SDL 12	Module 4.1 26.47	Pandemic module The role of the physician in the community	Individual responsibilities in Pandemic Situation. Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not
60 SDL 12	Module 4.1 26.47	Pandemic module The role of the physician in the community	Individual responsibilities in Pandemic Situation. Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life support
60 SDL 12 SDL 13	Module 4.1 26.47 26.8	Pandemic module The role of the physician in the community The role of the	Individual responsibilities in Pandemic Situation.Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life supportOrgan Donation in India - Identify discuss medico legal,
60 SDL 12 SDL 13	Module 4.1 26.47 26.8	Pandemic module The role of the physician in the community The role of the physician in the	 Individual responsibilities in Pandemic Situation. Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life support Organ Donation in India - Identify discuss medico legal, socioeconomic and ethical issues as it pertains to organ
60 SDL 12 SDL 13	Module 4.1 26.47 26.8	Pandemic module The role of the physician in the community The role of the physician in the community	Individual responsibilities in Pandemic Situation. Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life support Organ Donation in India - Identify discuss medico legal, socioeconomic and ethical issues as it pertains to organ donation
60 SDL 12 SDL 13 SDL 14	Module 4.1 26.47 26.8 Integrated	Pandemic module The role of the physician in the community The role of the physician in the community Community	Individual responsibilities in Pandemic Situation.Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life supportOrgan Donation in India - Identify discuss medico legal, socioeconomic and ethical issues as it pertains to organ donationNational programs relevant to physicians
60 SDL 12 SDL 13 SDL 14	Module 4.1 26.47 26.8 Integrated SDL	Pandemic module The role of the physician in the community The role of the physician in the community Community Medicine	Individual responsibilities in Pandemic Situation.Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life supportOrgan Donation in India - Identify discuss medico legal, socioeconomic and ethical issues as it pertains to organ donationNational programs relevant to physicians
60 SDL 12 SDL 13 SDL 13 SDL 14 SDL 15	Module 4.1 26.47 26.8 26.8 Integrated SDL Integrated	Pandemic module The role of the physician in the community The role of the physician in the community Community Medicine Community	Individual responsibilities in Pandemic Situation.Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life supportOrgan Donation in India - Identify discuss medico legal, socioeconomic and ethical issues as it pertains to organ donationNational programs relevant to physiciansAdult Immunization and newer vaccines
60 SDL 12 SDL 13 SDL 13 SDL 14 SDL 15	Module 4.1 26.47 26.8 26.8 Integrated SDL Integrated SDL	Pandemic module The role of the physician in the community The role of the physician in the community Community Medicine	Individual responsibilities in Pandemic Situation.Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life supportOrgan Donation in India - Identify discuss medico legal, socioeconomic and ethical issues as it pertains to organ donationNational programs relevant to physiciansAdult Immunization and newer vaccines
60 SDL 12 SDL 13 SDL 13 SDL 14 SDL 15 61	Module 4.1 26.47 26.8 26.8 Integrated SDL Integrated SDL Integrated SDL	Pandemic module The role of the physician in the community The role of the physician in the community Community Medicine Community Medicine Revision Lecture	Individual responsibilities in Pandemic Situation.Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life supportOrgan Donation in India - Identify discuss medico legal, socioeconomic and ethical issues as it pertains to organ donationNational programs relevant to physiciansAdult Immunization and newer vaccinesFebrile illness
60 SDL 12 SDL 13 SDL 14 SDL 15 61 62	Module 4.1 26.47 26.8 26.8 Integrated SDL Integrated SDL 1 1 2	Pandemic module The role of the physician in the community The role of the physician in the community Community Medicine Community Medicine Revision Lecture Revision Lecture	Individual responsibilities in Pandemic Situation.Euthanasia, current position in India - Identify, discuss and defend medico legal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life supportOrgan Donation in India - Identify discuss medico legal, socioeconomic and ethical issues as it pertains to organ donationNational programs relevant to physiciansAdult Immunization and newer vaccinesFebrile illnessInfections

64	4	Revision Lecture	Diarrheal Diseases
65	5	Revision Lecture	Pneumonia
66	6	Revision Lecture	Anemia
67	7	Revision Lecture	GI Bleed
68	8	Revision Lecture	Liver Diseases
69	9	Revision Lecture	Diabetes
70	10	Revision Lecture	Thyroid disorders

	MBBS Third part - 2					
Tutorials/Seminars/Integrated teachings- 125 hours						
Tutoriala ECC. Total 10 hours						
S No		Hours				
1	Approach to basics of ECG					
1.	Peoding Normal ECC	1 hr				
2.						
3.	ECG: Chamber enlargement	1 hr				
4.	Myocardial Infarction	1 hr				
5.	Electrolyte abnormalities on ECG	1 hr				
6.	Narrow Complex tacchyarrythmias	1 hr				
7.	Bradyarrthmias	1 hr				
8.	Valvular Heart diseases	1 hr				
9.	Bundle branch blocks	1 hr				
10	Miscellaneous	1 hr				
	X Rays- Total 11 hours					
S. No.	Topics	Hours				
1.	Basics of Chest X Ray	1 hr				
2.	Reading Normal X Ray Chest	1 hr				
3.	Abnormalities on Chest X Ray – Cardiovascular system	1 hr				
4.	Pulmonary venous hypertension vs pulmonary arterial hypertension	1 hr				
5.	Chest X ray – Respiratory system	1 hr				
6.	Abdominal system(Chest & Abdomen X Ray)	1 hr				
7.	Miscelleneous X ray	1 hr				
8.	Basics of CT Scan	1 hr				
9.	Basics of MRI	2 hr				
10.	Basics of PET scan	1 hr				
	Drugs- Total 21 hours					
S. No.	Topics	Hours				
1.	Anti epileptics	1 hr				
2.	Cardiovascular Drugs	1 hr				
3.	Anti Tubercular Therapy	1 hr				
4. r	Anti Retroviral Inerapy	1 nr				
э. с	Antiviral Drugs	2 m 1 br				
0. 7	Antiviral Drugs	1 nr				
7. Q	Glucocorticoids	1 hr				
о. Q		1 hr				
J. 10		1 hr				
11.	Inotropes and inodilators	2 hr				
12.	Anti hypertensives	2 hr				
13.	Antidiabetic drugs	2 hr				

Interpretation of Lab Charts- Total 14 hours				
S. No.	Topics	Hours		
1.	Interpretation of Ascitic fluid analysis	1 hr		
2.	Interpretation of Pleural fluid analysis	1 hr		
3.	Interpretation of Cerebrospinal fluid analysis	1 hr		
4.	Interpretation of Abnormal LFT	1 hr		
5.	Interpretation of Hb, CBC, RBCindices	1 hr		
6.	Interpretation of thyroid function test	1 hr		
7.	Interpretation of Peripheral blood smear	1 hr		
8.	Interpretation of urine analysis	1 hr		
9.	Interpretation of Fundus examination	1 hr		
10.	Interpretation of renal function tests	1 hr		
11.	Interpretation of Bone marrow studies	1 hr		
12.	Interpretation of ABG	2 hr		
	Seminars- Total 50 hours			
S. No.	Topics	Hours		
1.	Clinical approach to Hypertensive emergencies	1 hr		
2.	Clinical approach to Acute myocardial infarction	1 hr		
3.	Clinical approach to solitary Seizure	1 hr		
4.	Clinical approach to ischemic stroke	1 hr		
5.	Clinical approach to intracranial bleed	1 hr		
6.	Clinical approach to Heart Failure	1 hr		
7.	Clinical approach to Acute renal failure	1 hr		
8.	Clinical approach to Chronic kidney disease	1 hr		
9.	Clinical approach to hyponatremia	1 hr		
10	Clinical approach to potassium imbalance disorders	1 hr		
11	Clinical approach to disorders of calcium metabolism	1 hr		
12	Interpretation of ABG	1 hr		
13	Mixed Acid Base disorders	1 hr		
14	Emerging Viral Infections	1 hr		
15	Clinical approach to Geriatric Syndromes	1 hr		
16	Clinical approach to a case of Pulmonary Tuberculosis	1 hr		
17	Clinical approach to a case of Extra Pulmonary Tuberculosis	1 hr		
18	Clinical Approach to a case of PLHIV	1 hr		
19	Clinical approach to opportunistic infections in a case of PLHIV	1 hr		
20	Clinical approach to prescription of ART	1 hr		
21	Clinical approach to a case of Dengue	1 hr		
22	Clinical approach to a case of Complicated malaria	1 hr		
23	Recent advances in the diagnosis of tuberculosis	1 hr		
24	Vaccines for tuberculosis	1 hr		
25	Recent advances in anti retroviral drugs	1 hr		
26	Clinical approach to a case of Interstitial lung disease	1 hr		
27	Clinical approach to a case of snake bite	1 hr		
28	Clinical approach to a case of electric injury	1 hr		
29	Clinical approach to a case of acute meningitis	1 hr		

30		Clinical approach to a case of Chronic meningitis				
31		Ageing			1 hr	
32		Human Microbiome			1 hr	
33		Clinical approach to oncological emergencies			1 hr	
34		Clinical approach to a	a case of Ac	ute Leukemia	1 hr	
35		Clinical approach to a	a case of Ch	ronic leukemia	1 hr	
36		Medicolegal, socioec	onomic and	d ethical issues as it pertains to organ donation	1 hr	
37		Role of physician in c	ommunity		1 hr	
38		Medicolegal, sociocu	ltural. econ	omic and ethical issues as it pertains to rights.	1 hr	
		equity and justice in	access to he	ealth care		
39		Medicolegal, socio-cu	ultural and	ethical issues as it pertains to confidentiality in	1 hr	
		patient care				
40		Medicolegal, socio-cu	ultural and	ethical issues as it pertains to research in	1 hr	
		human subjects				
41		Medicolegal, socio-cu	ultural, prof	fessional and ethical issues as it pertains to the	1 hr	
		physician patient rela	ationship (ir	ncluding fiduciary duty)		
42		Documentation in he	alth care (i	ncluding correct use of medical records)	1 hr	
43		Use of information te	chnology t	hat permits appropriate patient care and	1 hr	
		continued learning	07	in the second		
44		Understanding of the	e implicatio	ns and the appropriate procedures and	1 hr	
		response to be follow	ved in the e	event of medical errors		
45		Conflicts of interest i	n patient ca	are and professional relationships and describe	1 hr	
		the correct response	to these co	onflicts		
46		Clinical approach to a	a case of DI	с	1 hr	
47		Clinical approach to a	a case of art	thritis	1 hr	
48		Clinical approach to a	a case of m	ultisystem involvement	1 hr	
49		Clinical approach to a	a case of pe	ripheral neuropathy	1 hr	
50		Clinical approach to a	a case of fla	ccid quadriparesis	1 hr	
		Integrated te	achings	-MBBS Third part 2 (Total 19 hours)		
S No	Su	hiert	Hours	Topics for integration		
1	Ca	re of natients during	6 hours	Interactive Discussion- 2 hours		
	Pa	ndemics	onours	Triage practices to be followed		
	1.0	nacimes		Primary care to be given to a patient on reaching hospital		
				Steps t be taken to reduce transmission of infections in		
				emergency area		
				Role Play- 1 hour		
				Visit to hospital with discussion with staff- 2 hour		
				Debriefing and feedback- 1 hour		
2.	En	nergency Procedures	8 hours	Interactive Discussion – 2 hours		
	du	ring Pandemics		1. Indications for invasive procedures in Pander	nics	
		0		2. Points to be verified before emergency proce	edures 3.	
				Steps to be taken to reduce transmission of infe	ections	
				4. Attitude and Communication Issues related t	o complicated	
				procedures II.		
				Skill development program – with mannequins	e.g.	
				intubation, CPR, ALS, PALS etc - 4 hours (This m	ay be linked	
				with the routine Skill training component as well)		

3.	Managing Death during Pandemics	2 hours	 III. Role Plays for communication skills and documentation - 1 hour IV. Debriefing and Feedback -1hour Interactive discussion – 1 hour a. Confirmation and documentation of death b. Steps to be taken to reduce transmission of infections c. Attitude and Communication Issues related to handling of
			dead bodies d. Responding to media ii. Role Play for communication skills and documentation with
			debriefing and feedback - 1 hour
4.	Geriatrics	3 hr	Polypharmacy
			Falls
			Incontinence

Maharashtra University of Health Sciences **General Medicine**

Fourth professional Part II MBBS

Subject: General Medicine

Clinical Posting (8+4 weeks, 6 days a week, 3 hours per day)

(Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. Vol. 2)

- 1. Total Teaching hours : 70+ 125+15 + 144+ 72 = 426
- 2. A. Lectures(hours): 70
 - B. Self-directed learning (hours): 15 C. Clinical Postings (hours): 144+72 = 216

D. Small group teachings/tutorials/Integrated teaching/Practicals (hours): 125

Term I/II

Posting	Clinical skills hours	Procedural Skills hours	Assessment hours	Total hours
Third clinical posting of 8 weeks	118	20	06	144
Revision posting of 4 weeks		7	2	,
Note - The details of day to day schedule of 144+ 72 hours as per clinical,				

procedural and attitudinal internal medicine competencies to be taught will be submitted later (please see second professional year clinical posting)

Phase	IA – 1 -Exam			IA – 2 -Ex	am	
	Theory (Gen Med only) (January)	Practical EOP	Total Marks	Theory (Gen Med only) (May)	Practical of Allied	Total Marks
Second MBBS	50	50	100	50	50 (divided into three allied subjects as follows) DVL = 15 marks Psychiatry = 15 marks Respiratory Medicine = 20 marks	100

Internal Assessment General Medicine

* The marks for internal assessment – 2 shall be communicated by DVL, Psychiatry and Respiratory Medicine departments to General Medicine department immediately after completion of examination and assessment.

Phase	IA – 3 -Exam			IA	– 4 -Exam	
	Theory	Practical	Total	Theory	Practical	Total
	(Gen	EOP	Marks	(Gen	of Allied	Marks
	Med	(Including		Med and		
	and	10 marks for		Allied)		
	Allied)	Journal / Log		(April)		
	(January)	Book)				
Third	50	40+10=50	100	50	50	100
MBBS					(divided into	
Part I					two allied	
					subjects as	
					follows)	
					DVL = 25	
					marks	
					Psychiatry =	
					25 marks	

* The marks for internal assessment – 4 shall be communicated by DVL and Psychiatry departments to General Medicine department immediately after completion of examination and assessment.

Phase	IA – 5 -Exam			Preli	m Exam	
	Theory	Practical EOP	Total	Theory General	Practical	Total
	(General	(Including 10	Marks	Medicine		Marks
	Medicine	marks for Journal		and Allied)		
	and	/ Log Book)		(November)		
	Allied)					
	(May)					
Third	100	90+10=100	200	100 x 2	200	400
MBBS				papers = 200		
Part II						

There will be End of Postings Exam at each end of posting. (There will be FORMATIVE ASSESSMENT at the End of <u>four weeks Clinical Posting</u> of General Medicine NOT to be added to INTERNAL ASSESSMENT).

Assessment in CBME is ONGOING PRCESS,

No Preparatory leave is permitted.

1. There shall be 6 internal assessment examinations in General Medicine including allied.

2. The suggested pattern of question paper for internal assessment, except prelim examination is attached at the end. Pattern of the prelims examinations should be similar to the University examinations.

3. Internal assessment marks for theory and practical will be converted to out of 50 (theory) +50 (practical). Internal assessment marks, after conversion, should be submitted to university within the stipulated time as per directives from the University. Conversion Formula for calculation of marks in internal assessment examinations.

	Theory	Practical	
Phase II	100	100	
Phase III/I	100	100	
Phase III/II	300	300	
Total	500	500	
Conversion out of	50	50	
Conversion	Total marks in 6	Total marks in 6	
formula	IA theory	IA Practical	
	examinations /10	examinations /10	
Eligibility criteria	20	20	
	Combined theory	y + Practical = 50	

4. While preparing Final Marks of Internal Assessment, the rounding-off marks shall done as illustrated in following table.

Total Internal Assessment Marks	Final rounded
	marks
33.01 to 33.49	33
33.50 to 33.99	34

- 5. Students must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40 % marks in theory and practical separately) assigned for internal assessment in order to be eligible for appearing at the final University examination of that subject.
- 6. Internal assessment marks will not to be added to marks of the University examinations and will be shown separately in mark list.

7. <u>Remedial measures</u>

A. <u>Remedial measures for non-eligible students</u>

- i) At the end of each internal assessment examination, students securing less than 50% marks shall be identified. Such students should be counseled at the earliest and periodically.
- ii) Extra classes for such students may be arranged. If majority of the students found to be weak in a particular area then extra classes must be scheduled for all such students. Even after these measures, if a student is failed to secure 50% marks combined in theory and practical (40% separately in theory and practical) after prelim examination, the student shall not be eligible for final examination.
- iii) Non eligible candidates are offered to reappear for repeat internal assessment examination/s, which must be conducted 2 months before next University examination. The pattern for this repeat internal assessment examination shall be similar to the final University examination. Only the marks in this examination shall be considered for deciding the eligibility criteria. Following conversion formula shall be used for converting the marks.

	Theory	Practical
Remedial examination (as per final examination pattern)	200	200
Conversion out of	50	50
Conversion	Marks in remedial	Marks in remedial
formula	theory	Practical
	examinations /4	examinations /4
Eligibility criteria	20	20
after conversion	Combined theory + Practical = 50	

B. <u>Remedial measures for absent students:</u>

- i. If any of the students is absent for any of the 6 IA examinations due to any reasons, following measures shall be taken.
- ii. The student is asked to apply to the academic committee of the college for reexamination, through HOD, to ascertain the genuineness of the reason for absentee.
- iii. If permitted by academic committee, an additional examination for such students is to be conducted after prelims examination. Marks for such additional examination shall be equal to the missed examination.
- iv. Even if a student has missed more than one IA examination, he/she can appear for only one additional IA examination. In such scenario, eligibility should be determined by marks obtained in internal assessment examinations for which the candidate has appeared, without changing the denominator.

Internal Assessment Practical Examinations

II MBBS

Internal Assessment - 1

General Medicine

	Subject: General Medicine Practical (IA – 1)						
Case	OSCE 1	OSCE 2	Viva	Journal & log book	Practical Total		
10	10	10	10	10	50		

OSCE Stations to include Signs of General examinations, Local examinations, Psychomotor skills and Communication skills.

OSCE DETAILS: 1. History taking of a particular symptom;

- 2. Demonstration of signs- Pulse/BP/JVP;
- 3. Identification of General examination findings etc.
- 4. Communication Skills with patient or relative etc.

Viva on Drugs: Drugs Indication/Contraindication/ Adverse Effects etc. **Viva on emergency** : eg. Snake bite, OP poisoning, Status asthmatics etc.

Internal Assessment - 2

DVL, Psychiatry and Respiratory Medicine (to be conducted at the end of respective clinical postings)

Subject: General Medicine Allied Practical (IA – 2) Examination in DVL				
Case	Viva	Practical Total		
10	5	15		
Subject: General Medicine Allied Practical (IA – 2) Examination in Psychiatry				
Case	Viva	Practical Total		
10	5	15		
	Subject: General Medicine Allied Practical (IA – 2)			
	Examination in Respiratory Medicine			
Casa	Vino	Practical		
Case	Case Viva			
15	5	20		

* The marks for internal assessment – 2 shall be communicated by DVL, Psychiatry and Respiratory Medicine department to General Medicine department immediately after completion of examination and assessment.

III MBBS Part I

Internal Assessment - 3

General Medicine

	Subject: General Medicine Practical (IA – 3)					
Case	OSCE 1	OSCE 2	Viva	Journal & log book	Practical Total	
20	5	5	10	10	50	

OSCE Stations to include Signs of General examinations, Local examinations, Psychomotor skills and Communication skills.

OSCE DETAILS: 1. History taking of a particular symptom;

- 2. Demonstration of General examination findings;
- 3. Demonstration of systemic findings
- 4. AETCOM or Communication Skills with patient or relative.

Internal Assessment - 4

DVL and Psychiatry

	Subject: General Medicine Allied Practical (IA – 4)				
		Examination in DVL			
Case	OSCE 1	Viva	Practical Total		
10	5	10	25		
	Sul	bject: General Medicine Allied Practical (IA – 4)			
		Examination in Psychiatry			
Case	OSCE 1	Viva	Practical Total		
10	5	10	25		

* The marks for internal assessment – 4 shall be communicated by DVL / Psychiatry department to General Medicine department immediately after completion of examination and assessment.
III MBBS Part II

Internal Assessment - 5

General Medicine

	Subject: General Medicine Practical (IA – 5)											
Long Case	OSCE1	OSCE2	OSCE 3	OSCE 4	Viva	Journal & log book	Practical Total					
50	5	5	5	5	20	10	100					

OSCE Stations to include Signs of General examinations, Local examinations, Psychomotor skills and Communication skills.

OSCE DETAILS-

1. Demonstration of signs – (Deep Tendon Reflex, Tone, Power of Muscle, Palpation of spleen and liver);

- 2. Demonstration of systemic findings
- 3. Certifiable procedural skills
- 4. AETCOM or Communication Skills with patient or relative etc.

Viva – X-ray, ECG, Instruments, Drugs

MUHS final practical examination

General Medicine

	Subject: General Medicine Practical										
Long Case	Short Case – 1	Short Case -2	OSCE * 4 Stations (15 x 4)	<u>Viva</u> (Table 1 – Instruments, Drugs, Emergencies Table 2- X-rays, ECGs, Laboratory reports) (2 tables of 20 marks each)	Practical Total						
50	25	25	60	40	200						

OSCE Stations may include General examinations, Local examinations, psychomotor skills, Communication skills, AETCOM etc.

