Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/SH/ P		Suggested Teaching Learning Methods	Suggested Assessment methods		Vertical Integrati on	Horizont al Integrati on
			OLOGY						
	roduction to Pathology Number of cor					nber of proce	dures tha	t require	certificatio
PA1.1	Describe the role of a pathologist in diagnosis and management of disease	K	K	Υ	Departmental Orientation	Written/ Viva voce			
1.1.1	At the end of session, phase II M.B.B.S student must be able to discuss briefly role of a pathologist in								
1.1.2	At the end of session, phase II M.B.B.S student must be able to discuss briefly the role of a pathologist in management of disease.								
PA 1.2	Enumerate common definitions and terms used in Pathology	К	К	Υ	Lecture, Small group discussion	Written/ Viva voce			
1.2.1	At the end of session, phase II M.B.B.S student must be able to Define Correctly common terms like etiology, pathogenesis, complications, prognosis.								
PA1.3	Describe the history and evolution of Pathology	К	К	N	Lecture, Small group discussion	Written/ Viva voce			
1.3.1	At the end of session, phase II M.B.B.S student should be able to describe briefly history and evolution of								
Topic: Ce	Il Injury and Adaptation Number of competencies	:(08)	Numbe	er of pr	ocedures that req	uire certifica	tion : (NIL	)	
PA2.1	Demonstrate knowledge of the causes, mechanisms, types and effects of cell injury and their clinical significance	К	КН	Υ	Lecture, Small group discussion	Written/ Viva voce			
2.1.1	At the end of session, phase II M.B.B.S student must be able to Correctly enumerate various causes of cell injury.								
2.1.2	At the end of session, phase II M.B.B.S student must be able to briefly discuss various causes of cell injury. At the end of session, phase II M.B.B.S student must								
2.1.3	At the end of session, phase II M.B.B.S student must be able to discuss accurately effects of various At the end of session, phase II M.B.B.S student must								
2.1.4 PA2.2	be able to discuss In detail mechanism of injury of cell  Describe the etiology of cell injury. Distinguish	K	КН	Υ	Lecture, Small	Written/			
PAZ.Z	between reversible-irreversible injury: mechanisms: morphology of cell injury	K	КП	r	group discussion	-			
2.2.1	At the end of session, phase II M.B.B.S student must be able to describe mechanism of reversible cell injury correctly.								

	Tarif I I HAADDS I I I	1	1	1		ı	1	
2.2.2	At the end of session, phase II M.B.B.S student must							
	be able to discuss Correctly events leading to							
	irreversible cell injury.							
2.2.3								
	At the end of session, phase II M.B.B.S student must							
	be able to accurately differentiate between							
	mechanism of reversible and irreversible cell injury							
2.2.4	At the end of session, phase II M.B.B.S student must							
	be able to enumerate correctly biochemical changes							
PA2.3	Intracellular accumulation of fats, proteins,	K	КН	Υ	Lecture, Small	Written/		
. , .2.0	carbohydrates, pigments	.,		1	group discussion			
	carbonyaraces, pigments				group discussion	VIVA VOCC		
2.3.1	At the end of session, phase II M.B.B.S student must			+				
2.3.1								
	be able to enumerate correctly causes of intracellular							
	accumulation of fat.							
2.3.2	At the end of session, phase II M.B.B.S student must							
	be able to enumerate correctly causes of intracellular							
	accumulation of protein.							
2.3.3	At the end of session, phase II M.B.B.S student must							
	be able to enumerate correctly causes of intracellular							
	accumulation of carbohydrates.							
2.3.4	At the end of session, phase II M.B.B.S student must							
	be able to enumerate accurately causes of intracellular							
	accumulation of pigments.							
2.3.5	At the end of session, phase II M.B.B.S student must			1				
2.3.3	be able to discuss briefly various types of pigment							
	accumulation in health and disease.							
2.2.6								
2.3.6	At the end of session, phase II M.B.B.S student must							
	be able to describe accurately etiopathogenesis and							
	morphology of fatty liver.			-				
2.3.7	At the end of session, phase II M.B.B.S student must							
	be able to briefly discuss causes of intracellular and							
	extracellular hyaline deposits.							
PA2.4	Describe and discuss Cell death- types, mechanisms,	K	KH	Υ	Lecture, Small	Written/		
	necrosis, apoptosis (basic as contrasted with necrosis),				group discussion	Viva voce		
	autolysis							
2.4.1	At the end of session, phase II M.B.B.S student must							
	be able to enumerate and discuss correctly types of							
	cell death.							
2.4.2	At the end of session, phase II M.B.B.S student must							
	be able to define Necrosis correctly							
2.4.3	as asia to define records correctly		1	1				
2.4.3	At the end of session, phase II M.B.B.S student must							
2.4.4	be able enlist different types of necrosis correctly.			<u> </u>	-			
2.4.4								
	At the end of session, phase II M.B.B.S student must							
	be able to discuss briefly the pathogenesis of necrosis.							
2.4.5	At the end of session, phase II M.B.B.S student must							
	be able to describe in detail morphology of different							
	types of necrosis.		<u> </u>					

	Tariff I I II		1	1	1	ı			
2.4.6	At the end of session, phase II M.B.B.S student must								
	be able to discuss in detail pathogenesis and								
_	morphology of apoptosis.			-					
2.4.7	At the end of session, phase II M.B.B.S student must								
	be able to correctly differentiate between apoptosis								
	and necrosis.			-					
2.4.8	At the end of session, phase II M.B.B.S student must								
	be able to define autolysis precisely.								
2.4.9	At the end of session, phase II M.B.B.S student must								
	be able to explain mechanism of autolysis with								
	examples.								
PA2.5	Describe and discuss pathologic calcifications,	K	KH	Υ	Lecture, Small	Written/			
	gangrene				group discussion	Viva voce			
2.5.1	At the end of session, phase II M.B.B.S student must								
	be able to define calcification acuurately.								
2.5.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly different types of								
	calcification.	<u> </u>							
2.5.3									
	At the end of session, phase II M.B.B.S student must								
	be able to correctly describe pathogenesis and								
	morphology of different types of calcification.								
2.5.4	At the end of session, phase II M.B.B.S student must								
	be able to define gangrene correctly.								
2.5.5	At the end of session, phase II M.B.B.S student must								
	be able discuss briefly types of gangrene.								
2.5.6	At the end of session, phase II M.B.B.S student must								
	be able to describe correctly pathogenesis of different								
	types of gangrene with examples.								
2.5.7	At the end of session, phase II M.B.B.S student must								
	be able to correctly differentiate between dry and wet								
	gangrene.								
PA2.6	Describe and discuss cellular adaptations: atrophy,	K	KH	Υ	Lecture, Small	Written/			
	hypertrophy, hyperplasia, metaplasia, dysplasia				group discussion	Viva voce			
2.6.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define cellular adaptation correctly.								
2.6.2	At the end of session, phase II M.B.B.S student must								
	be able to enumerate and define various cellular								
	adaptations with examples								
2.6.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly causes and pathogenesis of								
	various cellular adaptations.								
2.6.4		1							
	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly clinical significance of								
	different types of cellular adaptations.								
		ı	l .		1	l .	1	l	l .

		1		1		1	1	
2.6.5	ALL LES LE HAARRES LE LE							
	At the end of session, phase II M.B.B.S student must							
	be able to differentiate between different types of							
	cellular adaptations with appropriate examples.							
PA2.7	Describe and discuss the mechanisms of cellular aging	K	KH	Υ	Lecture, Small	Written/		
	and apoptosis				group discussion	Viva voce		
274								
2.7.1	At the end of energy where HAADDC student mount							
	At the end of session, phase II M.B.B.S student must							
2.7.2	be able to discuss briefly mechanism of cell aging.							
2.7.2	At the end of session, phase II M.B.B.S student must							
	be able to discuss precisely cell cycle and role of							
DA 2.0	telomeres in cellular ageing.	C	CII	N.I.	DOAD	CI-:II		
PA2.8	Identify and describe various forms of cell injuries,	S	SH	N	DOAP session	Skill		
	their manifestations and consequences in gross and					assessment		
	microscopic specimens							
		-						
201								
2.8.1	At the end of consists where HAADDC student should							
	At the end of session, phase II M.B.B.S student should be able to identify and describe correctly morphology							
2.8.2	(gross and microscopic) of coagulative necrosis.	-						
2.0.2	At the end of session, phase II M.B.B.S student should							
	be able to correctly Identify and describe morphology							
	(gross and microscopic) of liquefactive necrosis.							
2.8.3	(gross and microscopic) or inqueractive necrosis.							
2.0.5	At the end of session, phase II M.B.B.S student should							
	be able to correctly Identify and describe morphology							
	(gross and microscopic) of caseous necrosis.							
2.8.4	(Bross and microscopic) of cascoas ficerosis.							
	At the end of session, phase II M.B.B.S student should							
	be able to correctly Identify and describe morphology							
	(gross and microscopic) of fat necrosis.							
2.8.5	10							
	At the end of session, phase II M.B.B.S student should							
	be able to correctly Identify and describe morphology							
	(gross and microscopic) of fibrinoid necrosis.							
2.8.6	At the end of session, phase II M.B.B.S student should							
	be able to correctly Identify and describe morphology		1					
	of apoptosis.							
2.8.7	At the end of session, phase II M.B.B.S student should							
	be able to correctly Identify and describe morphology		1					
	of specimen of gangrene.							
2.8.8								
	At the end of session, phase II M.B.B.S student should		1					
	be able to correctly identify and describe morphology		1					
	of specimens of hypertrophy, atrophy, hyperplasia.	<u> </u>						
2.8.9			1					
	At the end of session, phase II M.B.B.S student should		1					
	be able to describe briefly morphology (gross and		1					
	microscopic) of calcification with relevant stains.							

2.8.10	At the end of session, phase II M.B.B.S student should								
	be able to briefly describe morphology (gross and								
	microscopic) of intracellular accumulation of fat with								
	relevant stains.								
2.8.11	At the end of session, phase II M.B.B.S student should								
	be able to briefly describe morphology (gross and								
	microscopic) of intracellular accumulation of hyaline								
2.8.12	At the end of session, phase II M.B.B.S student should								
	be able to briefly describe morphology (gross and								
	microscopic) of intracellular accumulation of protein								
Topic: Infla		tencies: (02	2)		Number of	procedures t	that requir	e certifica	tion: (NIL)
•	Describe the pathogenesis and pathology of	K	кн	Υ	Lecture, Small	Written/			, ,
	amyloidosis				group discussion	Viva voice			
3.1.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define and classify Amyloidosis precisely.								
	At the end of session, phase II M.B.B.S student must								
	be able to describe correctly the physical & chemical								
	characteristics of amyloid.								
	At the end of session, phase II M.B.B.S student must								
	be able to describe briefly the etiopathogenesis of								
	different types of amyloid.								
	At the end of session, phase II M.B.B.S student must								
	be able to correctly differentiate between primary and								
	secondary amyloid.								
PA3.2	Identify and describe amyloidosis in a pathology	S	SH	N	DOAP session	Skill			
	specimens					assesment			
2.2.4	At the end of consists where HAADD Control and the cold			-					
3.2.1	At the end of session, phase II M.B.B.S student should								
	be able to discuss correctly staining characteristics of								
3.2.2	amyloid.								
3.2.2	At the and of session where U.M.D.D.C. student should								
	At the end of session, phase II M.B.B.S student should								
	be able to correctly Identify and describe the gross &								
3.2.3	microscopic finding of amyloidosis of Kidney.	-		1			-	-	
	At the end of session, phase II M.B.B.S student should								
	be able to identify and describe the gross &								
	microscopic findings of amyloidosis of Spleen correctly.								
3.2.4	interestable intumes of arryloldosis of spiceri correctly.			1	<del> </del>		1		
J.4. <del>4</del>	At the end of session, phase II M.B.B.S student should								
	be able to identify and describe the gross &								
	microscopic finding of amyloidosis of Heart correctly.								
3.2.5	and establish intering of unityloidosis of ficult coffectly.			1			1	<del>                                     </del>	
	At the end of session, phase II M.B.B.S student should								
	be able to identify and describe the gross &								
	microscopic findings of amyloidosis of Lung correctly.								
	At the end of session, phase II M.B.B.S student should			1			1	<del>                                     </del>	
	be able to accurately discuss the diagnosis of								
	amyloidosis.								
	ammation Number of competencie	s· (04)	1	1	Number o	f procedures	that recu	ires certifi	cation: (N
					Mullipel 0				

PA4.1	Define and describe the general features of acute and	K	кн	v	Lecture, Small	Written/	General	
174.1	chronic inflammation including stimuli, vascular and	IX.	Kii		group discussion		Surgery	
	cellular events				group discussion	VIVA VOCC	Juigery	
4.1.1	At the end of session, phase II M.B.B.S student must							
4.1.2	At the end of session, phase II M.B.B.S student must be							
	able to correctly enumerate types of inflammation							
4.1.3	At the end of session, phase II M.B.B.S student must							
	be able to enumerate correctly cardinal signs of Acute							
4.1.4	Inflammation At the end of session, phase II M.B.B.S student must				+			
4.1.4	be able to discuss pathogenesis of acute inflammation							
	in detail.							
4.1.5	At the end of session, phase II M.B.B.S student must							
	be able to discuss briefly causes of Acute Inflammation.							
4.1.6	At the end of session, phase II M.B.B.S student must							
	be able to appropriately describe microscopic changes							
	characteristic of acute inflammation							
4.4.7	At the and of accion where HAADDC student worth		1					
4.1.7	At the end of session, phase II M.B.B.S student must be able to discuss in detail vascular events in acute							
	inflammation							
4.1.8	At the end of session, phase II M.B.B.S student must				1			
	be able to discuss In detail cellular events in acute							
	inflammation.							
4.1.9	At the end of session, phase II M.B.B.S student must							
	be able to define chemotaxis, phagocytosis,							
	opsonisation precisely.							
PA4.2	Enumerate and describe the mediators of acute	K	KH	Υ	Lecture, Small	Written/	General	
	inflammation				group discussion	Viva voce	Surgery	
4.2.1	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate chemical Mediators of							
	inflammation.							
4.2.2	At the end of session, phase II M.B.B.S student must							
	be able to describe appropriately role of important							
	chemical mediators of inflammation							
4.2.3	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate sequelae and outcome							
PA4.3	of acute inflammation  Define and describe chronic inflammation including	K	KH	Υ	Lecture, Small	Written/		
PA4.3		K	KΠ	1	i	l		
	causes, types, non-specific, granulomatous, enumerate examples of each				group discussion	viva voce		
	Chambres of Cach							
4.3.1								
	At the end of session, phase II M.B.B.S student must							
	be able to define chronic inflammation precisely							
4.3.2	At the end of session, phase II M.B.B.S student must							1
	be able to discuss in brief the types of chronic							
	inflammation							

4.3.3	At the end of session, phase II M.B.B.S student must								
	be able to describe in detail pathogenesis of chronic inflammation.								
4.3.4	At the end of session, phase II M.B.B.S student must								
4.3.4	be able to discuss appropriately characteristics of								
	chronic inflammation.								
4.3.5	At the end of session, phase II M.B.B.S student must								
4.3.3	be able to briefly describe microscopic features of non-								
	specific chronic Inflammation								
4.3.6	At the end of session, phase II M.B.B.S student must								
4.5.0	be able to define granuloma precisely.								
4.3.7	ac date to define grandienia precisely.								
	At the end of session, phase II M.B.B.S student must								
	be able to discuss granulomatous Inflammation with								
	appropriately relevant examples								
4.3.8									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss accurately gross and microscopic								
	features of granulomatous inflammation.								
PA4.4	Identify and describe acute and chronic inflammation	S	SH	Υ	DOAP session	Skill			
	in gross and microscopic specimens Lower level					ass.ment			
4.4.1	At the end of session, phase II M.B.B.S student must								
	be able to identify and describe the gross and								
	microscopic features of acute inflammation in a								
4.4.2	At the end of session, phase II M.B.B.S student should								
	be able to identify and describe the gross and								
	microscopic features of chronic inflammation in a								
	specimen and slide of chronic cholecystitis								
4.4.3	At the end of session, phase II M.B.B.S student should								
	be able to identify and gross and microscopic features								
	of granulomatous inflammation in a specimen and								
	hitopathology slide of Tuberculosis of lymph node.								
4.4.4	At the end of session, phase II M.B.B.S student should								
	be able to discuss gross and microscopic features of								
	granulomatous inflammation in a specimen and slide								
	of Tuberculosis of lung.								
	aling and repair Number of competer	<del>_ ` ´</del>				ber of proced	lure that r		tification:
PA5.1	Define and describe the process of repair and	K	KH	Υ	Lecture, Small	Written/		General	
	regeneration including wound healing and its types				group discussion	Viva voce		Surgery	
		-							
5.1.1	At the end of engine where HAADDC at the								
	At the end of session, phase II M.B.B.S student must								
F 4 2	be able to define precisely regeneration and repair.								
5.1.2	At the end of session, phase II M.B.B.S student must								
	be able to classify tissues on basis of proliferative								
F 1 3	capacity correctly.	1		1					
5.1.3	At the end of session, phase II MADD Catudent								
	At the end of session, phase II M.B.B.S student must be able to discuss accurately steps of wound healing.								
	be able to discuss accurately steps of would flediling.		<u> </u>	<u> </u>	l				

F 4 4	<u></u>		1				1	1	
5.1.4	ALUE ACCUSE A MAARRON ACCUSE AND ACCUSE ACCUSE AND ACCUSE								
	At the end of session, phase II M.B.B.S student must								
	be able to discuss accurately steps of fracture healing.								
5.1.5									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly types of wound healing.								
5.1.6	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly factors affecting wound								
	and fracture healing .								
5.1.7	At the end of session, phase II M.B.B.S student must								
	be able to correctly differentiate between healing by								
	primary and secondary intention.								
5.1.8	At the end of session, phase II M.B.B.S student must								
	be able to enumerate correctly the complications and								
	outcome of repair .								
Topic: He	modynamic disorders Nu	umber of co	mpetencie	s: (07)	Numb	er of proced	ures that r	equires ce	ertification
PA6.1	Define and describe edema, its types, pathogenesis	K	KH	Υ	Lecture, Small	Written/		Gen	
	and clinical correlations				group discussion	Viva voce		Medicin	
								e	
6.1.1	At the end of session, phase II M.B.B.S student must								
	be able to discuss physiology of hemodynamics								
6.1.2	At the end of session, phase II M.B.B.S student must								
	be able to define Oedema precisely.								
6.1.3	At the end of session, phase II M.B.B.S student must								
	be able to describe accurately pathogenesis of								
	oedema.								
6.1.4	At the end of session, phase II M.B.B.S student must								
	be able to correctly describe different types of								
	oedema.								
6.1.5	At the end of session, phase II M.B.B.S student must								
	be able to correctly differentiate between transudate								
	and exudate.								
PA6.2	Define and describe hyperemia, congestion,	K	KH	Υ	Lecture, Small	Written/			
	hemorrhage				group discussion	Viva voce			
					0 1				
6.2.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define hyperemia and congestion precisely.								
6.2.2	, production production			1					
0.2.2	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe hyperemia with examples.								
6.2.3	At the end of session, phase II M.B.B.S student must	<u> </u>							
0.2.3	be able to discuss appropriately The pathophysiology								
	of congestion.								
6.2.4	or congestion.	+		+	+				
0.2.4	At the end of session, phase II M.B.B.S student must								
	- I								
	be able to briefly describe gross and microscopic								
6.2.5	findings of congestion in various organs.  At the end of session, phase II M.B.B.S student must	1							
6.2.5									
<u> </u>	be able to define hemorrhage accurately	1	1						

6.2.6		1				1		1
0.2.0	At the end of session, phase II M.B.B.S student must							
	be able to briefly discuss the causes of hemorrhage.							
PA6.3		K	КН	Υ	Locture Small	Written/Viv	Genera	.t
PA6.3	Define and describe shock, its pathogenesis and its	K	KIT	ľ	Lecture, Small	•		
	stages				group discussion	a voce	Surger	<b>/</b>
6.3.1	At the end of session, phase II M.B.B.S student must							
0.5.1	be able to define and classify shock on basis of							
	etiology correctly.							
6.3.2	At the end of session, phase II M.B.B.S student must							+
0.5.2	be able to discuss the pathogenesis of different types							
	of shock in detail.							
6.3.3	At the end of session, phase II M.B.B.S student must							
0.3.3	be able to describe correctly the effects and							
	pathogenesis of different stages of shock.							
6.3.4	At the end of session, phase II M.B.B.S student must							
0.3.4	be able to correctly describe morphological changes							
	of shock in various organs.							
PA6.4	Define and describe normal haemostasis and the	K	KH	Υ	Lecture, Small	Written/		
FA0.4	etiopathogenesis and consequences of thrombosis	K	KII	ľ	group discussion	•		
	etiopatriogenesis and consequences of thrombosis				group discussion	viva voce		
6.4.1	At the end of session, phase II M.B.B.S student must							
0.4.1	be able to describe normal haemostasis							
	be able to describe normal nacinostasis							
	(Lower level of learning for this							
6.4.2	At the end of session, phase II M.B.B.S student must							
	be able to define thrombus correctly.							
6.4.3	At the end of session, phase II M.B.B.S student must							
	be able to discuss the pathophysiology of thrombus							
	formation accurately.							
6.4.4	At the end of session, phase II M.B.B.S student must							
	be able to correctly differentiate between arterial and							
	venous thrombus.							
6.4.5								
	At the end of session, phase II M.B.B.S student must							
	be able to discuss fate of thrombus correctly.							
6.4.6	At the end of session, phase II M.B.B.S student must							
	be able to correctly differentiate between							
	antemortem and postmortem clot.							
PA6.5	Define and describe embolism and its causes and	К	KH	Υ	Lecture, Small	Written/		
	common types				group discussion	Viva voce		
6.5.1	At the end of session, phase II M.B.B.S student must							
	be able to define embolism precisely.							
6.5.2	At the end of session, phase II M.B.B.S student must							
	be able to enumerate correctly different types of							
	emboli.							
6.5.3								
	At the end of session, phase II M.B.B.S student must							
	be able to define Thromboembolism precisely							

