HUMAN ANATOMY (CODE: AN)

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level SH/P	K/KH/	Core (Y/N)	Teaching- Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
				Human Inatomy	1					
Topic: An	atomical terminology	Number o	f compet	encies: (2)			Number of proced certification: (l			
AN1.1	 Demonstrate normal anatomical position, various planes, relation, comparison, laterality & movement in our body. Objectives- 1) At the end of session the phase 1 students must define the normal anatomical position correctly. 2) At the end of session the phase 1 students must define various planes accurately. 3) At the end of session the phase 1 students must define the movements of the body correctly. 4) At the end of session the phase 1 students must enumerate the various movements possible on different joints of body correctly. 5) At the end of session the phase 1 students should demonstrate the anatomical position correctly. 6) At the end of session the phase 1 students should demonstrate the laterality correctly. 7) At the end of session the phase 1 students should present the anatomical position and movements of all joints correctly. 	K/S	S	SH	Y	Lecture, DOAP session	Written/ Viva voce/skills assessment			
AN1.2	Describe composition of bone and bone marrow. Objectives – 1) At the end of session the phase 1 students must define the bone accurately. 2) At the end of session the phase 1 students must define the bone marrow accurately. 3) At the end of session the phase 1 students must describe the composition of bone correctly. 4) At the end of session the phase 1 students must describe the composition of bone marrow correctly. 5) At the end of session the phase 1 students must be able to differentiate between different types of bones on the basis of composition correctly.	К	K	ίΗ	Y	Lecture	Written/ Viva voce			
Topic: Ge	neral features of bones & Joints	Number	of compe	etencies: (6)		Number of procede certification: (I			

AN2.1	Describe parts, blood and nerve supply of a long bone. Objectives- 1) At the end of session the phase 1 students must define the parts of a long bone correctly. 2) At the end of session the phase 1 students must describe the blood supply of long bone correctly. 3) At the end of session the phase 1 students must describe the nerve supply of long bone correctly. Enumerate laws of ossification.	K	КН	Y	Lecture, DOAP session	Written/ Viva voce		
	Objectives – 1) At the end of session the phase 1 students should be able to describe the laws of ossification accurately. 2) At the end of session the phase 1 students should be able to enumerate the ossification centers of bones accurately.	K		, in	Lecture	vviitteii		
AN2.3	 Enumerate special features of a sesamoid bone. Objectives- At the end of session the phase 1 students must define the sesamoid bone correctly. At the end of session the phase 1 students must describe the development of sesamoid bone correctly. At the end of session the phase 1 students must enumerate the characteristics of sesamoid bone accurately. 	К	КН	N	Lecture	Written		
AN2.4	Describe various types of cartilage with its structure & distribution in body. Objectives- 1) At the end of session the phase 1 students must define the cartilage accurately. 2) At the end of session the phase 1 students must list the three types of cartilage. 3) At the end of session the phase 1 students must describe the structure of three types of cartilages. 4) At the end of session the phase 1 students must discuss the distribution of cartilage accurately.	К	КН	Y	Lecture	Written/ Viva voce	Orthopedics	
AN2.5	Describe various joints with subtypes and examples. Objectives- 1) At the end of session the phase 1 students must define the joint correctly. 2) At the end of session the phase 1 students must classify the joints in subtypes on the basis of axis accurately. 3) At the end of session the phase 1 students must classify the joints in subtypes on the basis of structure accurately. 4) At the end of session the phase 1 students must classify the joints in subtypes on the basis of function accurately. 5) At the end of session the phase 1 students must define	К	КН	Y	Lecture	Written/ Viva voce	Orthopedics	

AN2.6	the fibrous joints correctly. 6) At the end of session the phase 1 students must define the cartilaginous joints correctly. 7) At the end of session the phase 1 students must define the synovial joint correctly. 8) At the end of session the phase 1 students must list the examples of various subtypes of joints correctly. Explain the concept of nerve supply of joints & Hilton's law. Objectives- 1) At the end of session the phase 1 students must describe the concept of nerve supply of joints correctly. 2) At the end of session the phase 1 students must	К	КН	Y	Lecture	Written/ Viva voce		
Topic: G	describe the Hilton's law correctly. eneral features of Muscle	Number o	of competencies: (3)		Number of procedures for co	ertification:	
AN3.1	Classify muscle tissue according to structure & action Objectives- 1) At the end of session the phase 1 students must define the muscle tissue correctly. 2) At the end of session the phase 1 students must classify the muscle tissue according to structure correctly. 3) At the end of session the phase 1 students must classify the muscle tissue according to function correctly.	К	КН	Y	Lecture	(NIL) Written/ Viva voce		Physiology
AN3.2	Enumerate parts of skeletal muscle and differentiate between tendons and aponeuroses with examples. Objectives- 1) At the end of session the phase 1 students must enumerate the parts of skeletal muscle correctly. 2) At the end of session the phase 1 students must define the tendon correctly. 3) At the end of session the phase 1 students must define the aponeuroses correctly. 4) At the end of session the phase 1 students must differentiate between tendons and aponeuroses with examples correctly.	К	КН	Y	Lecture	Written/ Viva voce		
AN3.3	 Explain Shunt and spurt muscles. Objectives- 1) At the end of session the phase 1 students must define the shunt correctly. 2) At the end of session the phase 1 students must enumerate the types of shunt correctly. 3) At the end of session the phase 1 students must define the spurt muscles correctly. 	К	КН	N	Lecture	Written		
Topic: G	ic: General features of skin and fascia		of competencies: (5)		Number of procedures for o	certification:	

		(NIL)										
AN4.1	Describe different types of skin & dermatomes in body. Objectives- 1) At the end of session the phase 1 students must define the types of skin correctly. 2) At the end of session the phase 1 students must define the layers of skin correctly. 3) At the end of session the phase 1 students must define the dermatomes of body correctly. 4) At the end of session the phase 1 students must enumerate the dermatomes of body accurately.	К	КН	N	Lecture, DOAP session	Written						
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching- Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration			
AN4.2	 Describe structure & function of skin with its appendages. Objectives- 1) At the end of session the phase 1 students must describe the layers of skin correctly. 2) At the end of session the phase 1 students must describe the functions of skin correctly. 3) At the end of session the phase 1 students must enumerate the appendages of skin correctly. 4) At the end of session the phase 1 students must describe the appendages correctly. 	К	КН	Y	Lecture, DOAP session	Written/ Viva voce		Dermatology, Venereology & Leprosy				
AN4.3	Describe superficial fascia along with fat distribution in body. Objectives- 1) At the end of session the phase 1 students must define the superficial fascia correctly. 2) At the end of session the phase 1 students must describe the layers of superficial fascia correctly. 3) At the end of session the phase 1 students must describe the distribution of fat in body correctly.	К	КН	Y	Lecture, DOAP session	Written/ Viva voce						
AN4.4	Describe modifications of deep fascia with its functions. Objectives- 1) At the end of session the phase 1 students must define the deep fascia correctly. 2) At the end of session the phase 1 students must describe the modifications of deep fascia correctly. 3) At the end of session the phase 1 students must describe the functions of deep fascia correctly.	К	КН	Y	Lecture, DOAP session	Written/ Viva voce		Dermatology, Venereology & Leprosy				
AN4.5	Explain principles of skin incisions. Objectives- 1) At the end of session the phase 1 students must enumerate the types of skin incision correctly.	K	КН	N	Lecture	Written		Dermatology, Venereology & Leprosy				