- OSCE 1 Clinical Skills
- **OSCE 2** Certifiable procedural skills
- **OSCE 3** Certifiable procedural skills
- OSCE 4 AETCOM related skills

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK Format / Skeleton of question paper for 1st & 2nd internal

Assessment Theory Examinations.



Topics for 1st & 2nd internal assessment are according to the syllabus covered till date of respective Internal Assessment examination.

Format / Skeleton of question paper for 3rd and 4th internal

Assessment Theory Examinations (III MBBS Part I)

Instructions: SECTION "A" MCQ 5) Put in the appropriate box below the question number once 6) Use blue ball point pen only. 7) Each question carries One mark. 8) Students will not be allotted mark if he/she overwrites strikes marked.							በርQ low the question number once only. k if he/she overwrites strikes or put wh	ite ink on the c	cross once				
		SECTIO	N "A'	′ мсq	(10Mark	s)							
	1.	Multipl	e Cho	oice Qu	estions	(Total	I -10 Ⅳ	ICQ of	One	mai	k each from General Medicine)	(1x10=1	0)
		a)	b)	c)	d) e)	f)	g)	h)	i)	j)			
nst	ruct	ions:	1) 2) 3) 4) 5)	Use Do r anyt mea All q The Draw	blue/b not wri thing, s ns. nuestio numbe w diag	olack ite a such ns a er to ram	type type type the s wh	poir ing o e of a ompu right erev	nt pe on th ict w ilsor ind er n	en o ne k vill ry. lica ece	only. Jank portion of the question p be considered as an attempt to tes full marks. assary.	aper. If writ o resort to u	ten ınfair
2.	Lon a	g Ansv a)	ver	Ques	c)	Any 2	2 out	: of 3) (G	ien	eral Medicine)		(2 x 10 = 20)
3.	Sho	rt ans a)	wer	ques b)	tions ((1 fro	om A	ETC	MC) (0	General Medicine)		(2 x 5 = 10)
4. Ps	Sho ychi	rt ans atry &	wer • Re	ques spira	tions (tory M	Any	2 ou cine)	it of	3) (At	least 2 Clinical reasoning quest	tion) (DVL,	(2 x 5 = 10)
		a)		b)	c)								

Separate answer sheets for question 4 (SAQ from DVL, Psychiatry & Respiratory Medicine) may be used for the ease of evaluation.

Format / Skeleton of question paper 5th internal assessment

SECTION "A" MCQ Instructions: 9) Put \boxtimes in the appropriate box below the question number once only. 10) Use blue ball point pen only. 11) Each question carries one mark. 12) Students will not be allotted mark if he/she overwrites strikes or put white ink on the cross once marked. SECTION "A" MCQ (20Marks) 1. Multiple Choice Questions (Total-20 MCQ) (1 x20=20) a) b) c) d) e) f) g) h) i) j) k) I) m) n) o) p) q) r) s) t) SECTION "B" & "C" Instructions: 1) Use blue/black ball point pen only. 2) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means. 3) All questions are compulsory. 4) The number to the right indicates full marks. 5) Draw diagrams wherever necessary. SECTION "B" (60Marks) 2 . Long Answer Questions (Any 2 out of 3) (Structured Case Based) (General Medicine) (2x15=30) a) b) c) 3.Short Answer Questions (Any 2 out of 3) (Any one should be Clinical reasoning), 1 from AETCOM (General Medicine) (2x5=10) a) b) c) 4.Short Answer Questions (Any 4 out of 5) (General Medicine) (4 x 5 = 20) a) b) c) d) e) SECTION "C" -Allied (20Marks) (4 x 5=20) 5. Short Answer Questions (allied DVL, Psychiatry & Respiratory Medicine) b) c) d) a)

Theory Examinations (III MBBS Part II)

Separate answer sheets for question 4 (SAQ from DVL, Psychiatry & Respiratory Medicine) may be used for the ease of evaluation.

Format / Skeleton of question paper for University Theory Examinations (III MBBS Part II) Paper – I (Subject names to be removed)

Instructions:				 SECTION "A" MCQ 13) Put in the appropriate box below the question number once only. 14) Use blue ball point pen only. 15) Each question carries One mark. 16) Students will not be allotted mark if he/she overwrites strikes or put white ink on the cross once marked. 									
		SECTI	ION "A	" мса	(20N	/larks	s)						
	1. Multiple Choice Questions (Total-20MCQ of One mark each) – (General Medicine) (1 x20=20)										(1 x20=20)		
		a)	b)	c)	d)	e)	f) g	h)	i)	j)			
		k)	I)	m)	n)	o)	p) q	r)	s)	t)			
Instruction: 2 . Long An a) 3.Short A a)	SECTION "B" & "C" nstructions: 1) Use blue/black ball point pen only. 2) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means. 3) All questions are compulsory. 4) The number to the right indicates full marks. 5) Draw diagrams wherever necessary. SECTION "B" t. Long Answer Questions (Structured Case Based) (General Medicine) (2x15=30) a) b) 3.Short Answer Questions (Any one should be Clinical reasoning, 1 from AETCOM) (General Medicine) (3x5=15) a) b)									an			
4. Long A a) 3.Short A	nsw	er Ques er Ques	stion (stions	Structi	ured (Case	Based) (ne) (Any	SE Gener 4 out	CTION ral Me of 5)	N "C" edicine)	(1 x15=15)	
a)	b)	c)	d)		e)							(4 x5=20)	

Format / Skeleton of question paper for University Theory Examinations (III MBBS Part II) Paper II (Subject names to be removed)

Instructions:			:: 12 18 19 20	 SECTION "A" MCQ Put ∑ in the appropriate box below the question number once only. Use blue ball point pen only. Each question carries One mark. Students will not be allotted mark if he/she overwrites strikes or put white ink on the cross once marked. 								
	1.	SECTIO Multip 2 Resp a) k)	DN "A" M ble Choice biratory N b) c l) m	CQ (20) Questi Iedicine) d)) n)	Mark ions (e, 1 P e) o)	s) Total-20 sychiatr f) g p) c	DMCQ o y) g) h) ą) r)	of One i) s)	marl j) t)	each - 15 General Medicine , 2 DVL, (1 x20=20)		
Instructions.	 SECTION "B" & "C" Use blue/black ball point pen only. Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means. All questions are compulsory. The number to the right indicates full marks. Draw diagrams wherever necessary. 											
2 . Long Ans ˈa)	wer b)	Questio	ons (Struc	tured C	Case E	3ased) (S Genera	ECTIC	0N "B	(2x15=30)		
							SEC	TION	"C"			
3.Short Ar	nswe	r Questi	ions (any	4 out c	of 5) (DVL)				(4x5=20)		
a) 4 Short Ar	D)	c) r Questi	a) ions (Anv	e) 3 out o	f 4) (Psychia	try)			(3 x5=15)		
a)	b)	c)	d)	5 041 0	,, , , (i sycilla						
5.Short Ar	ıswe	r Quest	ions (Any	3 out o	of 4) (Respirat	tory Me	dicine	e)			
a)	b)	c)	d)							(3 x5=15)		

Indian Medical Graduate Training Programme The undergraduate medical education programme is designed with a goal to create an "Indian Medical Graduate" (IMG) possessing requisite knowledge, skills, attitudes, values and responsiveness, so that she or he may function appropriately and effectively as a physician of first contact of the community while being globally relevant.

COMPETENCY BASED CURRICULUM OF THE INDIAN MEDICAL GRADUATE PROGRAMME Specific Competencies- 1. Preamble 2. Integration 3. Pre-clinical Subjects 4. Second Professional (Para-Clinical) 5. Third Professional (Part I). 6. Third Professional (Part II).

Institutional Goals of Indian Medical Graduate Training Programme:-(Ref. THE GAZETTE OF INDIA : EXTRAORDINARY [PART III—SEC. 4]).

(1) In consonance with the national goals each medical institution should evolve institutional goals to define the kind of trained manpower (or professionals) they intend to produce. The Indian Medical Graduates coming out of a medical institute should: (a) be competent in diagnosis and management of common health problems of the individual and the community, commensurate with his/her position as a member of the health team at the primary, secondary or tertiary levels, using his/her clinical skills based on history, physical examination and relevant investigations. (b) be competent to practice preventive, promotive, curative, palliative and rehabilitative medicine in respect to the commonly encountered health problems. (c) appreciate rationale for different therapeutic modalities; be familiar with the administration of "essential medicines" and their common adverse effects. (d) be able to appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop humane attitude for continued self learning and to seek further expertise or to pursue research in any chosen area of medicine, action research and documentation skills.

(f) be familiar with the basic factors which are essential for the implementation of the National Health Programmes including practical aspects of the following: (i) Family Welfare and Maternal and Child Health (MCH) (ii) Sanitation and water supply (iii) Prevention and control of communicable and non-communicable diseases (iv) Immunization (v) Health Education (vi) Indian Public Health Standards (IPHS), at various levels of service delivery (vii) Bio-medical waste disposal (viii) Organizational and/or institutional arrangements.

(g) acquire basic management skills in the area of human resources, materials and resource management related to health care delivery, hospital management, inventory skills and

counseling. (h) be able to identify community health problems and learn to work to resolve these by designing, instituting corrective steps and evaluating outcome of such measures. (i) be able to work as a leading partner in health care teams and acquire proficiency in communication skills. (j) be competent to work in a variety of health care settings. (k) have personal characteristics and attitudes required for professional life such as personal integrity, sense of responsibility and dependability and ability to relate to or show concern for other individuals.

(2) All efforts must be made to equip the medical graduate to acquire the skills as detailed in Table 11 Certifiable procedural skills – A Comprehensive list of skills recommended as desirable for Bachelor of Medicine and Bachelor of Surgery (MBBS) – Indian Medical Graduate.

Year of Curriculum	Focus of Learner - Doctor programme
Year 1	Introduction to hospital environment, early clinical exposure, understanding perspectives of illness
Year 2	History taking, physical examination, assessment of change in clinical status, communication and patient education
Year 3	All of the above and choice of investigations, basic procedures and continuity of care
Year 4	All of the above and decision making, management and outcomes

Table 9: Learner - Doctor programme (Clinical Clerkship)

Table 5: Second Professional teaching hours

Subjects	Lectures (hours)	Small group learning (Tutorials / Seminars) /Integrated learning (hours)	Clinical Postings (hours) *	Self - Directed Learning (hours)	Total (hours)
Pathology	80	138		12	230
Pharmacology	80	138	π.	12	230
Microbiology	70	110	-	10	190
Community Medicine	20	30		10	60
Forensic Medicine and Toxicology	15	30	-	5	50
Clinical Subjects	75**		540***		615
Attitude, Ethics & Communication Module (AETCOM)		29	-	8	37
Sports and extracurricular activities	7.	10	7	28	28
Total	-		÷	-	1440

* At least 3 hours of clinical instruction each week must be allotted to training in clinical and procedural skill laboratories. Hours may be distributed weekly or as a block in each posting based on institutional logistics.

** 25 hours each for Medicine, Surgery and Gynecology & Obstetrics.

***The clinical postings in the second professional shall be 15 hours per week (3 hrs per day from Monday to Friday).



Table 8: Clinical postings

		Period of training in weeks						
Subjects	II MBBS	III MBBS Part I	III MBBS Part II	weeks				
Electives	-	-	8* (4 regular clinical posting)	4				
General Medicine ¹	4	4	8+4	20				
General Surgery	4	4	8+4	20				
Obstetrics & Gynaecology ²	4	4	8 +4	20				
Pediatrics	2	4	4	10				
Community Medicine	4	6		10				
Orthopedics - including Trauma ³	2	4	2	8				
Otorhinolaryngology	4	4	-	8				
Ophthalmology	4	4	2	8				
Respiratory Medicine	2	-		2				
Psychiatry	2	2	-	4				
Radiodiagnosis ⁴	2	-	10 20	2				
Dermatology, Venereology & Leprosy	2	2	2	6				
Dentistry & Anesthesia		2	÷	2				
Casualty		2		2				
	36	42	48	126				

* In four of the eight weeks of electives, regular clinical postings shall be accommodated.

Clinical postings may be adjusted within the time framework.

¹ This posting includes Laboratory Medicine (Para-clinical) & Infectious Diseases (Phase III Part I).

² This includes maternity training and family welfare (including Family Planning).

⁴ This posting includes Radiotherapy, wherever available.

³This posting includes Physical Medicine and Rehabilitation.

Table 2: Distribution of subjects by Professional Phase

Phase & year of MBBS training	Subjects & New Teaching Elements	Duration#	University examination
First Professional MBBS	 Foundation Course (1 month) Human Anatomy, Physiology & Biochemistry, introduction to Community Medicine, Humanities Early Clinical Exposure 	1 + 13 months	I Professional

	Attitude, Ethics, and Communication Module (AETCOM)			
	Pathology, Microbiology, Pharmacology, Forensic Medicine and Toxicology,			
Second Professional MBBS	Introduction to clinical subjects including Community Medicine	12 months	II Professional	
	Clinical postings			
	Attitude, Ethics & Communication Module (AETCOM)			
Third Professional MBBS Part I	General Medicine, General Surgery, Obstetrics & Gynecology, Pediatrics, Orthopedics, Dermatology, Psychiatry, Otorhinolaryngology, Ophthalmology, Community Medicine, Forensic Medicine and Toxicology, Respiratory medicine, Radiodiagnosis & Radiotherapy, Anesthesiology	13 months	III Professional (Part I)	
	Clinical subjects /postingsAttitude, Ethics & Communication Module (AETCOM)			
Electives	Electives, Skills and assessment*	2 months		
Third Professional MBBS Part II	 General Medicine, Pediatrics, General Surgery, Orthopedics, Obstetrics and Gynecology including Family welfare and allied specialties Clinical postings/subjects 	13 months	III Professional (Part II)	
	Attitude, Ethics & Communication Module (AETCOM)			

*Assessment of electives shall be included in Internal Assessment.

Table 6: Third Professional Part I teaching hours

Subjects	Teaching Hours	Tutorials/ Seminars /Integrated Teaching (hours)	Self- Directed Learning (hours)	Total (hours)
General Medicine	25	35	5	65
General Surgery	25	35	5	65
Obstetrics and Gynecology	25	35	5	65
Pediatrics	20	30	5	55
Orthopaedics	15	20	5	40
Forensic Medicine and Toxicology	25	45	5	75
Community Medicine	40	60	5	105
Dermatology	20	5	5	30
Psychiatry	25	10	5	40
Respiratory Medicine	10	8	2	20
Otorhinolaryngology	25	40	5	70
Ophthalmology	30	60	10	100
Radiodiagnosis and Radiotherapy	10	8	2	20
Anesthesiology	8	10	2	20
Clinical Postings*		*	-	756
Attitude, Ethics & Communication Module (AETCOM)		19	06	25
Total	303	401	66	1551

* The clinical postings in the third professional part I shall be 18 hours per week (3 hrs per day from Monday to Saturday).

Table 7: Third Professional Part II teaching hours

Subjects	Teaching Hours	Tutorials/Seminars / Integrated Teaching (hours)	Self - Directed Learning (hours)	Total* (hours)
General Medicine	70	125	15	210
General Surgery	70	125	15	210
Obstetrics and Gynecology	70	125	15	210
Pediatrics	20	35	10	65
Orthopaedics	20	25	5	50
Clinical Postings**				792
Attitude, Ethics & Communication Module (AETCOM)***	28		16	43
Electives				200
Total	250	435	60	1780

* 25% of allotted time of third professional shall be utilized for integrated learning with pre- and para- clinical subjects and shall be assessed during the clinical subjects examination. This allotted time will be utilized as integrated teaching by para-clinical subjects with clinical subjects (as Clinical Pathology, Clinical Pharmacology and Clinical Microbiology).

Distribution of Marks – Total 10 Marks

Sr.	Parameter		Marks	Phase
No.				
1	Drugs	5 Drugs	1	II (Second year)
		5 Drugs	1	III Part I (Third year)
		5 Drugs	1	III Part II (Fourth year)
2	Cases	CVS case-4	1	III Part I (Third year)
		RS Case-4	1	III Part I (Third year)
		Abdomen case-4	1	III Part I (Third year)
		Neurology case-4	1	III Part II (Fourth year)
3	Emergencies	2 Emergencies	1	II (Second year)
		5 Emergencies	1	III Part I (Third year)
		5 Emergencies	1	III Part II (Fourth year)
	Total-		10	

Drugs

Name of Drug-

Class/ Group of Drug-

Mechanism of action-

Dose of drug-

Indications-

Contraindications-

Adverse effects-

Paste picture of drug here

6

List the emergencies in which this drug is used

Pages 1 to 10 for 10 Drugs

Cases

Respiratory system case Proforma

History

- I.Cardinalsymptoms:Breathlessness,Cough,Expectoration,Hemoptysis,,Wheeze,Chest pain.
- II. History of tuberculosis: Evening rise of temperature, night sweats, Anorexia and weight loss, Hemoptysis, Pleurisy, meningitis, lymphadenitis in pastor in family, TB contact.
- III. *History of Mediastinal compression:* Dysphagia, Hoarse voice, Dyspnea and dry cough, Swelling over face
- IV. Habits: Alcohol, smoking, tobacco or gutkachewing
- V. Aspiration: Foreign bodies, vomitus.
- VI. For Industrial diseases: Occupation, residencenear factories or mills
- VII. *Allergy:*. Family history of asthma, hay fever, eczema, Rhinitis and Sinusitis: Nasal discharge, painand tenderness over sinuses, headache, recurrent cold
- VIII. *Past history:*. Measles, influenza or whooping cough inchildhood (If bronchiectasis), Diabetes
 - IX. Past history of admissions in the hospital/ consultation with a doctor
 - X. Drug history-H/O medication patient is taking or has received in the past

General Examination

- I. Built and nutrition
- II. Nails and conjunctiva: Pallor, dubbing, cyanosis, icterus
- III. lymphadenopathy (especially scalene nodeand cervical nodes), edema of feet, JVP
- IV. TPR, BP
- V. Spine

- VI. Stigma of tuberculosis: Phlyctenular conjunctivitis, Scars and sinuses in neck or bones, Thickened spermatic cord, Erythema nodosum, Skin: Cutis vulgaris, scrofuloderma etc.
- VII. Neck: Thyroid swelling. Tracheal tug
- VIII. Homer's syndrome: Ptosis, miosis, anhydrosis, enophthalmos and absent ciliospinal reflex
- *IX.* Upper respiratory tract: Sinus tenderness, Throat and tonsils, Posterior pharyngeal wall for posterior nasal drip, Alae nasi.
- *X.* Gums and teeth. Exposure to TB, STD, HIV

Respiratory System Examination

I. Inspection:

A. Shape of chest

- 1. AP and transverse diameters: Barrelshaped chest, etc.
- 2. Hollowing, bulging, flattening orretraction
- 3. Sub-costal angle
- 4. Shoulders
- 5. Spine
- 6. Spinoscapular distance on both sides

B. Respiratory Movements

- 1. Respiratory rate
- 2. Rhythm
- 3. Character Abdominal, thoracic, thoraco-abdominal or abdominothoracic
- 4. Equality
- 5. Accessory muscles of respiration
- 6. Inter-costal retractionI fullness

C. Mediastinum

- 1. Trailes sign
- 2. Apex impulse
- D. Miscellaneous
 - 1. I. Scars, sinuses

- 2. Pulsations
- 3. Dilated veins
- 4. Shinyskinoverlowerchest (Empyema, hepatic amebiasis)

II. Palpation

A. Findings of inspection confirmed including

Chest Movements

B. Mediastinum

- 1. I. Trachea
- 2. Apexbeat

C. TACTILE VOCAL FREMITUS: TVF

D. Miscellaneous

Tenderness over lower inter costal spaces.