C F 4	At the end of session, phase II M.B.B.S student must				1	1	1	
6.5.4								
	be able to enumerate examples of of arterial, venous							
	thromboemboli correctly.							
6.5.5	At the end of session, phase II M.B.B.S student must							
	be able to define pulmonary thromboembolism							
	precisely.							
6.5.6								
	At the end of session, phase II M.B.B.S student must							
	be able to discuss briefly the etiopathogenesis of							
	pulmonary thromboembolism.							
C F 7	At the end of session, phase II M.B.B.S student must	1	1					
6.5.7	· ·							
	be able to discuss the consequences of pulmonary							
	thromboembolism accurately.							
6.5.8	At the end of session, phase II M.B.B.S student must							
	be able to briefly discuss- fat embolism.							
6.5.9								1
	At the end of session, phase II M.B.B.S student must							
	be able to briefly discuss amniotic fluid embolism.							
6.5.10	·							
	At the end of session, phase II M.B.B.S student must							
	be able to discuss decompression sickness briefly.							
DACC		K	KH	Υ	Lastura Craall	Written/		
PA6.6	Define and describe Ischaemia/Infarction its types,	K	КП	Y	Lecture, Small	,		
	etiology, morphologic changes and clinical effects				group discussion	viva voce		
6.6.1								
	At the end of session, phase II M.B.B.S student must							
	be able to define Ischaemia and infarction precisely.							
6.6.2	At the end of session, phase II M.B.B.S student must							
	be able to enumerate causes of Ischaemia and							
	infarction with examples correctly.							
6.6.3	At the end of session, phase II M.B.B.S student must							
0.0.5	be able to discuss accurately factors attributing to							
	-							
	severity of ischaemic injury.							
6.6.4								
	At the end of session, phase II M.B.B.S student must							
	be able to briefly describe changes in different organs.							
PA6.7	Identify and describe the gross and microscopic	S	SH	Υ	DOAP session	Skill		
	features of infarction in a pathologic specimen					Assessment		
				$\perp$				
6.7.1								
	At the end of session, phase II M.B.B.S student should							
	be able to identify and describe gross and microscopic							
	changes in infarction of the heart accurately.							
6.7.2	onanges in interestori of the ficult accurately.	1	1	+				
0.7.2	At the end of session phase II MAR R S student should							
	At the end of session, phase II M.B.B.S student should							
	be able to identify and describe gross and							
	microscopic changes in lung infarction accurately.		1	ļ				
6.7.3								
	At the end of session, phase II M.B.B.S student should							
	be able to identify and describe gross and microscopic							
	changes in kidney infarction accurately.							
		•	•		•		•	

6.7.4				I	1	ı	l		
6.7.4	At the end of engine where HAADD Cotudent thould								
	At the end of session, phase II M.B.B.S student should								
	be able to identify and describe gross and microscopic								
	changes in brain infarction accurately.	<u> </u>	l	(05)					
		mber of co		·		nber of proce	dures tha	t require o	ertificatio
PA7.1	Define and classify neoplasia. Describe the	K	KH	Υ	Lecture, Small	Written/			
	characteristics of neoplasia including gross,				group discussion	Viva voce			
	microscopy, biologic, behavior and spread.								
	Differentiate between benign from malignant								
	neoplasm								
7.1.1	At the end of session, phase II M.B.B.S student must								
	be able to Define neoplasia precisely.								
7.1.2	At the end of session, phase II M.B.B.S student must								
	be able to classify neoplasia correctly.			ļ					
7.1.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly gross and microscopic								
	features of various tumors								
7.1.4	At the end of session, phase II M.B.B.S student must								
	be able to briefly Describe behavior and characteristics								
	of various tumors.								
7.1.5									
	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe spread of various tumors								
7.1.6	At the end of session, phase II M.B.B.S student must								
	be able to accurately differentiate between benign								
	and malignant neoplasms.								
PA7.2	Describe the molecular basis of cancer	K	KH	Υ	Lecture, Small	Written/			
					group discussion	Viva voce			
7.2.1	At the end of session, phase II M.B.B.S student must								
	be able to discuss the theory of carcinogenesis in								
	detail.								
7.2.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss the basic concept of molecular								
	carcinogenesis in detail.								
7.2.3	At the end of session, phase II M.B.B.S student must								
	be able to define and describe molecular hallmarks of								
	cancer correctly.								
7.2.4	At the end of session, phase II M.B.B.S student must								
	be able to enumerate various growth promoting								
	oncogenes accurately	1							
7.2.5					1				
	At the end of session, phase II M.B.B.S student must				1				
	be able to describe the mechanism of action of various				1				
	growth promoting oncogenes with appropriate				1				
	examples of associated human tumors.								
7.2.6	At the end of session, phase II M.B.B.S student must				1				
	be able to enumerate and describe tumor suppressor				1				
	genes correctly.								

7.2.7									
	At the end of session, phase II M.B.B.S student must								
	be able to describe the mechanism of action of various								
	tumor suppressor genes with appropriate examples of								
	associated human tumors		1411						
PA7.3	Enumerate carcinogens and describe the process of	K	KH	Υ	Lecture, Small	Written/			
	carcinogenesis				group discussion	viva voce			
7.3.1	At the end of session, phase II M.B.B.S student must								
	be able to correctly enumerate various carcinogens.								
7.3.2	At the end of session, phase II M.B.B.S student must								
7.5.2	be able to enumerate and discuss in detail the stages								
	in carcinogenesis.								
7.3.3									
	At the end of session, phase II M.B.B.S student must								
	be able to describe process of carcinogenesis in detail.								
PA7.4	Describe the effects of tumor on the host including	K	KH	Υ	Lecture, Small	Written/			
	paraneoplastic syndrome				group discussion	Viva voce			
7.4.1	At the end of session, phase II M.B.B.S student must								
	be able to correctly describe the clinical, local and								
	systemic effects of tumor on host.								
7.4.2									
	At the end of session, phase II M.B.B.S student must								
	be able to define precisely paraneoplastic syndromes.								
7.4.3	At the end of session, phase II M.B.B.S student must								
	be able to enumerate various paraneoplastic								
	syndromes correctly.								
7.4.4	At the end of session, phase II M.B.B.S student must								
	be able to briefly discuss the mechanism of various								
	paraneoplastic syndromes.								
7.4.5	At the end of session, phase II M.B.B.S student must								
	be able to briefly discuss various clinical syndromes								
	with associated underlying cancer.								
PA7.5	Describe immunology and the immune response to	K	KH	Υ	Lecture, Small	Written/			Microbiol
	cancer				group discussion	Viva voce			ogy
7.5.4									
7.5.1	At the end of session where HAAR D.C. student								
	At the end of session, phase II M.B.B.S student must be able to discuss briefly cell survival of tumor cells.								
7.5.2	At the end of session, phase II M.B.B.S student must			-	+				
7.5.2	be able to accurately describe immune evading								
	mechanisms of tumor cells.								
Topic : B	asic diagnostic cytology Number of comp	etencies: (	03)		Nun	l ber of proce	dures tha	t requires	certificatio
PA8.1	Describe the diagnostic role of cytology and its	K	KH	Υ	Lecture, Small	Written/		Gen Surg	
. , .0.2	application in clinical care				group discussion			200318	
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8.1.1									
	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the procedure of FNAC.								
8.1.2									
	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate the advantages of FNAC.								
8.1.3	able to correctly enumerate the advantages of Fivice.								
0.1.5	At the end of engine where UNAD DC student would be								
	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate the limitations of FNAC.								
PA8.2	Describe the basis of exfoliative cytology including the	K	KH	Υ	Lecture, Small	Written/		Gen	
	techniques & stains used				group discussion	Viva voce		Surg	
8.2.1	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly the role of cytology in								
	diagnosis of disease.								
8.2.2	At the end of session, phase II M.B.B.S student must								
0.2.2	· ·								
	be able to discuss the various techniques of exfoliative								
	cytology briefly.								
8.2.3	At the end of session, phase II M.B.B.S student must								
	be able to enumerate correctly the different stains								
	used in cytology.								
8.2.4	At the end of session, phase II M.B.B.S student must								
	be able to correctly enumerate the steps of PAP								
	staining.								
PA8.3	Observe a diagnostic cytology and its staining and	S	KH	Υ	DOAP Session	Skill			
r A0.5	, ,,	3	KH	l'	DOAF SESSION	Assment			
	interpret the specimen					Assment			
8.3.1	At the end of session, phase II M.B.B.S student must								
	be able to observe and interpret the cytology reports								
	correctly.								
Topic: Im	munopathology and AIDS Number of competencie	es: (07)			Numbe	r of procedur	es that re	quires cer	tification:(
PA9.1	Describe the principles and mechanisms involved in	K	KH	Υ	Lecture, Small	Written/			Microbiol
	immunity				group discussion	Viva voce		s	ogy
					0				- 07
9.1.1	At the end of session, phase II M.B.B.S student must								
9.1.1	* *								
	be able to define immunity and enumerate its types								
	correctly.								
9.1.2									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss the types of immunity correctly.		<u> </u>		<u> </u>			<u> </u>	
9.1.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly various cells of immune								
	system.								
PA9.2	Describe the mechanism of hypersensitivity reactions	K	KH	Υ	Lecture, Small	Written/			Microbiol
173.2	Describe the medianism of hypersensitivity reactions	IX.	IXII		group discussion				
					group discussion	viva voce			ogy
					ļ				
9.2.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define precisely hypersensitivity reactions.		<u> </u>		<u> </u>			<u> </u>	

0.2.2			1		1	1	1	1	1
9.2.2	At the end of engine where UMB B C student mount ha								
	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate and define various types								
	of hypersensitivity reactions with examples.								
9.2.3									
	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the mechanism of various								
	types of hypersensitivity reactions.								
PA9.3	Describe the HLA system and the immune principles	K	KH	Υ	Lecture, Small	Written/			Microbiol
	involved in transplant and mechanism of transplant				group discussion	Viva voce			ogy
	rejection								
9.3.1	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe the HLA system.								
9.3.2	At the end of session, phase II M.B.B.S student must								
	be able to appropriately discuss the immune principles								
	involved in transplant.								
9.3.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss the mechanism of transplant								
	rejection in detail.								
9.3.4									
	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe graft versus host disease.								
PA9.4	Define autoimmunity. Enumerate autoimmune	K	KH	Υ	Lecture, Small	Written/		Gene	
	disorders				group discussion	Viva voce		Med	
0.4.4	At the and of accion where HAM D.D.C. student accept								
9.4.1	At the end of session, phase II M.B.B.S student must								
	be able to define autoimmunity precisely.								
9.4.2	At the end of session, phase II M.B.B.S student must								
	be able to correctly enumerate the various								
	autoimmune disorders.							_	
PA9.5	Define and describe the pathogenesis of systemic	K	KH	Υ	Lecture, Small	Written/		Gene	
	Lupus Erythematosus				group discussion	viva voce		Med	
2 - 4	A								
9.5.1	At the end of session, phase II M.B.B.S student must								
	be able to define systemic Lupus Erythematosus								
	precisely.								
9.5.2	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate the autoantibodies in								
L	Systemic Lupus Erythematosus.			1			1		ļ
9.5.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss accurately the pathogenesis of								
	Systemic Lupus Erythematosus						ļ		
9.5.4									
	At the end of session, phase II M.B.B.S student must			1					
	be able to briefly describe the morphologic changes in								
	various organs in Systemic Lupus Erythematosus.			1					
9.5.5	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly the various stages of severity								
1	of Lupus nephritis.	1			1	l		1	1

PA9.6	Define and describe the pathogenesis and pathology of HIV and AIDS	K	KH	Υ	Lecture, Small group discussion	Written/	Gei Me	_
	or the und Ales				group discussion	VIVA VOCC	IVIC	·ui
9.6.1	At the end of session, phase II M.B.B.S student must							
	be able to define AIDS correctly and describe its epidemiology.							
9.6.2	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1							
510.2	At the end of session, phase II M.B.B.S student must							
	be able to accurately describe the etiology of AIDS.							
9.6.3	At the end of session, phase II M.B.B.S student must be		1			1		
5.0.5	able to correctly enumerate various routes of							
	transmission of AIDS.							
9.6.4	dansinission or Albs.			+				
3.0.4	At the end of session, phase II M.B.B.S student must							
	be able to discuss the pathogenesis of AIDS in detail.							
9.6.5	At the end of session, phase II M.B.B.S student must		+					+
د.ن.د	be able to discuss briefly the clinical manifestations of							
	AIDS.							
9.6.6								
	At the end of session, phase II M.B.B.S student must							
	be able to discuss briefly the lab diagnosis of AIDS.							
9.6.7	At the end of session, phase II M.B.B.S student must							
	be able to discuss accurately the opportunistic							
	infections found in HIV infection							
9.6.8	At the end of session, phase II M.B.B.S student must							
	be able to discuss the neoplasms found in HIV							
	infection correctly.							
PA9.7	Define and describe the pathogenesis of other	K	KH	Υ	Lecture, Small	Written/	Gei	ne
	common autoimmune diseases				group discussion	Viva voce	Me	edi
9.7.1								
9.7.1	At the end of session, phase II M.B.B.S student must							
	be able to Define Sjogren syndrome precisely.					1		
9.7.2	At the end of session, phase II M.B.B.S student must		+			1		
	be able to discuss accurately the etiopathogenesis of							
	Sjogren syndrome.							
9.7.3	At the end of session, phase II M.B.B.S student must		+					
5.7.5	be able to briefly describe the morphology and clinical							
	features of Sjogren syndrome.							
9.7.4	At the end of session, phase II M.B.B.S student must		+					-+
J.7. <del>4</del>	be able to define Scleroderma precisely.					1		
9.7.5	At the end of session, phase II M.B.B.S student must	-	+			+		
3.1.3						1		
	be able to discuss correctly the etiopathogenesis of scleroderma.					1		
9.7.6			+	-		<del>                                     </del>		
9.7.0	At the end of session, phase II M.B.B.S student must					1		
	be able to clinical features and morphology of scleroderma briefly.							
			i	1	1		1	1

PA10.1	Define and describe the pathogenesis and pathology	K	KH	Υ	Lecture, Small	Written/	General	Microbio
	of malaria				group discussion	· ·		ogy
					8 1		е	-87
10.1.1	At the end of session, phase II M.B.B.S student must							
	be able to define malaria precisely and enumerate all							
	causative malarial parasites.							
10.1.2	At the end of session, phase II M.B.B.S student must							
	be able to discuss briefly The life cycle of plasmodium							
	and pathogenesis of malaria.							
10.1.3	At the end of session, phase II M.B.B.S student must							
	be able to describe correctly clinical features of							
	malarial infection.							
10.1.4	At the end of session, phase II M.B.B.S student must							
	be able to discuss various lab findings in malarial							
	infection accurately.							
PA10.2	Define and describe the pathogenesis and pathology	K	KH	Υ	Lecture, Small	Written/	General	Microbio
	of Cysticercosis				group discussion	Viva voce	Medicin	ogy
							е	-
10.2.1	At the and of session whose HAAD D.C. student must							
10.2.1	At the end of session, phase II M.B.B.S student must							
	be able to define cysticercosis precisely and							
10.2.2	enumerate causative agents.	1						
10.2.2	At the end of session, phase II M.B.B.S student must							
	be able to discuss pathogenesis of T. Solium and T.							
40.0.0	saginata infection correctly.	1						
10.2.3	At the end of session, phase II M.B.B.S student must							
	be able to correctly describe morphology and clinical							
D440.2	findings of cysticercosis.	17	1/1.1	v		NA ( *** )	6 1	n a: 1 : 1
PA10.3	Define and describe the pathogenesis and pathology	K	KH	Υ	Lecture, Small	Written/	General	Microbio
	of leprosy				group discussion	Viva voce		ogy
							е	
10.3.1	At the end of session, phase II M.B.B.S student must							
	be able to define Leprosy precisely.							
10.3.2								
	At the end of session, phase II M.B.B.S student must							
	be able to discuss briefly pathogenesis of leprosy.							
10.3.3								
	At the end of session, phase II M.B.B.S student must							
	be able to compare and contrast between tuberculoid							
	and lepromatous leprosy appropriately.							
10.3.4	, PF -F/	<u>†                                      </u>						
	At the end of session, phase II M.B.B.S student must							
	be able to discuss correctly the types of lepra reactions.	.]						
PA10.4	Define and describe the pathogenesis and pathology	K	KH	Υ	Lecture, Small	Written/	General	Microbio
. / (10.7	of common bacterial, viral, protozoal and helminthic	<u> </u>			group discussion	•	Medicin	
	disease				Di Oup alscassion	1100 1300	e	261
	uiscusc						C	

10.4.1	At the end of session, phase II M.B.B.S student must						
	be able to correctly describe pathogenesis and						
	pathology of diphtheria infection.						
10.4.2	At the end of session, phase II M.B.B.S student must						
	be able to correctly describe pathogenesis and						
	pathology of pertussis infection.						
10.4.3	At the end of session, phase II M.B.B.S student must						
	be able to define and describe pathogenesis of syphilis						
	correctly						
10.4.4	At the end of session, phase II M.B.B.S student must						
	be able to discuss stages and associated morphology						
	of syphilis correctly.						
10.4.5	At the end of session, phase II M.B.B.S student must						
	be able to describe briefly pathogenesis and						
	pathology of chlamydial infections.						
10.4.6	At the end of session, phase II M.B.B.S student must						
	be able to discuss briefly pathogenesis and pathology						
	of measles.						
10.4.7	At the end of session, phase II M.B.B.S student must						
	be able to discuss briefly pathogenesis and pathology						
	of mumps						
10.4.8	At the end of session, phase II M.B.B.S student must						
	be able to discuss briefly pathogenesis and pathology						
	of polio virus infection.						
10.4.9	At the end of session, phase II M.B.B.S student must						
	be able to discuss briefly pathogenesis and pathology						
	of zika virus infection.						
10.4.10	At the end of session, phase II M.B.B.S student must						
	be able to discuss correctly pathogenesis and						
	pathology of novel coronavirus infection.						
10.4.11	At the end of session, phase II M.B.B.S student must						
	be able to discuss briefly pathogenesis and pathology						
	of leishmaniasis.						
10.4.12	At the end of session, phase II M.B.B.S student must						
	be able to discuss briefly pathogenesis and pathology						
	of trypanosomiasis.						
10.4.13	At the end of session, phase II M.B.B.S student must						
	be able to discuss briefly pathogenesis and pathology						
	of chagas disease.						
10.4.14	At the end of session, phase II M.B.B.S student must						
	be able to discuss correctly pathogenesis and						
	pathology of Hydatid disease.						
10.4.15	At the end of session, phase II M.B.B.S student must						
	be able to discuss correctly pathogenesis and						
	pathology of schistosomiasis.				1		1
10.4.16	At the end of session, phase II M.B.B.S student must						
	be able to discuss briefly pathogenesis and pathology						
	of filariasis.				1		1
10.4.17	At the end of session, phase II M.B.B.S student must						
	be able to discuss briefly pathogenesis and pathology		1			1	
	of onchocerciasis.						

PA11.1	Describe the pathogenesis and features of common	K	КН	V	Lecture, Small	Written/	Pediatric	
PAII.I		K	КП	ľ	·			
	cytogenetic abnormalities and mutation in childhood				group discussion	viva voce	S	
11.1.1								
11.1.1	At the end of session, phase II M.B.B.S student must							
	•							
	be able to enumerate the common cytogenetic							
	abnormalities and mutation in childhood correctly.							
11.1.2	At the end of session, phase II M.B.B.S student must							
	be able to correctly Describe the genetics and							
	pathogenesis of Down's syndrome.							
11.1.3	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate the clinical features of							
	Down's syndrome.							
11.1.4	At the end of session, phase II M.B.B.S student must							
	be able to correctly describe the genetics and							
	pathogenesis of Turner syndrome.							
11.1.5	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate the clinical features of							
	Turner syndrome.							
11.1.6	At the end of session, phase II M.B.B.S student must							
	be able to correctly describe the genetics and							
	pathogenesis of Patau syndrome.							
11.1.7	At the end of session, phase II M.B.B.S student must							
	be able to correctly Enumerate the clinical features of							
	Patau syndrome.							
11.1.8	At the end of session, phase II M.B.B.S student must							
11.1.0	be able to correctly describe the genetics and							
	pathogenesis of Klinefelter's syndrome.							
11.1.9	At the end of session, phase II M.B.B.S student must							
11.1.5	be able to correctly enumerate the clinical features of							
	klinefelter's syndrome.							
PA11.2	·	K	KH	Υ	Lactura Small	Written/	Pediatric	
PA11.2	Describe the pathogenesis and pathology of tumor	K	КП	ľ	Lecture, Small		Pediatric	
	and tumor like conditions in infancy and childhood				group discussion	viva voce	5	
11.2.1	At the and of cooling where HAADD Cotudent words							
11.2.1	At the end of session, phase II M.B.B.S student must							
	be able to define and classify appropriately the							
	common tumour and tumour like conditions in							
	infancy and childhood.							
11.2.2	At the end of session, phase II M.B.B.S student must							
	be able to correctly describe the pathogenesis of							
	Neuroblastoma.							
11.2.3	At the end of session, phase II M.B.B.S student must							
	be able to correctly Discuss the morphological features							
	of Neuroblastoma.							
11.2.4	At the end of session, phase II M.B.B.S student must							
	be able to correctly describe the pathogenesis of							
	Retinoblastoma.			<u>L</u>				<u></u>
11.2.5	At the end of session, phase II M.B.B.S student must							
	be able to correctly Discuss the morphological features							
	of Retinoblastoma.							
	1			•	•		 	

11.2.6	At the end of session, phase II M.B.B.S student must be able to correctly Describe the pathogenesis of Wilm's tumour.								
11.2.7	At the end of session, phase II M.B.B.S student must be able to correctly Discuss the morphological features of Wilm's tumour.								
11.2.8	At the end of session, phase II M.B.B.S student must be able to correctly Describe the pathogenesis of Ewing's sarcoma.								
11.2.9	At the end of session, phase II M.B.B.S student must be able to correctly Discuss the morphological features of Ewing's sarcoma.								
PA11.3	Describe the pathogenesis of common storage disorders in infancy and childhood	К	КН	Υ	Lecture, Small group discussion	Written/ Viva voce		Pediatric s	
11.3.1	At the end of session, phase II M.B.B.S student must be able to define and enumerate various common storage disorders precisely.								
11.3.2	At the end of session, phase II M.B.B.S student must be able to classify the common storage disorders (lysosomal and glycogen) correctly.								
11.3.3	At the end of session, phase II M.B.B.S student must be able to briefly describe the pathogenesis and clinical features of Gaucher's disease.								
11.34	At the end of session, phase II M.B.B.S student must be able to briefly describe the pathogenesis and								
	clinical features of Nieman pick disease type A and B.								
11.3.5	At the end of session, phase II M.B.B.S student must be able to briefly describe the pathogenesis and clinical features of Tay- sach's disease.								
11.3.6									
	At the end of session, phase II M.B.B.S student must be able to briefly describe the pathogenesis and clinical feature and morphology of Von Gierke disease.								
11.3.7	At the end of session, phase II M.B.B.S student must be able to briefly describe the pathogenesis, morphology and clinical features of Pompe disease.								
Topic: En	vironmental and nutritional diseases Nu	mber of co	mpetencies	: (03)		Number of	procedure	es that rec	uire certif
PA12.1	Enumerate and describe the pathogenesis of disorders caused by air pollution, tobacco and alcohol	K	КН	Υ	Lecture, Small group discussion	Written/ Viva voce			Communi ty Medicine
12.1.1	At the end of session, phase II M.B.B.S student must be able to define and enumerate environmental diseases correctly.								
12.1.2	At the end of session, phase II M.B.B.S student must be able to discuss the health effects of outdoor air pollutants correctly.								