	2) At the end of session the phase 1 students must describe the principles of skin incision correctly.							
Topic: G	seneral features of the cardiovascular system	Number o	of competencie	s: (8)		Number of procedures for c	ertification:	
AN5.1	Differentiate between blood vascular and lymphatic system. Objectives- 1) At the end of session the phase 1 students must define the vascular system correctly. 2) At the end of session the phase 1 students must enumerate the components of vascular system correctly. 3) At the end of session the phase 1 students must define the lymphatic system correctly. 4) At the end of session the phase 1 students must enumerate the components of lymphatic system correctly. 5) At the end of session the phase 1 students must differentiate between blood vascular and lymphatic system correctly.	К	КН	Y	Lecture	Written/ Viva voce		Physiology
AN5.2	Differentiate between pulmonary and systemic circulation. Objectives- 1) At the end of session the phase 1 students must define pulmonary circulation correctly. 2) At the end of session the phase 1 students must define the systemic circulation correctly. 3) At the end of session the phase 1students must differentiate between pulmonary and systemic circulation correctly.	К	КН	Y	Lecture	Written/ Viva voce		Physiology
AN5.3	List general differences between arteries & veins. Objectives- 1) At the end of session the phase 1 students must define the artery correctly. 2) At the end of session the phase 1 students must define the general features of artery correctly. 3) At the end of session the phase 1 students must define the vein correctly. 4) At the end of session the phase 1 students must define the general features of vein correctly. 5) At the end of session the phase 1 students must enumerate the differences between arteries and vein correctly.	К	KH	Y	Lecture	Written/ Viva voce		
AN5.4	 Explain functional difference between elastic, muscular arteries and arterioles. Objectives- 1) At the end of session the phase 1 students must define the elastic artery correctly. 2) At the end of session the phase 1 students must define the muscular artery correctly. 3) At the end of session the phase 1 students must define the arterioles correctly. 4) At the end of session the phase 1 students must differentiate between the functions of elastic, muscular arteries and 	К	КН	Y	Lecture	Written/ Viva voce		

	arterioles							
	correctly.							
AN5.5	Describe portal system giving examples. Objectives- 1) At the end of session the phase 1 students must define the portal system correctly. 2) At the end of session the phase 1 students must enumerate the veins participating in portal circulation correctly. 3) At the end of session the phase 1 students must enumerate the examples of portal circulation correctly. 4) At the end of session the phase 1 students must describe the	К	КН	Y	Lecture	Written/ Viva voce		
	clinical importance of portal circulation correctly.							
AN5.6	 Describe the concept of anastomoses and collateral circulation with significance of end-arteries. Objective- 1) At the end of session the phase 1 students must define the anastomoses correctly. 2) At the end of session the phase 1 students must enumerate the types of anastomoses correctly. 3) At the end of session the phase 1 students must define collateral circulation correctly. 4) At the end of session the phase 1 students must define end arteries correctly. 5) At the end of session the phase 1 students must discuss the clinical significance of anastomoses correctly. 	К	КН	Y	Lecture	Written/ Viva voce	General Medicine	Physiology
AN5.7	 Explain function of meta-arterioles, precapillary sphincters, arterio-venous anastomoses. Objective- At the end of session the phase 1 students must define the meta-arterioles correctly. At the end of session the phase 1 students must define the precapillary sphincter correctly. At the end of session the phase 1 students must define the arterio-venous anastomoses correctly. At the end of session the phase 1 students must define the function of meta-arterioles correctly. At the end of session the phase 1 students must define the function of precapillary sphincter correctly. At the end of session the phase 1 students must define the function of arterio-venous anastomoses correctly. 	K	КН	N	Lecture	Written		Physiology
AN5.8	Define thrombosis, infarction & aneurysm. Objective- 1) At the end of session the phase 1 students must define the thrombosis correctly.	K	КН	N	Lecture	Written	Pathology	Physiology

	T					T	,			
	2) At the end of session the phase 1 students must define the									
	infarction correctly.									
	3) At the end of session the phase 1 students must define the									
	aneurysm correctly.									
	4) At the end of session the phase 1 students must discuss the									
	applied anatomy of thrombosis correctly.									
	5) At the end of session the phase 1 students must discuss the									
	applied anatomy of infarction correctly.									
	6) At the end of session the phase 1 students must discuss the									
	applied anatomy of aneurysm correctly.									
		I								
Topic: Ge	neral Features of lymphatic system	Number o	of competer	ncies: (3)	Nun	nber of procedures for	certificatio	n:	
1110 1		14	1711			T	(NIL)			
AN6.1	List the components and functions of the lymphatic system.	K	KH		N	Lecture	Written			
	Objectives-									
	1) At the end of session the phase 1 students must define the									
	lymphatic system correctly.									
	2) At the end of session the phase 1 students must list the									
	components of lymphatic system correctly.									
	3) At the end of session the phase 1 students must discuss the									
	functions of lymphatic system correctly.									
	4) At the end of session the phase 1 students must discuss the									
	clinical applied of lymphatic system correctly.									
Number	COMPETENCY	Domain	Level	Core	Teach	ing-Learning	Assessment	Number	Vertical	Horizontal
	The student should be able to	K/S/A/C	K/KH/	(Y/N)	Metho	-	Methods	required	Integration	Integration
			SH/P	` ′				to certify		
								Р		
AN6.2	Describe structure of lymph capillaries & mechanism of	K	KH	N	Lectur	e	Written			
	lymph circulation									
	Objectives-									
	1) At the end of session the phase 1 students must describe the									
	structure of lymph capillaries correctly.									
	2) At the end of session the phase 1 students must discuss the									
	mechanism of lymph circulation correctly.									
AN6.3	Explain the concept of lymphoedema and spread of tumors	K	KH	N	Lectur	е	Written		General Surgery	
	via lymphatics and venous system.									
	Objectives-									
	At the end of session the phase 1 students must define									
	lymphoedema correctly.									
	2) At the end of session the phase 1 students must describe the									
	concept of lymphoedema correctly.									
	3) At the end of session the phase 1 students must discuss the									
	spread of tumors via lymphatics correctly.									
	4) At the end of session the phase 1 students must discuss the									
		•		•	•		•	-	-	

	spread of tumors via venous system correctly.						
Topic: Ir	stroduction to the nervous system Number	er of comp	petencies: (<u> </u> 8)	1	Number of procedures for certification: (NIL	
AN7.1	Describe general plan of nervous system with components of central, peripheral & autonomic nervous systems. Objectives- 1) At the end of session the phase 1 students must enumerate the components of central nervous systems correctly. 2) At the end of session the phase 1 students must enumerate the components of peripheral nervous systems correctly. 3) At the end of session the phase 1 students must enumerate the components of autonomic nervous systems correctly. 4) At the end of session the phase 1 students must discuss the general arrangement of nervous systems correctly.	К	KH	Y	Lecture	Written	
AN7.2	List components of nervous tissue and their functions. Objectives- 1) At the end of session the phase 1 students must enumerate the components of nervous tissue correctly. 2) At the end of session the phase 1 students must discuss the functions of neurons correctly. 3) At the end of session the phase 1 students must discuss the types of neuroglia cells correctly. 4) At the end of session the phase 1 students must discuss the functions of neuroglia cells correctly.	К	KH	Y	Lecture	Written/ Viva voce	Physiology
AN7.3	Describe parts of a neuron and classify them based on number of neurites, size & function Objectives- 1) At the end of session the phase 1 students must define the parts of neuron correctly. 2) At the end of session the phase 1 students must discuss the functions of parts of neuron correctly. 3) At the end of session the phase 1 students must classify the neurons on basis of number of neuritis correctly. 4) At the end of session the phase 1 students must classify the neurons on basis of size correctly. 5) At the end of session the phase 1 students must classify the neurons on basis of function correctly.	К	КН	Y	Lecture	Written/ Viva voce	Physiology
AN7.4	Describe structure of a typical spinal nerve. Objectives- 1) At the end of session the phase 1 students must define a typical spinal nerve correctly. 2) At the end of session the phase 1 students must discuss the	К	КН	Y	Lecture	Written/ Viva voce	

	structure of typical spinal nerve correctly. 3) At the end of session the phase 1 students must discuss the function of typical spinal nerve correctly.							
AN7.5	Describe principles of sensory and motor innervation of muscles Objectives- 1) At the end of session the phase 1 students must describe the principles of sensory innervation of muscles correctly. 2) At the end of session the phase 1 students must describe the principles of motor innervation of muscles correctly. 3) At the end of session the phase 1 students must describe the reflex arc correctly. 4) At the end of session the phase 1 students must define the neuro-muscular junction correctly.	К	КН	N	Lecture	Written	General Medicine	Physiology
AN7.6	Describe concept of loss of innervation of a muscle with its applied anatomy. Objectives- 1) At the end of session the phase 1 students must describe the applied anatomy of loss of motor innervation of muscles correctly. 2) At the end of session the phase 1 students must describe the applied anatomy of loss of sensory innervation of muscles correctly.	К	KH	Y	Lecture	Written/ Viva voce	General Medicine	
AN7.7	Describe various type of synapse Objectives- 1) At the end of session the phase 1 students must define the synapse correctly. 2) At the end of session the phase 1 students must enumerate the types of synapse correctly. 3) At the end of session the phase 1 students must define the types of synapse correctly. 4) At the end of session the phase 1 students must describe the applied anatomy of synapse correctly.	К	КН	N	Lecture	Written		Physiology
AN7.8	Describe differences between sympathetic and spinal ganglia Objectives- 1) At the end of session the phase 1 students must define the ganglia correctly. 2) At the end of session the phase 1students must differentiate the sympathetic and spinal ganglia on basis of location correctly. 3) At the end of session the phase 1students must differentiate the sympathetic and spinal ganglia on basis of function correctly.	К	КН	N	Lecture	Written		