Other vibrations: Palpable rates, rhonchi,

Rub

Ill. Percussion:

A. Anteriorly

Rig/rt Side Left Side

- 1. Kronig's isthmus Kronig's isthmus.
- 2. Clavicular percussion Clavicular percussion
- 3. Intercostal resonance Intercostal resonance
- 4. Liver dullness Cardiac dullness
- 5. Tidal percussion Traube's area
- 6. Shifting dullness Shifting dullness
- 7. Percussion myokymia Percussion myokymia
- 8. Skodaic resonance

B. Posteriorly

- 1. Supra-scapular
- 2. Inter-scapular
- 3. Infra-scapular

C. In Axilla

- 1. Axillary
- 2. Infra axillary

IV. Auscultation:

A. Breath Sounds

- 1. Normal or Diminished
- 2. Type: Vesicular, bronchial or vesicular

with prolonged expiration

- B. Foreign Sounds: Rales, rhonchi or rub
- C. Vocal Resonance
- D. Miscellaneous
 - 1. Bronchophony
 - 2. Egophony
 - 3. Whisperin g pectoriloquy
 - 4. Succussion splash
 - 5. Coin test
 - 6. Post-tussive suction
 - 7. Post-tussive rales

Differential/ Final Diagnosis

Anatomy (Where is the lesion?) e.g. Right upperlobe

Pathology (What is the lesion?) e.g. pneumonia

Etiology (What is the cause?) e.g. streptococci

Complications e.g. lung abscess

Risk factors e.g. smoking

Cardiovascular system case -Proforma

History

 Cardinal Symptoms:Dyspnea on exertion or Breathlessness -including paroxysmal nocturnal dyspnea, orthopnea, platypnea and trepopnea, Chest Pain, Cough, Expectoration,Hemoptysis, Palpitation, Syncopal attacks

- II. Symptoms of Congestive Cardiac Failure (CCF) Exertional breathlessness, Edema of feet, puffiness of face, anasarca, Distension of abdomen and pain inright hypochondrium, anorexia, nausea, vomiting
- III. Symptoms of Rheumatic Heart Disease (RHD)Fever with sore throat, Fleeting joint pains and swelling, Involuntary movements (chorea), Nodules under the skin (rheumatic nodules)
- IV. Symptoms of Infective Endocarditis (SBE)Pyrexia,Petechial hemorrhages,Pads of finger are tender (Osler nodes),Palpable spleen,Phalangeal dubbing,Prolonged treatment with high doses ofPenicillin,Hemoptysis, Hematuria, Hemiplegia,Phlebothrombosis
- V. Symptoms Suggesting Congenital Heart Disease- Cyanotic spells, Squatting episodes
- VI. Pressure Symptoms (Due to Enlarged Left Atriumor Aneurysm of Aorta)- Hoarseness of voice (pressure on therecurrent laryngeal nerve), Ortner'ssyndrome,Dysphagia (pressure on esophagus)
- VII. Miscellaneous-

Family History: Hypertension, diabetes ,coronary artery disease, hyperlipidemia,congenital heart disease, cardiomyopathies

Past History of hypertension, diabetes ,coronary artery disease, hyperlipidemia,obesity, recurrent lower respiratoryinfection, tuberculosis, syphilis, STD, HIVinfection,

History of hospitalization Number of admissions, Duration of each admission, Investigations done e.g. ECG ,X-ray, Echocardiography, cardiaccatheterization, Diagnosis reached, if known; Drugs given e.g. diuretics, digitalis, Relief obtained or not, Advised surgery/intervention or not, *History of cardiac surgery, angioplasty or*

Valvuloplasty

Physical Examination

General Examination

- A. Build and nutrition
- B. Nails and conjunctiva for pallor, icterus, dubbing, cyanosis.
- C. Lymphadenopathy and thyroid swelling
- D. Edema

- E. Skin for petechial hemorrhages, Osler nodes, rheumatic nodules, xanthelasmas, xanthomas
- F. Skeletal system Kyphoscoliosis, polydactyly, cubitus valgus, etc.
- G. TPR, BP
- H. Features of Marfan's syndrome tall, thin personwith long slender fingers, hyperextensibility of joints, high arched palate, dislocation of lens

Peripheral

- A. JVP pressure and waves
- B. Pulse rate, rhythm, volume, character, equality, upstroke, downstroke, condition of vessel wall, apex pulse deficit and radiofemoral delay, carotid bruit.
- C. Blood Pressure both arms, supine and upright
- D. Peripheral signs of wide pulse pressure asin AI, PDA, etc. e.g., pistol shot sounds over the femorals, Duroziez murmur, Corrigan'ssign, de Musset's sign, Quincke's sign,locomotor brachia!.

II. Central

A. Inspection:

- 1. I. Precordium
- 2. Apex impulse
- 3. Other pulsations Parasternal, epi-gastric, suprasternal, in the neck, in the second left space and on right side
- 4. Dilated veins
- 5. 5.Scars, sinuses, etc.

B. Palpation:

- 1. Apex beat
- 2. Left parasternal heave
- 3. Diastolic shock (Palpable S2)
- 4. Thrills
- 5. Other pulsations

C. Percussion:

1. Left second and intercostal space dullness

- 2. Upper border
- 3. Right border
- 4. Left border
- 5. .Lower sternal resonance
- 6. Liver dullness and Stomach tympany for situs solitus or inversus

D. Auscultation:

- 1. Heart sounds
- 2. Murmurs Systolic, diastolic or continuous.Other sounds e.g. pericardia! rub,opening snap, ejection clicks, etc.

Differential/ Final Diagnosis-

Central Nervous System Proforma

History

- I. Name, Age, Sex, Occupation, Right or Lefthanded, Consanguinity
- II. Motor symptoms
- A. Power:
- 1. Upperlimbs:
- a) Proximal: Lifting the arm above he head, eating.
- b) Distal: Sewing, writing, buttoning, turning a key in a lock, etc.
- 2. Lower limbs:
- a) Proximal: Climbing stair up anddown, squatting and getting upfrom squatting position.
- b) Distal: Slippers falling from foot

c) Running, walking with or withoutsupport, standing with outsupport, moving limbs in thebed or complete paralysis.

Truncal : turning in bed.

- B. Nutrition: Wasting of muscles (proximal
- or distal), atrophy, hypertrophy.
- C. Coordination:
- 1. Unsteadiness (For cerebellar ataxia).

2. Difficulty in feeling the ground andunsteadiness increasing in the dark. (For sensory ataxia).

3. Difficulty in reaching the target.

D. *Involuntary movements:* Chorea, athetosis, tremors, dystonia, hemiballismus flexor spasms, fasciculations, titubation.

III. Sensory symptoms

- A. Tingling, numbness, root pains
- B. Feeling hot and cold water during a bath
- C. Feeling the ground well or ground feels likecotton wool.
- IV. Sphincter disturbances

A.Bladder:

- 1. Feeling the sensation of bladderfullness
- 2. Initiation of micturition immediatelywhen desired
- 3. Control of micturition, once the desireto micturate has occurred
- 4. Complete evacuation of the bladderor a feeling of residual urine
- 5. Inability to pass urine at all
- 6. History of catheterization
- B.Bowel: Constipation / Loose Stools

C.Impotency: In males

Cranial nerves

- A. Sensation of smell 1st CN
- B. Vision acuity and color 2nd CN
- C. Diplopia, squint 3rd, 4th, 6th CN
- D. Sensations (Tingling, numbness over the

face, and difficulty in chewing) - 5th CN

E. Facial asymmetry, dribbling of saliva from the angle of the mouth, stasis off ood in

themouth- 7th CN

- F. Vertigo, tinnitus, deafness 8th CN
- G. Hoarse voice, nasal twang, nasalregurgitatiotldysphagia 10th + 9th CN
- H. Dysarthria 12th CN

Abdomen case proforma

History

I. Anorexia, nausea, vomiting, dysphagia, flatulence, eructation, retrosternal burning,

water brash

II. Diarrhea, constipation, clay stools, worms instools, mucus and blood in stools

III. Abdominal pain, lump, and distension

IV. Hematemesis, melena, bleeding per rectum

V. Jaundice, gynecomastia, loss of libido, loss of

hair (for liver cell failure), reversal of normal

sleep cycle.

VI. Fever, weight Joss

VII. Alcohol, smoking

VIII. Past history of tuberculosis, malaria, kala-azar, leukemia, hemolytic crisis (sudden pallor and dyspnea) sexual contact, drugs.

General Examination

I. Vital signs - TPR, BP

II. Built and nutrition, BMI (body mass index)

III. Pallor, Clubbing, Nails (chalky-white nails

koilonycnia) cyanosis, icterus.

IV. Edema feet, lymphadenopathy, JVP

V. Signs of liver cell failure: Scanty hair, palmar erythema, spider nevi, parotid swelling,gynecomastia, testicular atrophy, Dupuytren'scontractures, flaps (asterixis), paper money skin.

VI. Stigma of tuberculosis: Scars and sinuses in neck,lymphadenopathy, phlyctenular conjunctivitis,

thickened spermatic cord, chest signs, etc.

VII. Skin extoriations, ecchymosis or petechiae, cutaneous markers of GI malignancy.

VIII. Eye :Kayser - Fleischer ring on slit lamp

Examination of cornea.

IX. Miscellaneous: Bony tenderness, genitals.

Alimentary System Examination

I. Oral cavity, Teeth, Tongue, Tonsils, Oropharynx

II. Abdomen:

<u>A. Inspection</u>: Skin, Shape of abdomen, Umbilicus, Abdominal movements, Pulsations, Dilated veins, Peristalsis, Scars and sinuses, Hernial orifices.

B. Palpation:

I. Tenderness, guarding and rigidity onsuperficial palpation.

2. Liver, spleen, kidney, gall bladder, colon, or any other lump (Its size, surface, borders, tenderness and

bruit}

3. Fluid thrill

C. Percussion:

I. Horseshoe and shifting dullness.

- 2. Dullness over any lump, if palpable.
- 3. Renal angle tenderness (i.e. anglebetween one 12th rib & outer borderof erector spinae) seen in perinephricabscess.

D. Auscultation:

1.Peristalsis2. Rub3. Arterial Bruit or venous hum4. Puddles sign

E. Miscellaneous:

1.Abdominal girth2. PR examination3. Proctoscopy

Emergencies-

- 1. Basic Life support and Advanced cardiac Life support (BLS & ACLS)
- 2. Organophosphorous poisoning/ Paraquate poisoning
- 3. Snake bite
- 4. Anaphylactic shock
- 5. Acute myocardial infarction
- 6. Acute Complications of Acute myocardial infarctions
- 7. Upper GI Bleed/ Hematemesis
- 8. Hypertensive emergencies
- 9. Shock
- 10. Pulmonary embolism
- 11. Acute respiratory failure
- 12. Acute renal failure
- 13. Status asthamaticus
- 14. Severe hypokalemia
- 15. Severe hyperkalemia
- 16. Status epilepticus
- 17. Hepatic encephalopathy
- 18. Diabetic ketoacidosis
- 19. Hyperosmolar Coma
- 20. Severe hypoglycaemia



Maharashtra University of Health Sciences

PHASE II to Phase IV MBBS

COMPETENCY BASED CURRICULUM-2019 batch

GENERAL MEDICINE LOG BOOK

NAME OF COLLEGE-

NAME OF STUDENT-

ROLL NUMBER-

BATCH – A/B/C/D/E/F

Subject Page No. Sr. No. Personal Details 3 1 Logbook certificate 4 2 3 General instructions 5 Attendance certificate 4 6 Scheme of Examination 5 7-16 Assesment of Skill Competencies 17-22 6 Skill Acquisition Vertical Integration 23-25 7 AETCOM 8 26-28 Assesment of Tutorial 29-30 9 Assesment of Seminor 10 31-33 Assesment of Theory Competencies 34-81 11

CONTENTS

PERSONAL DETAILS

Name of student-	Mobile Number-
Residential Address-	Photo stick here
Father/Guardians contact no.	
Email-	
Email of Father/Guardian-	

Date of admission to MBBS course-

Date of beginning of current phase-

LOGBOOK CERTIFICATE (General Medicine)

This is certify that the candidate Mr/ Ms to, Reg No....., admitted in the year 2019-20 in the ----- Medical College,----- has satisfactorily completed / has not completed all assignments /requirements mentioned in this logbook for Second to fourth year MBBS course in the subject(s) of General Medicine Foundation Course/ AETCOM during the period from (University) assessment as on the date given below.

Signature of all Unit In charges-

Signature of Head of the Department

Principal/Dean of the College

Place: Date:

GENERAL INSTRUCTIONS

- 1. The logbook is a record of the academic / co-curricular activities of the designated student, who would be responsible for maintaining his/her logbook.
- 2. The log book is a record of the academic / nonacademic activities of the student. Each Medical student is responsible for maintaining their logbook.
- 3. This logbook is prepared as per the guidelines of MCI for implementation of Competency based curriculum for Phase II to Phase IV Professional MBBS students in the subject of General Medicine.
- 4. Students are instructed to keep their logbook entries up to date. It is the responsibility of the student to enter their activity in respective pages & get them duly singed by the supervising faculty.
- 5. Entries in the logbook will be in accordance with activities done in the departments and has to be scrutinized by the Head of all the concerned departments.
- 6. The logbook shall be kept as record work of the candidate for that department / specialty & be submitted to department as a bonafide record of the candidate before appearing for the University examination.

NOTE:

- 1. A clear record of all components that add to the internal assessment marks needs to be maintained by the institution and retained by them for at least 5 years after completion of the examination. Institutions may be asked to provide these details by the University as and when required.
- 2. The contents in the log book are suggested guidelines. The institutions can make necessary changes as per the needs.
- 3. The student is responsible for getting the entries in the logbook verified by the Faculty in charge regularly.
- 4. Entries in the logbook will reflect the activities undertaken in the department & have to be scrutinized by the Head of the concerned department.
- 5. The logbook is a record of various activities by the student like:- Overall participation & performance, Attendance, Participation in sessions, Record of completion of pre-determined activities., Acquisition of selected competencies.

	Duration	Pra	actical	Th	neory	Signature of	f
						Unit	in
						charge/ HO	D
		No of days	Days	No of days	Days		
			attended		attended		
Phase II							
First clinical posting	4 weeks						
Second clinical posting	4 weeks						
Phase III Part I	8 weeks						
Phase III Part I	4 weeks						

Record of Attendance for Theory and clinical postings

Dates of completion of clinical postings

Phase	From	То	Absent days	Journal completed	Signature of unit in charges with name and dates
II					
III					
Part I					
TIT					
III Dort II					

Sr. No.	Internal assessment	Date/Month /Year	Marks obtained		Out of 4.5	Signature of student
			Theory out of	Practical out of		
1	First	September				
2	Second	September				
3	Third Part I	October				
4	Third Part II	January				
	Total		·			
	Round up-					

SCHEME OF EXAMINATION - Internal Assessment

Duration and details of course

Sr.	Phases		Semester	No of Months
No.				
1	Ι	First professional	Semester 1 & Semester 2	1 + 12 months
		Preclinical phase		
2	II	Second professional	Semester 3 & Semester 4	11 Months
		Paraclinical Phase		
3	III Part I	Third professional	Semester 5 & Semester 6	13 Months
		Clinical Phase		
4	Electives, s	kills and assessment		2 Months
5	III Part II	Third professional	Semester 7, Semester 8	13 Months
		Clinical Phase	Semester 9	

Phase	Hours	Total hrs
First I		
Early clinical exposure	90	
Second II		
Lectures	75	615 hrs
Tutorial/Seminars/Integrated learning		-
Self directed learning		
Third Part I		
Lectures	25	
Tutorial/Seminars/Integrated learning	35	65 hrs
Self directed learning	5	
Third Part II		
Lectures	70	
Tutorial/Seminars/Integrated learning	125	210 hrs
Self directed learning	15	

Theory teaching

Learner – Doctor Programme (Clinical clerkship) (Reference- The Gazette of India: Part III-sec.4 pg 74-74)

The learner will function as a part of the health care team with the following responsibilities:

- (i) Be part of the unit's outpatient services on admission days,
- (ii) Remain with the admission unit until 6 PM except during designated class hours,
- (iii) Be assigned patients admitted during each admission day for whom he/she will undertake responsibility, under the supervision of a senior resident or faculty member,
- (iv) Participate in the unit rounds on its admission day and will present the assigned patients to the supervising physician,
- (v) Follow the patient's progress throughout the hospital stay until discharge,
- (vi) Participate, under supervision, in procedures, surgeries, deliveries etc. of assigned patients (according to responsibilities outlined in table 9),
- (vii) Participate in unit rounds on at least one other day of the week excluding the admission day,
- (viii) Discuss ethical and other humanitarian issues during unit rounds,
- (ix) Attend all scheduled classes and educational activities,
- (x) Document his/her observations in a prescribed log book / case record.
- (xi) No learner will be given independent charge of the patient.

Year of curriculum	Focus of Learner- Doctor programme
Year 1	Introduction to hospital environment, early clinical exposure, understanding perspectives of illness

Year 2	History taking, physical examination, assessment of change in clinical status, communication and patient education
Year 3	All of the above and choice of investigations, basic procedures and continuity of care
Year 4	All of the above and decision making, management and outcomes

Details of internal assessment

Internal Assessment Subject: General Medicine

Applicable w.e.f October 2020 onwards examination for batches admitted from June 2019 onward

Phase	I-Exam (At the end of first term)			II-Exam (At the end of second term)		
	Theory	Practical (Including 10 Marks each for Journal & Log Book)	Total Marks	Theory	Practical (Including 10 Marks each for Journal & Log Book)	Total Marks
Second MBBS	50	50	100	50	50	100

Phase	I-Exam (At the end of first term)			II-Exam (At the end of second term)			
	Theory	Practical (Including 10 Marks each for Journal & Log Book	Total Marks	Theory	Practical (Including 10 Marks each for Journal & Log Book)	Total Marks	
III/I	50	50	100	50	50	100	
MBBS							

Phase	I-Exam (at the end of first term)			II-Exam Preliminary examination		
	Theory	Practical (Including 10 Marks each for Journal & Log Book)	Total Marks	Theory	Practical (Including 10 Marks each for Journal & Log Book)	Total Marks
III/II	50	50	100	200	200	400

MBBS		(100 x 2	
		papers)	

- There will be 5 internal assessment examinations (2 each in 2nd MBBS and 3rd Part I and 1 in 3rd Part II MBBS) in the Subject of General Medicine and 1preliminary examination (3rd Part II MBBS). The structure of the internal assessment theory examinations should be similar to the structure of University examination.
- 2. It is mandatory for the students to appear for all the internal assessment Examinations in the respective phases. A student who has not taken minimum required number of tests for Internal Assessment each in theory and practical will not be eligible for University examinations.
- 3. There will be only one additional examination for absent students (due to genuine reason) after approval by the Institutional Grievances Committee. It should be taken after preliminary examination and before submission of internal assessment marks to the University.
- 4. Internal assessment marks for theory and practical will be converted to out of
- 5. 100. Internal assessment marks, after conversion, should be submitted to university within the stipulated time as per directives from the University.
- 6. Conversion Formula for calculation of marks in internal assessment examinations
- 7. Formula for Theory (out of 450) = Total marks/4.5 Formula for Practical (out of 450) = Total marks/4.5
- 8. While preparing Final Marks of Internal Assessment, the rounding-off marks shall done as illustrated in following table

Internal Assessment Marks	Final rounded marks
13.01 to 13.49	13
13.50 to 13.99	14

- 9. Students must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40% marks in theory and practical Separately) assigned for internal assessment in order to be eligible for appearing at the final University examination of that subject. Internal assessment marks will reflect as separate head of passing at the summative examination.
- 10. Internal assessment marks will not to be added to marks of the University examinations and will be shown separately in mark list.
- 11. Preliminary examination (3rd Part II MBBS). The structure of the internal assessment theory examinations should be similar to the structure of University examination.
- 12. It is mandatory for the students to appear for all the internal assessment Examinations in the respective phases. A student who has not taken minimum required number of tests for Internal Assessment each in theory and practical will not be eligible for University examinations.
- 13. There will be only one additional examination for absent students (due to genuine reason) after approval by the Institutional Grievances Committee. It should be taken after preliminary examination and before submission of internal assessment marks to the University.
- 14. Internal assessment marks for theory and practical will be converted to out of
- 15. 100. Internal assessment marks, after conversion, should be submitted to university within the stipulated time as per directives from the University.
- 16. Conversion Formula for calculation of marks in internal assessment examinations
- 17. Formula for Theory (out of 450) = Total marks/4.5 Formula for Practical (out of 450) = Total marks/4.5
- 18. While preparing Final Marks of Internal Assessment, the rounding-off marks shall done as illustrated in following table

Internal Assessment Marks	Final rounded marks
13.01 to 13.49	13
13.50 to 13.99	14

- 19. Students must secure at least 50% marks of the total marks (combined in theory and practical / clinical; not less than 40 % marks in theory and practical Separately) assigned for internal assessment in order to be eligible for appearing at the final University examination of that subject. Internal assessment marks will reflect as separate head of passing at the summative examination.
- 20. Internal assessment marks will not to be added to marks of the University examinations and will be shown separately in mark list.