12.1.3								
12.1.5	At the and of cossion, phase ILM P. P. S. student must							
	At the end of session, phase II M.B.B.S student must							
12.1.1	be able to discuss carbon monoxide poisoning correctly		-					
12.1.4	At the end of session, phase II M.B.B.S student must							
	be able to discuss the various indoor air pollutants							
12.1.5	correctly.		-					
12.1.5	At the end of session, phase II M.B.B.S student must							
	be able to discuss the effects of tobacco smoke							
10.1.5	constituents on health correctly.							
12.1.6	At the end of session, phase II M.B.B.S student must							
	be able to describe briefly the various disorders							
	caused due to tobacco.							
12.1.7								
	At the end of session, phase II M.B.B.S student must							
	be able to discuss the metabolism of ethanol in detail.							
12.1.8	At the end of session, phase II M.B.B.S student must							
	be able to enumerate correctly the adverse effects of							
	ethanol (alcoholism).							
PA12.2	Describe the pathogenesis of disorders caused by	K	KH	Υ	Lecture, Small	Written/	Biochem	
	protein calorie malnutrition and starvation				group discussion	Viva voce	istry,	
							Pediatric	
							S	
12.2.1	At the end of session, phase II M.B.B.S student must							
	be able to enumerate correctly the disorders caused							
	by protein calorie malnutrition.							
12.2.2	At the end of session, phase II M.B.B.S student must							
	be able to describe the pathogenesis of protein calorie							
	malnutrition correctly.							
12.2.3	At the end of session, phase II M.B.B.S student must							
	be able to define starvation correctly							
12.2.4	At the end of session, phase II M.B.B.S student must							
	be able to enumerate the disorders caused by							
	starvation correctly.							
12.2.5	At the end of session, phase II M.B.B.S student must							
	be able to briefly describe the pathogenesis of							
	anorexia nervosa.							
12.2.6								
	At the end of session, phase II M.B.B.S student must							
	be able to briefly describe the pathogenesis of bulimia.							
PA12.3	Describe the pathogenesis of obesity and its	K	KH	Υ	Lecture, Small	Written/	General	
	consequences				group discussion	Viva voce	Medicin	
							e	
12.3.1	At the end of session, phase II M.B.B.S student must							
	be able to define precisely obesity.						<u> </u>	
12.3.2	At the end of session, phase II M.B.B.S student must							
	be able to discuss the pathogenesis of obesity							
	accurately.							
12.3.3	At the end of session, phase II M.B.B.S student must							
	be able to enumerate and describe in brief the							
	consequences of obesity.							

12.3.4	At the end of session, phase II M.B.B.S student must	T			1	l			
12.5.4	be able to describe briefly the consequences of								
	obesity in association to cancer.								
Tonic: Int	·	ber of com	netencies: l	05)	<u> </u>	Number of p	rocedure	that requi	re certifica
PA13.1	Describe hematopoiesis and extramedullary	K	кн	Υ	Lecture, Small	Written/	loccuare	General	re cereme
	hematopoiesis	l"			group discussion			Medicin	
					B. oap alsoassion			е	
								Č	
13.1.1	At the end of session, phase II M.B.B.S student must	1							
	be able to briefly describe hematopoiesis and								
	differentiation of stem cells to blood cells.								
13.1.2	At the end of session, phase II M.B.B.S student must								
	be able to describe briefly extramedullary								
	hematopoiesis.								
13.1.3									
	At the end of session, phase II M.B.B.S student must								
	be able to describe steps of erythropoiesis in detail.								
13.1.4	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe nutritional requirements of								
	erythropoiesis.								
13.1.5	At the end of session, phase II M.B.B.S student must								
	be able to discuss accurately normal hemogram values								
51100	& red cell indices.								
PA13.2	Describe the role of anticoagulants in hematology	K	KH	Υ	Lecture, Small	Written/		General	
					group discussion	viva voce		Medicin	
								е	
13.2.1	At the end of session, phase II M.B.B.S student must	+							
13.2.1	be able to discuss briefly importance & requirement of								
	anticoagulants in hematology.								
13.2.2	At the end of session, phase II M.B.B.S student must be	+							
101212	able to correctly enumerate different types of								
	vacutainers used in hematology.								
13.2.3	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the different types of								
	anticoagulants required in hematology.								
13.2.4	At the end of session, phase II M.B.B.S student must								
	be able to enlist tests that require EDTA as								
	anticoagulant correctly.								
13.2.5	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly types of EDTA used as								
	anticoagulants.								
13.2.6	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly the role of heparin as								
100=	anticoagulants.			1			ļ		
13.2.7	At the end of session, phase II M.B.B.S student must								
	be able to discuss appropriately the role of								
42.2.2	anticoagulants in coagulation tests.			1	-				
13.2.8	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly the role of heparin as anticoagulant in hematology.								
	anticoaguiant in nematology.				1	l	l		

10.00	At the and of continuous UNA D.D.C. student count	1	ı	1		1		
13.2.9	At the end of session, phase II M.B.B.S student must							
	be able to briefly describe the mechanism of							
	anticoagulation of various anticoagulants in							
13.2.10	At the end of session, phase II M.B.B.S student must							
	be able to discuss accurately the artifacts induced by							
	anticoagulants in hematology.							
PA13.3	Define and classify anemia	K	KH	Υ		Written/	General	
					group discussion	Viva voce	Medicin	
							e	
13.3.1	At the end of session, phase II M.B.B.S student must							
	be able to define anemia precisely and describe the							
	clinical grading of anemia.							
13.3.2	At the end of session, phase II M.B.B.S student must							
	be able to classify anemia correctly on the basis of							
	pathophysiology and morphology.							
13.3.3	At the end of session, phase II M.B.B.S student must							
	be able to briefly discuss pathophysiology and clinical							
	features of anemia.							
PA13.4	Enumerate and describe the investigation of anemia	K	KH	Υ	Lecture, Small	Written/	General	
					group discussion	Viva voce	Medicin	
							e	
13.4.1	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate different investigations							
	that aid in diagnosis of anemia.							
13.4.2	At the end of session, phase II M.B.B.S student must							
	be able to correctly Describe the changes in							
	hematological values in a case of anemia.							
13.4.3	At the end of session, phase II M.B.B.S student must							
	be able to discuss the common morphological							
	abnormalities of red cells in different types of anemia							
	accurately.							
PA13.5	Perform, Identify and describe the peripheral blood	S	SH	Υ	DOAP session	Skill	General	
	picture in anemia	J		·	207.11 30331011	Assessment	Medicin	
	(Lower level of learning for this competency has been					, issessinene	e	
	covered in PA13.4)						Č	
	COVERCE III T / 125.4)							
13.5.1		İ						
123.3.1	At the end of session, phase II M.B.B.S student must be							
	able to correctly demonstrate the correct technique of							
	peripheral blood smear preparation.							
13.5.2	At the end of session, phase II M.B.B.S student must be							
13.3.2	able to correctly enumerate and demonstrate							
	correctly the steps of Leishman staining of a peripheral							
	blood smear.							
13.5.3	At the end of session, phase II M.B.B.S student must	<del>                                     </del>						
13.3.3	be able to explain the mechanism of fixation and							
	1							
12 5 4	staining in Leishman stain correctly.  At the end of session, phase II M.B.B.S student must	<b> </b>						
13.5.4	The state of the s							
	be able to Identify and describe the peripheral blood							
	picture in anemia accurately.			<u> </u>	i			

Topic: M	icrocytic anemia Numbe	r of compe	tencies: (03	3)		Number of p	rocedure	that requi	re certific
PA14.1	Describe the metabolism	K	KH	Υ	Lecture, Small	Written/		Biochem	
					group discussion	Viva voce		istry	
14.1.1	At the end of session, phase II M.B.B.S student must								
	be able to discuss in detail iron metabolism in the human body.								
14.1.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss in detail the pathogenesis of Iron deficiency anemia.								
PA14.2	Describe the etiology, investigation and differential	K	KH	Υ	Lecture, Small	Written/		General	
	diagnosis of microcytic hypochromic anemia				group discussion	Viva voce		Medicin e	
14.2.1	At the end of session, phase II M.B.B.S student must be								
14.2.1	able to correctly enumerate causes of Iron deficiency anemia.								
142.2	At the end of session, phase II M.B.B.S student must be able to discuss the clinical features of Iron deficiency anemia correctly.								
14.2.3	At the end of session, phase II M.B.B.S student must be able to discuss the laboratory findings in Iron deficiency anemia in detail.								
14.2.4	denote they differ the detail.								
	At the end of session, phase II M.B.B.S student must be able to discuss appropriately the different modes of treatment of Iron deficiency anemia.								
14.2.5	At the end of session, phase II M.B.B.S student must be able to define and classify sideroblastic anemia precisely.								
14.2.6	At the end of session, phase II M.B.B.S student must be able to discuss briefly the pathogenesis of sideroblastic anemia								
14.2.7	At the end of session, phase II M.B.B.S student must be able to correctly describe the lab findings of sideroblastic anemia.								
14.2.8	At the end of session, phase II M.B.B.S student must be able to classify and enumerate causes of anemia of chronic disease correctly.								
14.2.9	,		1				1		
	At the end of session, phase II M.B.B.S student must be able to correctly compare and contrast between the laboratory findings in cases of iron deficiency anemia, sideroblastic anemia, thalassemia minor and anemia								
	of chronic Disease.								
PA14.3	Identify and describe the peripheral smear in microcytic anemia (Lower level of learning for this competency has been covered in PA14.2)	S	SH	Υ	DOAP session	Skill Assessment		General Medicin e	
						1			

14.3.1	T	1	1	1	4		1		
14.3.1	At the end of session, phase II M.B.B.S student must								
	be able to enlist and describe the microscopic findings								
	in peripheral blood in microcytic anemia accurately.								
14.3.2	At the end of session, phase II M.B.B.S student must								
1	be able to Identify correctly and describe the								
	abnormalities seen in the peripheral smear in a case of								
	microcytic anemia.								
Topic: Ma		of compete	ncies: (04)	ı	N	umber of pro	cedure th	at require	certificati
PA15.1	Describe the metabolism of Vitamin B12 and the	K	KH	Υ	Lecture, Small	Written/		Biochem	
	etiology and pathogenesis of B12 deficiency				group discussion	Viva voce		istry,	
								General	
								Medicin	
								e	
15.1.1	At the end of session, phase II M.B.B.S student must								
	be able to describe metabolism of vitamin B12 in								
45.4.2	detail.								
15.1.2	At the and of easien, phase II NA D. D. Catudent much								
	At the end of session, phase II M.B.B.S student must be able to describe Folate metabolism in detail.								
15.1.3	be able to describe Polate metabolism in detail.								
13.1.3	At the end of session, phase II M.B.B.S student must be								
	able to correctly Compare & contrast salient features								
	of vitamin B12 & folate metabolism.								
15.1.4	At the end of session, phase II M.B.B.S student must								
	be able to classify megaloblastic anemia on the basis								
	of etiology correctly.								
15.1.5	At the end of session, phase II M.B.B.S student must								
	be able to correctly describe the clinical features in								
	megaloblastic anemia.								
PA15.2	Describe laboratory investigations of macrocytic	K	KH	Υ	Lecture, Small	Written/		General	
	anemia				group discussion	Viva voce		Medicin	
								е	
15.2.1			-						
15.2.1	At the end of session, phase II M.B.B.S student must								
	be able to describe the general and special laboratory								
	investigations in macrocytic anemia in detail.								
15.2.2	SSE, Gallons in macrocytic unclina in actum.			<b> </b>					
	At the end of session, phase II M.B.B.S student must								
	be able to describe briefly pernicious anemia.								
PA15.3	Identify and describe the peripheral blood picture of	S	SH	Υ	DOAP session	Skill			
	macrocytic anemia (Lower level of					assessment			
	learning for this competency has been covered in								
	PA15.2)								
15.3.1	At the end of session, phase II M.B.B.S student must								
	be able to enlist different microscopic abnormalities								
	seen in peripheral blood in macrocytic anemia								
	correctly								

15.3.2	At the end of session, phase II M.B.B.S student must be able to identify and describe correctly the peripheral blood picture in a given case of macrocytic anemia.							
PA15.4	Enumerate the difference and describe the etiology and distinguishing features of megaloblastic and non-	К	КН	Υ	Lecture, Small group discussion	Written/ Viva voce	General Medicin	
15.4.1	At the end of session, phase II M.B.B.S student must be able to enumerate the differences between megaloblastic anemia and non–megaloblastic macrocytic anemia in the basis of etiology, clinical features and laboratory findings correctly							
		r of compet				ımber of pro		s certifica
PA16.1	Define and classify hemolytic anemia	K	КН	Υ	Lecture, Small group discussion	Written/ Viva voce	Biochem istry, General Medicin e	
16.1.1	At the end of session, phase II M.B.B.S student must be able to define and classify hemolytic anemia precisely.							
PA16.2	Describe the pathogenesis and clinical features and hematologic indices of hemolytic anemia	К	КН	Υ	Lecture, Small group discussion	Written/ Viva voce	Biochem istry, General Medicin e	
16.2.1	At the end of session, phase II M.B.B.S student must be able to describe the clinical features of hemolytic anemia correctly.							
16.2.2	At the end of session, phase II M.B.B.S student must be able to enumerate and describe different investigations used for laboratory evaluation of hemolytic anemia correctly.							
16.2.3	At the end of session, phase II M.B.B.S student must be able to compare and contrast between clinical features and laboratory findings in extravascular & intravascular hemolysis correctly.							
PA16.3	Describe the pathogenesis, features, hematologic indices and peripheral blood picture of sickle cell anemia and thalassemia	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Biochem istry, General Medicin e	
16.3.1	At the end of session, phase II M.B.B.S student must be able to define spherocytic anemia precisely.							

16 2 2		l	1	1	l	
16.3.2	At the and of session, where ILMAD D.C. student must be					
	At the end of session, phase II M.B.B.S student must be able to correctly describe the pathogenesis and clinical					
	features of spherocytic anemia.					
16.3.3	reatures of sprierocytic affernia.					
10.5.5	At the end of session, phase II M.B.B.S student must be					
	able to describe the hematological indices &					
	peripheral blood picture in Spherocytosis accurately.					
16.3.4	At the end of session, phase II M.B.B.S student must					
10.3.4	be able to briefly discuss hereditary elliptocytosis and					
	hereditary stomatocytosis.					
16.3.5	nereditary storiatocytosis.					
10.3.3	At the end of session, phase II M.B.B.S student must be					
	able to correctly describe the etiopathogenesis &					
	clinical features of G6PD deficiency.					
16.3.6	At the end of session, phase II M.B.B.S student must					
	be able to describe the lab findings in a case of G6PD					
	deficiency correctly.					
16.3.7	At the end of session, phase II M.B.B.S student must					
	be able to define sickle cell anemia and sickle cell trait					
	precisely.					
16.3.8	At the end of session, phase II M.B.B.S student must					
	be able to describe the pathogenesis of sickle cell					
	anemia correctly.					
16.3.9	At the end of session, phase II M.B.B.S student must					
	be able to discuss the clinical features & laboratory					
	findings in sickle cell anemia in detail.					
16.3.10						
	At the end of session, phase II M.B.B.S student must					
	be able to define and classify thalassemia precisely.					
16.3.11	At the end of session, phase II M.B.B.S student must					
	be able to discuss the pathophysiology of anemia in					
	thalassemia in detail.					
16.3.12						
	At the end of session, phase II M.B.B.S student must					
	be able to briefly discuss Hb Bart's or hydrops foetalis.					
16.3.13	At the end of session, phase II M.B.B.S student must					
	be able to briefly discuss HbH disease.					
16.3.14						
	At the end of session, phase II M.B.B.S student must					
	be able to briefly discuss alpha-thalassemia trait.					
16.3.15	At the end of session, phase II M.B.B.S student must					
	be able to discuss the molecular pathogenesis of B					
16 2 16	thalassemia in detail.					
16.3.16	At the end of consists where HAADDC student mount					
	At the end of session, phase II M.B.B.S student must be able to describe the clinical features and laboratory					
	1					
16 2 17	findings of beta-thalassemia major accurately					
16.3.17	At the end of session, phase II M.B.B.S student must					
	be able to describe the clinical features and laboratory					
	findings of beta-thalassemia minor correctly.					
	iniumgs of beta-thalasselina millor correctly.	l	l	l		

PA16.4	Describe the etiology pathogenesis, hematologic indices and peripheral blood picture of Acquired hemolytic anemia	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	Biochem istry ,General Medicin e	
16.4.1	At the end of session, phase II M.B.B.S student must be able to enumerate causes of acquired hemolytic anemia correctly.							
16.4.2	At the end of session, phase II M.B.B.S student must be able to define and classify immunohemolytic anemia precisely.							
16.4.3	At the end of session, phase II M.B.B.S student must be able to briefly discuss the etiopathogenesis & clinical features of warm and cold antibody-Alloimmune hemolytic anemia.							
16.4.4	At the end of session, phase II M.B.B.S student must be able to describe the laboratory findings of warm and cold antibody- alloimmune hemolytic anemia correctly							
16.4.5	At the end of session, phase II M.B.B.S student must be able to briefly describe microangiopathic hemolytic anemia							
16.4.6	At the end of session, phase II M.B.B.S student must be able to define paroxysmal nocturnal hemoglobinuria and describe the etiopathogeneis correctly							
16.4.7	At the end of session, phase II M.B.B.S student must be able to discuss the clinical features and laboratory findings of Paroxysmal nocturnal hemoglobinuria correctly.							
PA16.5	Describe the peripheral blood picture in different hemolytic anemia	К	КН	Y	Lecture, Small group discussion	Written/ Viva voce	General Medicin e	
16.5.1	At the end of session, phase II M.B.B.S student must be able to enumerate & describe the salient red cell morphologic abnormalities in different types of hemolytic anemia correctly.							
PA16.6	Prepare a peripheral blood smear and identify hemolytic anemia from it (Lower level of learning for this competency has been covered in PA16.2, 16.5)	S	P	Υ	DOAP session	Skill assessment		
16.6.1	At the end of session, phase II M.B.B.S student must be able to correctly demonstrate preparation of peripheral blood smear.							
16.6.2	At the end of session, phase II M.B.B.S student must be able to identify & describe correctly the peripheral blood findings in a given case of hemolytic anemia.							