Identify the given bone, its side, important features & keep it	K/S	SH	Y	DOAP session	Viva voce/ Practicals/	
in anatomical position.					OSPE	
Objectives-						
1) At the end of session the phase 1 students must identify the						
given bones correctly.						
2) At the end of session the phase 1 students must define the						
side of bone correctly.						
3) At the end of session the phase 1 students must enumerate						
the importance features of bones correctly.						
4) At the end of session the phase 1 students must define the						
anatomical position of bones correctly.						
5) At the end of session the phase 1 students must identify the						
side of bones correctly.						
6) At the end of session the phase 1 students must demonstrate						
the important features of bones correctly.						
7) At the end of session the phase 1 students must demonstrate						
the anatomical position of bones correctly.						
Identify & describe joints formed by the given bone	K/S	SH	Y	Lecture, DOAP session	Viva voce	
Objectives-	100	011	'	Lecture, DOAI 3033101	VIVA VOCC	
At the end of session the phase 1 students must enumerate						
the joints formed by both ends of the given bone correctly.						
2) At the end of session the phase 1 students must describe the						
type of joint formed by both ends of the given bone correctly.						
3) At the end of session the phase 1 students must define the						
articular surfaces on both ends of bone correctly.						
4) At the end of session the phase 1 students must enumerate						
the movements possible on the joint formed by both ends of						
the given bone correctly.						
5) At the end of session the phase 1 students must identify the						
joints formed by both ends of the given bone correctly.						
6) At the end of session the phase 1 students must identify the type of joint formed by both ends of the given bone correctly.						
7) At the end of session the phase 1 students must identify the						
articular surfaces on both ends of bone correctly.						
8) At the end of session the phase 1 students must demonstrate						
the movements possible on the joint formed by both ends of						
the given bone correctly.						
Enumerate peculiarities of clavicle.	K	KH	Y	Lecture, DOAP session	Viva voce	
Objectives-						
1) At the end of session the phase 1 students must describe the						
side of clavicle correctly.						
2) At the end of session the phase 1 students must describe the			1			

Number	 anatomical features of clavicle correctly. 3) At the end of session the phase 1 students must describe the characteristic features of clavicle correctly. 4) At the end of session the phase 1 students must describe the important bony landmarks of clavicle correctly. 5) At the end of session the phase 1 students must describe the attachments of clavicle correctly. 6) At the end of session the phase 1 students must describe the ossification of clavicle correctly. 7) At the end of session the phase 1 students must describe the clinical anatomy of clavicle correctly. COMPETENCY The student should be able to 	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	to certify	Vertical Integration	Horizontal Integration
AN8.4	Demonstrate important muscle attachment on the given bone Objectives- 1) At the end of session the phase 1 students must describe the site of origin of muscles on the given bone correctly. 2) At the end of session the phase 1 students must describe the site of insertion of muscles on the given bone correctly. 3) At the end of session the phase 1 students must demonstrate the site of origin of muscles on the given bone correctly. 4) At the end of session the phase 1 students must demonstrate the site of insertion of muscles on the given bone correctly.	K/S	SH	Y	Practical DOAP session, Small group teaching	Viva voce Practicals	P	Orthopedics	
AN8.5	Identify and name various bones in articulated hand, Specify the parts of metacarpals and phalanges and enumerate the peculiarities of pisiform. Objectives- 1) At the end of session the phase 1 students must enumerate the carpal bones in articulated hand correctly. 2) At the end of session the phase 1 students must demonstrate the carpal bones in articulated hand correctly. 3) At the end of session the phase 1 students must describe the parts of metacarpals in articulated hand correctly. 4) At the end of session the phase 1 students must demonstrate the parts of metacarpals in articulated hand correctly. 5) At the end of session the phase 1 students must describe the phalanges in articulated hand correctly. 6) At the end of session the phase 1 students must demonstrate the phalanges in articulated hand correctly. 7) At the end of session the phase 1 students must describe the pecularities of pisiform in articulated hand correctly.	K/S	SH	Y	Practical,F91 DOAP session, Small group teaching	Viva voce Practicals			

AN8.6	Describe scaphoid fracture and explain the anatomical basis of avascular necrosis Objectives- 1) At the end of session the phase 1 students must enumerate the fractures of scaphoid bone correctly. 2) At the end of session the phase 1 students must discuss the blood bupply of scaphoid bone correctly. 3) At the end of session the phase 1 students must discuss the anatomical basis of complications of scaphoid bone fracture correctly.	К	КН	N	DOAP session	Viva voce	Orthopedi	cs
Topic: Pe	ectoral region Number	of compet	encies: (3)		Number of	procedures for certific	cation: (NIL)	
AN9.1	 Describe attachment, nerve supply & action of pectoralis major and pectoralis minor Objectives- 1) At the end of session the phase 1 students must describe the origin of pectoralis major correctly. 2) At the end of session the phase 1 students must describe the insertion of pectoralis major correctly. 3) At the end of session the phase 1 students must describe the nerve supply of pectoralis major correctly. 4) At the end of session the phase 1 students must describe the action of pectoralis major correctly. 5) At the end of session the phase 1 students must describe the origin of pectoralis minor correctly. 6) At the end of session the phase 1 students must describe the insertion of pectoralis minor correctly. 7) At the end of session the phase 1 students must describe the nerve supply of pectoralis minor correctly. 8) At the end of session the phase 1 students must describe the action of pectoralis minor correctly. 	К	КН	Y	Lecture, Practical	Written		
AN9.2	 Breast: Describe the location, extent, deep relations, structure, age changes, blood supply, lymphatic drainage, microanatomy and applied anatomy of breast Objectives- 1) At the end of session the phase 1 students must describe the location of breast correctly. 2) At the end of session the phase 1 students must describe the extent of breast correctly. 3) At the end of session the phase 1 students must describe the deep relations of breast correctly. 4) At the end of session the phase 1 students must describe the structure of breast correctly. 	К	КН	Y	Practical, Lecture	Written/ Viva voce	General S	urgery

	 At the end of session the phase 1 students must describe the age changes of breast correctly. At the end of session the phase 1 students must describe the blood supply of breast correctly. At the end of session the phase 1 students must describe the lymphatic drainage of breast correctly. At the end of session the phase 1 students must describe the microanatomy of breast correctly. At the end of session the phase 1 students must describe the applied anatomy of breast correctly. 								
AN9.3	Describe development of breast Objectives- 1) At the end of session the phase 1 students must describe the stages of development of breast correctly. 2) At the end of session the phase 1 students must describe the congenital anomalies of breast correctly.	К	KH	N	Lecture	Written			
Topic: A	illa, Shoulder and Scapular region Numbe	r of compe	etencies: (1	3)	Number	of procedures for certi	fication: (NI	L)	
AN10.1	Identify & describe boundaries and contents of axilla Objectives- 1) At the end of session the phase 1 students must describe the boundaries of axilla correctly. 2) At the end of session the phase 1 students must describe the contents of axilla correctly. 3) At the end of session the phase 1 students must describe the applied anatomy of axilla correctly. 4) At the end of session the phase 1 students must identify the location of axilla correctly. 5) At the end of session the phase 1 students must demonstrate the boundaries of axilla correctly. 6) At the end of session the phase 1 students must demonstrate the contents of axilla correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN10.2	 Identify, describe and demonstrate the origin, extent, course, parts, relations and branches of axillary artery & tributaries of vein Objectives- At the end of session the phase 1 students must describe the origin of axillary artery correctly. At the end of session the phase 1 students must describe the termination of axillary artery correctly. At the end of session the phase 1 students must describe the course of axillary artery correctly. At the end of session the phase 1 students must describe the parts of axillary artery correctly. At the end of session the phase 1 students must describe the parts of axillary artery correctly. 	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			

relations of axillary artery correctly.
6) At the end of session the phase 1 students must describe the
branches of axillary artery correctly.
7) At the end of session the phase 1 students must describe the
applied anatomy of axillary artery correctly.
8) At the end of session the phase 1 students must demonstrate
the origin of axillary artery correctly.
9) At the end of session the phase 1 students must demonstrate
the termination of axillary artery correctly.
10) At the end of session the phase 1 students must demonstrate
the course of axillary artery correctly.
11) At the end of session the phase 1 students must demonstrate
the parts of axillary artery correctly.
12) At the end of session the phase 1 students must demonstrate
the relations of axillary artery correctly.
13) At the end of session the phase 1 students must demonstrate
the branches of axillary artery correctly.
14) At the end of session the phase 1 students must describe the
origin of axillary vein correctly.
15) At the end of session the phase 1 students must describe the
termination of axillary vein correctly.
16) At the end of session the phase 1 students must describe the
course of axillary vein correctly.
17) At the end of session the phase 1 students must describe the
parts of axillary vein correctly.
18) At the end of session the phase 1 students must describe the
relations of axillary vein correctly.
19) At the end of session the phase 1 students must describe the
branches of axillary vein correctly.
20) At the end of session the phase 1 students must describe the
applied anatomy of axillary vein correctly.
21) At the end of session the phase 1 students must demonstrate
the origin of axillary vein correctly.
22) At the end of session the phase 1 students must demonstrate
the termination of axillary vein correctly.
23) At the end of session the phase 1 students must demonstrate
the course of axillary vein correctly.
24) At the end of session the phase 1 students must demonstrate
the parts of axillary vein correctly.
25) At the end of session the phase 1 students must demonstrate
the relations of axillary vein correctly.
26) At the end of session the phase 1 students must demonstrate
the branches of axillary vein correctly.