Second MBBS Practical Mark's Structure

Internal Assessment Examinations

(Applicable w.e.f October 2020 onwards examination for batches admitted from June

2019 onwards)

II MBBS- TERM-I

Seat No.	JOURN AL	LOG BOOK	OSCE-1	OSCE- 2	OSCE-3	OSCE-4	CASE	Practical Total
Max. Marks	10	10	5	5	5	5	10	50

• **OSCE DETAILS: 1.** History taking of a particular symptom; **2**. Demonstration of signs-Pulse/BP/JVP; **3.** Identification of General Examination Finding; **4.** Communication Skills with Pt or Relative

II MBBS- TERM-II

Seat No.	JOURN AL	LOG BOOK	OSCE-1	OSCE- 2	OSCE-3	OSCE-4	CASE	Practical Total
Max. Marks	10	10	5	5	5	5	10	50

OSCE DETAILS: 1. Demonstration of Syst Exam signs; **2.** Spot Diagnosis - Jaundice, Clubbing, LN etc; **3**. Drugs Indication/Contraindication/ Adverse Effects Etc; **4.** Equipment – Name / Indication/ Contraindications

Paper wise distribution of topics for Internal assessment Year: Second MBBS Subject: GENERAL MEDICINE

Internal	Section	Topics
Assessment		
I (50 marks)	Section A MCQs on all topics (15x1=15 marks) Section B SAQ on all topics (4x5=20) Section C LAQ on all topics (15x1=15 marks)	Fever & Febrile Syndromes HIV Diarrhoeal Diseases Envenomation
	(15x1=15 marks)	
	Section A MCQs on all topics (15x1=15 marks)	Pneumonia Miscellaneous Infections
Ш	Section B SAQ on all topics	
(50 marks)	(4x5=20)	Poisoning
	Section U	
	LAQ on all topics (15x1=15 marks)	Nutrition & Vitamin Deficiencies

Internal	Section	Topics
Assessment		
Ι	Section A	Hypertension
(50 marks)		
	MCQs on all topics (15x1=15 marks)	Heart failure
	Section B	
	SAQ on all topics (4x5=20)	Acute MI/IHD
	Section C	The role of physician in the
	LAQ on all topics (15x1=15 marks)	community
		AET-COM

Year: III-I MBBS Subject: GENERAL MEDICINE

Paper wise distribution of topics for Prelim & MUHS Annual Examination

Paper	Section	Topics
I	Section A	Fever & Febrile Syndromes
(100	MCQs on all topics of	HIV
marks)	the paper I $(20x1=20)$	Diarrhoeal Diseases
		Pneumonia
		Envenomation
	Section B	Miscellaneous Infections
	paper I	Poisoning
	(7x5=35)	Nutrition & Vitamin Deficiencies
		Anaemia
	Section C	Obesity
	LAQ on all topics of the	Hypertension
	paper I	Heart failure
	(3x15=45)	Acute MI/IHD
		The role of physician in the community
		AET-COM
	Section A MCOs on all topics of	GI Bleed
II (100	the paper II $(20x1=20)$	Liver Diseases
		Mineral Fluid Electrolyte and acid base disorder
marks)		Acute kidney injury and chronic renal failure
	Section B	Headache
	SAQ on all topics of the	Cerebrovascular accident
	paper II	Movement disorder
	(7x5=35)	Diabetes
		Thyroid Dysfunction
	Section C	Rheumatological Problems
	LAQ on all topics of the	Common Malignancies
	paper II	Geriatrics
	(3x15=45)	Psychiatry, Dermatology & Leprosy (DVL) and Respiratory Medicine including Tuberculosis
		AET – COM

MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NAS FORMAT / SKELETON OF QUESTION PAPE

1.	Course and Year	:	Seco	ond/ I icable	III-I / w.e.f.	/ III-II August	N 20	1BB 21 &	5 onwai	rds examin	ations)	2.	Subject Code
3.	Subject (P	SP) :			Ū	0							
	(T	T) :											
4.	Paper :	:	I/II	5	. To	tal Marks	:		6.	Total Time	e : 3 Hrs.		
7.	Web Pattern	ı :	[]	8	. We Ske	b eleton	:	[]	9.	Web Syllabus	:[]	10). Web Old QP
1113		1 2 3 4) P) U) E) S m	ut 🔀 Ise blu ach qu tudent. arked.	in th e ball iestio s will	e appro point po n carries not be d	prio en c s O allo	ate bo only. ne ma otted n	x belo u rk. uark <u>i</u> j	ow the ques	tion number o erwrites strike	nce s or	only. put white ink o
						SI	ECI	ΓΙΟΝ	"A"	MCQ (Marks)		
1.	Multiple	Choic	e Que	stions	(Tota	al	Μ	CQ of	One	nark each)			
	a)	b)	c)	d)	e)	f) g)		h)	i)	j)			
	k)	D	m)	n)	0)	(p) (g))	r)	s)	t)			

SECTION "B" & "C"

- Instructions: 1) Use blue/black ball point pen only.
 - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type an attempt to resort to unfair means.
 - 3) All questions are compulsory.
 - 4) The number to the **right** indicates **full** marks.
 - 5) Draw diagrams wherever necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipp paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any ques claim that the Question is out of syllabus. As It is only for the placement sake, the distribution has
 - 7) Use a common answerbook for all sections.

SECTION "B" (____ Marks)

2	Short An	swer Q	uestions	(Any	out of)
	a)	b)	c)	d)	e)
	Long An	swer Q	uestions	(Any	out of)
3	a)	b)	c)		
					SECTION "C" (Marks)
4	Short and	swer qu	estions	(Any	out of)
	a)	b)	c)	d)	e)
	5. Long	Answer	Question	ns (Any	out of)
	a)	b)	c)		

Assessment of Skill competencies

Assessment of DOAP Sessions

Phase	Com pete ncy Nos.	Topics & Subtopics	Teaching & Learning method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
Phase II	1.12	Pulse examination with demonstration				
	1.13	Measure BP accurately				
	1.14	JVP				
	4.10	Examination of skin, lymph node, chest and abdominal examination				
	2.7	CVS Examination with demonstration				
	3.4 & 3.5	Orientation to history taking, general examination & systemic examination of Respiratory system				
Phase III part II (fourth year)	IM 3.9/ IM 5.15	Demonstrate in a mannequin and interpret results of a pleural fluid Aspiration				
	IM5. 15	Assist in the performance and interpret the findings of an ascitic fluid analysis	Mannequi ns/bedsid e clinic/Rea I patient			
	M6. 15/ M 17.8 17.9	Demonstrate in a model the correct technique to perform a lumbar Puncture	Mannequi ns/bedsid e clinic/ Real patient			
Feedback	by Fac	ulty-				
Phase II			1	1	1	<u>I</u>
Phase III P	art I					
Phase III P	art II					

Assessments of Skill acquisition Sessions

Phase	Competen	Topics & Subtopics	TL	Attempt at	Decision of	Initial
	cy Nos.		Method	activity	faculty	of
				First (F)		faculty
				Repeat (R)		and
					Completed	date
				Remedial	(C)	
				(ке)	Repeat (R)	
					Remedial	
					(Re)	
Phase	1.30	Intramuscular injection	Simulator			
u –			/			
			Mannequi			
			n/Small			
			group			
			discussion			
		Ward round				
		Communication				
		with patient				
		Detient				
		Patient Education				
		Education				
Phase	IM4.15	Peripheral blood smear	Small			
m		interpretation&Perform	group			
		and interpret a malarial	discussion			
Part I		smear				
		Ryles tube insertion	Simulatio			
		,	n/ Real			
			patient			
	IM4.20	Interpret a PPD	Small			
		(Mantoux)	group			
			discussion			
	IM11.19	Demonstrate(and	Real			
		counsel) patients on	patient			
		the correct technique				
		to administer insulin				
	IM3.17	Describe and discuss	Small			
		the supportive therapy	group			
		in patients with	discussion			
		pneumonia including				
		oxygen use and				

		indications for ventilation (K)			
	IM11.13	Bedside urine analysisv&vPerform and interpret aurinary ketone estimation with a dipstick	Real patient		
	IM15.2 M15.11	Setting up IV infusion and calculating drip rate	Seminar/ Small group discussion /Casualty real patient		
Phase III part II (fourth year)	IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture	Simulator s/manneq uin		
	IM4.19	Assist in the collection of blood	Bed side clinics		
	IM11.12	Perform and interpret a capillary blood glucose test	Real patient		
	IM25.9	Assist in the collection of blood and other specimen cultures	Bed side clinic/real patients		
	IM9.19	Assist in a blood transfusion	Bed side clinic/real patients		
	IM15.13	Observe cross matching and blood / blood component transfusion	Bed side clinic/real patients		
	IM2.22	Perform and demonstrate in a mannequin BLS	DOAP		
	IM2.21	Observe and participate in a controlled environment an ACLS Program	Session in skills lab		
Feedback	by Faculty				
Phase III F	Part I				

Assessments of case presentation Sessions

Phase	Competenc y Nos.	Topics & Subtopics	TL Method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
Phase II	20.4 & 20.5	Medical emergency - snake bite – Elicit, present and document an detail history, Perform a systematic examination, document and present a local, appropriate cardiac and neurologic examination	Seminar/ Small Group discussion			
	CT2.20	Describe and discuss the principles and use of oxygen therapy in the hospital and at home	Lecture/ seminar/s mall group discussion /bedside clinic			
	CT2.22	Demonstrate and counsel patient on the correct use of inhaler	Small group discussion			
Phase III part II (fourth year)	IM10.21	Describe and discuss the indications for and insert a peripheral intravenous catheter	Seminar / lecture			
	IM11.20	Demonstrate to and counsel patients correct technique on the of self- monitoring of blood glucoses	Seminar/le cture			
	IM15.2	Enumerate, describe and discuss the evaluation and steps involved in	Seminar/le cture/smal			

	stabilizing a patient who presents with acute volume loss and GI Bleed	l group discussion		
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	Seminar/le cture/smal l group discussion		
AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates	Seminar/le cture/smal l group discussion		
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis	Seminar/le cture/smal l group discussion		
Feedback by Faculty				
Phase III Part I				
Phase III Part II				

Assessment of OSCE

Phase	Com pete ncy Nos.	Topics & Subtopics	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
Phase II	IM4. 15 IM9. 10	Perform and interpret a malarial smear Describe, perform and interpret a peripheral smear			
	IM11 .13 BI11. 4	Perform and interpret a urinary ketone estimation with a dipstick Perform urine analysis to estimate and determine			

	normal and abnormal constituents		
	Interprete Chest X Ray		
	Interprete blood culture		
	Interprete Hemogram- CBC etc		
	Interprete Liver function tests		
	Interprete CSF analysis		
	Interprete ascitic, pleural fluid		
	Interprete ABG		
Feedback by Fac	ulty		
Phase III Part I		· · · · ·	
Phase III Part II			

Skill acquisition Vertical integration

Phase	Comp etency Nos.	Topics & Subtopics	Teaching & Learning method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
Phase III	OG35. 17	OBGY Demonstrate the correct technique of urinary catheterization in a simulated/ supervised environment	Small group discussion / real patient/ simulatio n			
	CT2.20	Chest Medicine – Describe and discuss the principles and use of oxygen therapy in the hospital and at home	Seminar/ Group discussion			
	CT2.22	Chest Medicine- Demonstrate and counsel patient on the correct use of inhalers	Small group discussion / Role play/ Real patient			
	AS2.1	Enumerate the indications,	DOAP			

		describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates	Session in skills lab		
	AS2.2	Enumerate the indications, describe the steps and demonstrate in a simulated environment advanced life support in adults and children	DOAP Session in skills lab		
Feedbac	k by Facu	lty			
Phase II	l Part I				
Phase II	I Part II				

Integrated teachings-

Phase	Subject	Hours	Competency Nos. Topics & Subtopics	Teaching & Learning method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
III Pa	rt I	Total 9	hours (3 hours each for c	linical Pharma	cology, cli	nical Path	ology
		and Cli	nical microbiology)				
	Clinical Pharmac ology	3hours	Clinical pharmacokinetics-1 hr Adverse drug reaction-1 hr Drug-Drug interaction-1 hr				
	Clinical Patholo gy	3hours	Anaemia and haemoglobinopathies-1 hr Hematological malignancies-1 hr Platelet disorder-1 hr				
	Clinical Microbi ology	3hours	Pyrexia of unknown origin - 1 hr Antimicrobial resistance -1 hr Viral haemorrhagic fever -1 hr				
III Pa	rt II	Integr	ated teachings- Total 1	9 hours			
	Care of patients during Pandemi cs	6 hours	Interactive Discussion- 2 hours Triage practices to be followed Primary care to be given to a patient on reaching hospital				

			Steps t be taken to reduce		
			transmission of infections		
			in amargancy area		
			Dala Diay 1 have		
			Kole Play- 1 hour		
			Visit to hospital with		
			discussion with staff- 2		
			hour		
			Debriefing and feedback- 1		
			hour		
	Emerge	8 hours	Interactive Discussion – 2		
	ncv		hours		
	Procedu		1. Indications for invasive		
	res		procedures in Pandemics		
	during		2. Points to be verified before		
	Dondomi		emergency procedures		
	Pandeim		3. Steps to be taken to reduce		
	cs		transmission of infections		
			4. Attitude and		
			Communication Issues related		
			to complicated procedures II.		
			Skill development program –		
			with mannequins e.g.		
			intubation, CPR, ALS, PALS		
			etc - 4 hours (This may be		
			linked with the routine Skill		
			training component as well)		
			III. Role Plays for		
			communication skills and		
			documentation - 1 hour		
			IV. Debriefing and Feedback -		
			1hour		
	Managin	2 hours	Interactive discussion – 1 hour		
	g Death		a. Confirmation and		
	during		documentation of death		
	Pandemi		b. Steps to be taken to reduce		
	cs		transmission of infections		
			c. Attitude and		
			Communication Issues related		
			to handling of dead bodies		
			d. Responding to media		
			ii. Role Play for		
			communication skills and		
			documentation with		
			debriefing and feedback - 1		
			hour		
	Geraiatri	3 hours	Polypharmacy		
	cs		Falls		
			Incontinence		
Feedba	ick by				
Facultv	,				
,					
Phase I	III Part I				
Phace I	III Dart II				
1 11030 1	in rait il				

AETCOM

75% Attendance is required for eligibility to appear for final examination in each professional year.

	Maharashtra Unive	rsity of Health Sciences	
Gener	al Medicine Task Fo	rce for CBME Impleme	entation
Summary of AETCOM mo	dules for Third and	Fourth professional yea	rs
	Third professional Year	Fourth Professional Year	Total
Number of Modules	5	9	14
Number of Hours for training	19	28	47
Number of Hours for SDL	06	16	22
Nur	nber of hours to b	e shown in time tab	le of
	respective depart	ments for AETCOM	[
Hours of training by Medicine	10	15	25
Hours of training by Surgery	10	15	25
Hours of training by OBGY	05	09	14
Hours of training by Pediatrics	00	05	05

Assessment of AETCOM -

Phase	Competency Nos.	Topics & Subtopics	Teaching & Learning method	Attempt at activity First (F) Repeat (R) Remedial	Decision of faculty Completed (C) Repeat (R)	Initial of faculty and date
11	26.20	Demonstrate ability to communicate to patients in a respectful, non threatening, non judgemental and empathetic manner	Small group discussion/Role play	(Re)	Remedial (Re)	
	26.21 & 26.22	 Demonstrate respect to patient privacy Demonstrate ability to maintain confidentiality in patient care 	Lecture/ Small group discussion			
	26.19 , 26.24 & 26.25	 Demonstrate ability to work in a team of peers and superiors Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers- Demonstrate responsibility and work ethics while working in the health care team 	Lecture/ self directed learning/Small group discussion			
	26.35	Demonstrate empathy in patient encounters	Role play/ Case presentation			
III Part I	26.29 - 26.31	Role of Physician in Community- Communicate diagnostic and therapeutic options to patient and family in a simulated environment Communicate care options to patient and family with a terminal illness in a simulated environment Demonstrate awareness of limitations and seeks	Lecture/ Small group discussion/Role play			

	help and consultations appropriately			
Module 3.3	Administer informed consent and appropriately address patient queries to a patient undergoing a Surgical/ therapeutic procedure in a simulated	Small group discussion/ Real patient/ Role play		
Module 4.4	Communication, Attitude and Ethics Empathy, Doctor Patient Relationship , Effective Communication in terminally ill	CBL /video with interactive lecture, role play / small group session with standardized patient in soft skills lab.		
Module 4.5	Ethics and attitude Doctor Industry relationship- Conflicts of interests in patients care and professional	Role play/ CBL with interactive lecture		
Module 4.8	Communication, Attitude and Ethics Empathy , Death declaration , Handling emotions during death, Euthanasia , Breaking Bad News effectively	CBL /video with interactive lecture, role play / small group session with standardized patient as relative in soft skills lab.		
Phase III Part II				
Module 4.1	Foundation of Communication 5 Effectively communicating Diagnosis, Prognosis and therapy (Counseling skills)	Small group teaching with soft skills lab session related to Counseling skills		
Module 4.2	Ethics Abortion, MTP, Reproductive rights and ethical conflicts	CBL with interactive lecture (Can be a large class teaching)		

Module 4.9		Ethics Legal aspects of Care, Medical negligence and malpractices	CBL with interactive lecture/ small group discussions		
Feedbac	k by Faculty				
Phase III Part I			·		
Phase III	Part II				

Assessment of Tutorials

Phase	Торіс	Hours	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
TTT	Medical emergencies	1 hr			
Part	Valvular heart disease in adults	1 hr			
Ι	Acynotic congenital heart disease in adults (ASD,VSD,PDA)	1 hr			
	Cynotic congenital heart disease in adults (TOF)	1 hr			
	Instruments- Video of procedures/Real/casewise	1 hr			
	Instruments	1 hr			
	X rays	1 hr			
	X rays	1 hr			
	ECG- Approach to basics of ECG	1 hr			
	ECG- How to read ECG?	1 hr			
III	ECG-	10 Hours			
Part	How to interprete ECG?	1 hr			
II	ECG-Diagnosing Myocardial infarctions	1 hr			
	ECG: Chamber enlargement	1 hr			
	ECG-Bundle branch blocks	1 hr			
	Electrolyte abnormalities on ECG	1 hr			
	Narrow Complex tacchyarrythmias	1 hr			

Duadycomtheniag	1 hm			
Malayanunnas	1 111			
Valvular Heart diseases	1 nr			
ECG Quiz	l hr			
Misceleneous	1 hr			
Radiology-	11 Hours			
Basics of Chest X Ray	1 hr			
Reading Normal X Ray	1 hr			
Chest				
Abnormalities on Chest X	1 hr			
Ray – Cardiovascular				
system				
Pulmonary venous	1 hr			
hypertension vs	1 111			
pulmonary arterial				
hypertension				
Chest X ray – Respiratory	1 hr			
system	1 111			
Abdominal system(Chest	1 hr			
& Abdomen X Ray)	1 111			
Miscellencous V roy	1 hr			
Paging of CT Scor	1 III 1 hn			
Dasies of CT Scall				
Basics of MRI	2 nr			
Basics of PET scan	l hr			
Drugs- Case based	13			
approach	Hours			
Anti epileptics	1 hr			
Cardiovascular Drugs	1 hr			
Anti Tubercular Therapy	1 hr			
Anti Retroviral Therapy	1 hr			
Emergency Drugs	1 hr			
Antiviral Drugs	1 hr			
Drugs in respiratory	1 hr			
system				
Glucocorticoids	1 hr			
Drugs in Rheumatology	1 hr			
Anticoagulants	1 hr			
Inotropes and inodilators	1 hr			
Anti hypertensives	1 hr			
Antidiabetic drugs	1 hr			
	1 111			
Interpretation of Lab	12			
Interpretation of Lab	12			
Charts	Hours			
Interpretation of Ascitic fluid analysis				
Interpretation of Pleural				
fluid analysis				
Interpretation of	+	1		
Cerebrospinal fluid				

Interpretation of	
Abnormal LFT	
Interpretation of Anemia	
Interpretation of thyroid	
function test	
Interpretation of	
Peripheral blood smear	
Interpretation of urine	
analysis	
Interpretation of Fundus	
examination	
Interpretation of renal	
function tests	
Interpretation of Bone	
marrow studies	
Interpretation of ABG	
Feedback by Faculty	
Phase III Part I	
Phase III Part II	

Assessment of Seminars

Phase	Торіс	Hours	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
III Part I	Seminars	16 Hours			
1	Clinical approach to Ascites	liouis			
	Clinical approach to Anaemia				
	Clinical approach to				
	lymphadenopathy				
	Clinical approach to Jaundice				
	Clinical approach to chest pain				
	Clinical approach to headache				
	Clinical approach to bleeding				
	diathesis				
	Clinical approach to Comatose patient				
	Portal hypertension and its complications				
	Pulmonary arterial hypertension				
	Pulmonary function tests				
	Thyroid function tests				
	Grave's disease				
	Micro-vascular complications of DM				
	Macro-vascular complications of DM				

	Insulin and analogues			
III Part	Seminars	45		
II		hours		
	Clinical approach to Hupertensive	nours		
	omorgancies			
	Clinical approach to Acute			
	myocardial infarction			
	Clinical approach to solitary			
	Seizure			
	Clinical approach to ischemic			
	stroke			
	Clinical approach to intracranial			
	bleed			
	Clinical approach to Heart Failure			
	Clinical approach to Acute renal			
	failure			
	Clinical approach to Chronic			
	kidney disease			
	Clinical approach to hyponatremia			
	Clinical approach to potassium			
	imbalance disorders			
	Clinical approach to disorders of			
	calcium metabolism			
	Interpretation of ABG			
	Mixed Acid Base disorders			
	Emerging Viral Infections			
	Clinical approach to Geriatric			
	Syndromes			
	Clinical approach to a case of			
	Pulmonary Tuberculosis			
	Extra Pulmonary Tuborculosis			
	Clinical Approach to a case of			
	PI HIV			
	Clinical approach to opportunistic			
	infections in a case of PLHIV			
	Clinical approach to prescription			
	of ART			
	Clinical approach to a case of			
	Dengue			
	Clinical approach to a case of			
	Complicated malaria			
	Recent advances in the diagnosis			
	of tuberculosis		 	
	Vaccines for tuberculosis			
	Recent advances in anti retroviral			
	drugs			
	Clinical approach to a case of			
	Interstitial lung disease			
	Clinical approach to a case of			
	snake bite	1		