PA16.7	Describe the correct technique to perform a cross match	S	SH	Υ	Lecture, Small group discussion	Written/			
	materi				group discussion	viva voce			
16.7.1	At the end of coording phase II AA D.D.C. student growth								
16.7.1	At the end of session, phase II M.B.B.S student must be able to precisely define cross-matching and its								
16.7.2	types. At the end of session, phase II M.B.B.S student must								
10.7.12	be able to discuss the principle of crossmatching accurately.								
16.7.3	At the end of session, phase II M.B.B.S student must be able to correctly enumerate the steps of major crossmatching- immediate spin crossmatch and AHG phase crossmatch.								
16.7.4	At the end of session, phase II M.B.B.S student must be able to discuss briefly minor crossmatch.								
Topic: Ap	· · · · · · · · · · · · · · · · · · ·	f competen	cies: (02)		Nun	nber of proce	dure that	require ce	ertification
PA17.1	Enumerate the etiology, pathogenesis and findings in aplastic anemia	К	K	N	Lecture, Small group discussion	Written/		General Medicin e	
17.1.1	At the end of session, phase II M.B.B.S student should be able to define and classify aplastic anemia precisely on etiological basis.								
17.1.2	At the end of session, phase II M.B.B.S student should be able to describe clinical features and lab findings of aplastic anemia correctly.								
17.1.3	At the end of session, phase II M.B.B.S student should be able to discuss in brief myelothisic anemia								
17.1.4	At the end of session, phase II M.B.B.S student should be able to discuss in brief pure red cell aplasia.								
17.1.5	At the end of session, phase II M.B.B.S student should be able to discuss in brief principles of aplastic anemia.								
PA17.2	Enumerate the indication and describe the findings in bone marrow aspiration and biopsy	К	K	N	Lecture, Small group discussion	Written/ Viva voce		General Medicin e	
17.2.1	At the end of session, phase II M.B.B.S student should		-						
17.2.1	be able to enumerate indications of bone marrow biopsy and aspiration correctly.								
17.2.2	At the end of session, phase II M.B.B.S student should be able to briefly discuss findings in bone marrow in various disorders.								
		oer of comp				lumber of pro	ocedure th	nat require	certificati
PA18.1	Enumerate and describe the causes of leucocytosis leucopenia lymphocytosis and leukemoid reactions	K	КН	Υ	Lecture, Small group discussion	Written/ Viva voce			

18.1.1	At the end of session, phase II M.B.B.S student must			1		I		
10.1.1	• •							
	be able to define leukocytosis and Classify leukocytic							
10.1.2	disorder precisely	-					-	
18.1.2	At the end of session, phase II M.B.B.S student must							
	be able to discuss the mechanism of leukocytosis with							
	causes correctly.							
18.1.3	At the end of session, phase II M.B.B.S student must							
	be able to define and enumerate the causes of							
	lymphocytosis correctly.							
18.1.4	At the end of session, phase II M.B.B.S student must							
	be able to define and enumerate the causes of							
	leucopenia correctly							
18.1.5	At the end of session, phase II M.B.B.S student must							
	be able to define neutropenia and discuss its							
	pathogenesis with causes correctly.							
18.1.6	At the end of session, phase II M.B.B.S student must							
	be able to describe the morphology and clinical							
	features of neutropenia correctly.							
18.1.7	At the end of session, phase II M.B.B.S student must							
10.1.7	be able to discuss the pathogenesis of Infectious							
	mononucleosis correctly.							
18.1.8	inononacieosis correctly.							
18.1.8	At the and of cossion whose HAADDC student moust be							
	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe the clinical features and							
	laboratory findings of infectious mononucleosis.							
18.1.9	At the end of session, phase II M.B.B.S student must							
	be able to define leukamoid reaction and enumerate							
	its types precisely.							
18.1.10	At the end of session, phase II M.B.B.S student must							
	be able to enlist the causes of leukemoid reaction and							
	discuss the lab findings correctly.							
18.1.11	At the end of session, phase II M.B.B.S student must							
	be able to Compare the features of Leukemoid							
	reaction and CML correctly.							
PA18.2	Describe the etiology, genetics, pathogenesis	K	KH	Υ	Lecture, Small	Written/		
	classification, features, hematologic features of acute				group discussion	Viva voce		
	and chronic leukemia				0			
18.2.1	At the end of session, phase II M.B.B.S student must							
10.2.1	be able to define leukemia and enumerate the							
	different types of leukemia precisely.							
18.2.2	At the end of session, phase II M.B.B.S student must							
10.2.2	be able to discuss the etiology and pathogenesis of							
	=: : =							
10.2.2	acute leukemia in detail.		-	1			<b>-</b>	
18.2.3	At the end of session, phase II M.B.B.S student must							
	be able to classify AML as per FAB classification and							
	WHO classification correctly.	ļ		-			ļ	
18.2.4	At the end of session, phase II M.B.B.S student must							
	be able to describe the clinical features, lab findings							
	and prognosis of AML correctly.							
18.2.5	At the end of session, phase II M.B.B.S student must							
	be able to define and classify ALL precisely and discuss							
]	the pathogenesis.							

18.2.6	At the end of session, phase II M.B.B.S student must								
10.2.0	be able to describe the clinical and morphologic								
	features of ALL correctly.								
10 2 7	leatures of ALL correctly.								
18.2.7	At the end of energy where HAAR R C student mount								
	At the end of session, phase II M.B.B.S student must								
10.2.0	be able to discuss briefly the prognosis of ALL.								
18.2.8	At the end of session, phase II M.B.B.S student must								
	be able to compare features of AML and ALL								
	accurately.								
18.2.9									
	At the end of session, phase II M.B.B.S student must								
	be able to define chronic leukemia precisely.								
18.2.10	At the end of session, phase II M.B.B.S student must								
	be able to define and discuss pathogenesis of Chronic								
	lymphocytic leukemia correctly.								
18.2.11	At the end of session, phase II M.B.B.S student must								
	be able to describe clinical features, lab findings,								
	immunophenotype and prognosis of Chronic								
	lymphocytic leukemia correctly.								
18.2.12									
	At the end of session, phase II M.B.B.S student must								
	be able to define chronic myeloid leukemia precisely .								
18.2.13	At the end of session, phase II M.B.B.S student must								
	be able to discuss pathogenesis of chronic myeloid								
	leukemia in detail.								
18.2.14	leanenna in detain								
10.2.1	At the end of session, phase II M.B.B.S student must								
	be able to describe clinical features, lab findings,								
	prognosis of chronic myeloid leukemia correctly.								
18.2.15	progressis of emotile mycloid leakering correctly.								
10.2.13	At the end of session, phase II M.B.B.S student must be								
	able to correctly compare features of Chronic myeloid								
	leukemia and leukemoid reaction.								
Tonic Lun	1	of compete	ncios: (07)	ļ	l N	umber of pro	scoduro th	at ramile	cortificati
		or compete		V		Written/	cedure tr		ceruncau
PA19.1	Enumerate the causes and describe the differentiating	K	KH	Υ	Lecture, Small			General	
	features , hematologic features of acute and chronic				group discussion	viva voce		Surgery	
	leukemia								
19.1.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define acute and chronic leukemia correctly.								
19.1.2	At the end of session, phase II M.B.B.S student must								
	be able to classify Leukemia correctly.								
19.1.3									
	At the end of session, phase II M.B.B.S student must								
	be able to accurately describe the hematologic								
	features of chronic and acute leukemia.			<u> </u>					
19.1.4	At the end of session, phase II M.B.B.S student must								
	be able to correctly Enumerate the causes responsible								
	for leukemia.								
19.1.5	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe the pathogenesis of acute								
	and chronic leukemia.								
	•	1	·			L	·		

PA19.2	Describe the pathogenesis and pathology of	K	KH	Υ	Lecture, Small	Written/	General	
	tuberculous lymphadenitis				group discussion	Viva voce	Surgery	
19.2.1	At the end of session, phase II M.B.B.S student must							
	be able to describe etiopathogenesis of tuberculous lymphadenitis in detail.							
PA19.3	Identify and describe the features of tuberculous	S	SH	Υ	DOAP session	Skill		
	lymphadenitis in a gross and microscopic specimen					assessment		
	(Lower level of							
	learning for this competency has been covered in							
	PA19.2)							
19.3.1	At the end of session, phase II M.B.B.S student must							
	be able to describe correctly clinical features of							
10 2 2	tuberculosis lymphadenitis.  At the end of session, phase II M.B.B.S student must			-				
19.3.2	be able to describe in detail morphological features of							
	tuberculous lymphadenitis.							
PA19.4	, ,	К	KH	Υ	Lecture, Small	Written/	General	
	the differentiating features of Hodgkin's and non-				group discussion		Surgery	
	Hodgkin's lymphoma							
19.4.1	At the end of session, phase II M.B.B.S student must be							
	able to correctly differentiate between features of							
19.4.2	Hodgkin and non-Hodgkin lymphoma.  At the end of session, phase II M.B.B.S student must							
13.4.2	be able to describe pathogenesis of hodgkin's							
	lymphoma in detail.							
19.4.3	At the end of session, phase II M.B.B.S student must							
	be able to describe pathogenesis of various non-							
	hodgkin's lymphoma briefly.							
PA19.5	Identify and describe the features of Hodgkin's	S	SH	Υ	DOAP session	Skill	General	
	lymphoma in a gross and microscopic specimen					Assessment	Surgery	
	(Lower level of							
	learning for this competency has been covered in PA19.4)							
	I NIVIA)							
19.5.1	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe gross and microscopic							
	features of Hodgkin's lymphoma.							
19.5.2								
	At the end of session, phase II M.B.B.S student must							
	be able to correctly identify gross and microscopic							
	features of Hodgkin's lymphoma in a given case.	1	l .					

PA19.6	Enumerate and differentiate the cause of	V	КН	V	Lastura Cosall	\A/vitton/		Comoral	
PA19.6		K	KH	Y	Lecture, Small	Written/		General	
	splenomegaly				group discussion	Viva voce		Surgery,	
								General	
								Medicin	
								e	
								C	
19.6.1									
	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate causes of splenomegaly.								
10.6.2	At the end of session, phase II M.B.B.S student must		<b>†</b>						
19.6.2	T. T.								
	be able to differentiate features on the basis of								
	degree of splenomagaly accurately.								
19.6.3	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe mohphological features of								
	splenomagaly.								
PA19.7	Identify and describe the gross specimen of an	S	SH	Υ	DOAP session	Skill			
		3	511		DOAI 3C33IOII				
	enlarged spleen (Lower					Assessment			
	level of learning for this competency has been covered								
	in PA19.6)								
19.7.1	At the end of session, phase II M.B.B.S student must								
	be able to correctly Identify gross specimen of an								
	enlarged spleen.								
19.7.2	At the end of session, phase II M.B.B.S student must								
-	7.1								
	be able to correctly describe gross specimen of an								
	enlarged spleen.					l			
	ma cell disorders Number of	competenc				Number of p	rocedure	that requi	re certifica
PA20.1	Describe the features of plasma cell myeloma	S	SH	Υ	DOAP session	Skill			
						Assessment			
20.1.1									
	At the end of session, phase II M.B.B.S student must be								
	able to precisely define and classify plasma cell tumor.								
	At the end of session, phase II M.B.B.S student must								
	be able to describe the pathogenesis of plasma cells								
	dyscrasias accurately.								
20.1.3									
	At the end of session, phase II M.B.B.S student must								
	be able to enumerate the clinical features and								
	complications of plasma cell Dyscrasias correctly.								
20.1.4	At the end of session, phase II M.B.B.S student must			<u> </u>					
	be able to correctly discuss the diagnostic criteria for								
	plasma cells dyscrasias								
	At the end of session, phase II M.B.B.S student must								
	be able to briefly discuss Waldenstrom's								
	macroglobulinemia.								
20.1.6	<u> </u>					İ			
		1	1	1	I	1	1		
	At the end of session, phase II M. R. R. S. student must								
	At the end of session, phase II M.B.B.S student must								
	At the end of session, phase II M.B.B.S student must be able to describe briefly the distinguishing features between MGUS/AMM/MM								

20.1.7	At the end of session, phase II M.B.B.S student must be	1		I		l			
20.1.7	able to correctly identify and describe morphology of a								
	case of plasma cell myeloma.								
Tonic: He		er of comp	tencies: (N	5)	1	l Number of Pr	ocedure t	hat requir	e certificat
PA21.1	Describe normal hemostasis	K	кн	Υ	Lecture, Small	Written/	- CCCGGTC C	nat requir	c certificat
7,721.1	Describe normal nemostasis	K .	· · ·		group discussion				
21.1.1	At the end of session, phase II M.B.B.S student must be able to define Hemostasis precisely.								
21.1.2	At the end of session, phase II M.B.B.S student must be able to discuss the sequence of events leading to hemostasis at the site of vascular injury correctly.								
21.1.3	At the end of session, phase II M.B.B.S student must be able to discuss appropriately the role of platelets in hemostssis.								
21.1.4	At the end of session, phase II M.B.B.S student must be able to describe the coagulation cascade in detail.								
21.1.5	At the end of session, phase II M.B.B.S student must be able to discuss the tests used to evaluate different aspects of hemostasis accurately.								
PA21.2	Classify and describe the etiology, pathogenesis and pathology of vascular and platelet disorders including ITP and haemophilia's	K	КН	Υ	Lecture, Small group discussion	Written/ Viva voce		Pediatric s	
21.2.1	At the end of session, phase II M.B.B.S student must be able to classify the bleeding disorders on the basis of their causes correctly.								
21.2.2	At the end of session, phase II M.B.B.S student must be able to enlist causes of thrombocytopenia correctly.								
21.2.3	At the end of session, phase II M.B.B.S student must be able to Discuss the pathogenesis, clinical features and morphology of ITP in detail.								
21.2.4	At the end of session, phase II M.B.B.S student must be able to discuss in detail the etiology and pathogenesis of Hemophilia in detail.								
21.2.5	At the end of session, phase II M.B.B.S student must be able to describe the clinical features and lab findings of hemophilia accurately.								
PA21.3	Differentiate platelet from clotting disorders based on the clinical and hematologic features	S	SH	Υ	Lecture, Small group discussion	Written/ Viva voce		General Medicin e	
21.3.1	At the end of session, phase II M.B.B.S student must be able to enlist bleeding disorders due to platelet disorders and clotting factor disorders correctly.								

21.3.2									
21.5.2	At the end of session, phase II M.B.B.S student must								
	be able to compare bleeding disorders due to platelet								
	disorders and clotting factor disorders based on								
	clinical features and lab findings accurately.								
PA21.4	Define and describe disseminated intravascular	K	KH	Υ	Lecture, Small	Written/		General	
1 721.4	coagulation, its laboratory findings and diagnosis of	K	IXI I		group discussion	•		Medicin	
	disseminated intravascular coagulation				Broup discussion	VIVA VOCC		e	
	disserimated intravascular coagulation							C	
21.4.1	At the end of session, phase II M.B.B.S student must								
	be able to define disseminated intravascular								
	coagulation precisely.								
21.4.2	At the end of session, phase II M.B.B.S student must								
	be able to enumerate its causes correctly.								
21.4.3	At the end of session, phase II M.B.B.S student must								
	be able to explain pathogenesis of disseminated								
	intravascular coagulation correctly.								
21.4.4									
	At the end of session, phase II M.B.B.S student must								
	be able to correctly Describe clinical features of								
	disseminated intravascular coagulation.								
21.4.5									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss lab findings and diagnosis of								
	disseminated intravascular coagulation correctly.								
PA21.5	Define and describe disseminated intravascular	K	KH	Υ	Lecture, Small	Written/		General	
	coagulation, its laboratory findings and diagnosis of				group discussion	Viva voce		Medicin	
	Vitamin K deficiency							e	
21.5.1	At the end of session, phase II M.B.B.S student must								
21.3.1	be able to briefly describe role of Vitamin K in								
	hemostasis.								
21.5.2	At the end of session, phase II M.B.B.S student must be								
21.5.2	able to correctly enumerate causes of Vitamin K								
	deficiency.								
21.5.3									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss clinical features of Vitamin K								
	deficiency in neonates and adults briefly.								
21.5.4	At the end of session, phase II M.B.B.S student must								
	be able to discuss lab findings and diagnosis of								
	Vitamin K deficiency correctly.								
Topic: Blo	od banking and transfusion Number	of compet	encies: (07)			Number of p	rocedures	that requ	ire certific
PA22.1	Classify and describe blood group systems (ABO and	K	KH	Υ	Lecture, Small	Written/			
	RH)				group discussion	Viva voce			
22.1.1	At the end of session, phase II M.B.B.S student must						-		
	be able to classify different blood group system								
	precisely.								
	precisely.								

22.1.2									
22.1.2	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe importance of Rh factor.								
22.1.3	At the end of session, phase II M.B.B.S student must								
22.1.3	be able to briefly describe Bombay blood group and its								
	, , , , , , , , , , , , , , , , , , , ,								
22.1.4	clinical importance.								
22.1.4	At the and of cossion whose HAAD D.C. student must								
	At the end of session, phase II M.B.B.S student must								
22.4.5	be able to describe ABO & Rh incompatibility correctly								
22.1.5	At the end of session, phase II M.B.B.S student must								
	be able to discuss different methods of blood								
22.4.6	grouping correctly.								
22.1.6									
	At the end of session, phase II M.B.B.S student must								
	be able to enumerate steps of ABO grouping & Rh								
	typing and demonstrate the same accurately.								
PA22.2	Enumerate the indications, describe the principle,	S	SH	Υ	Lecture, Small	Written/		Obstetri	
	enumerate and demonstrate the steps of compatibility				group discussion	Viva voce		cs &	
	testing							Gynaeco	
								logy	
22.2.1	At the end of session, phase II M.B.B.S student must								
	be able to mention indications & principles of major								
	and minor cross matching.								
22.2.2									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly the steps of major								
	andminor crossmatching								
	(Level of learning of								
	this competency has been addressed in Pa16.7).								
22.2.3	At the end of session, phase II M.B.B.S student must								
	be able to describe Coombs test, its principle & usage								
	correctly.								
22.2.4	At the end of session, phase II M.B.B.S student must								
	be able to describe criteria for Donor selection &								
	rejection correctly.								
22.2.5	At the end of session, phase II M.B.B.S student must								
	be able to describe Precautions to be taken during								
	transfusion appropriately.								
PA22.4	Enumerate blood components and describe their	K	KH	Υ	Lecture, Small	Written/		General	
	clinical uses				group discussion	Viva voce		Surgery,	
								General	
								Medicin	
								e	
22.4.1	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate different blood								
	components.								
22.4.2	At the end of session, phase II M.B.B.S student must			<b>†</b>	1				
	be able to briefly enumerate anticoagulants used in								
	blood banks.								
		l	l	<u> </u>	I .		l .		

	T		1		1		1		
22.4.3	At the end of session, phase II M.B.B.S student must								
	be able to briefly discuss different blood bags and								
	their uses.								
22.4.4	At the end of session, phase II M.B.B.S student must								
	be able to briefly discuss storage and shelf life of								
	different blood components.								
22.45	·								
22.4.5	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe indications and clinical uses								
	of different blood components.								
PA22.5	Enumerate and describe infections transmitted by	K	KH	Υ	Lecture, Small	Written/			Microbiol
	blood transfusion				group discussion	Viva voce			ogy
22.5.1	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate different infections								
	transmitted through blood transfusion.								
22.5.2	At the end of session, phase II M.B.B.S student must								
	be able to enumerate disease tested for before								
	transfusion and mention the methods of testing								
	correctly.								
PA22.6	Describe transfusion reactions and enumerate the	K	KH	Υ	Lecture, Small	Written/		General	
FAZZ.U		K	KH	'	•	•			
	steps in the investigation of a transfusion reaction				group discussion	viva voce		Medicin	
								е	
22.6.1									
	At the end of session, phase II M.B.B.S student must								
	be able to correctly enumerate transfusion reactions.								
22.6.2	At the end of session, phase II M.B.B.S student must				+				
22.0.2	be able to describe correctly types of transfusion								
22.6.2	reactions.			-					
22.6.3	At the end of session, phase II M.B.B.S student must								
	be able to correctly discuss the clinical features of								
	transfusion reactions.								
22.6.4	At the end of session, phase II M.B.B.S student must								
	be able to correctly enumerate immediate steps to be								
	taken following transfusion reaction								
22.6.5									
	At the end of session, phase II M.B.B.S student must								
	be able to enumerate precisely steps in investigating								
	blood transfusion reactions including documentation								
	check, serological investigations, tests for haemolysis								
PA22.7	and microbiological tests.  Enumerate the indications and describe the principles	K	KH	V	Lecture, Small	Written/			
PAZZ./	·	K	КП	ı					
	and procedure of autologous transfusion				group discussion	viva voce			
22.7.1	At the end of session, phase II M.B.B.S student must								
	be able to precisely define autologous blood								
	transfusion correctly.								
22.7.2	At the end of session, phase II M.B.B.S student must	<del> </del>	1	+			1		
~~	be able to enumerate correctly advantages and								
	indications for autologous blood transfusion.								
Tonic: Cl	9	r of compe	toncies : "	121	A1	l mber of proc	odures *ba	t rocuire	cortificatio
ı opic: Cli	inical Pathology Numbe	r or compe	tencies : ((	JSI	Nui	mper of proc	eaures tha	ıt reauire	certificatio

D 4 2 2 4		Ic.	CII	\ <u>'</u>	DO45 :	let :II		
PA23.1	Describe abnormal urinary findings in disease states	S	SH	Y	DOAP session	Skill		
	and identify and describe common urinary					assessment		
	abnormalities in a clinical specimen							
	(Lower level of							
	learning for this competency has been covered in							
	Phase !, BI 11.3, 11.4)							
22.1.1	At the end of session, phase II M.B.B.S student must	1			1			
23.1.1	be able to correctly mention different methods of							
	collection of urine and preservation.							
23.1.2	collection of driffe and preservation.				+			
23.1.2	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate disease conditions							
	associated with variation in total urine volume.							
23.1.3	At the end of session, phase II M.B.B.S student must							
23.1.3	be able to correctly enumerate disease conditions							
	associated with variation in urine pH.							
23.1.4	associated with variation in arme pri.							
23.1.4	At the end of session, phase II M.B.B.S student must							
	be able to enumerate disease conditions associated							
	with variation in urine colour accurately.							
235	,							
	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate disease conditions							
	associated with variation in urine odour							
23.1.6								
	At the end of session, phase II M.B.B.S student must							
	be able to enumerate correctly disease conditions							
	associated with variation in urine clarity/appearance.							
23.1.7								
	At the end of session, phase II M.B.B.S student must							
	be able to enumerate accurately disease conditions							
	associated with variation in urine specific gravity.							
23.1.8	At the end of session, phase II M.B.B.S student must							
	be able to precisely define glycosuria.							
21.9								
	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate pathological conditions							
	associated with glycosuria.							
23.1.10	At the end of session, phase II M.B.B.S student must							
	be able to accurately Demonstrate the test for							
22 1 11	glycosuria.	1	1	1	1			
23.1.11	At the end of session, phase II M.B.B.S student must				1			
22.4.42	be able to precisely define ketonuria.	+		1	1			
23.1.12	At the end of session, phase II M.B.B.S student must							
	be able to enumerate pathological conditions associated with ketonuria correctly.							
22 1 12	At the end of session, phase II M.B.B.S student must	1		1	+			
23.1.13	· ·				1			
	be able to accurately demonstrate the test for ketonuria.				1			
23.1.14	At the end of session, phase II M.B.B.S student must	+		+	+			
23.1.14	be able to define precisely proteinuria.							
	be able to define precisely proteinura.		1	1			1	