AN10.3	 Describe, identify and demonstrate formation, branches, relations, area of supply of branches, course and relations of terminal branches of brachial plexus Objectives- 1) At the end of session the phase 1 students must describe the formation of brachial plexus correctly. 2) At the end of session the phase 1 students must describe the branches of brachial plexus correctly. 3) At the end of session the phase 1 students must describe the relations of brachial plexus correctly. 4) At the end of session the phase 1 students must describe the area of supply of branches of brachial plexus correctly. 5) At the end of session the phase 1 students must describe the course of brachial plexus correctly. 6) At the end of session the phase 1 students must describe the relation of terminal branches of brachial plexus correctly. 7) At the end of session the phase 1 students must describe the applied anatomy of brachial plexus correctly. 8) At the end of session the phase 1 students must demonstrate the formation of brachial plexus correctly. 9) At the end of session the phase 1 students must demonstrate the branches of brachial plexus correctly. 10) At the end of session the phase 1 students must demonstrate the relations of brachial plexus correctly. 	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
	 11) At the end of session the phase 1 students must demonstrate the area of supply of branches of brachial plexus correctly. 12) At the end of session the phase 1 students must demonstrate the course of brachial plexus correctly. 13) At the end of session the phase 1 students must 								
Number	demonstrate the relation of brachial plexus correctly. COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
Number	The student should be able to	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods		Integration	Integration
AN10.4	Describe the anatomical groups of axillary lymph nodes and specify their areas of drainage. Objectives- 1) At the end of session the phase 1 students must describe the anatomical groups of lymph nodes correctly. 2) At the end of session the phase 1 students must describe the area of drainage of axillary lymph nodes correctly.	К	КН	Y	Practical, Lecture	Written/ Viva voce		General Surgery	

	3) At the end of session the phase 1 students must describe the applied anatomy of axillary lymph nodes correctly.							
AN10.5	Description Descripti	К	КН	Y	Practical, Lecture	Written/ Viva voce		
AN10.6	 Explain the anatomical basis of clinical features of Erb's palsy and Klumpke's paralysis. Objectives- 1) At the end of session the phase 1 students must define Erb's palsy correctly. 2) At the end of session the phase 1 students must define Klumpke's paralysis correctly. 3) At the end of session the phase 1 students must describe the site of injury in Erb's palsy correctly. 4) At the end of session the phase 1 students must describe the site of injury in Klumpke's paralysis correctly. 5) At the end of session the phase 1 students must describe the mode of injury in Erb's palsy correctly. 6) At the end of session the phase 1 students must describe the mode of injury in Klumpke's paralysis correctly. 7) At the end of session the phase 1 students must describe the clinical features in Erb's palsy correctly. 8) At the end of session the phase 1 students must describe the clinical features in Klumpke's paralysis correctly. 	К	КН	N	Lecture	Written	General Surgery	
AN10.7	 Explain anatomical basis of enlarged axillary lymph nodes Objectives- 1) At the end of session the phase 1 students must describe the location of axillary group of lymph nodes correctly. 2) At the end of session the phase 1 students must describe the anatomical basis of enlarged axillary lymph nodes correctly. 3) At the end of session the phase 1 students must describe the applied anatomy of enlarged axillary lymph nodes correctly. 	К	КН	N	Lecture	Written	General Surgery	
AN10.8	Describe, identify and demonstrate the position, attachment, nerve supply and actions of trapezius and latissimus dorsi Objectives- 1) At the end of session the phase 1 students must describe the position of trapezius correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		

At the end of session the phase 1 students must describe				
the origin of trapezius correctly.				
At the end of session the phase 1 students must describe				
the insertion of trapezius correctly.				
4) At the end of session the phase 1 students must describe				
the nerve supply of trapezius correctly.				
5) At the end of session the phase 1 students must describe				
the action of trapezius correctly.				
6) At the end of session the phase 1 students must				
demonstrate the position of trapezius correctly.				
7) At the end of session the phase 1 students must				
demonstrate the origin of trapezius correctly.				
8) At the end of session the phase 1 students must				
demonstrate the insertion of trapezius correctly.				
9) At the end of session the phase 1 students must				
demonstrate the nerve supply of trapezius correctly.				
10) At the end of session the phase 1 students must				
demonstrate the action of trapezius correctly.				
11) At the end of session the phase 1 students must describe				
the position of latissimus dorsi correctly.				
12) At the end of session the phase 1 students must describe				
the origin of latissimus dorsi correctly.				
13) At the end of session the phase 1 students must describe				
the insertion of latissimus dorsi correctly.				
14) At the end of session the phase 1 students must describe				
the nerve supply of latissimus dorsi correctly.				
15) At the end of session the phase 1 students must describe				
the action of latissimus dorsi correctly.				
16) At the end of session the phase 1 students must				
demonstrate the position of latissimus dorsi correctly.				
17) At the end of session the phase 1 students must				
demonstrate the origin of latissimus dorsi correctly.				
18) At the end of session the phase 1 students must				
demonstrate the insertion of latissimus dorsi correctly.				
19) At the end of session the phase 1 students must				
demonstrate the nerve supply of latissimus dorsi				
correctly.				
20) At the end of session the phase 1 students must				
demonstrate the action of latissimus dorsi correctly.				

AN10.9	Describe the arterial anastomosis around the scapula and mention the boundaries of triangle of auscultation Objectives-	К	KH	N	Lecture	Written		1	
	At the end of session the phase 1 students must enumerate the arteries participating in anastomosis around the scapula correctly.							1	
	At the end of session the phase 1 students must describe the arterial anastomosis around the scapula correctly.) I	1					1	
	3) At the end of session the phase 1 students must describe the applied anatomy of arterial anastomosis around the scapula correctly.							1	
	4) At the end of session the phase 1 students must describe the boundaries of triangle of auscultation correctly.	 	1					1	
	5) At the end of session the phase 1 students must describe the applied anatomy of triangle of auscultation correctly.	 	1				 	1	
AN10.10	Describe and identify the deltoid and rotator cuff muscles Objectives-	K/S	SH		Practical, Lecture, Small group	Written/ Viva voce/ skill assessment			
	At the end of session the phase 1 students must describe the origin of deltoid muscle correctly.	 	'		discussion, DOAP	Jim dooccoment	1	1	
	2) At the end of session the phase 1 students must describe the insertion of deltoid muscle correctly.	 	1		30331011		1	1	
	3) At the end of session the phase 1 students must describe the nerve supply of deltoid muscle correctly.		1					1	'
	4) At the end of session the phase 1 students must describe the action of deltoid muscle correctly.		1]	1	
	5) At the end of session the phase 1 students must demonstrate the origin of deltoid muscle correctly.	 	1] ,		
	6) At the end of session the phase 1 students must demonstrate the insertion of deltoid muscle correctly.	 	1				1	1	
I	7) At the end of session the phase 1 students must demonstrate the nerve supply of deltoid muscle correctly.	 	1]	1	
	8) At the end of session the phase 1 students must demonstrate the action of deltoid muscle correctly.	 	1]		
I	9) At the end of session the phase 1 students must enumerate the muscles participating in formation of rotator cuff correctly.		1					1	
ı	10) At the end of session the phase 1 students must describe the muscles participating in formation of rotator cuff correctly.11) At the end of session the phase 1 students must discuss		1] ,		
1	theapplied anatomy of rotator cuff correctly. 12) At the end of session the phase 1 students must demonstrate		1				1	1	
	the muscles participating in formation of rotator cuff correctly.	'	<u> </u>					<u> </u>	