	Clinical approach to a case of			
	electric injury			
	Clinical approach to a case of			
	Clinical approach to a case of Chronic moningitie			
	Human Microbiome			
	Clinical approach to oncological			
	Clinical approach to a case of			
	A cute L eukemia			
	Clinical approach to a case of			
	Chronic loukomia			
	Madiaalagal socioaconomia and			
	athical issues as			
	it pertains to organ donation			
	Role of physician in community			
	Medicelegel sectorel			
	Medicolegai, sociocultural,			
	economic and athical issues as it partains to			
	rights, aquity and justice in			
	rights, equity and justice in			
	Medical and an and			
	Medicolegal, socio-cultural and			
	etifical			
	applied and the period of the			
	Medicelegal socia cultural and			
	ethical			
	issues as it pertains to research in			
	human subjects			
	Medicolegal socio cultural			
	professional and ethical issues as			
	it pertains to the physician			
	n pertains to the physician			
	fiduciary duty)			
	Documentation in health			
	care (including correct use of			
	medical records)			
	Use of information			
	technology that permits			
	appropriate patient care and			
	continued			
	learning			
	Understanding of the implications			
	and the			
	appropriate procedures and			
	response to be followed in the			
	event of medical errors			
	Conflicts of interest in patient care			
	and professional			
1		1	1	1

relationships and describe the correct response to these conflicts	
Clinical approach to a case of DIC	
Clinical approach to a case of	
arthritis	
Clinical approach to a case of	
multisystem involvement	
Clinical approach to a case of	
peripheral neuropathy	
Clinical approach to a case of	
flaccid quadriparesis	
Feedback by Faculty	
Phase III Part I	
Phase III Part II	

Assessment of Theory Competencies

1	2	3	4	5	6	7	8
Comp etency # addres sed	Name of Activity	Date com plete d: dd- mm- yyyy	Atte mpt at activi ty First or Only (F) Repea t (R) Remed ial (Re)	Rating Below (B) expectati ons Meets (M) expect ations Exceeds (E) expectati ons OR Numerical Score	Decision of faculty Complete d (C) Repeat (R) Remedia l (Re)	Initial of faculty and date	Feedback Received Initial of learner
Heart l	Failure						
IM1.10	Elicit, document and present an appropriate history that will establish the diagnosis, cause and severity of heart failure including presenting complaints, precipitating and exacerbating factors, risk factors						
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						
IM1.12	Demonstrate peripheral pulse, volume, character, quality and variation in various causes of heart failure						
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			
IM1.14	Demonstrate and measure jugular venous distension			
IM1.15	Identify and describe the timing, pitch quality conduction and significance of precordial murmurs and their variations			
IM1.16	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis			
IM1.17	Order and interpret diagnostic testing based on the clinical diagnosis including 12 lead ECG, Chest radiograph, blood cultures			
IM1.18	Perform and interpret a 12 lead ECG			
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			
IM1.21	Describe and discuss and identify the clinical features of acute and subacute endocarditis, echocardiographic findings, blood culture and sensitivity and therapy			
IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture			

		1		1	Ĩ
IM1.23	Describe, prescribe and communicate non pharmacologic management of heart failure including sodium restriction, physical activity and limitations				
IM1.26	Develop document and present a management plan for patients with heart failure based on type of failure, underlying aetiology				
IM1.30	Administer an intramuscular injection with an appropriate explanation to the patient				
Acute N	/yocardial Infarction/ IHD				
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				
IM2.7	Perform, demonstrate and document a physical examination including a vascular and cardiac examination that is appropriate for the clinical presentation				
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				
IM2.9	Distinguish and differentiate between stable and unstable angina and AMI based on the				

	clinical presentation				
IM2.10	Order, perform and interpret an ECG				
IM2.11	Order and interpret a Chest X- ray and markers of acute myocardial infarction				
IM2.12	Choose and interpret a lipid profile and identify the desirable lipid profile in the clinical context				
IM2.22	Perform and demonstrate in a mannequin BLS				
IM2.24	Counsel and communicate to patients with empathy lifestyle changes in atherosclerosis / post coronary syndromes				
Pneumo	onia	•			
IM3.4	Elicit document and present an appropriate history including the evolution, risk factors including immune status and occupational risk				
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				
IM3.6	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation				

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			
IM3.8	Demonstrate in a mannequin and interpret results of an arterial blood gas examination			
IM3.9	Demonstrate in a mannequin and interpret results of a pleural fluid aspiration			
IM3.10	Demonstrate the correct technique in a mannequin and interpret results of a blood culture			
IM3.11	Describe and enumerate the indications for further testing including HRCT, Viral cultures, PCR and specialised testing			
IM3.12	Select, describe and prescribe based on the most likely aetiology, an appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum			
IM3.13	Select, describe and prescribe based on culture and sensitivity appropriate empaling antimicrobial based on the pharmacology and antimicrobial spectrum.			
IM3.14	Perform and interpret a sputum gram stain and AFB			
IM3.18	Communicate and counsel patient on family on the diagnosis and therapy of			

	pneumonia			
Fever a	nd febrile syndromes			
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			
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)			
IM4.11	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes			
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			
IM4.13	Perform and interpret a sputum gram stain			
IM4.14	Perform and interpret a sputum AFB			
IM4.15	Perform and interpret a malarial smear			
IM4.17	Observe and assist in the performance of a bone marrow aspiration and biopsy in a simulated environment			
IM4.19	Assist in the collection of blood and wound cultures			
IM4.20	Interpret a PPD (Mantoux)			
IM4.23	Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs			
IM4.24	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis			
IM4.25	Communicate to the patient and family the diagnosis and treatment			
IM4.26	Counsel the patient on malarial prevention			
Liver di	iseases		L	
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			
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			
IM5.14	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology			
IM5.17	Enumerate the indications, precautions and counsel patients on vaccination for hepatitis			
HIV				
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			
IM6.8	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom			
IM6.14	Perform and interpret AFB sputum			

IM6.15	Demonstrate in a model the correct technique to perform a lumbar puncture				
IM6.19	Counsel patients on prevention of HIV transmission				
IM6.20	Communicate diagnosis, treatment plan and subsequent follow up plan to patients				
IM6.21	Communicate with patients on the importance of medication adherence				
IM6.22	Demonstrate understanding of ethical and legal issues regarding patient confidentiality and disclosure in patients with HIV				
IM6.23	Demonstrate a non-judgemental attitude to patients with HIV and to their lifestyles				
Rheum	atologic problems			1	
IM7.11	Elicit document and present a medical history that will differentiate the aetiologies of disease				
IM7.12	Perform a systematic examination of all joints, muscle and skin that will establish the diagnosis and severity of disease				
IM7.15	Enumerate the indications for and interpret the results of : CBC, anti- CCP, RA, ANA, DNA and other tests of autoimmunity				
IM7.17	Enumerate the indications and interpret plain radiographs of joints				

IM7.18	Communicate diagnosis, treatment plan and subsequent follow up plan to patients			
IM7.20	Select, prescribe and communicate appropriate medications for relief of joint pain			
IM7.21	Select, prescribe and communicate preventive therapy for crystalline arthropathies			
IM7.22	Select, prescribe and communicate treatment option for systemic rheumatologic conditions			
IM7.24	Communicate and incorporate patient preferences in the choice of therapy			
IM7.25	Develop and communicate appropriate follow up and monitoring plans for patients with rheumatologic conditions			
IM7.26	Demonstrate an understanding of the impact of rheumatologic conditions on quality of life, well being, work and family			
Hyperte	ension		1	
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			

N/0 10	Doutour a sustain atia				
11/18.10	Perform a systematic				
	examination that includes : an				
	blood pressure, fundus				
	examination examination of				
	vasculature and heart				
IM8.11	Generate a differential				
	diagnosis and prioritise				
	based on clinical features				
	that suggest a specific				
	aetiology				
IM8.15	Recognise, prioritise and				
	manage hypertensive				
IM8 16	Develop and communicate				
1110.10	to the patient lifestyle				
	modification including				
	weight reduction,				
	moderation of alcohol				
	intake, physical activity and				
	sodium intake				
IM8.17	Perform and interpret a 12 lead				
	ECG				
IM8.18	Incorporate patient preferences				
	in the management of HTN				
IM8.19	Demonstrate understanding of				
	the impact of Hypertension on				
	quality of life, well being, work				
	and family				
Anemia	l	_			
IM9.3	Elicit document and				
	present a medical				
	history that includes				
	symptoms, risk factors				
	including GI bleeding,				
	prior history,				
	history and family				
	history				
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				
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IM9.5	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology				
IM9.6	Describe the appropriate diagnostic work up based on the presumed aetiology				
IM9.9	Order and interpret tests for anemia including hemogram, red cell indices, reticulocyte count, iron studies, B12 and folate				
IM9.10	Describe, perform and interpret a peripheral smear and stool occult blood				
IM9.13	Prescribe replacement therapy with iron, B12, folate				
IM9.15	Communicate the diagnosis and the treatment appropriately to patients				
IM9.16	Incorporate patient preferences in the management of anemia				
IM9.19	Assist in a blood transfusion				
IM9.20	Communicate and counsel patients with methods to prevent nutritional anemia	foilure			

IM10.1 2	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			
IM10.1 3	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			
IM10.1 5	Describe the appropriate diagnostic work up based on the presumed aetiology			
IM10.1 7	Describe and calculate indices of renal function based on available laboratories including FENa (Fractional Excretion of Sodium) and CrCl (Creatinine Clearance)			
IM10.1 8	Identify the ECG findings in hyperkalemia			
IM10.2 0	Describe and discuss the indications to perform arterial blood gas analysis: interpret the data			
IM10.2 1	Describe and discuss the indications for and insert a peripheral intravenous catheter			
IM10.2 2	Describe and discuss the indications, demonstrate in a model and assist in the insertion of a central venous or a dialysis catheter			

IM10.2 3	Communicate diagnosis treatment plan and subsequent follow up plan to patients			
IM10.2 4	Counsel patients on a renal diet			
Diabete	s Mellitus			
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			
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)			
IM11.1 1	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			
IM11.1 2	Perform and interpret a capillary blood glucose test			
IM11.1 3	Perform and interpret a urinary ketone estimation with a dipstick			

IM11.1 9	Demonstrate and counsel patients on the correct technique to administer insulin			
IM11.2 0	Demonstrate to and counsel patients on the correct technique of self monitoring of blood glucoses			
Thyroid	Dysfunction			
IM12.5	Elicit document and present an appropriate history that will establish the diagnosis cause of thyroid dysfunction and its severity			
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			
IM12.7	Demonstrate the correct technique to palpate the thyroid			
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			
IM12.1 0	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG			
IM12.1 1	Interpret thyroid function tests in hypo and hyperthyroidism			

IM12.1 4	Write and communicate to the patient appropriately a prescription for thyroxine based on age, sex, and clinical and biochemical status					
Commo	on malignancies					
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					
Obesity	,	-	 	-	-	
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					
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					
IM14.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis					
IM14.9	Order and interpret diagnostic tests based on the clinical diagnosis including blood glucose, lipids, thyroid function tests etc.					

IM14.1 1	Communicate and counsel patient on behavioural, dietary and lifestyle modifications			
IM14.1 2	Demonstrate an understanding of patient's inability to adhere to lifestyle instructions and counsel them in a non - judgemental way			
GI Blee	ding			
IM15.2	Enumerate, describe and discuss the evaluation and steps involved in stabilizing a patient who presents with acute volume loss and GI bleed			
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			
IM15.5	Perform, demonstrate and document a physical examination based on the history that includes general examination, volume assessment and appropriate abdominal examination			
IM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent			
IM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely			

	diagnosis						
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.						
IM15.1 3	Observe cross matching and blood / blood component transfusion						
IM15.1 8	Counsel the family and patient in an empathetic non-judgmental manner on the diagnosis and therapeutic options						
Diarrhe	al diseases	1	1	r		r	
IM16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel, sexual history and other concomitant illnesses						
IM16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination						
IM16.7	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis						
IM16.8	Choose and interpret diagnostic tests based on the						

	clinical diagnosis including complete blood count, and stool examination			
IM16.9	Identify common parasitic causes of diarrhea under the microscope in a stool specimen			
IM16.1 0	Identify vibrio cholera in a hanging drop specimen			
IM16.1 5	Distinguish based on the clinical presentation Crohn's disease from Ulcerative Colitis			
Headac	he			
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			
IM17.4	Perform and demonstrate a general neurologic examination and a focused examination for signs of intracranial tension including neck signs of meningitis			
IM17.5	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation			
IM17.6	Choose and interpret diagnostic testing based on the clinical diagnosis including imaging			
IM17.8	Demonstrate in a mannequin or equivalent the correct technique			

	for performing a lumbar puncture			
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis			
IM17.1 4	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy			
Cerebr	ovascular accident			
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			
IM18.5	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate, based on the history			
IM18.6	Distinguish the lesion based on upper vs lower motor neuron, side, site and most probable nature of the lesion			
IM18.7	Describe the clinical features and distinguish, based on clinical examination, the various disorders of speech			
IM18.1 0	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident (CVA)			

IM18.1 7	Counsel patient and family about the diagnosis and therapy in an empathetic manner			
Movem	ent disorders		1	I
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			
IM19.4	Perform, demonstrate and document a physical examination that includes a general examination and a detailed neurologic examination using standard movement rating scales			
IM19.5	Generate document and present a differential diagnosis and prioritise based on the history and physical examination			
IM19.6	Make a clinical diagnosis regarding on the anatomical location, nature and cause of the lesion based on the clinical presentation and findings			
IM19.7	Choose and interpret diagnostic and imaging tests in the diagnosis of movement disorders			
Enveno	mation	 	 	
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				
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				
IM20.5	Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination				
IM20.6	Choose and interpret the appropriate diagnostic testing in patients with snake bites				
Poisonii	ng		I	1	
IM21.7	Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects with empathy				
Nutritio	nal and Vitamin deficiencies				
IM23.5	Counsel and communicate to patients in a simulated environment with illness on an appropriate balanced diet				
Geriatri	cs				
IM24.2	Perform multidimensional geriatric assessment that includes medical, psycho-social and functional components				
Miscella	neous infections				
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			
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)			
IM25.6	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes			
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			
IM25.9	Assist in the collection of blood and other specimen cultures			
IM25.1 1	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis			

IM25.1 2	Communicate to the patient and family the diagnosis and treatment of identified infection				
IM25.1 3	Counsel the patient and family on prevention of various infections due to environmental issues				
The rol	e of physician in the community	7			
IM26.1 9	Demonstrate ability to work in a team of peers and superiors				
IM26.2 0	Demonstrate ability to communicate to patients in a patient, respectful, non threatening, non judgemental and empathetic manner				
IM26.2 1	Demonstrate respect to patient privacy				
IM26.2 2	Demonstrate ability to maintain confidentiality in patient care				
IM26.2 3	Demonstrate a commitment to continued learning				
IM26.2 4	Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers				
IM26.2 5	Demonstrate responsibility and work ethics while working in the health care team				
IM26.2 6	Demonstrate ability to maintain required documentation in health care (including correct use of medical records)				
IM26.2 7	Demonstrate personal grooming that is adequate and appropriate for health care				

	responsibilities			
IM26.2 8	Demonstrate adequate knowledge and use of information technology that permits appropriate patient care and continued learning			
IM26.2 9	Communicate diagnostic and therapeutic opitons to patient and family in a simulated environment			
IM26.3 0	Communicate care opitons to patient and family with a terminal illness in a simulated environment			
IM26.3 1	Demonstrate awareness of limitations and seeks help and consultations appropriately			
IM26.3 2	Demonstrate appropriate respect to colleagues in the profession			
IM26.3 3	Demonstrate an understanding of the implications and the appropriate procedures and response to be followed in the event of medical errors			
IM26.3 4	Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts			
IM26.3 5	Demonstrate empathy in patient encounters			
IM26.3 6	Demonstrate ability to balance personal and professional priorities			

IM26.3 7	Demonstrate ability to manage time appropriately			
IM26.3 8	Demonstrate ability to form and function in appropriate professional networks			
IM26.3 9	Demonstrate ability to pursue and seek career advancement			
IM26.4 0	Demonstrate ability to follow risk management and medical error reduction practices where appropriate			
IM26.4 1	Demonstrate ability to work in a mentoring relationship with junior colleagues			
IM26.4 2	Demonstrate commitment to learning and scholarship			
IM26.4 8	Demonstrate altruism			
IM26.4 9	Administer informed consent and approriately adress patient queries to a patient being enrolled in a research protocol in a simulated environment			
Integra Anatom	tion Iy			
AN20.8 Vertical integrati on	Identify & demonstrate palpation of femoral, popliteal, post tibial, anti tibial & dorsalis pedis blood vessels in a simulated environment			
AN20.9 Vertical integrati on	Identify & demonstrate Palpation of vessels (femoral, popliteal,dorsalis pedis,post tibial), Mid inguinal point, Surface projection of: femoral nerve, Saphenous opening, Sciatic, tibial, common peroneal & deep peroneal			

	nerve, great and small saphenous veins			
AN24 .2 Vertic al integr ation	Identify side, external features and relations of structures which form root of lung & bronchial tree and their clinical correlate			
AN25. 7 Vertic al integr ation	Identify structures seen on a plain x-ray chest (PA view)			
AN25. 8 Vertic al integr ation	Identify and describe in brief a barium swallow			
AN25 .9 Vertic al integr ation	Demonstrate surface marking of lines of pleural reflection, Lung borders and fissures, Trachea, Heart borders, Apex beat & Surface projection of valves of heart			
AN56. 1 Vertic al integr ation	Describe & identify various layers of meninges with its extent & modifications			
AN62 .2 Vertic al integr ation	Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere			
AN62. 6 Vertic	Describe & identify formation, branches &			

al integr ation	major areas of distribution of circle of Willis			
PY4.9 Vertical integrati on	Discuss the physiology aspects of: peptic ulcer, gastro- oesophageal reflux disease, vomiting, diarrhoea, constipation, Adynamic ileus, Hirschsprung's disease			
PY5.13	Record and interpret normal ECG in a volunteer or simulated environment			
PY5.16	Record Arterial pulse tracing using finger plethysmography in a volunteer or simulated environment			
PY11.1 4 Vertical integrati on	Demonstrate Basic Life Support in a simulated environment			
PY6.8 Vertical Integrati on	Demonstrate the correct techinque to perform & interpret Spirometry			
BI11.4 Vertical integrati on	Perform urine analysis to estimate and determine normal and abnormal constituents			
BI1.26 Vertical integrati on	Calculate albumin: globulin (AG) ratio and creatinine clearance			
BI1.27 Vertical integrati on	Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance of these in the diet			
PA13.5	Perform, Identify and describe the peripheral			

	blood picture in anemia			
PA14.3 Vertical integrati on	Identify and describe the peripheral smear in microcytic anemia			
PA21.3	Differentiate platelet from clotting disorders based on the clinical and hematologic features			
PA24. 3	Describe and identify the microscopic features of peptic ulcer			
PA25. 6	Interpret a liver function and viral hepatitis serology panel. Distinguish obstructive from non obstructive jaundice based on clinical features and liver function tests			
PA27. 8	Interpret abnormalities in cardiac function testing in acute coronary syndromes			
PA35.3 Vertical integrati on	Identify the etiology of meningitis based on given CSF parameters			
MI2.3	Identify the microbial agents causing Rheumatic heart disease & infective Endocarditis			
MI2.6	Identify the causative agent of malaria and filariasis			
MI3.2	Identify the common etiologic agents of diarrhea and dysentery			
MI5.3	Identify the microbial agents causing meningitis			

MI6.2	Identify the common etiologic agents of upper respiratory tract infections (Gram Stain)			
MI6.3	Identify the common etiologic agents of lower respiratory tract infections (Gram Stain & Acid fast stain).			
PH1.12	Calculate the dosage of drugs using appropriate formulae for an individual patient, including children, elderly and patient with renal dysfunction			
PH2.4	Demonstrate the correct method of calculation of drug dosage in patients including those used in special situations			
PH3.1	Write a rational, correct and legible generic prescription for a given condition and communicate the same to the patient			
PH3.3	Perform a critical evaluation of the drug promotional literature			
PH3.5	To prepare and explain a list of P-drugs for a given case/condition			
PH5.1	Communicate with the patient with empathy and ethics on all aspects of drug use			
PH5.4	Explain to the patient the relationship between cost of treatment and patient compliance			
CM5.2	Describe and demonstrate the correct method of performing a nutritional assessment of			

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	individuals, families and the community by using the appropriate method				
CM5.4	Plan and recommend a suitable diet for the individuals and families based on local availability of foods and economic status, etc in a simulated environment				
CM6.2	Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data				
СМ6.3	Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs				
CM6.4	Enumerate, discuss and demonstrate common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion				
CM7.4	Define, calculate and interpret morbidity and mortality indicators based on given set of data				
CM7.6	Enumerate and evaluate the need of screening tests				
СМ7.7	Describe and demonstrate the steps in the Investigation of an epidemic of communicable disease and describe the principles of control measures.				