22.4.45	At the and of session, phase II M. D. D. Catudent must		ı	1	I			1
23.1.15	At the end of session, phase II M.B.B.S student must							
	be able to correctly Enumerate pathological conditions							
	associated with proteinuria.							
23.1.16	At the end of session, phase II M.B.B.S student must							
	be able to accurately demonstrate the test for							
	proteinuria.							
23.1.17	At the end of session, phase II M.B.B.S student must							
	be able to precisely define haematuria,							
23.1.18								
	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate pathological conditions							
	associated with haematuria.							
23.1.19	At the end of session, phase II M.B.B.S student must							
23.1.13	be able to accurately Demonstrate the test for							
	haematuria.							
23.1.20	maematuna.			1				
23.1.20	At the end of session phase II M.P.P.S. student must							
	At the end of session, phase II M.B.B.S student must							
	be able to describe correctly principles of chemical							
	tests and Dipsticks tests for determination of Sugar,							
	Ketone bodies, Proteins and Blood in urine.							
23.1.21	At the end of session, phase II M.B.B.S student must							
	be able to describe briefly urinary microscopic							
	findings with reference to cells, crystals and casts in							
	disease states.							
23.1.22								
	At the end of session, phase II M.B.B.S student must							
	be able to correctly interpret urinary findings in							
	Nephritic syndrome, Nephrotic syndrome, Diabetic							
	Ketacidosis, Urinary tract infection.							
PA23.2	Describe abnormal findings in body fluids in various	K	KH	Υ	Lecture, Small	Written/		
	disease states				group discussion	Viva voce		
					0 - 1 - 1 - 1 - 1			
23.2.1	At the end of session, phase II M.B.B.S student must							
201212	be able to mention correctly different body fluids,							
	method of collection and preservation.							
23.2.2	At the end of session, phase II M.B.B.S student must							
23.2.2	be able to mention difference between transudate							
22.2.2	and exudates correctly.	-		<del>                                     </del>				
23.2.3	At the end of session, phase II M.B.B.S student must							
	be able to mention correctly changes in body fluid							
22.2	parameters in tuberculosis.			ļ				
23.2.4	At the end of session, phase II M.B.B.S student must							
	be able to mention briefly changes in body fluid							
	parameters in malignancy.							
23.2.5	At the end of session, phase II M.B.B.S student must							
	be able to mention correctly changes of body fluid							
	parameters in pyogenic infections.							
23.2.6	At the end of session, phase II M.B.B.S student must							
	be able to correctly identify etiology of pleural							
	effusion and ascitis by interpreting given body fluid							
	parameters.							
	I'				1			

5.00.0	- 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	l <sub>a</sub>	la	l.,		a			
PA23.3	Describe and interpret the abnormalities in a panel	S	SH	Υ	DOAP session	Skill			
	containing semen analysis, thyroid function tests,					Assessment			
	renal function tests or liver function tests								
	(Lower level of learning								
	for this competency has been covered in phase I								
	BI.11.17)								
	,								
23.3.1	At the end of session, phase II M.B.B.S student must								
	be able to correctly enumerate indications for semen								
	analysis.								
23.3.2	undry5i5.								
23.3.2	At the end of session, phase II M.B.B.S student must								
	-								
22.2.2	be able to Interpret semen analysis report accurately.								
23.3.3	At the end of session, phase II M.B.B.S student must								
	be able to correctly interpret renal function tests,								
	thyroid function tests or liver function tests in given								
	cases.								
Topic: Gas		competen	cies: (07)		N	umber of pro	cedures t	hat requir	e certificat
PA24.1	Describe the etiology, pathogenesis, pathology and	K	KH	Υ	Lecture, Small	Written/		Dentistr	
	clinical features of oral cancers				group discussion	Viva voce		у	
24.1.1	At the end of session, phase II M.B.B.S student must								
	be able to precisely define leukoplakia.								
24.1.2	At the end of session, phase II M.B.B.S student must								
	be able to define erythroplakia precisely.								
24.1.3	The state of the s								
24.1.3	At the end of session, phase II M.B.B.S student must								
	be able to correctly describe etiopathogenesis and								
	, , ,								
2444	morphology of leukoplakia.		-						
24.1.4	At the end of session, phase II M.B.B.S student must								
	be able to enumerate correctly various precancerous								
	lesions of oral cavity.								
24.1.5									
	At the end of session, phase II M.B.B.S student must								
	be able to correctly discuss etiopathogenesis of								
	squamous cell carcinoma of oral cavity.								
24.1.6					1				
	At the end of session, phase II M.B.B.S student must				1				
	be able to discuss correctly morphology and spread of								
	squamous cell carcinoma of oral cavity.				1				
24.1.7									
	At the end of session, phase II M.B.B.S student must								
	be able to classify salivary gland tumours precisely.				1				
24.1.7	At the end of session, phase II M.B.B.S student must								
	be able to discuss etiopathegenesis and morphology								
	of pleomorphic adenoma in detail.				1				
24.1.8	At the end of session, phase II M.B.B.S student must			1					
24.1.0	be able to discuss etiopathogenesis and morphology								
	of warthins tumour correctly				1				
24.4.0	or warmins tumour correctly	1	<del>                                     </del>	1	1				
24.1.9	land to the state of the state								
	At the end of session, phase II M.B.B.S student must								
	be able to list odontogenic tumours correctly.			<u> </u>	<u> </u>				

24.1.10 At the end of session, phase II M.B.B.S student must be able to discuss barretts esophagus in detail  24.1.11 At the end of session, phase II M.B.B.S student must be able to discuss etiopathogenesis and morphology of carcinoma of esophagus in detail  24.1.12 At the end of session, phase II M.B.B.S student must be able to discuss briefly complications of carcinoma of esophagus  PA24.2 Describe the etiology, pathogenesis, pathology, microbiology, clinical and microscopic features of peptic ulcer disease  At the end of session, phase II M.B.B.S student must be able to define precisely peptic ulcer disease.  24.2.1 At the end of session, phase II M.B.B.S student must be able to obscribe etiopathogenesis of peptic ulcer disease.  24.2.2 At the end of session, phase II M.B.B.S student must be able to correctly describe gross and microscopic findings in peptic ulcer disease.  24.2.4 At the end of session, phase II M.B.B.S student must be able to discuss appropriately role of H.pylori in peptic ulcer disease, gastritis and other stomach diseases.  24.2.5 At the end of session, phase II M.B.B.S student must be able to discuss appropriately role of H.pylori in peptic ulcer disease, gastritis and other stomach diseases.  24.2.5 At the end of session, phase II M.B.B.S student must be able to correctly describe clinical features and complications of peptic ulcer disease.  24.2.6 At the end of session, phase II M.B.B.S student must be able to correctly describe clinical features and complications of peptic ulcer disease.	
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be able to define gastritis.	
24.2.7	
At the end of session, phase II M.B.B.S student must be	
able to correctly Discuss types of gastritis.	
24.2.8	
At the end of session, phase II M.B.B.S student must	
be able to briefly describe etiopathogenesis,	
morphology and clinical features of acute gastritis.  PA24.3 Describe and identify the microscopic features of S SH Y Lecture, Small Written/ General	
e e	
24.3.1 At the end of session, phase II M.B.B.S student must	
be able to describe accurately the microscopic	
features of peptic ulcer	
PA24.4 Describe and etiology and pathogenesis and K KH Y Lecture, Small Written/ General	
pathologic features of carcinoma of the stomach group discussion Viva voce Surgery	
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	At the end of session, phase II M.B.B.S student must	1	1	1	1	ı	1		
24.4.1	• •								
	be able to describe in detail epidemiology,								
	etiopathogenesis and clinical features of carcinoma of	1							
24.4.2	At the end of session, phase II M.B.B.S student must								
	be able to accurately describe gross and microscopy of								
	carcinoma stomach.								
24.4.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly differences between								
	benign and malignant gastric ulcer.								
PA24.5	Describe etiology, pathogenesis and pathological	K	KH	Υ	Lecture, Small	Written/		General	
	features of Tuberculosis of the intestine or intestinal				group discussion	Viva voce		Surgery	
	tuberculosis.								
21.51									
24.5.1									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss etiopathogenesis and clinical								
	features of tuberculosis of intestine correctly.								
24.5.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss accurately the morphology of								
	tuberculosis of intestine.								
24.5.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly the complications of								
	tuberculosis of intestine								
24.5.4									
	At the end of session, phase II M.B.B.S student must								
	be able to enumerate differences between typhoid								
	ulcer and tubercular intestine ulcer correctly.								
PA24.6	Describe and etiology and pathogenesis and	K	KH	Υ	Lecture, Small	Written/		General	
	pathologic and distinguishing features of Inflammatory				group discussion	Viva voce		Surgery	
	bowel disease								
24.6.1	At the end of session, phase II M.B.B.S student must								
	be able to define inflammatory bowel disease								
	precisely.								
24.6.2									
	At the end of session, phase II M.B.B.S student must								
	be able to briefly Describe epidemiology and clinical								
	features of Inflammatory bowel disease.								
24.6.3	At the end of session, phase II M.B.B.S student must								
	be able to correctly discuss pathogenesis of								
	Inflammatory bowel disease.								
24.6.4									
	At the end of session, phase II M.B.B.S student must								
	be able to describe correctly the clinical features and								
	and complications in ulcerative colitis.								
24.6.5	At the end of session, phase II M.B.B.S student must	İ							
	be able to describe gross and microscopic findings in								
	ulcerative colitis correctly.								
24.6.6	At the end of session, phase II M.B.B.S student must	1							
	be able to correctly describe clinical features and								
	complications in Crohns' disease.								
24.6.7	At the end of session, phase II M.B.B.S student must			1					
_ 1.0.,	be able to describe gross, microscopic findings in								
	Crohns' disease correctly.								

PA24.7	Describe the etiology , pathogenesis , pathology and	K	КН	V	Lecture, Small	Written/		General	
PAZ4.7		K	КП	Y	· ·				
	distinguishing features of carcinoma of the colon				group discussion	Viva voce		Surgery	
24.7.1									
24.7.1	At the end of session, phase II M.B.B.S student must								
	• •								
24.7.2	be able to classify accurately tumours of colon.		-						
24.7.2	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe various polyps and								
	adenomas of colon								
24.7.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly Familial adenomatous								
	polyposis								
24.7.4	At the end of session, phase II M.B.B.S student must								
	be able to discuss various preneoplastic lesions of								
	intestine briefly.								
24.7.5	At the end of session, phase II M.B.B.S student must								
	be able to describe etio- pathogenesis of carcinoma of								
	colon in detail.								
24.7.6	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly multistep carcinogenesis in								
	carcinoma colon.								
24.7.7									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss clinical features and morphological								
	features of carcinoma colon correctly.								
24.7.7	At the end of session, phase II M.B.B.S student must								
	be able to discuss staging, diagnosis and complications								
	of carcinoma colon appropriately.								
		competen				lumber of pr	ocedure tl		certificati
PA25.1	Describe bilirubin metabolism, enumerate the etiology	K	KH	Υ	Lecture, Small	Written/		Biochem	
	and pathogenesis of jaundice, distinguish between				group discussion	Viva voce		istry,	
	direct and indirect hyperbilirubinemia							General	
								Medicin	
								е	
25.1.1	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe production of bilirubin and								
	how it is utilized by the body.								
25.1.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss etiopathogenesis of Jaundice in								
	detail.			ļ					
25.1.3	At the end of session, phase II M.B.B.S student must be								
	able to correctly differentiate between Direct and								
	Indirect Hyperbilirubinemia.								
25.1.4									
	At the end of session, phase II M.B.B.S student must be								
	able to describe correctly Neonatal jaundice.								

	In 11 11 11 11 11 11 11 11 11 11 11 11 11	1.,	l.,	L.	l				
PA25.2	1 1 7 37 1 3 3	K	KH	Υ	Lecture, Small	Written/		General	
	seen in hepatic failure and their clinical				group discussion	Viva voce		Medicin	
	manifestations, complications and consequences							e,	
								General	
								Surgery	
25.2.1	At the end of session, phase II M.B.B.S student must								
	be able to enumerate and Discuss correctly causes of								
	hepatic failure.								
25.2.2									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss pathophysiology of hepatic failure								
	and fulminant hepatitis accurately.								
25.2.3	At the end of session, phase II M.B.B.S student must								
	be able to describe gross and microscopic features in								
	hepatic failure in detail.								
25.2.4									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss appropriately complications and								
	consequences of hepatic failure.								
PA25.3	Describe the etiology and pathogenesis of viral and	K	KH	Υ	Lecture, Small	Written/		General	
	toxic hepatitis: distinguish the causes of hepatitis				group discussion	Viva voce		Medicin	
	based on the clinical and laboratory features. Describe							e	
	the pathology, complications and consequences of								
	hepatitis								
25.3.1	At the end of session, phase II M.B.B.S student must								
	be able to Define hepatitis precisely.								
25.3.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss causes and pathogenesis of viral								
	hepatitis correctly.								
25.3.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss clinical features and morphology of								
	viral hepatitis correctly.								
25.3.4									
	At the end of session, phase II M.B.B.S student must be								
	able to describe lab features of viral hepatitis correctly.								
25.3.5	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly complications and								
	consequences of viral hepatitis.		<u> </u>						
25.3.6	At the end of session, phase II M.B.B.S student must								
	be able to discuss appropriately Chronic Hepatitis and								
	its types.								
25.3.7									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly etiopathogenesis and								
	clinical features of toxic hepatitis.								
25.3.8									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly morphology of toxic hepatitis								
	== === to allocate briefly morphology of toxic hepatitis		1	1	1	i	l	1	

	In 11 11 11 11 11 11 11 11 11 11 11 11 11	I.,	141		l	,		
PA 25.4	Describe the pathophysiology, pathology and	K	KH	Υ	Lecture, Small	Written/	General	
	progression of alcoholic liver disease including cirrhosis				group discussion	Viva voce	Medicin	
							e,	
							General	
							Surgery	
							0 7	
25.4.1								
	At the end of session, phase II M.B.B.S student must							
	be able to define alcoholic liver disease precisely.							
25.4.2								
	At the end of session, phase II M.B.B.S student must							
	be able to discuss in detail the etiopathogenesis, and							
	stages of alcoholic liver disease.							
25.4.3	At the end of session, phase II M.B.B.S student must							
2515	be able to discuss accurately morphology of different							
	,							
25.4.4	stages of alcoholic liver disease.			1				
23.4.4	At the end of session, phase II M.P.P.S student must							
	At the end of session, phase II M.B.B.S student must							
	be able to define and classify Cirrhosis precisely.	-		<u> </u>			ļ	
25.4.5								
	At the end of session, phase II M.B.B.S student must							
	be able to briefly discuss Post- Necrotic Cirrhosis.							
25.4.6	At the end of session, phase II M.B.B.S student must							
	be able to discuss etiopathogenesis of cirrhosis in							
	detail.							
25.4.7	At the end of session, phase II M.B.B.S student must							
	be able to describe the clinical features and							
	complications of cirrhosis accurately.							
25.4.8	At the end of session, phase II M.B.B.S student must			1				
23.4.0	be able to discuss gross and microscopic findings in							
	=							
D 4 2 F F	cirrhosis correctly.	17	171.1					
PA25.5	Describe the etiology, pathogenesis and complications	K	KH	Υ	Lecture, Small	Written/	General	
	of portal hypertension				group discussion	Viva voce	Medicin	
							e,	
							General	
							Surgery	
25.5.1		<del>                                     </del>						
23.3.1	At the end of session, phase II M.B.B.S student must							
25.5.2	be able to define portal hypertension precisely.	<b> </b>		1			<del>                                     </del>	
25.5.2	At the end of session, phase II M.B.B.S student must							
	be able to correctly enumerate and discuss Pre-							
	hepatic, hepatic and Post hepatic causes of Portal							
	Hypertension.							
25.5.3	At the end of session, phase II M.B.B.S student must							
	be able to discuss correctly etiopathogenesis of portal							
	hypertension.							
•			•		•	•		

25.5.4	1					I			
25.5.4	At the end of session, whose HAADDC student must								
	At the end of session, phase II M.B.B.S student must be able to discuss accurately clinical features and								
	•								
25.5.5	consequences of Portal Hypertension.  At the end of session, phase II M.B.B.S student must								
25.5.5	be able to discuss complications of portal								
	hypertension briefly.								
PA25.6	1 11	S	Р	Υ	DOAD session	Skill	1	Canaral	
PA25.0	Interpret liver function and viral hepatitis serology	3	P	ľ	DOAP session	_	1	General	
	panel. Distinguish obstructive from non-obstructive					assessment		Medicin	
	jaundice based on clinical features and liver function							e,	
	tests (Lower level of learning for this competency has been covered in Phase 1. BI 11.17)							General Surgery	
	this competency has been covered in Phase 1. Bi 11.171							Surgery	
25.6.1									
23.0.1	At the end of session, phase II M.B.B.S student must be								
	able to correctly differentiate between obstructive and								
	non-obstructive causes of jaundice.								
25.6.2	At the end of session, phase II M.B.B.S student must be								
25.6.2	able to correctly interpret LFT s with viral hepatitis								
	serology.								
25.6.3	scrology.								
25.0.5	At the end of session, phase II M.B.B.S student must								
	be able to relate and interpret the Liver function test								
	to the different stages of Liver disease accurately.								
25.6.4	At the end of session, phase II M.B.B.S student must be								
23.0.4	able to correctly describe the Gross and microscopic								
	findings of cirrhosis.								
25.6.5	<u> </u>								
	At the end of session, phase II M.B.B.S student must								
	be able to discuss the Gross and microscopic findings								
	of chronic cholecystitis correctly.								
25.6.6	·								
	At the end of session, phase II M.B.B.S student must								
	be able to briefly discuss different types of gallstones								
Topic: Res	spiratory System Number of c	ompetenci	es: (10)			Number of p	rocedure	that requ	ire certific
PA26.1	Define and describe the etiology, types, pathogenesis,	K	KH	Υ	Lecture, Small	Written/		General	Microbiol
	stages morphology and complications of pneumonia				group discussion	Viva voce		Medicin	oby
								e	
26.1.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define pneumonia and enumerate the								
	various types of pneumonia precisely.								
26.1.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss in detail the etiology and				1				
	pathogenesis of pneumonia.								
26.1.3	At the end of session, phase II M.B.B.S student must								
	be able to accurately describe the morphology and				1				
	various stages of pneumonia.	<u> </u>							
26.1.4	At the end of session, phase II M.B.B.S student must								
	be able to describe briefly the various complications of								
	pneumonia.								
	·								

PA26.2	Describe the etiology, gross and microscopic	K	КН	v	Lecture, Small	Written/		General	Microbiol
FA20.2	appearance and complications of lung abscess	K	KII		group discussion			Medicin	
	appearance and complications of fung abscess				group discussion	viva voce		e	ову
								e	
26.2.1	At the end of session, phase II M.B.B.S student must								
	be able to define lung abscess precisely.								
26.2.2									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly etiology of lung abscess.						1		
26.2.3	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe gross and microscopic								
26.2.4	appearance of lung abscess.				_				
26.2.4	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the complications of lung								
DA 2 C 2	abscess.	1/	IZLI	V	Lastona Carall	\A/:++ /		Dharaiala	N 4: I- : - I
PA26.3	Define and describe the etiology, types, pathogenesis,	K	KH	Υ	Lecture, Small	Written/			Microbiol
	stages, morphology, complications, evaluation of				group discussion	viva voce		gy,	oby
	Obstructive airway disease (OAD) and bronchiectasis							General	
								Medicin	
								е	
26.3.1									
20.3.1	At the end of session, phase II M.B.B.S student must								
	be able to define obstructive airway disease (OAD)								
	and enlist its various types precisely.								
26.3.2	At the end of session, phase II M.B.B.S student must								
	be able to define emphysema precisely and								
	enumerate its types								
26.3.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss in detail the etio-pathogenesis and								
	morphology of emphysema.								
26.3.4	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly the evaluation and								
	complications of emphysema.								
26.3.5									
	At the end of session, phase II M.B.B.S student must								
	be able to define chronic bronchitis precisely.								
26.3.6									
	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the etio—pathogenesis and								
	morphology of chronic bronchitis.						1		
26.3.7	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly the evaluation and								
26.2.0	complications of chronic bronchitis.	<del>                                     </del>	-				+		
26.3.8	At the end of session, phase II M.B.B.S student must								
	be able to define asthma precisely and enumerate its								
26.2.0	At the end of session, phase II M.B.B.S student must	1			-		<del>                                     </del>		
26.3.9	be able to discuss in detail the etio-pathogenesis and								
	morphology of asthma.								
	morphology or ascillia.	1				1	1	1	1

26.2.10	At the end of session, phase II M.P.P. Signature		I		ı				1
26.3.10	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly the evaluation and								
	complications of asthma.								
26.3.11	At the end of session, phase II M.B.B.S student must								
	be able to define bronchiectasis precisely and								
	enumerate its types								
26.3.12	At the end of session, phase II M.B.B.S student must								
	be able to discuss in detail the etio-pathogenesis and								
	morphology of bronchiectasis.								
26.3.13	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly the evaluation and								
	complications of bronchiectasis.								
PA26.4	Define and describe the etiology, types, pathogenesis,	К	KH	Υ	Lecture, Small	Written/		General	Microbiol
	stages, morphology microscopic appearance and	.`		•	group discussion	•		Medicin	
	complications of tuberculosis				Broup discussion	VIVA VOCC		e	ODY
	complications of tuberculosis							C	
26.4.1	At the end of session, phase II M.B.B.S student must								
	be able to define tuberculosis precisely.								
26.4.2	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the etiology, and modes of								
	transmission of tuberculosis								
26.4.3	At the end of session, phase II M.B.B.S student must								
20.4.5	be able to discuss in detail the pathogenesis and								
	stages of tuberculosis.								
26.4.4	stages of tuberculosis.								
20.4.4	At the end of session, phase II M.P. P. S. student must								
	At the end of session, phase II M.B.B.S student must								
	be able to describe the types of tuberculosis with								
	relevant morphology appropriately.								
26.4.5	At the end of session, phase II M.B.B.S student must								
	be able to describe the microscopic appearance of								
	tuberculosis accurately.								
26.4.6									
	At the end of session, phase II M.B.B.S student must								
	be able to correctly discuss the complications and fate								
	of primary and secondary tuberculosis.								
PA26.5	Define and describe the etiology, types, exposure,	K	KH	Υ	Lecture, Small	Written/		General	
	environmental influence, pathogenesis, stages,				group discussion	Viva voce		Medicin	
	morphology, microscopic appearance and							e,	
	complications of Occupational lung disease							Commu	
								nity	
								Medicin	
								e	
26.5.1	At the end of session, phase II M.B.B.S student must								
	be able to define chronic interstitial lung diseases and								
	enlist its various types precisely.								
26.5.2	· · · · ·								
	At the end of session, phase II M.B.B.S student must								
	be able to define occupational lung disease precisely.								
	be asic to define occupational fully disease precisely.	1	L	l	l		1	L	l