AN10.11	Describe & demonstrate attachment of serratus anterior with	K/S	SH	Ιγ	Practical,	Written/ Viva voce/		
,	its action	14,0	"		Lecture, Small group	skill assessment		
	Objectives-				discussion, DOAP	OKIII GOOGGOTTOTIC		
	At the end of session the phase 1 students must describe				session			
	the position of serratus anterior correctly.							
	2) At the end of session the phase 1 students must describe							
	the origin of serratus anterior correctly.							
	3) At the end of session the phase 1 students must describe							
	the insertion of serratus anterior correctly.							
	4) At the end of session the phase 1 students must describe							
	the nerve supply of serratus anterior correctly.							
	5) At the end of session the phase 1 students must describe							
	the action of serratus anterior correctly.							
	6) At the end of session the phase 1 students must describe							
	the applied anatomy of serratus anterior correctly.							
	7) At the end of session the phase 1 students must							
	demonstrate the position of serratus anterior correctly.							
	8) At the end of session the phase 1 students must							
	demonstrate the origin of serratus anterior correctly.							
	9) At the end of session the phase 1 students must							
	demonstrate the insertion of serratus anterior correctly.							
	10) At the end of session the phase 1 students must							
	demonstrate the nerve supply of serratus anterior							
	correctly.							
	11) At the end of session the phase 1 students must							
	demonstrate the action of serratus anterior correctly.							
AN10.12	Describe and demonstrate shoulder joint for– type, articular	K/S	SH	Y	Practical,	Written/ Viva voce/	Orthopedics	
	surfaces, capsule, synovial membrane, ligaments, relations,				Lecture, Small group	skill assessment		
	movements, muscles involved, blood supply, nerve supply and				discussion, DOAP			
	applied anatomy				session			
	Objectives-							
	1) At the end of session the phase 1 students must describe the							
	type of shoulder joint correctly.							
	2) At the end of session the phase 1 students must describe the							
	articular surfaces of shoulder joint correctly.							
	3) At the end of session the phase 1 students must describe the							
	capsule of shoulder joint correctly.							
	4) At the end of session the phase 1 students must describe the							
	synovial membrane of shoulder joint correctly.							
	5) At the end of session the phase 1 students must describe the							
	ligaments of shoulder joint correctly.							
	6) At the end of session the phase 1 students must describe the							
	relations of shoulder joint correctly.						1	

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	7) At the end of session the phase 1 students must describe the								
	movements of shoulder joint correctly.								
	8) At the end of session the phase 1 students must describe the								
	muscles involved in the movement of shoulder joint correctly.								
	9) At the end of session the phase 1 students must describe the								
	blood supply of shoulder joint correctly.								
	10) At the end of session the phase 1 students must describe the								
	nerve supply of shoulder joint correctly.								
	11) At the end of session the phase 1 students must describe the								
	applied anatomy of shoulder joint correctly.								
	12) At the end of session the phase 1 students must demonstrate								
	the type of shoulder joint correctly.								
	13) At the end of session the phase 1 students must demonstrate								
	the articular surfaces of shoulder joint correctly.								
	14) At the end of session the phase 1 students must demonstrate								
	the capsule of shoulder joint correctly.								
	15) At the end of session the phase 1 students must demonstrate								
	the synovial membrane of shoulder joint correctly.								
	16) At the end of session the phase 1 students must demonstrate								
	the ligaments of shoulder joint correctly. 17) At the end of session the phase 1 students must demonstrate								
	the relations of shoulder joint correctly.								
	18) At the end of session the phase 1 students must demonstrate								
	the movements of shoulder joint correctly.								
	19) At the end of session the phase 1 students must demonstrate								
	the muscles involved in the movement of shoulder joint								
	correctly.								
	20) At the end of session the phase 1 students must demonstrate								
	the blood supply of shoulder joint correctly.								
	21) At the end of session the phase 1 students must demonstrate								
	the nerve supply of shoulder joint correctly.								
AN10.13	Explain anatomical basis of Injury to axillary nerve during	K	KH	N	Lecture	Viva voce			
	intramuscular injections								
	Objectives-								
	1) At the end of session the phase 1 students must describe the								
	course of axillary nerve correctly.								
	2) At the end of session the phase 1 students must describe the								
	applied anatomy of axillary nerve correctly.								
	3) At the end of session the phase 1 students must describe the								
1	anatomical basis of Injury to axillary nerve during								
	intramuscular injections correctly.								
Tonic: Arr	n & Cubital fossa Number	r of compa	tencies: (6	`	Number (of procedures for certifi	cation: (NII)	1	
Opic. All	I w ounted 10000 I Willings	or compe		,	Number (i procedures for certifi	Jacon (141L)	,	

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required	Vertical Integration	Horizontal Integration
			SH/P				to certify		3 7 7 7
AN11.1	Describe and demonstrate muscle groups of upper arm with emphasis on biceps and triceps brachii	K/S	SH	Y	Practical, Lecture, Small group	Written/ Viva voce/ skill assessment			
	Objectives-				discussion, DOAP				
	At the end of session the phase 1 students must describe the origin of muscles of anterior compartment of arm correctly.				session				
	2) At the end of session the phase 1 students must describe the insertion of muscles of anterior compartment of arm correctly.								
	 At the end of session the phase 1 students must describe the nerve supply of muscles of anterior compartment of arm correctly. 								
	4) At the end of session the phase 1 students must describe the action of muscles of anterior compartment of arm correctly.								
	5) At the end of session the phase 1 students must describe the applied anatomy of biceps of arm correctly.								
	6) At the end of session the phase 1 students must demonstrate the origin of muscles of anterior compartment of arm correctly.								
	7) At the end of session the phase 1 students must demonstrate the insertion of muscles of anterior compartment of arm correctly.								
	8) At the end of session the phase 1 students must demonstrate the nerve supply of muscles of anterior compartment of arm correctly.								
	 At the end of session the phase 1 students must demonstrate the action of muscles of anterior compartment of arm correctly. 								
	10) At the end of session the phase 1 students must describe the origin of muscles of posterior compartment of arm correctly.								
	11) At the end of session the phase 1 students must describe the insertion of muscles of posterior compartment of arm correctly.								
	12) At the end of session the phase 1 students must describe the nerve supply of muscles of posterior compartment of arm correctly.								
	13) At the end of session the phase 1 students must describe the action of muscles of posterior compartment of arm correctly.								
	14) At the end of session the phase 1 students must describe the applied anatomy of triceps of arm correctly.								
	15) At the end of session the phase 1 students must demonstrate the origin of muscles of posterior compartment of arm correctly.								

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	16) At the end of session the phase 1 students must demonstrate							
	the insertion of muscles of posterior compartment of arm							
	correctly.							
	17) At the end of session the phase 1 students must demonstrate							
	the nerve supply of muscles of posterior compartment of arm							
	correctly.							
	18) At the end of session the phase 1 students must demonstrate							
	the action of muscles of posterior compartment of arm							
	correctly.							
AN11.2	Identify & describe origin, course, relations, branches (or	K/S	SH	Υ	Practical,	Written/ Viva voce/		
	tributaries), termination of important nerves and vessels in				Lecture, Small group	skill assessment		
	arm				discussion, DOAP			
	Objectives-				session			
	1) At the end of session the phase 1 students must describe the							
	formation of median nerve correctly.							
	2) At the end of session the phase 1 students must describe the							
	course of median nerve correctly.							
	3) At the end of session the phase 1 students must describe the							
	relations of median nerve correctly.							
	4) At the end of session the phase 1 students must describe the branches of median nerve correctly.							
	5) At the end of session the phase 1 students must describe the termination of median nerve correctly.							
	(6) At the end of session the phase 1 students must describe the applied anatomy of median nerve correctly.							
	7) At the end of session the phase 1 students must demonstrate							
	the formation of median nerve correctly.							
	8) At the end of session the phase 1 students must demonstrate							
	the course of median nerve correctly.							
	· ·							
	formation of radial nerve correctly.							
	13) At the end of session the phase 1 students must describe the							
	course of radial nerve correctly.							
	14) At the end of session the phase 1 students must describe the							
	relations of radial nerve correctly.							
	15) At the end of session the phase 1 students must describe the							
	branches of radial nerve correctly.							
	 At the end of session the phase 1 students must demonstrate the relations of median nerve correctly. At the end of session the phase 1 students must demonstrate the branches of median nerve correctly. At the end of session the phase 1 students must demonstrate the termination of median nerve correctly. At the end of session the phase 1 students must describe the formation of radial nerve correctly. At the end of session the phase 1 students must describe the course of radial nerve correctly. At the end of session the phase 1 students must describe the relations of radial nerve correctly. At the end of session the phase 1 students must describe the relations of radial nerve correctly. 							