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FM14.2	Demonstrate the correct technique of clinical examination in a suspected case of poisoning & prepare medico- legal report in a simulated/ supervised environment	- - -			
FM14.3	Assist and demonstrate the proper technique in collecting, preserving and dispatch of the exhibits in a suspected case of poisoning, along with clinical examination.				
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologic examination				
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations				
DR10.5	Counsel in a non-judgemental and empathetic manner patients on prevention of sexually transmitted diseases				
DR10. 7	Identify and differentiate based on the clinical features non- syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)				
DR11. 2	Identify and distinguish the dermatologic manifestations of HIV its complications, opportunistic infections and adverse reactions				
DR12. 7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions				
DR16. 1	Identify and distinguish skin lesions of SLE				

DR16. 2	Identify and distinguish Raynaud's phenomenon			
DR17. 1	Enumerate and identify the cutaneous findings in vitamin A deficiency			
AS2.1 Vertical integrati on	Enumerate the indications, describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates			
AS2.2	Enumerate the indications, describe the steps and demonstrate in a simulated environment advanced life support in adults and children			
AS3.2 Horizon tal integrati on	Elicit, present and document an appropriate history including medication history in a patient undergoing Surgery as it pertains to a preoperative anaesthetic evaluation			
AS3.3 Horizon tal integrati on	Demonstrate and document an appropriate clinical examination in a patient undergoing General Surgery			
AS3.4 Horizon tal integrati on	Choose and interpret appropriate testing for patients undergoing Surgery			
AS3.5 Horizon tal integrati on	Determine the readiness for General Surgery in a patient based on the preoperative evaluation			
PS4.2 Horizon tal integrati on	Elicit, describe and document clinical features of alcohol and substance use disorders			

PS4.3 Horizon tal integrati on	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse disorders			
PS10.2 Horizon tal integrati on	Enumerate, elicit, describe and document clinical features in patients with somatoform, dissociative and conversion disorders			
PS10.3 Horizon tal integrati on	Enumerate and describe the indications and interpret laboratory and other tests used in somatoform, dissociative and conversion disorders			
PS12.2 Horizon tal integrati on	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosomatic disorders			
PS12.3 Horizon tal integrati on	Enumerate and describe the indications and interpret laboratory and other tests of psychosomatic disorders			
PS16. 4 Horiz ontal integr ation	Demonstrate family education in a patient with psychiatric disorders occurring in the elderly in a simulated environment			
PE32.3 Horizon tal integrati on	Interpret normal Karyotype and recognize Trisomy 21			
PE28.20	Counsel the child with asthma on the correct use of inhalers in a simulated environment			
PE34.5	Able to elicit, document and present history of contact with tuberculosis in every patient			

	encounter			
PE34.6	Identify a BCG scar			
PE34.7	Interpret a Mantoux test			
PE34.8	Interpret a Chest Radiograph			
PE34.9	Interpret blood tests in the context of laboratory evidence for tuberculosis			
PE34.11	Perform AFB staining			
PE28.19	Describe the etio-pathogenesis, clinical features, diagnosis, management and prevention of asthma in children			
PM4.5 Horizon tal integrati on	Demonstrate correct assessment of muscle strength and range of movements			
PM6.1 Horizon tal integrati on	Perform and demonstrate a clinical examination of sensory and motor deficits of peripheral nerve			
CT1.5	Elicit, document and present an appropriate medical history that includes risk factor, contacts, symptoms including cough and fever CNS and other manifestations			
CT1.6	Demonstrate and perform a systematic examination that establishes the diagnosis based on the clinical presentation that includes a a) general examination, b) examination of			

CT1.7	the chest and lung including loss of volume, mediastinal shift, percussion and auscultation (including DOAP session of lung sounds and added sounds) c) examination of the lymphatic system and d) relevant CNS examination Perform and interpret a PPD			
	(mantoux) and describe and discuss the indications and pitfalls of the test			
CT1.10	Perform and interpret an AFB stain			
CT1.11	Assist in the performance, outline the correct tests that require to be performed and interpret the results of a pleural fluid aspiration			
CT1.15	Prescribe an appropriate antituberculosis regimen based on the location of disease, smear positivity and negativity and co- morbidities based on current national guidelines including directly observed tuberculosis therapy (DOTS)			
CT1.17	Define criteria for the cure of Tuberculosis; describe and recognise the features of drug resistant tuberculosis, prevention and therapeutic regimens			
CT1.18	Educate health care workers on National Program of Tuberculosis and administering and monitoring the DOTS program			
CT1.19	Communicate with patients and family in an empathetic manner about the diagnosis, therapy			

CT2.8	Elicit document and present a medical history that will differentiate the aetiologies of obstructive airway disease, severity and precipitants			
CT2.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology			
CT2.11	Describe, discuss and interpret pulmonary function tests			
CT2.12	Perform and interpret peak expiratory flow rate			
CT2.13	Describe the appropriate diagnostic work up based on the presumed aetiology			
CT2.14	Enumerate the indications for and interpret the results of : pulse oximetry, ABG, Chest Radiograph			
CT2.15	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology			
CT2.18	Develop a therapeutic plan including use of bronchodilators and inhaled corticosteroids			
CT2.19	Develop a management plan for acute exacerbations including bronchodilators, systemic steroids, antimicrobial therapy			
CT2.21	Describe discuss and counsel patients appropriately on smoking cessation			
CT2.22	Demonstrate and counsel patient on the correct use of inhalers			

CT2.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients			
CT2.9	Perform a systematic examination that establishes the diagnosis and severity that includes measurement of respiratory rate, level of respiratory distress, effort tolerance, breath sounds, added sounds, identification of signs of consolidation pleural effusion and pneumothorax			
DR5.2	Identify and differentiate scabies from other lesions			
DR6.2	Identify and differentiate pediculosis from other skin lesions			
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency			
AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates			
PS14.2	Enumerate, elicit, describe and document clinical features in patients with psychiatric disorders occurring in childhood and adolescence			
PS14.4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescence in a simulated environment			
PS15.3	Elicit and document a history and clinical examination and choose appropriate			

	investigations in a patient with mental retardation			
OG18.2	Demonstrate the steps of neonatal resuscitation in a simulated environment			
PM3.4	Demonstrate spasticity, rigidity and dystonia in children with cerebral palsy			
PS1.1	Establish rapport and empathy with patients			
PS1.3	Demonstrate breaking of bad news in a simulated environment			
PS1.4	Describe and demonstrate the importance of confidentiality in patient encounters			
PS3.3	Elicit, present and document a history in patients presenting with a mental disorder			
PS3.4	Describe the importance of establishing rapport with patients			
PS3.5	Perform, demonstrate and document a minimental examination			
PS3.9	Describe the steps and demonstrate in a simulated environment family education in patients with organic psychiatric disorders			
PS4.2	Elicit, describe and document clinical features of alcohol and substance use disorders			
PS4.3	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse			

	disorders			
PS4.5	Demonstrate family education in a patient with alcohol and substance abuse in a simulated environment			
PS5.2	Enumerate, elicit, describe and document clinical features, positive s			
PS5.4	Demonstrate family education in a patient with schizophrenia in a simulated environment			
PS6.2	Enumerate, elicit, describe and document clinical features in patients with depression			
PS6.3	Enumerate and describe the indications and interpret laboratory and other tests used in depression			
PS6.5	Demonstrate family education in a patient with depression in a simulated environment			
PS7.2	Enumerate, elicit, describe and document clinical features in patients with bipolar disorders			
PS7.3	Enumerate and describe the indications and interpret laboratory and other tests used in bipolar disorders			
PS7.5	Demonstrate family education in a patient with bipolar disorders in a simulated environment			

PS8.2	Enumerate, elicit, describe and document clinical features in patients with anxiety disorders			
PS8.3	Enumerate and describe the indications and interpret laboratory and other tests used in anxiety disorders			
PS8.5	Demonstrate family education in a patient with anxiety disorders in a simulated environment			
PS9.2	Enumerate, elicit, describe and document clinical features in patients with stress related disorders			
PS9.3	Enumerate and describe the indications and interpret laboratory and other tests used in stress related disorders			
PS9.5	Demonstrate family education in a patient with stress related disorders in a simulated environment			
PS10.2	Enumerate, elicit, describe and document clinical features in patients with somatoform, dissociative and conversion disorders			
PS10.3	Enumerate and describe the indications and interpret laboratory and other tests used in somatoform, dissociative and conversion disorders			
PS10.5	Demonstrate family education in a patient with somatoform, dissociative and conversion disorders in a			

	simulated environment			
PS11.2	Enumerate, elicit, describe and document clinical features in patients with personality disorders			
PS11.3	Enumerate and describe the indications and interpret laboratory and other tests used in personality disorders			
PS11.5	Demonstrate family education in a patient with personality disorders in a simulated environment			
PS12.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosomatic disorders			
PS12.3	Enumerate and describe the indications and interpret laboratory and other tests of psychosomatic disorders			
PS12.5	Demonstrate family education in a patient with psychosomatic disorders in a simulated environment			
PS13.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosexual and gender identity disorders			
PS13.3	Enumerate and describe the indications and interpret laboratory and other tests used in psychosexual and gender identity disorders			

PS13.5	Demonstrate family education in a patient with psychosexual and gender identity disorders in a simulated environment			
PS14.2	Enumerate, elicit, describe and document clinical features in patients with psychiatric disorders occurring in childhood and adolescence			
PS14.4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescence in a simulated environment			
PS15.3	Elicit and document a history and clinical examination and choose appropriate investigations in a patient with mental retardation			
PS16.4	Demonstrate family education in a patient with psychiatric disorders occurring in the elderly in a simulated environment			
PH5.6	Demonstrate ability to educate public & patients about various aspects of drug use including drug dependence and OTC drugs.			
IM17.1 4	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy			
IM24.2	Perform multidimensional geriatric assessment that includes medical,			

	psycho-social and functional components			
DR1.2	Identify and grade the various common types of acne			
DR3.1	Identify and distinguish psoriatic lesions from other causes			
DR3.2	Demonstrate the grattage test			
DR4.1	Identify and distinguish lichen planus lesions from other causes			
DR5.2	Identify and differentiate scabies from other lesions in adults and children			
DR6.2	Identify and differentiate pediculosis from other skin lesions in adults and children			
DR7.2	Identify Candida species in fungal scrapings and KOH mount			
DR8.2	Identify and distinguish herpes simplex and herpes labialis from other skin lesions			
DR8.3	Identify and distinguish herpes zoster and varicella from other skin lesions			
DR8.4	Identify and distinguish viral warts from other skin lesions			
DR8.5	Identify and distinguish molluscum contagiosum from other skin lesions			
DR8.6	Enumerate the indications, describe the procedure and perform a Tzanck smear			
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an			

	appropriate neurologic examination			
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations			
DR10.2	Identify spirochete in a dark ground microscopy			
DR10.5	Counsel in a non-judgemental and empathetic manner patients on prevention of sexually transmitted disease			

General Medicine

Subject: General Medicine

Third Year MBBS

Sub Item: Theory lectures/ Clinical postings/Tutorials/seminars/self directed learning/ Electives

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Sr. No	Description	Dat	tes	Attendance	Status	Signature of
		From	То	percentage	Complete/ Incomplete	Teacher
1	Theory lectures					
2	Clinical postings					
3	AETCOM Module					
4.	Electives					
5	Vertical Integraon					

6	Extracurricular activities			
7	Sports /Physical Education			



Maharashtra University of Health Sciences

PHASE II to Phase IV MBBS

COMPETENCY BASED CURRICULUM-2019 batch

GENERAL MEDICINE LOG BOOK

NAME OF COLLEGE-

NAME OF STUDENT-

ROLL NUMBER-

BATCH – A/B/C/D/E/F
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PERSONAL DETAILS

Name of student-Mobile Number-Residential Address-Photo stick hereFather/Guardians contact no.Email-Email-Email of Father/Guardian-

Date of admission to MBBS course-

Date of beginning of current phase-

LOGBOOK CERTIFICATE (General Medicine)

This candidate is certify that the Mr/ Ms to, Reg No....., admitted in the year 2019-20 in the ----- Medical College,----- has satisfactorily completed / has not completed all assignments /requirements mentioned in this logbook for Second to fourth year MBBS course in the subject(s) of General Medicine Foundation Course/ AETCOM during the period from (University) assessment as on the date given below.

Signature of all Unit In charges-

Signature of Head of the Department

Principal/Dean of the College

Place: Date:

GENERAL INSTRUCTIONS

- 1. The logbook is a record of the academic / co-curricular activities of the designated student, who would be responsible for maintaining his/her logbook.
- 2. The log book is a record of the academic / nonacademic activities of the student. Each Medical student is responsible for maintaining their logbook.
- 3. This logbook is prepared as per the guidelines of MCI for implementation of Competency based curriculum for Phase II to Phase IV Professional MBBS students in the subject of General Medicine.
- 4. Students are instructed to keep their logbook entries up to date. It is the responsibility of the student to enter their activity in respective pages & get them duly singed by the supervising faculty.
- 5. Entries in the logbook will be in accordance with activities done in the departments and has to be scrutinized by the Head of all the concerned departments.
- 6. The logbook shall be kept as record work of the candidate for that department / specialty & be submitted to department as a bonafide record of the candidate before appearing for the University examination.

NOTE:

- 1. A clear record of all components that add to the internal assessment marks needs to be maintained by the institution and retained by them for at least 5 years after completion of the examination. Institutions may be asked to provide these details by the University as and when required.
- 2. The contents in the log book are suggested guidelines. The institutions can make necessary changes as per the needs.
- 3. The student is responsible for getting the entries in the logbook verified by the Faculty in charge regularly.
- 4. Entries in the logbook will reflect the activities undertaken in the department & have to be scrutinized by the Head of the concerned department.
- 5. The logbook is a record of various activities by the student like:- Overall participation & performance, Attendance, Participation in sessions, Record of completion of pre-determined activities., Acquisition of selected competencies.

	Duration	Pra	Practical		Theory		f
						Unit	in
						charge/ HO	D
		No of days	Days attended	No of days	Days attended		
Phase II							
First clinical posting	4 weeks						
Second clinical posting	4 weeks						
Phase III Part I	8 weeks						
Phase III Part I	4 weeks						

Record of Attendance for Theory and clinical postings

Dates of completion of clinical postings

Phase	From	То	Absent days	Journal completed	Signature of unit in charges with name and dates
Π					
III Part I					
III Part II					

Sr. No.	Internal assessment	Date/Month /Year	Marks obtained		Out of 4.5	Signature of student
			Theory out of	Practical out of		
1	First	September				
2	Second	September				
3	Third Part I	October				
4	Third Part II	January				
	Total					
	Round up-					

SCHEME OF EXAMINATION - Internal Assessment

Duration and details of course

Sr.	Phases		Semester	No of Months
No.				
1	Ι	First professional	Semester 1 & Semester 2	1 + 12 months
		Preclinical phase		
2	II	Second professional	Semester 3 & Semester 4	11 Months
		Paraclinical Phase		
3	III Part I	Third professional	Semester 5 & Semester 6	13 Months
		Clinical Phase		
4	Electives, skills and assessment			2 Months
5	III Part II	Third professional	Semester 7, Semester 8	13 Months
		Clinical Phase	Semester 9	

Phase	Hours	Total hrs
First I		
Early clinical exposure	90	
Second II		
Lectures	75	615 hrs
Tutorial/Seminars/Integrated learning		-
Self directed learning		
Third Part I		
Lectures	25	
Tutorial/Seminars/Integrated learning	35	65 hrs
Self directed learning	5	
Third Part II		
Lectures	70	
Tutorial/Seminars/Integrated learning	125	210 hrs
Self directed learning	15	

Theory teaching

Learner – Doctor Programme (Clinical clerkship) (Reference- The Gazette of India: Part III-sec.4 pg 74-74)

The learner will function as a part of the health care team with the following responsibilities:

- (i) Be part of the unit's outpatient services on admission days,
- (ii) Remain with the admission unit until 6 PM except during designated class hours,
- (iii) Be assigned patients admitted during each admission day for whom he/she will undertake responsibility, under the supervision of a senior resident or faculty member,
- (iv) Participate in the unit rounds on its admission day and will present the assigned patients to the supervising physician,
- (v) Follow the patient's progress throughout the hospital stay until discharge,
- (vi) Participate, under supervision, in procedures, surgeries, deliveries etc. of assigned patients (according to responsibilities outlined in table 9),
- (vii) Participate in unit rounds on at least one other day of the week excluding the admission day,
- (viii) Discuss ethical and other humanitarian issues during unit rounds,
- (ix) Attend all scheduled classes and educational activities,
- (x) Document his/her observations in a prescribed log book / case record.
- (xi) No learner will be given independent charge of the patient.

Year of curriculum	Focus of Learner- Doctor programme
Year 1	Introduction to hospital environment, early clinical exposure, understanding perspectives of illness

Year 2	History taking, physical examination, assessment of change in clinical status, communication and patient education
Year 3	All of the above and choice of investigations, basic procedures and continuity of care
Year 4	All of the above and decision making, management and outcomes

Assessment of Skill competencies

Assessment of DOAP Sessions

Phase	Com pete ncy Nos.	Topics & Subtopics	Teaching & Learning method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
Phase II	1.12	Pulse examination with demonstration				
	1.13	Measure BP accurately				
	1.14	JVP				
	4.10	Examination of skin, lymph node, chest and abdominal examination				
	2.7	CVS Examination with demonstration				
	3.4 & 3.5	Orientation to history taking, general examination & systemic examination of Respiratory system				
Phase III part II (fourth year)	IM 3.9/ IM 5.15	Demonstrate in a mannequin and interpret results of a pleural fluid Aspiration	Mannequi			
	15	interpret the findings of an ascitic fluid analysis	ns/bedsid e clinic/Rea I patient			
	M6. 15/ M 17.8 17.9	Demonstrate in a model the correct technique to perform a lumbar Puncture	Mannequi ns/bedsid e clinic/ Real patient			
Feedback	by Fac	ulty-				
Phase II			1	1	1	
Phase III P	art I					
Phase III P	art II					

Assessments of Skill acquisition Sessions

Phase	Competen cy Nos.	Topics & Subtopics	TL Method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
Phase II	1.30	Intramuscular injection	Simulator / Mannequi n/Small group discussion			
		 Ward round Communication with patient Patient Education 				
Phase III Part I	IM4.15	Peripheral blood smear interpretation&Perform and interpret a malarial smear	Small group discussion			
		Ryles tube insertion	Simulatio n/ Real patient			
	IM4.20	Interpret a PPD (Mantoux)	Small group discussion			
	IM11.19	Demonstrate(and counsel) patients on the correct technique to administer insulin	Real patient			
	IM3.17	Describe and discuss the supportive therapy in patients with pneumonia including oxygen use and	Small group discussion			

		indications for ventilation (K)			
	IM11.13	Bedside urine analysisv&vPerform and interpret aurinary ketone estimation with a dipstick	Real patient		
	IM15.2 M15.11	Setting up IV infusion and calculating drip rate	Seminar/ Small group discussion /Casualty real patient		
Phase III part II (fourth year)	IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture	Simulator s/manneq uin		
	IM4.19	Assist in the collection of blood	Bed side clinics		
	IM11.12	Perform and interpret a capillary blood glucose test	Real patient		
	IM25.9	Assist in the collection of blood and other specimen cultures	Bed side clinic/real patients		
	IM9.19	Assist in a blood transfusion	Bed side clinic/real patients		
	IM15.13	Observe cross matching and blood / blood component transfusion	Bed side clinic/real patients		
	IM2.22	Perform and demonstrate in a mannequin BLS	DOAP		
	IM2.21	Observe and participate in a controlled environment an ACLS Program	Session in skills lab		
Feedback	by Faculty				
Phase III F	Part I			1	<u>. </u>

Assessments of case presentation Sessions

Phase	Competenc y Nos.	Topics & Subtopics	TL Method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
Phase II	20.4 & 20.5	Medical emergency - snake bite – Elicit, present and document an detail history, Perform a systematic examination, document and present a local, appropriate cardiac and neurologic examination	Seminar/ Small Group discussion			
	CT2.20	Describe and discuss the principles and use of oxygen therapy in the hospital and at home	Lecture/ seminar/s mall group discussion /bedside clinic			
	CT2.22	Demonstrate and counsel patient on the correct use of inhaler	Small group discussion			
Phase III part II (fourth year)	IM10.21	Describe and discuss the indications for and insert a peripheral intravenous catheter	Seminar / lecture			
	IM11.20	Demonstrate to and counsel patients correct technique on the of self- monitoring of blood glucoses	Seminar/le cture			
	IM15.2	Enumerate, describe and discuss the evaluation and steps involved in	Seminar/le cture/smal			

	stabilizing a patient who presents with acute volume loss and GI Bleed	l group discussion	
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	Seminar/le cture/smal l group discussion	
AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates	Seminar/le cture/smal l group discussion	
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis	Seminar/le cture/smal l group discussion	
Feedback by Faculty			
Phase III Part I			
Phase III Part II			

Assessment of OSCE

Phase	Com pete ncy Nos.	Topics & Subtopics	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
Phase II	IM4. 15 IM9. 10	Perform and interpret a malarial smear Describe, perform and interpret a peripheral smear			
	IM11 .13 BI11.	Perform and interpret a urinary ketone estimation with a dipstick Perform urine analysis			
	4	to estimate and determine			

	normal and abnormal constituents		
	Interprete Chest X Ray		
	Interprete blood culture		
	Interprete Hemogram- CBC etc		
	Interprete Liver function tests		
	Interprete CSF analysis		
	Interprete ascitic, pleural fluid		
	Interprete ABG		
Feedback by Fac	culty		
Phase III Part I		1	1
Phase III Part II			

Skill acquisition Vertical integration

Phase	Comp etency Nos.	Topics & Subtopics	Teaching & Learning method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
Phase III	OG35. 17	OBGY Demonstrate the correct technique of urinary catheterization in a simulated/ supervised environment	Small group discussion / real patient/ simulatio n			
	CT2.20	Chest Medicine – Describe and discuss the principles and use of oxygen therapy in the hospital and at home	Seminar/ Group discussion			
	CT2.22	Chest Medicine- Demonstrate and counsel patient on the correct use of inhalers	Small group discussion / Role play/ Real patient			
	AS2.1	Enumerate the indications,	DOAP			

		describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates	Session in skills lab		
	AS2.2	Enumerate the indications, describe the steps and demonstrate in a simulated environment advanced life support in adults and children	DOAP Session in skills lab		
Feedbac	k by Facu	lty			
Phase III	l Part I			L	
Phase III	l Part II				

Integrated teachings-

Phase	Subject	Hours	Competency Nos. Topics & Subtopics	Teaching & Learning method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
III Pa	rt I	Total 9	hours (3 hours each for c	linical Pharmac	ology, cli	nical Patho	ology
		and Cli	nical microbiology)				
	Clinical Pharmac ology	3hours	Clinical pharmacokinetics-1 hr Adverse drug reaction-1 hr Drug-Drug interaction-1 hr				
	Clinical Patholo gy	3hours	Anaemia and haemoglobinopathies-1 hr Hematological malignancies-1 hr Platelet disorder-1 hr				
	Clinical Microbi ology	3hours	Pyrexia of unknown origin - 1 hr Antimicrobial resistance -1 hr Viral haemorrhagic fever -1 hr				
III Pa	rt II	Integr	ated teachings- Total 1	9 hours			
	Care of patients during Pandemi cs	6 hours	Interactive Discussion- 2 hours Triage practices to be followed Primary care to be given to a patient on reaching hospital				

			Steps t be taken to reduce		
			transmission of infections		
			in emergency area		
			Role Play- 1 hour Visit		
			to hospital with		
			discussion with staff- 2		
			hour		
			Debriefing and feedback- 1		
			hour		
	Emerge	8 hours	Interactive Discussion -2		
	nev	0 nouis	hours		
	Procedu		1. Indications for invasive		
	ros		procedures in Pandemics		
	during		2. Points to be verified before		
	Dondomi		emergency procedures		
			3. Steps to be taken to reduce		
	05		transmission of infections		
			4. Attitude and		
			Communication Issues related		
			to complicated procedures II.		
			with mannage a g		
			intubation CPR ALS PALS		
			etc - 4 hours (This may be		
			linked with the routine Skill		
			training component as well)		
			III. Role Plays for		
			communication skills and		
			documentation - 1 hour		
			IV. Debriefing and Feedback -		
			1hour		
	Managin	2 hours	Interactive discussion – 1 hour		
	g Death		a. Confirmation and		
	Dandemi		b Stops to be taken to reduce		
			transmission of infections c		
	05		Attitude and Communication		
			Issues related to handling of		
			dead bodies		
			d. Responding to media		
			ii. Role Play for		
			communication skills and		
			documentation with		
			debriefing and feedback - 1		
	Consistei	2.1	hour Delautheurseen		
	Geralatri	3 hours	Falls		
	CS		Incontinence		
			mediumenee		
Feedba	ick by				
Faculty	- 1				
Phase I	III Part I				
Phase I	III Part II				

AETCOM

75% Attendance is required for eligibility to appear for final examination in each professional year.