		1	1			T	1		
26.5.3									
	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate various oocupational lung								
	diseases based on casautive agents and exposure.								
26.5.4									
	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the pathogenesis and stages								
	of coal workers pneumoconiosis.								
26.5.5									
	At the end of session, phase II M.B.B.S student must								
	be able to describe morphology and complications of								
	coal workers Pneumoconiosis correctly								
26.5.6									
	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe the pathogenesis of silicosis.								
26.5.7	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe the morphology and course				1				
	of silicosis.								
26.5.8	At the end of session, phase II M.B.B.S student must			<del>                                     </del>	<del> </del>				
20.3.6	be able to briefly describe pathogenesis of asbestos								
	related diseases.								
26.5.0	related diseases.								
26.5.9	At the end of engine where HAADDC student must								
	At the end of session, phase II M.B.B.S student must								
	be able to correctly describe the morphology and								
	course of asbestos related diseases.							_	
PA26.6	Define and describe the etiology, types, exposure,	K	KH	Υ	Lecture, Small	Written/		General	
	genetics environmental influence, pathogenesis,				group discussion	Viva voce		Medicin	
	stages, morphology, microscopic appearance,							е	
	metastases and complications of tumors of the lung								
	and pleura								
26.6.1	At the end of session, phase II M.B.B.S student must								
	be able to discuss the etio- pathogenesis of Lung								
	cancer including genetic, environmental influence								
	correctly.								
26.6.2	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the various types of lung								
	cancer.								
26.6.3	At the end of session, phase II M.B.B.S student must								
	be able to describe the morphology and microscopic								
	appearance of various subtypes of lung cancer				1				
	accurately.								
26.6.4	At the end of session, phase II M.B.B.S student must								
	be able to describe the staging, and metastasis of lung								
	cancer correctly								
26.6.5				<b>†</b>	1				
	At the end of session, phase II M.B.B.S student must				1				
		1	1	i	1	i	1	1	l
	be able to describe the complications of lung cancer								
	be able to describe the complications of lung cancer correctly including paraneoplastic syndromes								

PA26.7	Define and describe the etiology, types, exposure,	K	KH	Υ	Lecture, Small	Written/		General	
FA20.7		K	KII	•		-			
	genetics environmental influence, pathogenesis,				group discussion	viva voce		Medicin	
	morphology, microscopic appearance and							e,	
	complications of mesothelioma							Commu	
								nity	
								Medicin	
								e	
26.7.1	At the end of session, phase II M.B.B.S student must								
	be able to define mesothelioma.								
26.7.2									
	At the end of session, phase II M.B.B.S student must								
	be able to describe the etiology, genetic and								
	environmental influence in pathogenesis correctly.								
26.7.3	environmental initiative in patriogenesis correctly.								
201710	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the morphology and								
	, , , , , , , , , , , , , , , , , , , ,								
26.7.4	microscopic types of mesothelioma.								
26.7.4	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the clinical course and								
	complications of mesothelioma.								
PA27.1	diovascular system Number of o			v		Number of pr	ocedure t		e certifica
PA27.1	Distinguish arteriosclerosis from atherosclerosis.	K	KH	Y	*	Written/		General	
	Describe the pathogenesis and pathology of various				group discussion	Viva voce		Medicin	
	causes and types of arteriosclerosis							е	
27.1.1	At the end of session, phase II M.B.B.S student must								
	be able to precisely Define and describe								
	arteriosclerosis.								
27.1.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly the etiopathogenesis and								
	types of arteriosclerosis.								
27.1.3	() pes or area resolutions.								
27.1.5	At the end of session, phase II M.B.B.S student must								
	be able to define and describe in detail the								
	etiopathogenesis and morphology of atherosclerosis.								
27.1.4									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss Lipid metabolism correctly. (Lower								
	level of learning for this competency has been covered								
	in Phase 1, BI 4.3, 4.4)								
PA27.2	Describe the etiology, dynamics, pathology types and	K	KH	Υ	Lecture, Small	Written/		General	
	complications of aneurysms including aortic aneurysms				group discussion	Viva voce		Medicin	
	, and the state of				5			e	
27.2.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define and classify aneurysm correctly.								
	1	l		1	I				

27.2.2	T			1	1		1	1	
21.2.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly the etiopathogenesis of								
	different types of aneurysms.								
27.2.3	At the end of session, phase II M.B.B.S student must								
	be able to enlist accurately complications of								
	aneurysms including aortic aneurysms.								
PA27.3	Describe the etiology, types, stages pathophysiology,	K	KH	Υ	Lecture, Small	Written/		General	
	pathology and complications of heart failure				group discussion	Viva voce		Medicin	
								e,	
								physiolo	
								gy	
27.3.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define heart failure correctly and discuss its								
	types with relevant pathological morphology.								
27.3.2	At the end of session, phase II M.B.B.S student must								
	be able to correctly Describe stages of heart failure								
	and its pathology.								
27.3.3	At the end of session, phase II M.B.B.S student must								
	be able to enumerate and Discuss complications of								
DA 27.4	heart failure Correctly	14	141.1	.,		14/ 11/ /		6 1	n a:   :
PA27.4	Describe the etiology, pathophysiology, pathology,	K	KH	Υ	Lecture, Small	Written/			Microbilo
	gross and microscopic features, criteria and				group discussion	viva voce		Medicin	logy
	complications of rheumatic fever							е	
27.4.1	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe rheumatic heart disease and								
	its etiopathogenesis.								
27.4.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss in detail morphology of rheumatic								
	heart disease.								
27.4.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss complication of rheumatic heart								
	disease including valvular pathological changes								
27.4.4	At the end of session, phase II M.B.B.S student must be								
27.4.4	able to correctly describe extra cardiac involvement of								
	rheumatic fever.								
PA27.5	Describe the epidemiology, risk factors, etiology,	K	KH	Υ	Lecture, Small	Written/		General	
	pathophysiology, pathology, presentations, gross and				group discussion			Medicin	
	microscopic features, diagnostic tests and							e	
	complications of ischemic heart disease								
27.5.1	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe epidemiology and risk								
27.5.2	factors of ischemic heart disease.								
27.5.2	At the end of session, phase II M.B.B.S student must								
	be able to describe etiopathogenesis of IHD in detail.								
L	se asie to describe enopathogenesis of into in detail.	I	I .	ı	i .		l	l	

27.5.2	At the and of session whose ILMA D.D.C student must		ı		1	1			1
27.5.3	At the end of session, phase II M.B.B.S student must								
	be able to describe in detail the morphology and								
	clinical presentation of IHD.								
27.5.4									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly complications of IHD.								
27.5.5	At the end of session, phase II M.B.B.S student must								
	be able to discuss accurately the lab diagnosis of								
	myocardial infarction.								
PA27.6	Describe the etiology, pathophysiology, pathology,	K	KH	Υ	Lecture, Small	Written/		General	Microbiol
	gross and microscopic features, diagnosis and				group discussion	Viva voce		Medicin	ogy
	complications of infective endocarditis							e	
27.6.1	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe infective endocarditis and its								
	pathophysiology.								
27.6.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss gross and microscopic features of								
	infective endocarditis correctly.								
27.6.3	At the end of session, phase II M.B.B.S student must be								
27.0.5	able to briefly describe the diagnosis and complication								
	of infective endocarditis.								
27.6.4	At the end of session, phase II M.B.B.S student must								
27.0.4	•								
	be able to describe differences in vegetation of								
	rheumatic heart disease and infective endocarditis								
	correctly.	.,							
PA27.7	Describe the etiology, pathophysiology, pathology,	K	KH	Υ	Lecture, Small	Written/		General	
	gross and microscopic features, diagnosis and				group discussion	Viva voce		Medicin	
	complications of pericarditis and pericardial effusion							е	
	ALL L. C. C. L. HAADBC L. L. C. L.								
27.7.1	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe pericarditis and its various								
	types with causes.								
27.7.2	At the end of session, phase II M.B.B.S student must be								
	able to briefly describe the morphological pathology of								
	pericarditis.								
27.7.3	At the end of session, phase II M.B.B.S student must				1				
	be able to discuss complications of pericardial effusion								
	briefly.								
PA27.8	Interpret abnormalities in cardiac function testing in	S	SH	Υ	DOAP session	Skill		General	
	acute coronary syndromes					Assessment		Medicin	
	(Lower level of learning							e,	
27.8.1	At the end of session, phase II M.B.B.S student must								
	be able to discuss correctly diagnosis of acute								
	coronary syndromes.								
27.8.2	· ·								
	At the end of session, phase II M.B.B.S student must				1				
	be able to enumerate and Describe relevant serum								
	cardiac markers in ischemic heart disease accurately.				1				
L	The state of the s	<u> </u>	1	1	1	l	L	1	1

27.8.3	At the end of session, phase II M.B.B.S student must be able to discuss differential diagnosis of biochemical								
	markers in relation to stroke and ischemic heart disease accurately.								
PA27.9	Classify and describe the etiology, types, pathophysiology, pathology, gross and microscopic features, diagnosis and complications of cardiomyopathies	К	КН	Υ	Lecture, Small group discussion	Written/ Viva voce		General Medicin e, Physiolo gy	
27.9.1	At the end of session, phase II M.B.B.S student must be able to define precisely and classify cardiomyopathies on the basis of etiology.								
27.9.2									
	At the end of session, phase II M.B.B.S student must be able to correctly describe the etiopathogenesis of								
	different types of cardiomyopathies.								
27.9.3	At the end of session, phase II M.B.B.S student must be able to briefly describe morphology (gross and microscopy) of cardiomyopathies.								
27.9.4	At the end of session, phase II M.B.B.S student must be able to discuss diagnosis of cardiomyopathy and its complications correctly.								
PA27.10	Describe the etiology, pathophysiology, pathological	K	KH	Υ	Lecture, Small	Written/		General	Microbiol
	features and complications of syphilis on the				group discussion	Viva voce		Medicin	ogy
	cardiovascular system							e	0,
	7								
27.10.1	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe etiology and								
	pathophysiology of cardiovascular syphilis (in relation								
	to heart and aorta).								
27.10.2	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe morphologic pathology of								
	syphilis of CVS.								
27.10.3	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe complications of syphilis of								
	CVS.								
Topic: Urir		mpetencie	s: (16)			Number of p	rocedure t	hat requi	re certifica
PA28.1	Describe the normal histology of the kidney	K	KH	Υ	Lecture, Small	Written/			
	Recap . Lower				group discussion	Viva voce			
	level of competency already achieved in phase I Py7.1,								
28.1.1	At the end of session, phase II M.B.B.S student must								
	be able to correctly Describe the structure of nephron								
	correctly								
28.1.2	At the end of session, phase II M.B.B.S student must								
	be able to describe the normal histologic structures of								
	glomeruli, tubules, interstitium and blood vessels								
20.1.2	correctly	1		1					
28.1.3	At the end of session, phase II M.B.B.S student must be able to correctly describe the ultrastructure of								
	glomerular filtration membrane								
L	biomeraiai intration membrane	1	l	1	I			l	

PA28.2	Define, classify and distinguish the clinical syndromes	K	кн	v	Lecture, Small	Written/		
FA20.2	and describe the etiology, pathogenesis, pathology,	K	KH	ľ	group discussion			
	morphology, clinical and laboratory and urinary				group discussion	viva voce		
	findings, complications of renal failure							
	inidings, complications of renal failure							
28.2.1	At the end of session, phase II M.B.B.S student must							
	be able to define renal failure and classify on the basis							
	of pathophysiology precisely							
28.2.2	At the end of session, phase II M.B.B.S student must							
	be able to define Nephrotic syndrome and enumerate							
	its causes precisely							
28.2.3								
	At the end of session, phase II M.B.B.S student must							
	be able to correctly Describe the etiopathogenesis and							
	clinical findings of nephrotic syndrome.							
28.2.4	At the end of session, phase II M.B.B.S student must							
	be able to correctly Describe the urinary and							
	laboratory findings of nephrotic syndrome							
28.2.5	At the end of session, phase II M.B.B.S student must							
	be able to define Nephritic syndrome and enumerate							
	its causes precisely.							
28.2.6								
	At the end of session, phase II M.B.B.S student must							
	be able to correctly Describe the etiopathogenesis and							
	clinical findings ofnephritic syndrome.							
28.2.7	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe the urinary and laboratory							
	findings of nephritic syndrome.							
PA28.3	Define and describe the etiology, precipitation factors,	K	KH	Υ	Lecture, Small	Written/	General	
	pathogenesis, pathology, laboratory urinary findings,				group discussion	Viva voce	Medicin	
	progression and complications of acute renal failure						e	
28.3.1	At the end of session, phase II M.B.B.S student must							
	be able to define acute renal failure precisely and							
	discuss the etiopathogenesis	ļ			-			
28.3.2								
	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe the clinical presentation,							
20.0 -	urinary and laboratory findings in acute renal failure			<b></b>				
28.3.3	At the end of session, phase II M.B.B.S student must				1			
	be able to enlist the complications of acute renal				1			
5105	failure correctly	.,						
PA28.4	Define and describe the etiology, precipitation factors,	K	KH	Υ	Lecture, Small		General	
	pathogenesis, pathology, laboratory urinary findings				group discussion	Viva voce	Medicin	
	progression and complications of chronic renal failure						е	
28.4.1	At the end of session, phase II M.B.B.S student must			-				
∠∪.4.1	be able to define chronic renal failure and discuss the							
	etiopathogenesis correctly							
	enopaniogenesis correctly	1		<u> </u>	<u> </u>			

					1	T	1	1	
28.4.2	At the end of session, phase II M.B.B.S student must								
	be able to describe the clinical presentation, urinary								
	and laboratory findings in chronic renal failure								
	correctly								
28.4.3	At the end of session, phase II M.B.B.S student must								
	be able to enlist the complications of chronic renal								
	failure correctly								
PA28.5	Define and classify glomerular diseases. Enumerate	K	KH	Υ	Lecture, Small	Written/		Physiolo	
	and describe the etiology, pathogenesis, mechanisms				group discussion	Viva voce		gy,	
	of glomerular injury, pathology, distinguishing features							General	
	and clinical manifestation of glomerulonephritis							Medicin	
								е	
28.5.1	At the end of session, phase II M.B.B.S student must								
20.5.1	be able to discuss the pathogenesis of glomerular								
	injury in detail								
28.5.2	ingery in detail								
	At the end of session, phase II M.B.B.S student must								
	be able to classify Glomerulonephritis correctly								
28.5.3	At the end of session, phase II M.B.B.S student must								
	be able to describe the etiopathogenesis, clinical								
	presentation of acute post-infectious								
	glomerulonephritis correctly								
28.5.4	At the end of session, phase II M.B.B.S student must								
	be able to describe urinary, laboratory findings and								
	disease \progression of Acute post-infectious								
	glomerulonephritis correctly								
28.5.5									
	At the end of session, phase II M.B.B.S student must								
	be able to correctly Describe the gross and relevant								
	microscopic (light immunofluorescence/ electron)								
	findings of Acute post infectious glomerulonephritis								
28.5.6	At the end of session, phase II M.B.B.S student must								
	be able to describe the etiopathogenesis, clinical								
	presentation of Rapidly progressive								
	Glomerulonephritis correctly								
28.5.7									
	At the end of session, phase II M.B.B.S student must								
	be able to correctly Describe the gross and relevant								
	microscopic (light, immunofluorescence/ electron)								
	findings of Rapidly Progressive Glomerulonephritis								
28.5.8									
	At the end of session, phase II M.B.B.S student must								
	be able to describe the etiopathogenesis, clinical								
	presentation of Membranous Nephropathy correctly		1						
28.5.9	At the end of session, phase II M.B.B.S student must								
	be able to describe the urinary and laboratory findings								
	and disease progression of rapidly Progressive								
	Glomerulonephritis correctly								

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28.5.10							
	At the end of session, phase II M.B.B.S student must						
	be able to correctly Describe the gross and relevant						
	microscopic (light, immunofluorescence/ electron)						
	findings of Membranous Nephropathy						
28.5.11							
	At the end of session, phase II M.B.B.S student must						
	be able to describe the etiopathogenesis, clinical						
	presentation of Minimal change disease correctly						
28.5.12	At the end of session, phase II M.B.B.S student must						
	be able to describe urinary and laboratory findings						
	and disease progression of minimal change disease						
	correctly						
28.5.13							
	At the end of session, phase II M.B.B.S student must be						
	able to correctly describe the gross and relevant						
	microscopic (light, immunofluorescence/electron)						
	findings of Minimal change disease						
28.5.14	At the end of session, phase II M.B.B.S student must						
	be able to describe the etiopathogenesis, clinical						
	presentation of Focal segmental Glomerulosclerosis						
	correctly						
28.5.15	At the end of session, phase II M.B.B.S student must						
	be able to describe the urinary and laboratory findings						
	and disease progression of focal segmental						
	glomerulosclerosis correctly						
28.5.16	,						
	At the end of session, phase II M.B.B.S student must be						
	able to correctly describe the gross and relevant						
	microscopic (light, immunofluorescence/electron)						
	findings of Focal segmental glomerulosclerosis						
28.5.17	At the end of session, phase II M.B.B.S student must be						
20.3.17	able to describe the etiopathogenesis, clinical						
	presentation, of Membranoproliferative						
	Gomerulonephritis correctly						
28.5.18	domeration correctly						
20.3.10	At the end of session, phase II M.B.B.S student must						
	be able to describe the urinary, laboratory findings						
	and disease progression of Membranoproliferative						
	Gomerulonephritis correctly						
28.5.19	Some dionephilia correctly						
20.3.13	At the end of session, phase II M.B.B.S student must be						
	able to correctly describe the gross and relevant						
	microscopic (light, immunofluorescence/electron)						
	, , , , , , , , , , , , , , , , , , , ,						
20 E 20	findings of Membranoproliferative Glomerulonephritis						
28.5.20	At the end of session, phase U.M.A.D.D.C. student						
	At the end of session, phase II M.B.B.S student must						
20.5.24	be able to briefly discuss dense deposit disease.						
28.5.21	At the end of session, phase II M.B.B.S student must						
	be able to describe the etiopathogenesis, clinical						
	presentation, urinary and laboratory findings and						
	disease progression of chronic glomerulonephritis						
	correctly						

28.5.22				I			1		
20.3.22	At the end of session, phase II M.B.B.S student must								
	be able to describe the gross and relevant microscopic								
	(light, immunofluorescence/electron) findings of								
	chronic glomerulonephritis correctly								
28.5.23	At the end of session, phase II M.B.B.S student must								
20.3.23	be able to discuss briefly Hereditary								
	Glomerulonephritis								
PA28.6	Define and describe the etiology, pathogenesis,	K	KH	Υ	Lecture, Small	Written/		General	
1 A20.0	pathology, laboratory, urinary findings, progression	IX.	IXI I		group discussion			Medicin	
	and complication of IgA nephropathy				group discussion	VIVA VOCE		e	
	and complication of IgA nephropatry							C	
28.6.1	At the and of session whose HMADD Catudent would								
	At the end of session, phase II M.B.B.S student must								
	be able to define IgA nephropathy precisely and								
20.6.2	briefly describe its etiopathogenesis								
28.6.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss briefly the clinical presentation and								
	disease progression of IgA nephropathy								
28.6.3	At the end of session, phase II M.B.B.S student must			<del>                                     </del>			<del>                                     </del>		
26.0.3	be able to discuss the urinary and laboratory findings								
	of IgA nephropathy correctly								
PA28.7	Enumerate and describe the findings in glomerular	K	KH	Υ	Lecture, Small	Written/		General	
. , .20.,	manifestation of systemic disease				group discussion	•		Medicin	
	That in estation of systemic disease				Broap allocassion			e	
								C	
28.7.1									
	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate the different systemic								
20.7.2	disorders with glomerular manifestations								
28.7.2	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe the gross and microscopic								
20.7.2	features of Diabetic Nephropathy	1		1			1		
28.7.3	At the end of session, phase II M.B.B.S student must								
	be able to describe the gross and microscopic features								
PA28.8	of Lupus Nephritis correctly  Enumerate and classify disease affecting the tubular	K	KH	Υ	Lecture, Small	Written/		General	
PAZ0.0	interstitium	K	KH		group discussion			Medicin	
	interstitutiii				bi oup discussion	VIVA VOCE		e	
20.0.4									
28.8.1	At the end of cossion phase UNA D.D.C student								
	At the end of session, phase II M.B.B.S student must								
	be able to precisely enumerate and classify various								
20.0.2	tubular interstitial diseases on the basis of etiology	1		1			-		
28.8.2	At the end of session, phase II M.B.B.S student must								
	be able to briefly discuss various causes induced								
28.8.3	tubulointerstitial nephritis			1			-		
20.0.3	At the end of session, phase II M.B.B.S student must								
	be able to describe briefly Myeloma Nephropathy								
L	be able to describe briefly Myelollia Nephilopathy	l	l	1	i .	l	<u> </u>		