16) At the end of session the phase 1 students must describe the				
termination of radial nerve correctly.				
17) At the end of session the phase 1 students must describe the				
applied anatomy of radial nerve correctly.				
18) At the end of session the phase 1 students must demonstrate				
theformation of radial nerve correctly.				
19) At the end of session the phase 1 students must demonstrate				
the course of radial nerve correctly.				
20) At the end of session the phase 1 students must demonstrate				
the relations of radial nerve correctly.				
21) At the end of session the phase 1 students must demonstrate				
the branches of radial nerve correctly.				
22) At the end of session the phase 1 students must demonstrate				
the termination of radial nerve correctly.				
23) At the end of session the phase 1 students must describe the				
formation of ulnar nerve correctly.				
24) At the end of session the phase 1 students must describe the				
course of ulnar nerve correctly.				
25) At the end of session the phase 1 students must describe the				
relations of ulnar nerve correctly.				
26) At the end of session the phase 1 students must describe the				
branches of ulnar nerve correctly.				
27) At the end of session the phase 1 students must describe the				
termination of ulnar nerve correctly.				
28) At the end of session the phase 1 students must describe the				
applied anatomy of ulnar nerve correctly.				
29) At the end of session the phase 1 students must demonstrate				
the formation of ulnar nerve correctly.				
30) At the end of session the phase 1 students must demonstrate				
the course of ulnar nerve correctly.				
31) At the end of session the phase 1 students must demonstrate the relations of ulnar nerve correctly.				
32) At the end of session the phase 1 students must demonstrate				
the branches of ulnar nerve correctly.				
33) At the end of session the phase 1 students must demonstrate				
the termination of ulnar nerve correctly.				
34) At the end of session the phase 1 students must describe the				
formation of musculocutaneous nerve correctly.				
35) At the end of session the phase 1 students must describe the				
course of musculocutaneous nerve correctly.				
36) At the end of session the phase 1 students must describe the				
relations of musculocutaneous nerve correctly.				
37) At the end of session the phase 1 students must describe the				

	branches of musculocutaneous nerve correctly.							
	38) At the end of session the phase 1 students must describe the							
	termination of musculocutaneous nerve correctly.							
	39) At the end of session the phase 1 students must describe the							
	applied anatomy of musculocutaneous nerve correctly.							
	40) At the end of session the phase 1 students must demonstrate							
	the formation of musculocutaneous nerve correctly.							
	41) At the end of session the phase 1 students must demonstrate							
	the course of musculocutaneous nerve correctly.							
	42) At the end of session the phase 1 students must demonstrate							
	the relations of musculocutaneous nerve correctly.							
	43) At the end of session the phase 1 students must demonstrate							
	the branches of musculocutaneous nerve correctly.							
	44) At the end of session the phase 1 students must demonstrate							
	the termination of musculocutaneous nerve correctly.							
	45) At the end of session the phase 1 students must describe the							
	formation of brachial artery correctly.							
	46) At the end of session the phase 1 students must describe the							
	course of brachial artery correctly.							
	47) At the end of session the phase 1 students must describe the							
	relations of brachial artery correctly.							
	48) At the end of session the phase 1 students must describe the							
	branches of brachial artery correctly.							
	49) At the end of session the phase 1 students must describe the							
	termination of brachial artery correctly.							
	50) At the end of session the phase 1 students must describe the							
	applied anatomy of brachial artery correctly.							
	51) At the end of session the phase 1 students must demonstrate							
	the formation of brachial artery correctly.							
	52) At the end of session the phase 1 students must demonstrate							
	the course of brachial artery correctly.							
	53) At the end of session the phase 1 students must demonstrate							
	the relations of brachial artery correctly.							
	54) At the end of session the phase 1 students must demonstrate							
	the branches of brachial artery correctly.							
	55) At the end of session the phase 1 students must demonstrate							
	the termination of brachial artery correctly.							
AN11.3	Describe the anatomical basis of Venepuncture of cubital	K	KH	Y	Practical, Lecture	Written/ Viva voce	General Surgery	
	veins.							
	Objectives-							
	At the end of session the phase 1 students must describe the formation of cubital vein correctly.							
	2) At the end of session the phase 1 students must describe							
	the course of cubital vein correctly.							
<u> </u>	and doubted of dubital voil bollouty.			I	ı		<u> </u>	Ц

	 3) At the end of session the phase 1 students must describe the distribution of cubital vein correctly. 4) At the end of session the phase 1 students must describe the anatomical basis of Venepuncture of cubital vein correctly. 								
AN11.4	Describe the anatomical basis of Saturday night paralysis. Objectives- 1) At the end of session the phase 1 students must define Saturday night paralysis correctly. 2) At the end of session the phase 1 students must enumerate the disabilities in Saturday night paralysis correctly. 3) At the end of session the phase 1 students must discuss the course of nerve responsible for Saturday night paralysis correctly. 4) At the end of session the phase 1 students must discuss the anatomical basis of Saturday night paralysis correctly.	К	КН	Y	Practical, Lecture	Written/ Viva voce		Orthopedics	
AN11.5	 Identify & describe boundaries and contents of cubital fossa Objectives- At the end of session the phase 1 students must describe the boundaries of cubital fossa correctly. At the end of session the phase 1 students must describe the contents of cubital fossa correctly. At the end of session the phase 1 students must describe the applied anatomy of cubital fossa correctly. At the end of session the phase 1 students must demonstrate the boundaries of cubital fossa correctly. At the end of session the phase 1 students must demonstrate the contents of cubital fossa correctly. 	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN11.6	Describe the anastomosis around the elbow joint Objectives- 6) At the end of session the phase 1 students must enumerate the arteries participating in anastomosis around the elbow joint correctly. 7) At the end of session the phase 1 students must describe the arterial anastomosis around the elbow joint correctly. 8) At the end of session the phase 1 students must describe the applied anatomy of arterial anastomosis around the elbow joint correctly.	К	KH	N	Lecture	Written			
Topic: Fo	rearm & hand Number	of compet	encies: (15)	Number of p	rocedures for certific	ation: (NIL)		
AN12.1	Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions Objectives- 1) At the end of session the phase 1 students must describe the origin of superficial muscles of anterior compartment of	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			

	forearm correctly.		1		1	I	I
2)	At the end of session the phase 1 students must describe the						
2)	insertion of superficial muscles of anterior compartment of						
	forearm correctly.						
3/							
3)							
	nerve supply of superficial muscles of anterior compartment of						
4)	forearm correctly.						
4)	•						
	action of superficial muscles of anterior compartment of						
_\	forearm correctly.						
5)	·						
	applied anatomy of superficial muscles of anterior						
	compartment of forearm correctly.						
6)	·						
	the origin of superficial muscles of anterior compartment of						
_,	forearm correctly.						
7)	·						
	the insertion of superficial muscles of anterior compartment of						
۵,	forearm correctly.						
8)	·						
	the nerve supply of superficial muscles of anterior						
l_,	compartment of forearm correctly.						
9)	•						
	the action of superficial muscles of anterior compartment of						
	forearm correctly.						
10) At the end of session the phase 1 students must describe the						
	origin of deep muscles of anterior compartment of forearm						
١	correctly.						
11) At the end of session the phase 1 students must describe the						
	insertion of deep muscles of anterior compartment of forearm						
	correctly.						
12) At the end of session the phase 1 students must describe the						
	nerve supply of deep muscles of anterior compartment of						
	forearm correctly.						
13) At the end of session the phase 1 students must describe the						
	action of deep muscles of anterior compartment of forearm						
	correctly.						
14) At the end of session the phase 1 students must describe the						
	applied anatomy of deep muscles of anterior compartment of						
	forearm correctly.						
15) At the end of session the phase 1 students must demonstrate						
	the origin of deep muscles of anterior compartment of forearm						
	correctly.					ĺ	