	Maharashtra Unive	rsity of Health Sciences	5						
General Medicine Task Force for CBME Implementation									
Summary of AETCOM mo	odules for Third and	Fourth professional yea	ars						
	Third professional Year	Fourth Professional Year	Total						
Number of Modules	5	9	14						
Number of Hours for training	19	28	47						
Number of Hours for SDL	06	16	22						
Nu	mber of hours to b	oe shown in time tab	le of						
	respective depart	ments for AETCON	ſ						
Hours of training by Medicine	10	15	25						
Hours of training by Surgery	10	15	25						
Hours of training by OBGY	05	09	14						
Hours of training by Pediatrics	00	05	05						

Assessment of AETCOM -

Phase	Competency Nos.	Topics & Subtopics	Teaching & Learning method	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
	26.20 26.21 & 26.22 26.19, 26.24 & 26.25	Demonstrate ability to communicate to patients in a respectful, non threatening, non judgemental and empathetic manner - Demonstrate respect to patient privacy - Demonstrate ability to maintain confidentiality in patient care - Demonstrate ability to work in a team of peers and superiors - Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers- Demonstrate responsibility and work ethics while working in the health care team	Small group discussion/Role play Lecture/ Small group discussion Lecture/ self directed learning/Small group discussion			
	26.35	Demonstrate empathy in patient encounters	Role play/ Case presentation			
III Part I	26.29 - 26.31	Role of Physician in Community- Communicate diagnostic and therapeutic options to patient and family in a simulated environment Communicate care options to patient and family with a terminal illness in a simulated environment Demonstrate awareness of limitations and seeks	Lecture/ Small group discussion/Role play			

	help and consultations appropriately			
Module 3.3	Administer informed consent and appropriately address patient queries to a patient undergoing a Surgical/ therapeutic procedure in a simulated environment	Small group discussion/ Real patient/ Role play		
Module 4.4	Communication, Attitude and Ethics Empathy, Doctor Patient Relationship , Effective Communication in terminally ill	CBL /video with interactive lecture, role play / small group session with standardized patient in soft skills lab.		
Module 4.5	Ethics and attitude Doctor Industry relationship- Conflicts of interests in patients care and professional	Role play/ CBL with interactive lecture		
Module 4.8	Communication, Attitude and Ethics Empathy , Death declaration , Handling emotions during death , Euthanasia , Breaking Bad News effectively	CBL /video with interactive lecture, role play / small group session with standardized patient as relative in soft		
Phase III Part II		SKIIIS IAD.		
Module 4.1	Foundation of Communication 5 Effectively communicating Diagnosis, Prognosis and therapy (Counseling skills)	Small group teaching with soft skills lab session related to Counseling skills		
Module 4.2	Ethics Abortion, MTP, Reproductive rights and ethical conflicts	CBL with interactive lecture (Can be a large class teaching)		

Module 4.9		Ethics Legal aspects of Care, Medical negligence and malpractices	CBL with interactive lecture/ small group discussions		
Feedbac	k by Faculty				
Phase III Part I					
Phase III Part II					

Assessment of Tutorials

Phase	Торіс	Hours	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
TTT	Medical emergencies	1 hr			
Part	Valvular heart disease in adults	1 hr			
Ι	Acynotic congenital heart disease in adults (ASD,VSD,PDA)	1 hr			
	Cynotic congenital heart disease in adults (TOF)	1 hr			
	Instruments- Video of procedures/Real/casewise	1 hr			
	Instruments	1 hr			
	X rays	1 hr			
	X rays	1 hr			
	ECG- Approach to basics of ECG	1 hr			
	ECG- How to read ECG?	1 hr			
III	ECG-	10 Hours			
Part	How to interprete ECG?	1 hr			
II	ECG-Diagnosing Myocardial infarctions	1 hr			
	ECG: Chamber enlargement	1 hr			
	ECG-Bundle branch blocks	1 hr			
	Electrolyte abnormalities on ECG	1 hr			
	Narrow Complex tacchyarrythmias	1 hr			

Bradyarrthmias	1 hr		
Valvular Heart diseases	1 hr		
ECG Quiz	1 hr		
Misceleneous	1 hr		
Radiology-	11		
	Hours		
Basics of Chest X Ray	1 hr		
Reading Normal X Ray	1 hr		
Chest			
Abnormalities on Chest X	1 hr		
Ray – Cardiovascular			
system			
Pulmonary venous	1 hr		
hypertension vs			
pulmonary arterial			
 hypertension			
Chest X ray – Respiratory	1 hr		
 system			
Abdominal system(Chest	l hr		
& Abdomen X Ray)	1.1		
Miscelleneous X ray	1 hr		
Basics of CT Scan	1 hr		
Basics of MRI	2 nr		
Basics of PET scan	1 hr		
Drugs- Case based	13		
	Hours		
Anti epileptics	1 hr		
Cardiovascular Drugs	1 hr		
 Anti Iubercular Therapy	I hr		
 Anti Retroviral Therapy	1 nr		
Antiviral Drugs	1 nr 1 hr		
Anuviral Drugs	1 nr 1 hr		
Drugs in respiratory	1 111		
 Glucocorticoids	1 hr		
 Drugs in Pheumatology	1 III 1 hr		
Anticoagulants	1 III 1 hr		
Inotropes and inodilators	1 hr		
Anti hypertensives	1 hr		
Antidiabetic drugs	1 hr		
	1 111		
Interpretation of Lab	12		
Charte	Hours		
	Tiours		
Interpretation of Ascitic			
 fluid analysis			
fluid analysis			
 Interpretation of			
Corobrogningl fluid			
		1	
analysis			

Interpretation of	
Abnormal LFT	
Interpretation of Anemia	
Interpretation of thyroid	
function test	
Interpretation of	
Peripheral blood smear	
Interpretation of urine	
analysis	
Interpretation of Fundus	
examination	
Interpretation of renal	
function tests	
Interpretation of Bone	
marrow studies	
Interpretation of ABG	
Feedback by Faculty	
Phase III Part I	
Phase III Part II	

Assessment of Seminars

Phase	Торіс	Hours	Attempt at activity First (F) Repeat (R) Remedial (Re)	Decision of faculty Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date
III Part I	Seminars	16 Hours			
	Clinical approach to Ascites				
	Clinical approach to Anaemia				
	Clinical approach to				
	lymphadenopathy				
	Clinical approach to Jaundice				
	Clinical approach to chest pain				
	Clinical approach to headache				
	Clinical approach to bleeding diathesis				
	Clinical approach to Comatose patient				
	Portal hypertension and its complications				
	Pulmonary arterial hypertension				
	Pulmonary function tests				
	Thyroid function tests				
	Grave's disease				
	Micro-vascular complications of DM				
	Macro-vascular complications of DM				

	Insulin and analogues			
III Part	Seminars	45		
II		hours		
		liouis		
	Clinical approach to Hypertensive			
	emergencies			
	Clinical approach to Acute			
	myocardial infarction			
	Clinical approach to solitary			
	Seizure			
	Clinical approach to ischemic			
	stroke			
	Clinical approach to intracranial			
	Clinical approach to Heart Failure			
	Clinical approach to Acute renal			
	Clinical approach to Chronic			
	kidney disease			
	Clinical approach to hyponatremia			
	Clinical approach to potassium			
	imbalance disorders			
	Clinical approach to disorders of			
	calcium metabolism			
	Interpretation of ABG			
	Mixed Acid Base disorders			
	Emerging viral infections			
	Clinical approach to Geriatric			
	Syndromes			
	Clinical approach to a case of			
	Clinical approach to a cose of			
	Extra Pulmonary Tuboroulogia			
	Clinical Approach to a case of			
	Clinical approach to apportunistic			
	infections in a case of PI HIV			
	Clinical approach to prescription			
	of ART			
	Clinical approach to a case of			
	Dengue			
	Clinical approach to a case of			
	Complicated malaria			
	Recent advances in the diagnosis			
	of tuberculosis			
	Vaccines for tuberculosis			
	Recent advances in anti retroviral			
	drugs			
	Clinical approach to a case of			
	Interstitial lung disease			
	Clinical approach to a case of			
	snake bite			

Clinical approach to a case of		
electric injury		
Clinical approach to a case of		
acute meningitis		
Clinical approach to a case of		
Chronic meningitis		
 Ageing		
 Human Microbiome		
Clinical approach to oncological		
emergencies		
Clinical approach to a case of		
Acute Leukemia		
Clinical approach to a case of		
Chronic leukemia		
Medicolegal, socioeconomic and		
ethical issues as		
It pertains to organ donation		
Noticelesslesslesslesslesslesslesslesslessle		
Medicolegal, sociocultural,		
and athical issues as it partains to		
rights, equity and justice in		
access to health care		
Medicolegal socio-cultural and		
ethical		
issues as it pertains to		
confidentiality in patient care		
Medicolegal, socio-cultural and		
ethical		
issues as it pertains to research in		
human subjects		
Medicolegal, socio-cultural,		
professional and ethical issues as		
it pertains to the physician		
patient relationship (including		
 fiduciary duty)		
Documentation in health		
care (including correct use of		
 medical records)		
Use of information		
technology that permits		
appropriate patient care and		
learning		
Understanding of the implications		
and the		
and the appropriate procedures and		
response to be followed in the		
event of medical errors		
Conflicts of interest in patient care		
and professional		

relationships and describe the		
correct response to these		
Clinical approach to a case of		
Clinical approach to a case		
of arthritis		
Clinical approach to a case		
of multisystem		
Clinical approach to a case		
of peripheral neuropathy		
Clinical approach to a case		
of flaccid quadriparesis		
Feedback by Faculty		
Phase III Part I		
Phase III Part II		

Assessment of Theory Competencies

1	2	3	4	5	6	7	8
Comp etency # addres sed	Name of Activity	Date com plete d: dd- mm- yyyy	Atte mpt at activity First or Only (F) Repeat (R) Remedial (Re)	Rating Below (B) expectati ons Meets (M) expect ations Exceeds (E) expectation s OR Numerical Score	Decisi on of faculty Compl ete d (C) Repeat (R) Remedi al Re)	Initia l of facul ty and date	Feedba ck Receiv ed Initial of learner
		Heart	Failure				
IM1.10 IM1.11	Elicit, document and present an appropriate history that will establish the diagnosis, cause and severity of heart failure including presenting complaints, precipitating and exacerbating factors, risk factors 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						
IM1.12	Demonstrate peripheral pulse, volume, character, quality and variation in various causes of heart failure						
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			
IM1.14	Demonstrate and measure jugular venous distension			
IM1.15	Identify and describe the timing, pitch quality conduction and significance of precordial murmurs and their variations			
IM1.16	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis			
IM1.17	Order and interpret diagnostic testing based on the clinical diagnosis including 12 lead ECG, Chest radiograph, blood cultures			
IM1.18	Perform and interpret a 12 lead ECG			
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			
IM1.21	Describe and discuss and identify the clinical features of acute and subacute endocarditis, echocardiographic findings, blood culture and sensitivity and therapy			
IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture			

IM1.23	Describe, prescribe and communicate non pharmacologic management of heart failure including sodium restriction, physical activity and limitations			
IM1.26	Develop document and present a management plan for patients with heart failure based on type of failure, underlying aetiology			
IM1.30	Administer an intramuscular injection with an appropriate explanation to the patient			
Acute N	Iyocardial Infarction/ IHD			
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			
IM2.7	Perform, demonstrate and document a physical examination including a vascular and cardiac examination that is appropriate for the clinical presentation			
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			
IM2.9	Distinguish and differentiate between stable and unstable angina and AMI based on the			

	clinical presentation				
IM2.10	Order, perform and interpret an ECG				
IM2.11	Order and interpret a Chest X- ray and markers of acute myocardial infarction				
IM2.12	Choose and interpret a lipid profile and identify the desirable lipid profile in the clinical context				
IM2.22	Perform and demonstrate in a mannequin BLS				
IM2.24	Counsel and communicate to patients with empathy lifestyle changes in atherosclerosis / post coronary syndromes				
Pneumo	onia	•			
IM3.4	Elicit document and present an appropriate history including the evolution, risk factors including immune status and occupational risk				
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				
IM3.6	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation				

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			
IM3.8	Demonstrate in a mannequin and interpret results of an arterial blood gas examination			
IM3.9	Demonstrate in a mannequin and interpret results of a pleural fluid aspiration			
IM3.10	Demonstrate the correct technique in a mannequin and interpret results of a blood culture			
IM3.11	Describe and enumerate the indications for further testing including HRCT, Viral cultures, PCR and specialised testing			
IM3.12	Select, describe and prescribe based on the most likely aetiology, an appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum			
IM3.13	Select, describe and prescribe based on culture and sensitivity appropriate empaling antimicrobial based on the pharmacology and antimicrobial spectrum.			
IM3.14	Perform and interpret a sputum gram stain and AFB			
IM3.18	Communicate and counsel patient on family on the diagnosis and therapy of			

	pneumonia								
Fever a	Sever and febrile syndromes								
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								
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)								
IM4.11	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes								
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					
IM4.13	Perform and interpret a sputum gram stain					
IM4.14	Perform and interpret a sputum AFB					
IM4.15	Perform and interpret a malarial smear					
IM4.17	Observe and assist in the performance of a bone marrow aspiration and biopsy in a simulated environment					
IM4.19	Assist in the collection of blood and wound cultures					
IM4.20	Interpret a PPD (Mantoux)					
IM4.23	Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs					
IM4.24	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis					
IM4.25	Communicate to the patient and family the diagnosis and treatment					
IM4.26	Counsel the patient on malarial prevention					
Liver d	iseases	II	1	1	1	
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			
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			
IM5.14	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology			
IM5.17	Enumerate the indications, precautions and counsel patients on vaccination for hepatitis			
HIV				
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			
IM6.8	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom			
IM6.14	Perform and interpret AFB sputum			

IM6.15	Demonstrate in a model the correct technique to perform a lumbar puncture			
IM6.19	Counsel patients on prevention of HIV transmission			
IM6.20	Communicate diagnosis, treatment plan and subsequent follow up plan to patients			
IM6.21	Communicate with patients on the importance of medication adherence			
IM6.22	Demonstrate understanding of ethical and legal issues regarding patient confidentiality and disclosure in patients with HIV			
IM6.23	Demonstrate a non-judgemental attitude to patients with HIV and to their lifestyles			
Rheuma	atologic problems			
IM7.11	Elicit document and present a medical history that will differentiate the aetiologies of disease			
IM7.12	Perform a systematic examination of all joints, muscle and skin that will establish the diagnosis and severity of disease			
IM7.15	Enumerate the indications for and interpret the results of : CBC, anti- CCP, RA, ANA, DNA and other tests of autoimmunity			
IM7.17	Enumerate the indications and interpret plain radiographs of joints			

IM7.18	Communicate diagnosis, treatment plan and subsequent follow up plan to patients				
IM7.20	Select, prescribe and communicate appropriate medications for relief of joint pain				
IM7.21	Select, prescribe and communicate preventive therapy for crystalline arthropathies				
IM7.22	Select, prescribe and communicate treatment option for systemic rheumatologic conditions				
IM7.24	Communicate and incorporate patient preferences in the choice of therapy				
IM7.25	Develop and communicate appropriate follow up and monitoring plans for patients with rheumatologic conditions				
IM7.26	Demonstrate an understanding of the impact of rheumatologic conditions on quality of life, well being, work and family				
Hyperte	ension		-	 	
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				
IM8.10	Perform a systematic examination that includes : an accurate measurement of blood pressure, fundus examination, examination of vasculature and heart				
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IM8.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology				
IM8.15	Recognise, prioritise and manage hypertensive emergencies				
IM8.16	Develop and communicate to the patient lifestyle modification including weight reduction, moderation of alcohol intake, physical activity and sodium intake				
IM8.17	Perform and interpret a 12 lead ECG				
IM8.18	Incorporate patient preferences in the management of HTN				
IM8.19	Demonstrate understanding of the impact of Hypertension on quality of life, well being, work and family				
Anemia	l				
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				

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				
IM9.5	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology				
IM9.6	Describe the appropriate diagnostic work up based on the presumed aetiology				
IM9.9	Order and interpret tests for anemia including hemogram, red cell indices, reticulocyte count, iron studies, B12 and folate				
IM9.10	Describe, perform and interpret a peripheral smear and stool occult blood				
IM9.13	Prescribe replacement therapy with iron, B12, folate				
IM9.15	Communicate the diagnosis and the treatment appropriately to patients				
IM9.16	Incorporate patient preferences in the management of anemia				
IM9.19	Assist in a blood transfusion				
IM9.20 Acute k	Communicate and counsel patients with methods to prevent nutritional anemia idney injury and chronic renal	failure			

IM10.1 2	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			
IM10.1 3	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			
IM10.1 5	Describe the appropriate diagnostic work up based on the presumed aetiology			
IM10.1 7	Describe and calculate indices of renal function based on available laboratories including FENa (Fractional Excretion of Sodium) and CrCl (Creatinine Clearance)			
IM10.1 8	Identify the ECG findings in hyperkalemia			
IM10.2 0	Describe and discuss the indications to perform arterial blood gas analysis: interpret the data			
IM10.2 1	Describe and discuss the indications for and insert a peripheral intravenous catheter			
IM10.2 2	Describe and discuss the indications, demonstrate in a model and assist in the insertion of a central venous or a dialysis catheter			

IM10.2 3	Communicate diagnosis treatment plan and subsequent follow up plan to patients				
IM10.2 4	Counsel patients on a renal diet				
Diabete	s Mellitus	I			
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				
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)				
IM11.1 1	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				
IM11.1 2	Perform and interpret a capillary blood glucose test				
IM11.1 3	Perform and interpret a urinary ketone estimation with a dipstick				

IM11.1 9	Demonstrate and counsel patients on the correct technique to administer insulin				
IM11.2 0	Demonstrate to and counsel patients on the correct technique of self monitoring of blood glucoses				
Thyroid	Dysfunction		•		
IM12.5	Elicit document and present an appropriate history that will establish the diagnosis cause of thyroid dysfunction and its severity				
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				
IM12.7	Demonstrate the correct technique to palpate the thyroid				
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				
IM12.1 0	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG				
IM12.1 1	Interpret thyroid function tests in hypo and hyperthyroidism				

IM12.1 4	Write and communicate to the patient appropriately a prescription for thyroxine				
	and biochemical status				
Commo	on malignancies		1		
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				
Obesity	- -				
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				
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				
IM14.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis				
IM14.9	Order and interpret diagnostic tests based on the clinical diagnosis including blood glucose, lipids, thyroid function tests etc.				