PA28.9	Define and describe the etiology, pathogenesis,	K	КН	Υ	Lecture, Small	Written/	General	
FA20.5	pathology, laboratory, urinary findings, progression	K	KH	'	group discussion	-	Medicin	
	and complications of acute tubular necrosis				group discussion	viva voce		
	and complications of acute tubular necrosis						е	
22.2.4								
28.9.1								
	At the end of session, phase II M.B.B.S student must							
20.0.2	be able to define acute tubular necrosis precisely							
28.9.2	At the end of session, phase II M.B.B.S student must							
	be able to discuss the etiopathogenesis of acute							
20.0.2	tubular necrosis appropriately							
28.9.3	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe the clinical, morphological, urinary and laboratory findings in acute tubular							
	necrosis							
28.9.4	At the end of session, phase II M.B.B.S student must							
20.3.4	be able to enumerate the complications and describe							
	the disease progression of acute tubular necrosis							
	correctly							
28.9.5	At the end of session, phase II M.B.B.S student must be							
20.5.5	able to correctly differentiate between Ischemic and							
	Toxic acute tubular necrosis							
PA28.10	Describe the etiology, pathogenesis, pathology,	K	КН	Υ	Lecture, Small	Written/	Human	
	laboratory findings, distinguishing features				group discussion		Anatom	
	progression and complications of acute and chronic				8 1		у,	
	pyelonephritis and reflux nephropathy						General	
							Medicin	
							e	
28.10.1	At the end of session, phase II M.B.B.S student must							
26.10.1	be able to discuss the etiopathogenesis of acute							
	Pyelonephritis correctly							
28.10.2	r yelonephinus correctly							
20.10.2	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe the clinical, morphological,							
	urinary and laboratory findings in acute Pyelonephritis							
28.10.3.	At the end of session, phase II M.B.B.S student must be							
	able to correctly enumerate complications of acute							
	pyelonephritis							
28.10.4	At the end of session, phase II M.B.B.S student must							
	be able to discuss the etiopathogenesis of chronic							
	Pyelonephritis correctly							
28.10.5	At the end of session, phase II M.B.B.S student must							
	be able to describe the clinical, morphological,				1			
	urinary and laboratory findings in chronic							
	Pyelonephritis correctly							
28.10.6								
	At the end of session, phase II M.B.B.S student must							
	be able to briefly discuss Reflux nephropathy							
PA28.11	Define , classify and describe the etiology,	K	KH	Υ	Lecture, Small	Written/	General	
	pathogenesis, pathology, laboratory, urinary findings,				group discussion	Viva voce	Medicin	
	distinguishing features progression and complications						e	
	of vascular disease of the kidney							

	1	1	T	1	1	1		1	
28.11.1	At the end of session, phase II M.B.B.S student must								
	be able to define hypertension and classify on basis of								
20.44.0	etiology precisely								
28.11.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss the etiopathogenesis of primary and								
	secondary hypertension correctly								
28.11.3	At the end of session, phase II M.B.B.S student must								
	be able to describe the clinical, morphological,								
	urinary and laboratory findings of benign								
20.44.4	Nephrosclerosis correctly						-		
28.11.4	At the end of session, phase II M.P.P.S student must								
	At the end of session, phase II M.B.B.S student must be able to describe the clinical, morphological, urinary								
	and laboratory findings in malignant								
	nephrosclerosis/accelerated hypertension correctly								
PA28.12	Define, classify and describe the genetics, inheritance,	K	КН	Υ	Lecture, Small	Written/		General	
F A20.12	etiology, pathogenesis, pathology, laboratory, urinary	IX.	KII	l'	group discussion			Medicin	
	findings, distinguishing features, progression and				group discussion	VIVA VOCC		e,	
	complications of cystic disease of the kidney							Pediatric	
	complications of cystic disease of the kidney							s	
28.12.1									
	At the end of session, phase II M.B.B.S student must								
	be able to classify cystic diseases of kidney precisely								
28.12.2	At the end of session, phase II M.B.B.S student must								
	be able to define and correctly describe the genetics,								
	inheritance, etiopathogenesis, clinical and								
	morphological findings in Polycystic kidney disease-								
	Adult								
28.12.3	At the end of session, phase II M.B.B.S student must								
	be able to define and correctly describe the genetics,								
	inheritance, etiopathogenesis, clinical and								
	morphological findings in Polycystic kidney disease-								
	Infantile								
28.12.4									
	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe Medullary cystic disease								
28.12.5									
	At the end of session, phase II M.B.B.S student must								
20.10.0	be able to briefly describe multicystic renal dysplasia								
28.12.6	At the and of cossion whose UAA D.D.C. student								
	At the end of session, phase II M.B.B.S student must								
DA 20 12	be able to briefly describe acquired cystic disease	V	VΠ	V	Locturo Casall	\A/ritton/		Concrel	
PA28.13	Define classify and describe the etiology, pathogenesis, pathology, laboratory, urinary findings,	K	KH	Υ	Lecture, Small	Written/		General	
	distinguishing features progression and complications				group discussion	viva voce		Surgery	
	of renal stone disease and obstructive uropathy								
	or remai storic disease and obstructive dropatily								
28.13.1	At the end of session, phase II M.B.B.S student must			1					
	be able to enumerate causes of Obstructive uropathy								
	correctly								

20.2.2	At the end of session, phase II M.B.B.S student must	1	1	1	1	I	ı	ı .	
28.3.2	71								
	be able to enumerate different types of urinary calculi								
	and discuss the etiopathogenesis of calculus formation								
	correctly								
28.13.3	At the end of session, phase II M.B.B.S student must								
	be able to describe clinical and urinary findings in								
	renal stone disease correctly								
28.13.4	At the end of session, phase II M.B.B.S student must								
	be able to enumerate the complications of urinary								
	calculi correctly								
28.13.5									
	At the end of session, phase II M.B.B.S student must								
	be able to describe briefly the etiopathogenesis and								
	morphological findings in Hydronephrosis								
PA28.14	Classify and describe the etiology, genetics,	K	KH	Υ	Lecture, Small	Written/		Pediatric	
	pathogenesis, pathology, presenting features,				group discussion	Viva voce		S	
	progression and spread of renal tumors								
28.14.1	At the end of session, phase II M.B.B.S student must								
	be able to classify renal tumors pecisely								
28.14.2	At the end of session, phase II M.B.B.S student must								
	be able to discuss the genetics and etiology of renal								
	cell carcinoma correctly								
28.14.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss the presenting clinical features of								
	renal cell carcinoma and describe the different								
	morphological variants correctly								
28.14.4	At the end of session, phase II M.B.B.S student must								
	be able to discuss the progression and spread of renal								
	cell carcinoma correctly								
28.14.5	,								
	At the end of session, phase II M.B.B.S student must								
	be able to describe the etiology, genetics and clinical								
	presentation of Wilm's Tumor correctly								
28.14.6									
	At the end of session, phase II M.B.B.S student must								
	be able to describe the morphological (gross and								
	microscopic) features of Wilm's tumor correctly								
PA28.15	Describe the etiology, genetics, pathogenesis,	K	KH	Υ	Lecture, Small	Written/		General	
. / .20.25	pathology, presenting features and progression of				group discussion			Medicin	
	thrombotic angiopathies				Broap discussion	VIVA VOCC		e	
	an ombotic ungroputines								
28.15.1									
_0.13.1	At the end of session, phase II M.B.B.S student must				1				
	be able to discuss etiopathogenesis and genetics in				1				
	thrombotic microangiopathies correctly				1				
28.15.2	At the end of session, phase II M.B.B.S student must			<b> </b>	<del> </del>				
20.13.2	be able to describe the clinical presentation and				1				
	•				1				
	morphological features of thrombotic				1				
DA20.46	microangiopathies correctly	V	IZI I	V	Lookuma Carall	Maith and		Concret	
PA28.16	Describe the etiology, genetics, pathogenesis,	K	KH	Υ	Lecture, Small	Written/		General	
	pathology, presenting features and progression of				group discussion	viva voce		Surgery	
	urothelial tumors								

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a voce Surge	ery
ittra	tten/ General Surg

29.3.2									
23.3.2	At the end of session, phase II M.B.B.S student must								
	be able to describe the clinical presentation and								
	morphology of benign prostatic hyperplasia correctly.								
29.3.3	At the end of session, phase II M.B.B.S student must								
25.5.5	be able to describe the diagnostic tests and								
	management of benign prostatic hyperplasia								
	appropriately								
PA29.4	Describe the pathogenesis, pathology, hormonal	K	KH	Υ	Lecture, Small	Written/		General	
	dependency presenting and distinguishing features,				group discussion	•		Surgery	
	diagnostic tests, progression and spread of carcinoma				B. oup alsoussion			ou.gc.,	
	of the prostate								
29.4.1									
	At the end of session, phase II M.B.B.S student must								
	be able to describe the incidence, etiology and								
	pathogenesis of carcinoma of prostate correctly.								
29.4.2	At the end of session, phase II M.B.B.S student must								
	be able to describe the morphology of carcinoma of								
	prostate correctly.								
29.4.3	At the end of session, phase II M.B.B.S student must								
	be able to discuss the clinical course, grading, staging,								
	progression and spread of carcinoma of prostate								
	correctly.								
PA29.5	Describe the etiology, pathogenesis, pathology and	K	KH	Υ	Lecture, Small	Written/		General	
	progression of prostatitis				group discussion	Viva voce		Surgery	
29.5.1	At the end of session, phase II M.B.B.S student must								
	be able to enlist the various types of prostatitis								
20.5.2	correctly.								
29.5.2	At the end of energies where UNA D.D.C. student mount								
	At the end of session, phase II M.B.B.S student must								
	be able to describe the etiology, pathogenesis and								
Tonic: Fon	morphology of various subtypes of prostatitis correctly nale Genital Tract Number of co	mnotonoio	c. (00)			lumber of pr		hat raqui	o cortifica
PA30.1	Describe the epidemiology, pathogenesis, pathology,	K	s. (09) KH	Υ	Lecture, Small	Written/	leaures	Obstetri	e certifica
FA30.1	etiology, screening, diagnosis and progression of	K	KH	'	group discussion	•		cs &	
	carcinoma of the cervix				group discussion	viva voce		Gynaeco	
	curemonia of the cervix							logy	
								logy	
30.1.1	At the end of session, phase II M.B.B.S student must be								
50.2.2	able to correctly describe epidemiology of carcinoma								
	of cervix.								
30.1.2	At the end of session, phase II M.B.B.S student must								
	be able to describe etiopathogenesis of carcinoma of								
	cervix in detail.								
30.1.3				1					
	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe cervical screening and				1				
	diagnostic features (Bethesda classification)								
30.1.4	At the end of session, phase II M.B.B.S student must								
	be able to describe progression of carcinoma of cervix								
	correctly				1				
		•		•	•				

PA30.2	Describe the pathogenesis, etiology, pathology,	K	КН	ly	Lecture, Small	Written/	Obstetri	
1 730.2	diagnosis, progression and spread of carcinoma of the	IX.	IXI I	'	group discussion	-	cs &	
	endometrium				Broap discussion	VIVA VOCC	Gynaeco	
							logy	
							1-8/	
30.2.1	At the end of session, phase II M.B.B.S student must							
	be able to briefly describe the etiology of carcinoma of							
	endometrium (FIGO).							
30.2.2	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe pathogenesis of carcinoma							
	of endometrium.							
30.2.3	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe morphological features of							
30.2.4	carcinoma of endometrium.  At the end of session, phase II M.B.B.S student must be							
30.2.4	able to correctly describe progression and spread of							
	carcinoma of endometrium.							
PA30.3	Describe the pathogenesis, etiology, pathology,	K	KH	Υ	Lecture, Small	Written/	Obstetri	
	diagnosis and progression and spread of carcinoma of				group discussion	-	cs &	
	the leiomyomas and leiomyosarcomas				S		Gynaeco	
	, ,						logy	
30.3.1	At the end of session, phase II M.B.B.S student must							
	be able to describe etiology of Leiomyoma and							
	Leiomyosaricoma briefly.							
30.3.2	At the end of session, phase II M.B.B.S student must							
	be able to enumerate various leiomyomas on the							
	basis of their location precisely.							
30.3.3	At the end of session, phase II M.B.B.S student must							
	be able to briefly describe pathogenesis of Leiomyomas and leiomyosarcomas.							
30.3.4	At the end of session, phase II M.B.B.S student must be							
30.3.4	able to correctly describe morphological features of							
	Leiomyomas and Leiomyosarcomas.							
30.3.5	, ,							
	At the end of session, phase II M.B.B.S student must							
	be able to describe progress and spread of tumor							
	leiomyomas and Leiomyosarcomas correctly							
PA30.4	Classify and describe the etiology, pathogenesis,	K	KH	Υ	Lecture, Small	Written/	Obstetri	
	pathology, morphology, clinical course, spread and				group discussion	Viva voce	cs &	
	complications of ovarian tumors						Gynaeco	
							logy	
30.4.1	At the end of session, phase II M.B.B.S student must	1					<del>                                     </del>	
30.4.1	be able to classify ovarian tumor precisely.							
30.4.2	ac acte to classify ovarian tumor precisery.	<del>                                     </del>						
30.7.2	At the end of session, phase II M.B.B.S student must							
	be able to briefly describe etiology of ovarian tumors.							
30.4.3	At the end of session, phase II M.B.B.S student must	1						
	be able to briefly describe pathogenesis of ovarian							
	tumors.							
30.4.4	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe morphological features of							
	various ovarian tumors.							

20 4 E	At the end of session, phase II M.B.B.S student must be		T .	l .		l	1		
30.4.5	• •								
	able to correctly enumerate clinical features of various								
	ovarian tumors.								
30.4.6	At the end of session, phase II M.B.B.S student must be								
	able to describe routes of spread of various ovarian								
	tumors correctly.								
30.4.7	At the end of session, phase II M.B.B.S student must be								
	able to correctly enumerate complications of various								
	ovarian tumors.								
PA30.5	Describe the etiology, pathogenesis, pathology,	K	KH	Υ	Lecture, Small	Written/		Obstetri	
	morphology, clinical course, spread and complications				group discussion	Viva voce		cs &	
	of gestational trophoblastic neoplasms							Gynaeco	
								logy	
30.5.1	At the end of session, phase II M.B.B.S student must								
	be able to classify gestational trophoblastic diseases								
	and neoplasms precisely								
30.5.2									
	At the end of session, phase II M.B.B.S student must								
	be able to discuss Correctly the etiopathogenesis of								
	complete and partial hydatidiform mole				1				
30.5.3	At the end of session, phase II M.B.B.S student must								
	be able to describe the clinical features of complete								
	and partial hydatidiform mole correctly								
30.5.4	, , ,								
	At the end of session, phase II M.B.B.S student must								
	be able to describe the morphological features of								
	complete and partial hydatidiform mole correctly								
30.5.5	At the end of session, phase II M.B.B.S student must								
30.3.3	be able to compare and contrast between complete								
	and partial hydatidiform mole correctly								
30.5.6	At the end of session, phase II M.B.B.S student must								
30.3.0	be able to describe the etio-pathogeneis of								
20 5 7	choriocarcinoma correctly  At the end of session, phase II M.B.B.S student must		-						
30.5.7	•								
	be able to briefly describe the clinical features and								
	spread of choriocarcinoma								
30.5.8	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe morphological features and								
DA 20 C	complications of choriocarcinoma	1/	IZLI	V	1t	\A(-:++ · /		Ob -4	
PA30.6	Describe the etiology and morphologic features of	K	KH	Υ	Lecture, Small	Written/		Obstetri	
	cervicitis				group discussion	Viva voce		cs &	
								Gynaeco	
								logy	
		1		<u> </u>					
30.6.1					1				
	At the end of session, phase II M.B.B.S student must				1				
	be able to briefly describe etiology of cervicitis.			ļ					
30.6.2									
	At the end of session, phase II M.B.B.S student must be								
	able to precisely enumerate causative organisms.								
30.6.3	At the end of session, phase II M.B.B.S student must				1				
	be able to differentiate Acute cervicitis from Chronic				1				
	cervictits accurately.								

20.6.4	At the and of anning the HAADDC student word	1	1	1	1	I		
30.6.4	At the end of session, phase II M.B.B.S student must							
	be able to correctly Describe morphological features							
	of cervicitis.							
PA30.7	Describe the etiology, hormonal dependence, features	K	KH	Υ	Lecture, Small	Written/	Obstetri	
	and morphology of endometriosis				group discussion	Viva voce	cs &	
							Gynaeco	
							,	
							logy	
20.7.4	And I for the HAADDS of the second							
30.7.1	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe the etiology of							
	endometriosis.							
30.7.2	At the end of session, phase II M.B.B.S student must							
	be able to describe hormonal features of							
	endometriosis correctly.							
30.7.3	At the end of session, phase II M.B.B.S student must							
30.7.3	be able to describe morphologic features of							
	. •							
	endometriosis correctly.			-				
30.7.4	At the end of session, phase II M.B.B.S student must							
	be able to describe clinical presentation of							
	endometriosis correctly.							
PA30.8	Describe the etiology and morphologic features of	K	KH	Υ	Lecture, Small	Written/	Obstetri	
	adenomyosis				group discussion	Viva voce	cs &	
	, , , , , , , , , , , , , , , , , , , ,				8 p		Gynaeco	
							•	
							logy	
	ALUI I I I II II II II II II II II II II I			-				
30.8.1	At the end of session, phase II M.B.B.S student must							
	be able to define Adenomyosis precisely.							
30.8.2								
	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe etiology of adenomyosis.							
30.8.3	At the end of session, phase II M.B.B.S student must							
	be able to describe morphological features of							
	adenomyosis correctly							
20.0.4	At the end of session, phase II M.B.B.S student must			-				
30.8.4								
	be able to describe clinical presentation of							
	adenomyosis correctly							
PA30.9	Describe the etiology, hormonal dependence and	K	KH	Υ	Lecture, Small	Written/	Obstetri	
	morphology of endometrial hyperplasia				group discussion	Viva voce	cs &	
							Gynaeco	
							logy	
							-01	
30.9.1			1	1				
30.3.1	At the end of session, phase II M.B.B.S student must							
	The state of the s							
	be able to define endometrial hyperplasia precisely.			-				
30.9.2								
	At the end of session, phase II M.B.B.S student must							
	be able to classify endometrial hyperplasia.precisely							
30.9.3	At the end of session, phase II M.B.B.S student must be							
	able to correctly describe hormonal dependence							
	basing endometrial hyperplasia.							
30.9.4	At the end of session, phase II M.B.B.S student must be		-		1			
30.3.4								
	able to correctly describe morphological features of							
	endometrial hyperplasia.				]			

30.9.5	At the end of session, phase II M.B.B.S student must								
	be able to describe clinical presentation of endometrial hyperplasia briefly.								
Topic: Bre		encies: (04)			Numb	er of proced	ure that re	equire cert	tification: (
PA31.1	Classify and describe the types, etiology, pathogenesis, pathology and hormonal dependency of benign breast disease		КН	Υ	Lecture, Small group discussion	Written/		Human Anatom y, General Surgery	
31.1.1	At the end of session, phase II M.B.B.S student must be able to classify and correctly describe the various types of Benign epithelial lesions of breast.								
31.1.1	At the end of session, phase II M.B.B.S student must be able to discuss the morphology and microscopic appearance of various subtypes of benign epithelial lesions of breast Correctly.								
31.1.2	At the end of session, phase II M.B.B.S student must be able to discuss correctly various types of stromal tumours and their clinical presentation.								
31.1.3	At the end of session, phase II M.B.B.S student must be able to describe the morphology and microscopic appearance of stromal tumours Correctly.								
PA31.2	Classify and describe the epidemiology, pathogenesis, classification, morphology, prognostic factors, hormonal dependency, staging and spread of carcinoma of the breast	К	КН	Υ	Lecture, Small group discussion	Written/ Viva voce		General Surgery	
31.2.1	At the end of session, phase II M.B.B.S student must be able to discuss the epidemiology and risk factors of breast carcinoma.								
31.2.2	At the end of session, phase II M.B.B.S student must be able to discuss the etiology and pathogenesis of breast carcinoma								
31.2.3	At the end of session, phase II M.B.B.S student must be able to discuss the classification of breast carcinoma correctly								
31.2.4	At the end of session, phase II M.B.B.S student must be able to discuss staging, grading of breast carcinoma accurately								
31.2.5	At the end of session, phase II M.B.B.S student must be able to discuss spread and prognostic factors of breast carcinoma								
PA31.3	Describe and identify the morphologic and microscopic features of carcinoma of the breast (Lower level of learning for this competency has been covered in PA 31.2)	S	SH	N	DOAP session	Skill assessment		General Surgery	

31.3.1	At the end of session, phase II M.B.B.S student should								
	be able to correctly identify and describe the								
	morphology and microscopic features of various types								
	of breast carcinoma								
PA31.4	Enumerate and describe the etiology, hormonal	K	KH	N	Lecture, Small	Written/		Pediatric	
	dependency and pathogenesis of gynecomastia				group discussion	Viva voce		S,	
31.4.1									
	At the end of session, phase II M.B.B.S student should								
	be able to define Gynaecomastia precisely.								
31.4.2	At the end of session, phase II M.B.B.S student should								
	be able to discuss the etiology and pathogenesis of								
	gynaecomastia correctly.								
31.4.3	At the end of session, phase II M.B.B.S student should								
	be able to describe the morphology and microscopy of								
	gynaecomastia briefly.								
Topic: En	docrine system Number of compete	ncies: (09)			Number	of procedure	es that req	uire certif	ication : (N
PA32.1	Enumerate, classify and describe the etiology,	K	KH	Υ	Lecture, Small	Written/		Human	
	pathogenesis, pathology and iodine dependency of				group discussion	Viva voce		Anatom	
	thyroid swellings							у,	
								Physiolo	
								gy,	
								General	
								Medicin	
								e,	
								General	
								Surgery	
32.1.1									
	At the end of session, phase II M.B.B.S student must								
	be able to correctly enumerate thyroid swellings.								
32.1.2									
	At the end of session, phase II M.B.B.S student must								
	be able to classify thyroid swellings precisely.								
31.1.3	At the end of session, phase II M.B.B.S student must								
	be able to correctly Describe etiopathogenesis of								
	thyroid swelling.	ļ							
31.1.4	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe iodine dependency of								
	thyroid swellings.								
PA32.2	Describe the etiology, cause, iodine dependency,	K	KH	Υ	Lecture, Small	Written/		Physiolo	
	pathogenesis, manifestations, laboratory and imaging				group discussion	Viva voce		gy,	
	features and course of thyrotoxicosis							General	
								Medicin	
								e	
		ļ							
32.2.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define hyperthyroidism precisely.								