	 16) At the end of session the phase 1 students must demonstrate the insertion of deep muscles of anterior compartment of forearm correctly. 17) At the end of session the phase 1 students must demonstrate the nerve supply of deep muscles of anterior compartment of forearm correctly. 18) At the end of session the phase 1 students must demonstrate the action of deep muscles of anterior compartment of forearm correctly. 							
AN12.2	Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of forearm. Objectives- 1) At the end of session the phase 1 students must describe the course of median nerve in forearm correctly. 2) At the end of session the phase 1 students must describe the relations of median nerve in forearm correctly. 3) At the end of session the phase 1 students must describe the branches of median nerve in forearm correctly. 4) At the end of session the phase 1 students must describe the termination of median nerve in forearm correctly. 5) At the end of session the phase 1 students must demonstrate the course of median nerve in forearm correctly. 6) At the end of session the phase 1 students must demonstrate the relations of median nerve in forearm correctly. 7) At the end of session the phase 1 students must demonstrate the relations of median nerve in forearm correctly. 8) At the end of session the phase 1 students must demonstrate the branches of median nerve in forearm correctly. 9) At the end of session the phase 1 students must demonstrate the termination of median nerve in forearm correctly. 10) At the end of session the phase 1 students must describe the course of radial nerve in forearm correctly. 11) At the end of session the phase 1 students must describe the relations of radial nerve in forearm correctly. 12) At the end of session the phase 1 students must describe the termination of radial nerve in forearm correctly. 13) At the end of session the phase 1 students must describe the termination of radial nerve in forearm correctly. 14) At the end of session the phase 1 students must describe the applied anatomy of radial nerve in forearm correctly. 15) At the end of session the phase 1 students must describe the applied anatomy of radial nerve in forearm correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		

16) At the end of session the phase 1 students must demonstrate
the relations of radial nerve in forearm correctly.
17) At the end of session the phase 1 students must demonstrate
the branches of radial nerve in forearm correctly.
18) At the end of session the phase 1 students must demonstrate
the termination of radial nerve in forearm correctly.
19) At the end of session the phase 1 students must describe the
course of ulnar nerve in forearm correctly.
20) At the end of session the phase 1 students must describe the
relations of ulnar nerve in forearm correctly.
21) At the end of session the phase 1 students must describe the
branches of ulnar nerve in forearm correctly.
22) At the end of session the phase 1 students must describe the
termination of ulnar nerve in forearm correctly.
23) At the end of session the phase 1 students must describe the
applied anatomy of ulnar nerve in forearm correctly.
24) At the end of session the phase 1 students must demonstrate
the course of ulnar nerve in forearm correctly.
25) At the end of session the phase 1 students must demonstrate
the relations of ulnar nerve in forearm correctly.
26) At the end of session the phase 1 students must demonstrate
the branches of ulnar nerve in forearm correctly.
27) At the end of session the phase 1 students must demonstrate
the termination of ulnar nerve I forearm correctly.
28) At the end of session the phase 1 students must describe the
formation of radial artery correctly.
29) At the end of session the phase 1 students must describe the
course of radial artery correctly.
30) At the end of session the phase 1 students must describe the
relations of radial artery correctly.
31) At the end of session the phase 1 students must describe the
branches of radial artery correctly.
32) At the end of session the phase 1 students must describe the
termination of radial artery correctly. 33) At the end of session the phase 1 students must describe the
applied anatomy of radial artery correctly.
34) At the end of session the phase 1 students must demonstrate
the formation of radial artery correctly.
35) At the end of session the phase 1 students must demonstrate
the course of radial artery correctly.
36) At the end of session the phase 1 students must demonstrate
the relations of radial artery correctly.
37) At the end of session the phase 1 students must demonstrate
or) At the one of session the phase i students must demonstrate

	the branches of radial artery correctly.							
	38) At the end of session the phase 1 students must demonstrate							
	the termination of radial artery correctly.							
	39) At the end of session the phase 1 students must describe the							
	formation of ulnar artery correctly.							
	40) At the end of session the phase 1 students must describe the							
	course of ulnar artery correctly.							
	41) At the end of session the phase 1 students must describe the							
	relations of ulnar artery correctly.							
	42) At the end of session the phase 1 students must describe the							
	branches of ulnar artery correctly.							
	43) At the end of session the phase 1 students must describe the							
	termination of ulnar artery correctly.							
	44) At the end of session the phase 1 students must describe the							
	applied anatomy of ulnar artery correctly.							
	45) At the end of session the phase 1 students must demonstrate							
	the formation of ulnar artery correctly.							
	46) At the end of session the phase 1 students must demonstrate							
	the course of ulnar artery correctly.							
	47) At the end of session the phase 1 students must demonstrate							
	the relations of ulnar artery correctly.							
	48) At the end of session the phase 1 students must demonstrate							
	the branches of ulnar artery correctly.							
	49) At the end of session the phase 1 students must demonstrate							
	the termination of ulnar artery correctly.							
AN12.3	Identify & describe flexor retinaculum with its attachments	K/S	SH	Y	Practical,	Written/ Viva voce/		
AN 12.3	Objectives-	No) Sn	ı	Lecture, Small group	skill assessment		
	At the end of session the phase 1 students must define the				discussion, DOAP	Skill assessifietti		
	flexor retinaculum correctly.				session			
	2) At the end of session the phase 1 students must describe the				Session			
	attachments of flexor retinaculum correctly.							
	3) At the end of session the phase 1 students must enumerate							
	the structures passing superficial to flexor retinaculum							
	correctly.							
	4) At the end of session the phase 1 students must enumerate							
	the structures passing deep to flexor retinaculum correctly. 5) At the end of session the phase 1 students must describe the							
	5) At the end of session the phase 1 students must describe the applied anatomy of flexor retinaculum correctly.							
	6) At the end of session the phase 1 students must demonstrate							
	the location of flexor retinaculum correctly.							
	7) At the end of session the phase 1 students must demonstrate							
	the attachments of flexor retinaculum correctly.							
	8) At the end of session the phase 1 students must demonstrate							
	the structures passing superficial to flexor retinaculum							
	correctly.							

9) At the end of session the phase 1 students must demonstrate				
the structures passing deep to flexor retinaculum correctly.				

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Verti cal Integ ratio n	Horizontal Integratio n
AN12.4	Explain anatomical basis of carpal tunnel syndrome 1. At the end of session the phase 1 student must be able to describe anatomy of carpal tunnel correctly. 2. At the end of session the phase 1; student must be able to discuss carpal tunnel syndrome correctly.	К	KH	Y	Lecture	Written/ Viva voce			
AN12.5	Identify & describe small muscles of hand. Also describe movements of thumb and muscles involved. 1. At the end of session the phase 1; student must be able to describe small muscles of hand correctly. 2. At the end of session the phase 1; student must be able to identify small muscles of hand correctly. 3. At the end of session the phase 1; student must be able to describe movement of thumb correctly. 4. At the end of session the phase 1; student must be able to demonstrate muscles involved in thumb movements correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN12.6	Describe & demonstrate movements of thumb and muscles involved 1. At the end of session the phase 1; student must be able to describe movement of thumb correctly. 2. At the end of session the phase 1; student must be able to demonstrate muscles involved in thumb movements correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN12.7	Identify & describe course and branches of important blood vessels and nerves in hand 1. At the end of session the phase 1; student must be able to describe course ofRadial nerve in hand correctly. 2. At the end of session the phase 1; student must be able to describe course of Ulnar nerve in hand correctly. 3. At the end of session the phase 1; student must be able to describe course of Median nerve in hand correctly. 4. At the end of session the phase 1; student must be able to describe course of Radial artery in hand correctly. 5. At the end of session the phase 1; student must be able to describe course of ulnar artery in hand correctly. 6. At the end of session the phase 1; student must be able to describe Branches of Radial nerve in hand correctly. 7. At the end of session the phase 1; student must be able to describe Branches of Ulnar nerve in hand correctly. 8. At the end of session the phase 1; student must be able to describe Branches of Median nerve in hand correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			24