IM14.1 1	Communicate and counsel patient on behavioural, dietary and lifestyle modifications				
IM14.1 2	Demonstrate an understanding of patient's inability to adhere to lifestyle instructions and counsel them in a non - judgemental way				
GI Blee	ding	-		 	
IM15.2	Enumerate, describe and discuss the evaluation and steps involved in stabilizing a patient who presents with acute volume loss and GI bleed				
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				
IM15.5	Perform, demonstrate and document a physical examination based on the history that includes general examination, volume assessment and appropriate abdominal examination				
IM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent				
IM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely				

	diagnosis				
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.				
IM15.1 3	Observe cross matching and blood / blood component transfusion				
IM15.1 8	Counsel the family and patient in an empathetic non-judgmental manner on the diagnosis and therapeutic options				
Diarrhe	al diseases	T	1	 	
IM16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel, sexual history and other concomitant illnesses				
IM16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination				
IM16.7	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis				
IM16.8	Choose and interpret diagnostic tests based on the				

	clinical diagnosis including complete blood count, and stool examination			
IM16.9	Identify common parasitic causes of diarrhea under the microscope in a stool specimen			
IM16.1 0	Identify vibrio cholera in a hanging drop specimen			
IM16.1 5	Distinguish based on the clinical presentation Crohn's disease from Ulcerative Colitis			
Headac	he	•	 	
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			
IM17.4	Perform and demonstrate a general neurologic examination and a focused examination for signs of intracranial tension including neck signs of meningitis			
IM17.5	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation			
IM17.6	Choose and interpret diagnostic testing based on the clinical diagnosis including imaging			
IM17.8	Demonstrate in a mannequin or equivalent the correct technique			

	for performing a lumbar puncture			
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis			
IM17.1 4	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy			
Cerebr	ovascular accident			
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			
IM18.5	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate, based on the history			
IM18.6	Distinguish the lesion based on upper vs lower motor neuron, side, site and most probable nature of the lesion			
IM18.7	Describe the clinical features and distinguish, based on clinical examination, the various disorders of speech			
IM18.1 0	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident (CVA)			

IM18.1 7	Counsel patient and family about the diagnosis and therapy in an empathetic manner					
Movem	ent disorders	1	1	1	I	
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					
IM19.4	Perform, demonstrate and document a physical examination that includes a general examination and a detailed neurologic examination using standard movement rating scales					
IM19.5	Generate document and present a differential diagnosis and prioritise based on the history and physical examination					
IM19.6	Make a clinical diagnosis regarding on the anatomical location, nature and cause of the lesion based on the clinical presentation and findings					
IM19.7	Choose and interpret diagnostic and imaging tests in the diagnosis of movement disorders					
Enveno	mation					
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					
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					
IM20.5	Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination					
IM20.6	Choose and interpret the appropriate diagnostic testing in patients with snake bites					
Poisonii	ng		1	1	1	
IM21.7	Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects with empathy					
Nutritio	onal and Vitamin deficiencies					
IM23.5	Counsel and communicate to patients in a simulated environment with illness on an appropriate balanced diet					
Geriatri	ics	1			[r
IM24.2	Perform multidimensional geriatric assessment that includes medical, psycho-social and functional components					
Miscella	aneous infections	 				
IM25.4	Elicit document and present a medical history that helps delineate the aetiology of these diseases that includes the					

IM25.5	evolution and pattern of symptoms, risk factors, exposure through occupation and travel Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin, mucosal and			
	chest and abdominal examination (including examination of the liver and spleen)			
IM25.6	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes			
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			
IM25.9	Assist in the collection of blood and other specimen cultures			
IM25.1 1	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis			

IM25.1 2	Communicate to the patient and family the diagnosis and treatment of identified infection				
IM25.1 3	Counsel the patient and family on prevention of various infections due to environmental issues				
The role	e of physician in the community	y			
IM26.1 9	Demonstrate ability to work in a team of peers and superiors				
IM26.2 0	Demonstrate ability to communicate to patients in a patient, respectful, non threatening, non judgemental and empathetic manner				
IM26.2 1	Demonstrate respect to patient privacy				
IM26.2 2	Demonstrate ability to maintain confidentiality in patient care				
IM26.2 3	Demonstrate a commitment to continued learning				
IM26.2 4	Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers				
IM26.2 5	Demonstrate responsibility and work ethics while working in the health care team				
IM26.2 6	Demonstrate ability to maintain required documentation in health care (including correct use of medical records)				
IM26.2 7	Demonstrate personal grooming that is adequate and appropriate for health care				

	responsibilities			
IM26.2 8	Demonstrate adequate knowledge and use of information technology that permits appropriate patient care and continued learning			
IM26.2 9	Communicate diagnostic and therapeutic opitons to patient and family in a simulated environment			
IM26.3 0	Communicate care opitons to patient and family with a terminal illness in a simulated environment			
IM26.3 1	Demonstrate awareness of limitations and seeks help and consultations appropriately			
IM26.3 2	Demonstrate appropriate respect to colleagues in the profession			
IM26.3 3	Demonstrate an understanding of the implications and the appropriate procedures and response to be followed in the event of medical errors			
IM26.3 4	Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts			
IM26.3 5	Demonstrate empathy in patient encounters			
IM26.3 6	Demonstrate ability to balance personal and professional priorities			

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IM26.3 7	Demonstrate ability to manage time appropriately			
IM26.3 8	Demonstrate ability to form and function in appropriate professional networks			
IM26.3 9	Demonstrate ability to pursue and seek career advancement			
IM26.4 0	Demonstrate ability to follow risk management and medical error reduction practices where appropriate			
IM26.4 1	Demonstrate ability to work in a mentoring relationship with junior colleagues			
IM26.4 2	Demonstrate commitment to learning and scholarship			
IM26.4 8	Demonstrate altruism			
IM26.4 9	Administer informed consent and approriately adress patient queries to a patient being enrolled in a research protocol in a simulated environment			
Integrat A natom	tion			
AN20.8 Vertical integrati on	Identify & demonstrate palpation of femoral, popliteal, post tibial, anti tibial & dorsalis pedis blood vessels in a simulated environment			
AN20.9 Vertical integrati on	Identify & demonstrate Palpation of vessels (femoral, popliteal,dorsalis pedis,post tibial), Mid inguinal point, Surface projection of: femoral nerve, Saphenous opening, Sciatic, tibial, common peroneal & deep peroneal			

	nerve, great and small saphenous veins			
AN24 .2 Vertic al integr ation	Identify side, external features and relations of structures which form root of lung & bronchial tree and their clinical correlate			
AN25. 7 Vertic al integr ation	Identify structures seen on a plain x-ray chest (PA view)			
AN25. 8 Vertic al integr ation	Identify and describe in brief a barium swallow			
AN25 .9 Vertic al integr ation	Demonstrate surface marking of lines of pleural reflection, Lung borders and fissures, Trachea, Heart borders, Apex beat & Surface projection of valves of heart			
AN56. 1 Vertic al integr ation	Describe & identify various layers of meninges with its extent & modifications			
AN62 .2 Vertic al integr ation	Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere			
AN62. 6 Vertic	Describe & identify formation, branches &			

al integr ation	major areas of distribution of circle of Willis			
PY4.9 Vertical integrati on	Discuss the physiology aspects of: peptic ulcer, gastro- oesophageal reflux disease, vomiting, diarrhoea, constipation, Adynamic ileus, Hirschsprung's disease			
PY5.13	Record and interpret normal ECG in a volunteer or simulated environment			
PY5.16	Record Arterial pulse tracing using finger plethysmography in a volunteer or simulated environment			
PY11.1 4 Vertical integrati on	Demonstrate Basic Life Support in a simulated environment			
PY6.8 Vertical Integrati on	Demonstrate the correct techinque to perform & interpret Spirometry			
BI11.4 Vertical integrati on	Perform urine analysis to estimate and determine normal and abnormal constituents			
BI1.26 Vertical integrati on	Calculate albumin: globulin (AG) ratio and creatinine clearance			
BI1.27 Vertical integrati on	Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance of these in the diet			
PA13.5	Perform, Identify and describe the peripheral			

	blood picture in anemia			
PA14.3 Vertical integrati on	Identify and describe the peripheral smear in microcytic anemia			
PA21.3	Differentiate platelet from clotting disorders based on the clinical and hematologic features			
PA24. 3	Describe and identify the microscopic features of peptic ulcer			
PA25. 6	Interpret a liver function and viral hepatitis serology panel. Distinguish obstructive from non obstructive jaundice based on clinical features and liver function tests			
PA27. 8	Interpret abnormalities in cardiac function testing in acute coronary syndromes			
PA35.3 Vertical integrati on	Identify the etiology of meningitis based on given CSF parameters			
MI2.3	Identify the microbial agents causing Rheumatic heart disease & infective Endocarditis			
MI2.6	Identify the causative agent of malaria and filariasis			
MI3.2	Identify the common etiologic agents of diarrhea and dysentery			
MI5.3	Identify the microbial agents causing meningitis			

MI6.2	Identify the common etiologic agents of upper respiratory tract infections (Gram Stain)			
MI6.3	Identify the common etiologic agents of lower respiratory tract infections (Gram Stain & Acid fast stain).			
PH1.12	Calculate the dosage of drugs using appropriate formulae for an individual patient, including children, elderly and patient with renal dysfunction			
PH2.4	Demonstrate the correct method of calculation of drug dosage ir patients including those used ir special situations			
PH3.1	Write a rational, correct and legible generic prescription for a given condition and communicate the same to the patient			
PH3.3	Perform a critical evaluation of the drug promotional literature			
PH3.5	To prepare and explain a list of P-drugs for a given case/condition			
PH5.1	Communicate with the patient with empathy and ethics on all aspects of drug use			
PH5.4	Explain to the patient the relationship between cost of treatment and patient compliance			
СМ5.2	Describe and demonstrate the correct method of performing a nutritional assessment of			

	individuals, families and the community by using the appropriate method			
CM5.4	Plan and recommend a suitable diet for the individuals and families based on local availability of foods and economic status, etc in a simulated environment			
CM6.2	Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data			
СМ6.3	Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs			
CM6.4	Enumerate, discuss and demonstrate common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion			
СМ7.4	Define, calculate and interpret morbidity and mortality indicators based on given set of data			
CM7.6	Enumerate and evaluate the need of screening tests			
СМ7.7	Describe and demonstrate the steps in the Investigation of an epidemic of communicable disease and describe the principles of control measures.			

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FM14.2	Demonstrate the correct technique of clinical examination in a suspected case of poisoning & prepare medico- legal report in a simulated supervised environment				
FM14.3	Assist and demonstrate the proper technique in collecting, preserving and dispatch of the exhibits in a suspected case of poisoning, along with clinical examination.				
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologic examination				
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations				
DR10.5	Counsel in a non-judgemental and empathetic manner patients on prevention of sexually transmitted diseases				
DR10. 7	Identify and differentiate based on the clinical features non- syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)				
DR11. 2	Identify and distinguish the dermatologic manifestations of HIV its complications, opportunistic infections and adverse reactions				
DR12. 7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions				
DR16. 1	Identify and distinguish skin lesions of SLE				

DR16. 2	Identify and distinguish Raynaud's phenomenon			
DR17. 1	Enumerate and identify the cutaneous findings in vitamin A deficiency			
AS2.1 Vertical integrati on	Enumerate the indications, describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates			
AS2.2	Enumerate the indications, describe the steps and demonstrate in a simulated environment advanced life support in adults and children			
AS3.2 Horizon tal integrati on	Elicit, present and document an appropriate history including medication history in a patient undergoing Surgery as it pertains to a preoperative anaesthetic evaluation			
AS3.3 Horizon tal integrati on	Demonstrate and document an appropriate clinical examination in a patient undergoing General Surgery			
AS3.4 Horizon tal integrati on	Choose and interpret appropriate testing for patients undergoing Surgery			
AS3.5 Horizon tal integrati on	Determine the readiness for General Surgery in a patient based on the preoperative evaluation			
PS4.2 Horizon tal integrati on	Elicit, describe and document clinical features of alcohol and substance use disorders			

PS4.3 Horizon tal integrati on	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse disorders			
PS10.2 Horizon tal integrati on	Enumerate, elicit, describe and document clinical features in patients with somatoform, dissociative and conversion disorders			
PS10.3 Horizon tal integrati on	Enumerate and describe the indications and interpret laboratory and other tests used in somatoform, dissociative and conversion disorders			
PS12.2 Horizon tal integrati on	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosomatic disorders			
PS12.3 Horizon tal integrati on	Enumerate and describe the indications and interpret laboratory and other tests of psychosomatic disorders			
PS16. 4 Horiz ontal integr ation	Demonstrate family education in a patient with psychiatric disorders occurring in the elderly in a simulated environment			
PE32.3 Horizon tal integrati on	Interpret normal Karyotype and recognize Trisomy 21			
PE28.20	Counsel the child with asthma on the correct use of inhalers in a simulated environment			
PE34.5	Able to elicit, document and present history of contact with tuberculosis in every patient			

	encounter			
PE34.6	Identify a BCG scar			
PE34.7	Interpret a Mantoux test			
PE34.8	Interpret a Chest Radiograph			
PE34.9	Interpret blood tests in the context of laboratory evidence for tuberculosis			
PE34.11	Perform AFB staining			
PE28.19	Describe the etio-pathogenesis, clinical features, diagnosis, management and prevention of asthma in children			
PM4.5 Horizon tal integrati on	Demonstrate correct assessment of muscle strength and range of movements			
PM6.1 Horizon tal integrati on	Perform and demonstrate a clinical examination of sensory and motor deficits of peripheral nerve			
CT1.5	Elicit, document and present an appropriate medical history that includes risk factor, contacts, symptoms including cough and fever CNS and other manifestations			
CT1.6	Demonstrate and perform a systematic examination that establishes the diagnosis based on the clinical presentation that includes a a) general examination, b) examination of			

	the chest and lung including loss of volume, mediastinal shift, percussion and auscultation (including DOAP session of lung sounds and added sounds) c) examination of the lymphatic system and d) relevant CNS examination			
CT1.7	Perform and interpret a PPD (mantoux) and describe and discuss the indications and pitfalls of the test			
CT1.10	Perform and interpret an AFB stain			
CT1.11	Assist in the performance, outline the correct tests that require to be performed and interpret the results of a pleural fluid aspiration			
CT1.15	Prescribe an appropriate antituberculosis regimen based on the location of disease, smear positivity and negativity and co- morbidities based on current national guidelines including directly observed tuberculosis therapy (DOTS)			
CT1.17	Define criteria for the cure of Tuberculosis; describe and recognise the features of drug resistant tuberculosis, prevention and therapeutic regimens			
CT1.18	Educate health care workers on National Program of Tuberculosis and administering and monitoring the DOTS program			
CT1.19	Communicate with patients and family in an empathetic manner about the diagnosis, therapy			

CT2.8	Elicit document and present a medical history that will			
	differentiate the aetiologies of obstructive airway disease, severity and precipitants			
CT2.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology			
CT2.11	Describe, discuss and interpret pulmonary function tests			
CT2.12	Perform and interpret peak expiratory flow rate			
CT2.13	Describe the appropriate diagnostic work up based on the presumed aetiology			
CT2.14	Enumerate the indications for and interpret the results of : pulse oximetry, ABG, Chest Radiograph			
CT2.15	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology			
CT2.18	Develop a therapeutic plan including use of bronchodilators and inhaled corticosteroids			
CT2.19	Develop a management plan for acute exacerbations including bronchodilators, systemic steroids, antimicrobial therapy			
CT2.21	Describe discuss and counsel patients appropriately on smoking cessation			
CT2.22	Demonstrate and counsel patient on the correct use of inhalers			

CT2.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients			
CT2.9	Perform a systematic examination that establishes the diagnosis and severity that includes measurement of respiratory rate, level of respiratory distress, effort tolerance, breath sounds, added sounds, identification of signs of consolidation pleural effusion and pneumothorax			
DR5.2	Identify and differentiate scabies from other lesions			
DR6.2	Identify and differentiate pediculosis from other skin lesions			
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency			
AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates			
PS14.2	Enumerate, elicit, describe and document clinical features in patients with psychiatric disorders occurring in childhood and adolescence			
PS14.4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescence in a simulated environment			
PS15.3	Elicit and document a history and clinical examination and choose appropriate			

	investigations in a patient with mental retardation			
OG18.2	Demonstrate the steps of neonatal resuscitation in a simulated environment			
PM3.4	Demonstrate spasticity, rigidity and dystonia in children with cerebral palsy			
PS1.1	Establish rapport and empathy with patients			
PS1.3	Demonstrate breaking of bad news in a simulated environment			
PS1.4	Describe and demonstrate the importance of confidentiality in patient encounters			
PS3.3	Elicit, present and document a history in patients presenting with a mental disorder			
PS3.4	Describe the importance of establishing rapport with patients			
PS3.5	Perform, demonstrate and document a minimental examination			
PS3.9	Describe the steps and demonstrate in a simulated environment family education in patients with organic psychiatric disorders			
PS4.2	Elicit, describe and document clinical features of alcohol and substance use disorders			
PS4.3	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse			

	disorders			
PS4.5	Demonstrate family education in a patient with alcohol and substance abuse in a simulated environment			
PS5.2	Enumerate, elicit, describe and document clinical features, positive s			
PS5.4	Demonstrate family education in a patient with schizophrenia in a simulated environment			
PS6.2	Enumerate, elicit, describe and document clinical features in patients with depression			
PS6.3	Enumerate and describe the indications and interpret laboratory and other tests used in depression			
PS6.5	Demonstrate family education in a patient with depression in a simulated environment			
PS7.2	Enumerate, elicit, describe and document clinical features in patients with bipolar disorders			
PS7.3	Enumerate and describe the indications and interpret laboratory and other tests used in bipolar disorders			
PS7.5	Demonstrate family education in a patient with bipolar disorders in a simulated environment			

PS8.2	Enumerate, elicit, describe and document clinical features in patients with anxiety disorders			
PS8.3	Enumerate and describe the indications and interpret laboratory and other tests used in anxiety disorders			
PS8.5	Demonstrate family education in a patient with anxiety disorders in a simulated environment			
PS9.2	Enumerate, elicit, describe and document clinical features in patients with stress related disorders			
PS9.3	Enumerate and describe the indications and interpret laboratory and other tests used in stress related disorders			
PS9.5	Demonstrate family education in a patient with stress related disorders in a simulated environment			
PS10.2	Enumerate, elicit, describe and document clinical features in patients with somatoform, dissociative and conversion disorders			
PS10.3	Enumerate and describe the indications and interpret laboratory and other tests used in somatoform, dissociative and conversion disorders			
PS10.5	Demonstrate family education in a patient with somatoform, dissociative and conversion disorders in a			

	simulated environment			
PS11.2	Enumerate, elicit, describe and document clinical features in patients with personality disorders			
PS11.3	Enumerate and describe the indications and interpret laboratory and other tests used in personality disorders			
PS11.5	Demonstrate family education in a patient with personality disorders in a simulated environment			
PS12.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosomatic disorders			
PS12.3	Enumerate and describe the indications and interpret laboratory and other tests of psychosomatic disorders			
PS12.5	Demonstrate family education in a patient with psychosomatic disorders in a simulated environment			
PS13.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosexual and gender identity disorders			
PS13.3	Enumerate and describe the indications and interpret laboratory and other tests used in psychosexual and gender identity disorders			

PS13.5	Demonstrate family education in a patient with psychosexual and gender identity disorders in a simulated environment			
PS14.2	Enumerate, elicit, describe and document clinical features in patients with psychiatric disorders occurring in childhood and adolescence			
PS14.4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescence in a simulated environment			
PS15.3	Elicit and document a history and clinical examination and choose appropriate investigations in a patient with mental retardation			
PS16.4	Demonstrate family education in a patient with psychiatric disorders occurring in the elderly in a simulated environment			
PH5.6	Demonstrate ability to educate public & patients about various aspects of drug use including drug dependence and OTC drugs.			
IM17.1 4	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy			
IM24.2	Perform multidimensional geriatric assessment that includes medical,			

	psycho-social and functional components			
DR1.2	Identify and grade the various common types of acne			
DR3.1	Identify and distinguish psoriatic lesions from other causes			
DR3.2	Demonstrate the grattage test			
DR4.1	Identify and distinguish lichen planus lesions from other causes			
DR5.2	Identify and differentiate scabies from other lesions in adults and children			
DR6.2	Identify and differentiate pediculosis from other skin lesions in adults and children			
DR7.2	Identify Candida species in fungal scrapings and KOH mount			
DR8.2	Identify and distinguish herpes simplex and herpes labialis from other skin lesions			
DR8.3	Identify and distinguish herpes zoster and varicella from other skin lesions			
DR8.4	Identify and distinguish viral warts from other skin lesions			
DR8.5	Identify and distinguish molluscum contagiosum from other skin lesions			
DR8.6	Enumerate the indications, describe the procedure and perform a Tzanck smear			
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an			

	appropriate neurologic examination			
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations			
DR10.2	Identify spirochete in a dark ground microscopy			
DR10.5	Counsel in a non-judgemental and empathetic manner patients on prevention of sexually transmitted disease			

General Medicine

Subject: General Medicine

Third Year MBBS

Sub Item: Theory lectures/ Clinical postings/Tutorials/seminars/self directed learning/ Electives

Sr. No	Description	Dat	tes	Attendance	Status	Signature of
		From	То	percentage	Complete/ Incomplete	Teacher
1	Theory lectures					
2	Clinical postings					
3	AETCOM Module					
4.	Electives					
5	Vertical Integraon					

Final Summary

6	Extracurricular activities			
7	Sports /Physical Education			