22.2.2	At the end of session, phase II M.B.B.S student must			1		I	1		
32.2.2	• •								
	be able to correctly enumerate causes of								
	hyperthyroidism								
32.2.3	At the end of session, phase II M.B.B.S student must								
	be able to correctly describe etiopathogenesis of								
	Hyperthroidism.								
32.2.4									
	At the end of session, phase II M.B.B.S student must								
	be able to briefly describe clinical manifestation and								
	imaging features of thyrotoxicosis.								
PA32.3	Describe the etiology, pathogenesis, manifestations,	K	КН	Υ	Lecture, Small	Written/		Physiolo	
. 7.52.5	laboratory and imaging features and course of				group discussion			gy,	
	hypothyroidism				Broap discussion	VIVA VOCC		General	
								Medicin	
								е	
32.3.1	At the end of session, phase II M.B.B.S student must								
	be able to define hypothyroidism precisely								
32.3.2	At the end of session, phase II M.B.B.S student must								
32.3.2	be able to describe etiopathogenesis of								
	· -								
22.2.2	hypothyroidism correctly.	<b> </b>	<b> </b>						
32.3.3	At the end of session, phase II M.B.B.S student must								
	be able to describe clinical features, lab diagnosis of								
	hypothyroidism correctly.								
PA32.4	Classify and describe the epidemiology, etiology,	K	KH	Υ	Lecture, Small	Written/		Physiolo	
	pathogenesis, pathology, clinical laboratory features,				group discussion	Viva voce		gy,	
	complications and progression of diabetes mellitus							General	
								Medicin	
								e	
				-					
32.4.1									
	At the end of session, phase II M.B.B.S student must								
	be able to define diabetes mellitus precisely.								
32.4.2	At the end of session, phase II M.B.B.S student must								
	be able to describe epidermiology of Diabetes mellitus								
	correctly								
32.4.3									
	At the end of session, phase II M.B.B.S student must								
	be able to classify types of diabetes Mellitus precisely.								
32.4.4									
	At the end of session, phase II M.B.B.S student must be								
	able to correctly describe Etiopathogenesis of various								
	types of Diabetes Mellitus.								
32.4.5	At the end of session, phase II M.B.B.S student must be								
52.4.5	able to correctly describe clinical features of Diabetes								
	Mellitus.								
22 4 6	IVICIIILUS.	-	-	1					
32.4.6	At the end of session, phase U.M.B.D.C. student								
	At the end of session, phase II M.B.B.S student must								
	be able to describe short term, long term complication								
i	and progression of diabetes Mellitus correctly			1	İ	l			

PA32.5	Describe the etiology, genetics, pathogenesis,	K	кн	N	Lecture, Small	\M/ritton/	Physiolo	
PA32.5	manifestations, laboratory and morphologic features of hyperparathyroidism	K	КН	IN	group discussion	Written/ Viva voce	gy, General Medicin	
							е	
32.5.1	At the end of session, phase II M.B.B.S student should be able to precisely classify types of hyperparathyroidism.							
32.5.2	At the end of session, phase II M.B.B.S student should be able to describe etiopathogenesis of hyperparathyroidism correctly.							
32.5.3	At the end of session, phase II M.B.B.S student should be able to describe genetics involved in hyperparathyroidism correctly.							
32.5.4	At the end of session, phase II M.B.B.S student should be able to describe Morphologic features of parathyoidism correctly.							
32.5.5	At the end of session, phase II M.B.B.S student should be able to enumerate clinical manifestation of parathyoidism. correctly							
32.5.6	At the end of session, phase II M.B.B.S student should be able to describe Lab diagnosis of parathyroidism correctly.							
PA32.6	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications and metastases of pancreatic cancer	К	KH	N	Lecture, Small group discussion	Written/ Viva voce	General Surgery	
32.6.1	At the end of session, phase II M.B.B.S student should be able to precisely classify pancreatic cancer							
32.6.2	At the end of session, phase II M.B.B.S student should be able to describe etiology of pancreatic cancer briefly.							
32.6.3	At the end of session, phase II M.B.B.S student should be able to briefly describe pathogenesis of pancreatic cancer.							
32.6.4	At the end of session, phase II M.B.B.S student should be able to briefly enumerate clinical manifestation of pancreatic cancer.							
32.6.5	At the end of session, phase II M.B.B.S student should be able to correctly describe morphologic features of pancreatic cancer.							
32.6.6	At the end of session, phase II M.B.B.S student should be able to describe lab diagnosis of pancreatic cancer briefly.							
32.6.7	At the end of session, phase II M.B.B.S student should be able to enumerate correctly complications and metastases of pancreatic cancer.							

		I.,		1	l	l	a	
PA32.7	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications of adrenal insufficiency	К	КН	N	Lecture, Small group discussion	Written/ Viva voce	Physiolo gy, General Medicin e	
22 = 4								
32.7.1	At the end of session, phase II M.B.B.S student should be able to correctly classify various types of adrenal insufficiency.							
32.7.2	At the end of session, phase II M.B.B.S student should be able to correctly describe etiopathogenesis of adrenal insufficiency.							
32.7.3	At the end of session, phase II M.B.B.S student should be able to correctly enumerate clinical manifestation of adrenal insufficiency.							
32.7.4	At the end of session, phase II M.B.B.S student should be able to correctly describe morphologic features of adrenal insufficiency.							
32.7.5	At the end of session, phase II M.B.B.S student should be able to correctly Describe lab diagnosis of adrenal insufficiency.							
32.7.6	At the end of session, phase II M.B.B.S student should be able to correctly describe complications of adrenal insufficiency.							
PA32.8	Describe the etiology, pathogenesis, manifestations, laboratory, morphologic features, complications of Cushing's syndrome	К	KH	N	Lecture, Small group discussion	Written/ Viva voce	Physiolo gy, General Medicin e	
32.8.1	At the end of session, phase II M.B.B.S student should be able to correctly classify causes of cushing's syndrome.							
32.8.2	At the end of session, phase II M.B.B.S student should be able to correctly describe etiology of cushing's syndrome.							
32.8.3	At the end of session, phase II M.B.B.S student should be able to correctly describe clinical manifestation of cushing syndrome.							
32.8.4	At the end of session, phase II M.B.B.S student should be able to correctly describe morphological features of cushing syndrome.							
32.8.5	At the end of session, phase II M.B.B.S student should be able to correctly describe Complications of cushing syndrome.							

PA32.9	Describe the etiology, pathogenesis, manifestations, laboratory and morphologic features of adrenal neoplasms	K	КН	N	Lecture, Small group discussion	Written/ Viva voce		Human Anatom y, Physiolo	
								gy, General Medicin	
								e, General Surgery	
32.9.1	At the end of session, phase II M.B.B.S student should								
32.9.2	be able to correctly classify adrenal Neoplasms.  At the end of session, phase II M.B.B.S student should								
32.3.2	be able to correctly describe etiopathogenesis of adrenal neoplasms.								
32.9.3	At the end of session, phase II M.B.B.S student should be able to correctly enumerate clinical manifestations								
32.9.4	of various adrenal neoplasms.  At the end of session, phase II M.B.B.S student should								
32.3.4	be able to correctly describe morphology of adrenal neoplasms.								
32.9.5	At the end of session, phase II M.B.B.S student should be able to correctly Describe lab diagnosis of adrenal								
Topic: Bor	neoplasms. ne and soft tissue Number of com	etencies: (	D5)		Num	ber of proce	dure that	require ce	ertification
PA33.1	Classify and describe the etiology, pathogenesis,	K	KH	N	Lecture, Small	Written/			Microbiol
	manifestations, radiologic and morphologic features and complications of osteomyelitis				group discussion	Viva voce			ogy
	and complications of oscornychus							y, Orthopa edics	
								Orthopa	
33.1.1	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.							Orthopa	
33.1.1 33.1.2	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.							Orthopa	
	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.  At the end of session, phase II M.B.B.S student should							Orthopa	
	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.							Orthopa	
	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.  At the end of session, phase II M.B.B.S student should be able to discuss etiopathogenesis, clinical and radiological features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should be able to discuss gross and microscopic features of							Orthopa	
33.1.2	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.  At the end of session, phase II M.B.B.S student should be able to discuss etiopathogenesis, clinical and radiological features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should							Orthopa	
33.1.2	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.  At the end of session, phase II M.B.B.S student should be able to discuss etiopathogenesis, clinical and radiological features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should be able to discuss gross and microscopic features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should							Orthopa	
33.1.2	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.  At the end of session, phase II M.B.B.S student should be able to discuss etiopathogenesis, clinical and radiological features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should be able to discuss gross and microscopic features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should be able to discuss complications of acute osteomyelitis.							Orthopa	
33.1.2 33.1.3 33.1.4	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.  At the end of session, phase II M.B.B.S student should be able to discuss etiopathogenesis, clinical and radiological features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should be able to discuss gross and microscopic features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should be able to discuss complications of acute osteomyelitis.  At the end of session, phase II M.B.B.S student should be able to discuss etiopathogenesis, clinical and							Orthopa	
33.1.2 33.1.3 33.1.4	At the end of session, phase II M.B.B.S student should be able to Precisely classify osteomyelitis.  At the end of session, phase II M.B.B.S student should be able to discuss etiopathogenesis, clinical and radiological features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should be able to discuss gross and microscopic features of acute osteomyelitis correctly.  At the end of session, phase II M.B.B.S student should be able to discuss complications of acute osteomyelitis.  At the end of session, phase II M.B.B.S student should							Orthopa	

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33.1.7	At the end of session, phase II M.B.B.S student should							
	be able to discuss complications of chronic							
	osteomyelitis.							
33.1.8								
	At the end of session, phase II M.B.B.S student should							
	be able to briefly discuss etiopathogenesis and clinical							
	features of tubercular osteomyelitis.							
33.1.9	At the end of session, phase II M.B.B.S student should							
	be able to briefly Discuss morphology of tubercular							
	osteomyelitis.							
PA33.2	Classify and describe the etiology, pathogenesis,	K	KH	N	Lecture, Small	Written/	Orthopa	
	manifestations, radiologic and morphologic features				group discussion	Viva voce	edics	
	and complications and metastases of bone tumors							
33.2.1								
	At the end of session, phase II M.B.B.S student should							
	be able to precisely classify bone tumours.							
33.2.2								
	At the end of session, phase II M.B.B.S student should							
	be able to briefly describe etiopathogenesis, clinical							
	features, radiological findings of giant cell tumour							
33.2.3	At the end of session, phase II M.B.B.S student should							
	be able to briefly describe morphologic features of							
	Giant cell tumour							
33.2.4								
	At the end of session, phase II M.B.B.S student should							
	be able to briefly describe etiopathogenesis, clinical							
	features, radiological findings of ewings sarcoma							
33.2.5	At the end of session, phase II M.B.B.S student should							
	be able to briefly describe morphologic features of							
	Ewings sarcoma							
33.2.6								
	At the end of session, phase II M.B.B.S student should							
	be able to briefly describe etiopathogenesis, clinical							
	features, radiological findings of Osteosarcoma							
33.2.7	At the end of session, phase II M.B.B.S student should							
	be able to briefly describe morphologic features of							
	osteosarcoma			<u> </u>				
33.2.8								
	At the end of session, phase II M.B.B.S student should							
	be able to briefly describe etiopathogenesis, clinical							
	features, radiological findings of chondrosarcoma			<u> </u>				
33.2.9	At the end of session, phase II M.B.B.S student should							
	be able to briefly describe morphologic features of							
	chondrosarcoma							
33.2.10	At the end of session, phase II M.B.B.S student should							
	be able to correctly discuss complications of bone							
	tumours.							
33.2.11	At the end of session, phase II M.B.B.S student should							
	be able to discuss metastasis of common bone							
	tumours correctly.							

PA33.3	Classify and describe the etiology, pathogenesis,	K	КН	N	Lecture, Small	Written/	Orthopa	
FA33.3	manifestations, radiologic and morphologic features	K	KH	IN	group discussion		edics	
	and complications and metastases of soft tissue tumors				group discussion	viva voce	euics	
	and complications and metastases of soft tissue tumors							
33.3.1								
	At the end of session, phase II M.B.B.S student should							
	be able to classify soft tissue tumours correctly.							
33.3.2	At the end of session, phase II M.B.B.S student should							
	be able to describe etiopathogenesis, clinical features,							
	radiological findings of common soft tissue tumours							
	briefly							
33.3.3.	At the end of coording where HAAR R.C. student should							
	At the end of session, phase II M.B.B.S student should							
	be able to briefly discuss gross and microscopic							
	features of common soft tissue tumours.							
33.3.4	At the end of session, phase II M.B.B.S student should							
	be able to briefly discuss complications of soft tissue							
	tumours.							
33.3.5	At the end of session, phase II M.B.B.S student should							
	be able to briefly discuss metastasis of common soft							
	tissue tumours.							
PA33.4	Classify and describe the etiology, pathogenesis,	K	KH	N	Lecture, Small	Written/	Orthopa	
	manifestations, radiologic and morphologic features				group discussion	Viva voce	edics	
	and complications of Paget's disease of the bone							
33.4.1								
33.4.1	At the end of session, phase II M.B.B.S student should							
	be able to define precisely Pagets' disease of bone.							
33.4.2	At the end of session, phase II M.B.B.S student should							
33.4.2	be able to discuss stages of Pagets' disease of Bone							
	correctly.							
33.4.3	Soli Couly.							
	At the end of session, phase II M.B.B.S student should							
	be able to discuss etiology and pathogenesis of Pagets'							
	disease of Bone correctly.							
33.4.4	At the end of session, phase II M.B.B.S student should							
	be able to discuss gross and microscopic features of							
	Pagets' Discuss radiological features of Pagets' disease							
	of Bone correctly.							
33.4.5	At the end of session, phase II M.B.B.S student should							
	be able to briefly discuss clinical features and							
	complications of Pagets' disease of Bone.							
PA33.5	Classify and describe the etiology, immunology,	K	KH	N	Lecture, Small	Written/	General	
	pathogenesis, manifestations, radiologic and				group discussion		medicin	
	laboratory features, diagnostic criteria and				,		e	
	complications of rheumatoid arthritis							
33.5.1	At the end of session, phase II M.B.B.S student should							
	be able to define and classify Rheumatoid arthritis							
	precisely.							

22 5 2	1			1	1				
33.5.2									
	At the end of session, phase II M.B.B.S student should								
	be able to discuss etiology, pathogenesis and								
	immunology of Rheumatoid arthritis correctly								
33.5.3	At the end of session, phase II M.B.B.S student should								
	be able to dicuss gross and microscopic features of								
	Rheumatoid arthritis correctly								
33.5.4	At the end of session, phase II M.B.B.S student should								
	be able to briefly discuss radiological features and lab								
	findings of Rheumatoid arthritis								
33.5.5	At the end of session, phase II M.B.B.S student should								
33.3.3	be able to briefly discuss clinical features and								
	1								
	complications of Rheumatoid arthritis.								
33.5.6	At the end of session, phase II M.B.B.S student should								
	be able to discuss diagnostic criteria of Rhematoid								
	arthritis correctly.								
Topic: Ski		es: (04)				er of procedu	re that re	•	ification: (I
PA34.1	Describe the risk factors pathogenesis, pathology and	K	KH	N	Lecture, Small	Written/		Dermato	
	natural history of squamous cell carcinoma of the skin				group discussion	Viva voce		logy,	
								Venereo	
								logy &	
								Leprosy	
34.1.1	At the end of session, phase II M.B.B.S student should								
5	be able to enumerate the risk factors of squamous cell								
	carcinoma of skin Correctly								
2442	At the end of session, phase II M.B.B.S student should			<u> </u>					
34.1.2									
	be able to describe the pathogenesis of squmaous cell								
	carcinoma of skin Correctly								
34.1.3									
	At the end of session, phase II M.B.B.S student should								
	be able to discuss the gross and microscopic findings								
	of squamous cell CA of skin correctly								
PA34.2	Describe the risk factors pathogenesis, pathology and	K	KH	N	Lecture, Small	Written/		Dermato	
	natural history of basal cell carcinoma of the skin				group discussion	Viva voce		logy,	
	, ,				0 1			Venereo	
								logy &	
								Leprosy	
								Leprosy	
34.2.1	At the end of session, phase II M.B.B.S student should								
34.2.1	be able to enumerate the risk factors of basal cell								
	carcinoma of skin Correctly.			<u> </u>	-				
34.2.2	At the end of session, phase II M.B.B.S student should								
	be able to describe the pathogenesis of Basal cell								
	carcinoma of skin Correctly.								
34.2.3									
	At the end of session, phase II M.B.B.S student should								
	be able to discuss the gross and microscopic findings								
	of Basal cell CA of skin correctly.								
			l	1	I	l	l	l	

PA34.3	Describe the distinguishing features between a nevus and melanoma. Describe the etiology, pathogenesis, risk factors morphology clinical features and metastases of melanoma	K	КН	N	Lecture, Small group discussion	Written/ Viva voce		Dermato logy, Venereo logy & Leprosy	
34.3.1	At the end of session, phase II M.B.B.S student should be able to describe the distinguishing features between a nevus and melanoma correctly.								
34.3.2	At the end of session, phase II M.B.B.S student should be able to correctly describe the etiopathogenesis and prognostic features of melanoma.								
34.3.3	At the end of session, phase II M.B.B.S student should be able to briefly enumerate the clinical features of melanoma.								
34.3.4	At the end of session, phase II M.B.B.S student should be able to discuss the gross and microscopic features of Melanoma accurately.								
PA34.4	Identify, distinguish and describe common tumors of the skin (Lower level of learning for this competency has been covered in PA 34.1-34.3)	S	SH	N	DOAP session	Skill assessment		Dermato logy, Venereo logy & Leprosy	
34.4.1	At the end of session, phase II M.B.B.S student should be able to identify and describe the gross and microscopic features of Basal cell carcinoma accurately.								
34.4.2	At the end of session, phase II M.B.B.S student should be able to identify and describe the gross and microscopic features of Squamous cell carcinoma accurately.								
34.4.3	At the end of session, phase II M.B.B.S student should be able to identify and describe the gross and microscopic features of Malignant Melanoma accurately.								
-	ntral Nervous System Number of comp					ame of proce	dures that		
PA35.1	Describe the etiology, types and pathogenesis, differentiating factors, CSF findings in meningitis	K	КН	N	Lecture, Small group discussion	Written/ Viva voce		General Medicin e	Microbiol ogy
35.1.1	At the end of session, phase II M.B.B.S student should be able to define meningitis precisely and enumerate its types.								
35.1.2	At the end of session, phase II M.B.B.S student should be able to discuss correctly etiopathogenesis of all types.								

35.1.3				1					
33.1.3	At the end of session, phase II M.B.B.S student should								
	be able to correctly discuss clinical features, lab								
	findings and microscopy of various types of meningitis.								
35.1.4	At the end of session, phase II M.B.B.S student should								
33.1.4	be able to correctly Describe and compare CSF								
	findings in each type of meningitis.								
PA35.2	Classify and describe the etiology, genetics,	K	KH	N	Lecture, Small	Written/		Pediatric	
1 733.2	pathogenesis, pathology, presentation sequelae and	IX.	Kil		group discussion			s	
	complications of CNS tumors				Broap discussion	VIVA VOCC		3	
	complications of cive tumors								
35.2.1									
	At the end of session, phase II M.B.B.S student should								
	be able to correctly classify intracranial tumors.								
35.2.2									
	At the end of session, phase II M.B.B.S student should								
	be able to define glioma and enumerate types of								
	gliomas precisely with molecular genetics.								
35.2.3	At the end of session, phase II M.B.B.S student should								
	be able to discuss microscopy and clinical features of								
	gliomas								
35.2.4	At the end of session, phase II M.B.B.S student should								
	be able to enumerate precisely neuronal tumors with								
	genetics.								
35.2.5	At the end of session, phase II M.B.B.S student should								
	be able to briefly discuss clinical features, microscopy,								
	prognosis of neuronal tumors.								
35.2.6									
	At the end of session, phase II M.B.B.S student should								
	be able to briefly Discuss medulloblastoma.								
35.2.7	At the end of session, phase II M.B.B.S student should								
	be able to define meningiomas and enumerate its								
	types briefly.								
35.2.8	At the end of session, phase II M.B.B.S student should								
	be able to briefly discuss clinical features and								
	morphology of meningioma.								
35.2.9	At the end of session, phase II M.B.B.S student should								
	be able to enlist all nerve sheath tumors and describe								
	their morphology correctly.								
35.2.10									
	At the end of session, phase II M.B.B.S student should								
	be able to briefly discuss clinical features of nerve								
	sheath tumors and associated syndromes.								
PA35.3	Identify the etiology of meningitis based on given CSF	S	Р	Υ	DOAP sessions	Skill	1	General	Microbiol
	parameters (Lower level of					Assessment		Medicin	ogy
	learning for this competency has been covered in PA							e	
	35.1)								
				<u> </u>					
35.3.1	At the end of session, phase II M.B.B.S student must								
	be able to correctly enumerate most common causes								
	of meningitis.								
35.3.2	At the end of session, phase II M.B.B.S student must								
	be able to correctly enumerate components of CSF								
	analysis.								

35.3.3	At the end of session, phase II M.B.B.S student must								
	be able to correctly describe CSF features for a given								
	etiology of meningitis.								
35.3.4	At the end of session, phase II M.B.B.S student must be								
	able to correctly identify the etiology of meningitis								
	from a given set of CSF parameters.								
Topic: Eye	pic: Eye Number of competencies: (01) Number of procedure that require certific								
PA36.1	Describe the etiology, pathogenesis, pathology,	K	KH	N	Lecture, Small	Written/		Ophthal	
	presentation, sequelae and complications of				group discussion	Viva voce		mology	
	retinoblastoma								
36.1.1	At the end of session, phase II M.B.B.S student should								
	be able to correctly discuss etiopathogenesis of								
	retinoblastoma.								
36.1.2	At the end of session, phase II M.B.B.S student should								
	be able to correctly describe clinical features and lab								
	findings of retinoblastoma.								
36.1.3	At the end of session, phase II M.B.B.S student should								
	be able to correctly discuss sequelae of								
	retinoblastoma.								
36.1.4	At the end of session, phase II M.B.B.S student should								
	be able to correctly Enumerate complications and								
	prognosis of retinoblastoma								
	Column C: K-Knowledge, S-Skill, A-Attitude/profession	alism, C-Co	mmunication	on.					
	Column D: K-Knows, KH- Knows How, S- Show How, P-	performs i	ndependen	cv,	II.	ı			
	Column F: DOAP session- Demonstrate, Observe, Asse	ss, Perform	).						
	Column H: If entry is P: indicate how many procedures	must be do	ne indeper	ndently	for certification/	graduation			
					•				
	•								