	9. At the end of session the phase 1; student must be able to describe	1					T ,		[
	Branches of Radial artery in hand correctly.	· '	1	1			· '	'	1 "
	10. At the end of session the phase 1; student must be able to describe	(1	1			'	'	1 1
	Branches of ulnar artery in hand correctly.	, '	1	1			'	'	1
	11. At the end of session the phase 1; student must be able to demonstrate	· '	1	1			'	']
	course ofRadial nerve in hand correctly.	· '	1	1			'	']
	12. At the end of session the phase 1; student must be able to	· '	1	1			· '	'	1 "
	demonstratecourse of Ulnar nerve in hand correctly.	(1	1			'	'	1 1
	13. At the end of session the phase 1; student must be able to	· '	1	1			· '	'	1 "
	demonstratecourse of Median nerve in hand correctly.	· '	1	1			'	']
	14. At the end of session the phase 1; student must be able to	· '	1	1			· '	'	1 "
	demonstratecourse of Radial artery in hand correctly.	· '	1	1			'	'	T I
	15. At the end of session the phase 1; student must be able to	· '	1	1			· '	'	1 "
	demonstratecourse of ulnar artery in hand correctly.	· '	1	1			· '	'	1 "
	16. At the end of session the phase 1; student must be able to	· '	1	1			· '	'	1 "
	demonstrateBranches of Radial nerve in hand correctly.	· '	1	1			· '	'	1 "
	17. At the end of session the phase 1; student must be able to	· '	1	1			· '	'	1
	demonstrateBranches of Ulnar nerve in hand correctly.	· '	1	1			· '	'	1
	18. At the end of session the phase 1; student must be able to	· '	1	1			· '	'	1
	demonstrateBranches of Median nerve in hand correctly.	· '	1	1			· '	'	1 "
	19. At the end of session the phase 1; student must be able to	· '	1	1			· '	'	1 1
	demonstrateBranches of Radial artery in hand correctly.	· '	1	1			· '	'	1 "
	20. At the end of session the phase 1; student must be able to	· '	1	1			· '	'	1 "
ANI42 0	demonstrateBranches of ulnar artery in hand correctly.	<u>'</u>	KH	Y	Lastina	Muittam / Mixa xaaa	+'	Canaral	+
AN12.8	Describe anatomical basis of Claw hand 1. At the end of session the phase 1; student must be able to describe	K	"	1	Lecture	Written/ Viva voce		General Surgery	1 "
	anatomy of ulnar nerve correctly.	· '	1	1			· '	Surgery	1
	2. At the end of session the phase 1; student must be able to discuss	· '	1	1			· '	'	1
	anatomical basis of claw hand correctly.	, '	1	1			· '	'	1
AN12.9	Identify & describe fibrous flexor sheaths, ulnar bursa, radial bursa and	K/S	SH	Y	Practical,	Written/ Viva voce/	+	 	+
AN 12.5	digital synovial sheaths	IVO I		'	Lecture, Small group	skill assessment	'	'	1
		, 1	1			Skiii assessinent	'	'	1
	1. At the end of session the phase 1; student must be able to describe fibrous	, 1	1		discussion, DOAP		'	'	
	flexor sheaths correctly. 2. At the end of session the phase 1; student must be able to describe ulnar	, 1	1		session		'	'	
	bursa correctly.	, 1	1				'	'	1
	3. At the end of session the phase 1; student must be able to describe radial	, 1	1				'	'	
	bursa correctly.	, 1	1				'	'	1
	4. At the end of session the phase 1; student must be able to describe digital	, 1	1	1			'	'	1
	synovial sheaths correctly.	, 1	1	1			'	'	1
	5. At the end of session the phase 1; student must be able to	, 1	1	1			'	'	
	demonstratefibrous flexor sheaths correctly.	, 1	1				'	'	
	6. At the end of session the phase 1; student must be able to demonstrate	, 1	1				'	'	1
	ulnar bursa correctly.	, 1	1				'	'	1
	7. At the end of session the phase 1; student must be able to	, 1	1	1			'	'	1
	demonstrateradial bursa correctly.	, 1	1				'	'	
	8. At the end of session the phase 1; student must be able to demonstrate	, 1	1				'	'	
	digital synovial sheathscorrectly.	, 1	1				'	'	
							•		1

ANI40 40	Typicin infection of feesiel energy of restrict		1/11	N.	Lastura	Mritton	Conorral	 1
AN12.10	Explain infection of fascial spaces of palm	K	KH	N	Lecture	Written	General	
	1. At the end of session the phase 1; student should be able to enlist fascial		· 	ļ .			Surgery	
	spaces of palm correctly.		' 	ļ .				
	2. At the end of session the phase 1; student should be able to describe fascial		· 	ļ .				
1	spaces of palm correctly. 3. At the end of session the phase 1; student should be able to		· 	l				ļ
	discussinfections of fascial spaces of palm correctly.		' 	l .				
AN12.11	Identify, describe and demonstrate important muscle groups of dorsal	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/	General	
AN 12.11		r/3	OI1	l t	1 '		Surgery	
	forearm with attachments, nerve supply and actions		· 	ļ .	group discussion, DOAP	SKIII ASSESSITIETIL	Cargery	
1	1. At the end of session the phase 1; student must be able to enlist muscles of		· 	ļ .	session			Į!
1	superficial group of dorsal forearm correctly.		· 	l				
ĺ	2. At the end of session the phase 1; student must be able to enlist muscles of deep group of dorsal forearm correctly.		· 	l				ļ
1			· 	l				
1	3. At the end of session the phase 1; student must be able to identify muscles		· 	ļ .				
ĺ	of superficial group of dorsal forearm correctly.		· 	l				
ı	4. At the end of session the phase 1; student must be able to identify muscles of deep group of dorsal forearm correctly.		· 	ļ .				
1	5. At the end of session the phase 1; student must be able to demonstrate		· 	ļ .				
	muscles of superficial group of dorsal forearm correctly.		· 	l				
	6. At the end of session the phase 1; student must be able to demonstrate		· 	l				
	muscles of deep group of dorsal forearm correctly.		· 	ļ .				
1	7. At the end of session the phase 1; student must be able to describe		· 	l				
	attachments of muscles of superficial group of dorsal forearm correctly.		· 	ļ .				
	8. At the end of session the phase 1; student must be able to describe		· 	ļ .				
	attachments of muscles of deep group of dorsal forearm correctly.		· 	ļ .				
	9. At the end of session the phase 1; student must be able to describe nerve		· 	l				
	supplies of muscles of superficial group of dorsal forearm correctly.		· 	l				
	10. At the end of session the phase 1; student must be able to describe nerve		· 	l				
	supplies of muscles of deep group of dorsal forearm correctly.		· 	ļ .				
1	11. At the end of session the phase 1; student must be able to demonstrate		· 	ļ .				
	actions of muscles of superficial group of dorsal forearm correctly.		· 	l				
1	12. At the end of session the phase 1; student must be able to demonstrate		· 	ļ .				
1	actions of muscles of deep group of dorsal forearm correctly.		· 	ļ .				
AN12.12	Identify & describe origin, course, relations, branches (or tributaries),	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/	General	
-	termination of important nerves and vessels of back of forearm		,	ļ -	group discussion, DOAP		Surgery	
1	1. At the end of session the phase 1; student must be able to describe origin of		i [ļ	session	January Community	3 5. 3	
1	radial nerve in back of forearm correctly.		ı İ	ļ	30331011			
1	2. At the end of session the phase 1; student must be able to describe origin of		i J	ļ				
1	posterior interosseous nervein back of forearm correctly.		i [ļ				
	3. At the end of session the phase 1; student must be able to describe origin of		i [ļ				
	posterior interosseous arteryin back of forearm correctly.		ı İ	ļ				
	4. At the end of session the phase 1; student must be able to describe course		i [ļ				
	of radial nerve in back of forearmcorrectly.		ı İ	ļ				
	5. At the end of session the phase 1; student must be able to describe course		i [ļ				
	of posterior interosseous nervein back of forearmcorrectly.		ı İ	ļ				
	6. At the end of session the phase 1; student must be able to describe course		ı İ	ļ				
	of posterior interosseous arteryin back of forearmcorrectly.		i J	ļ				
				ь		<u>, </u>		

7. At the end of session the phase 1; student must be able to describe relations of radial nerve in back of forearmcorrectly. 8. At the end of session the phase 1; student must be able to describe relations of posterior interosseous nervein back of forearmcorrectly. 9. At the end of session the phase 1; student must be able to describe relations of posterior interosseous arteryin back of forearm correctly. 10. At the end of session the phase 1; student must be able to describe		
8. At the end of session the phase 1; student must be able to describe relations of posterior interosseous nervein back of forearmcorrectly. 9. At the end of session the phase 1; student must be able to describe relations of posterior interosseous arteryin back of forearm correctly.		
relations of posterior interosseous nervein back of forearmcorrectly. 9. At the end of session the phase 1; student must be able to describe relations of posterior interosseous arteryin back of forearm correctly.		
9. At the end of session the phase 1; student must be able to describe relations of posterior interosseous arteryin back of forearm correctly.		
relations of posterior interosseous arteryin back of forearm correctly.		
		1
10. At the end of session the phase 1: student must be able to describe		
	1	1
branches of radial nerve in back of forearmcorrectly.	1	1 1
11. At the end of session the phase 1; student must be able to describe		1 1
branches of posterior interosseous nervein back of forearmcorrectly.		1 "
12. At the end of session the phase 1; student must be able to describe		
branches of posterior interosseous arteryin back of forearm correctly.		· [
13. At the end of session the phase 1; student must be able to describe		· I
tributaries of major veins of back of forearm correctly.		
14. At the end of session the phase 1; student must be able to demonstrate		1 1
origin of radial nerve in back of forearm correctly.		
15. At the end of session the phase 1; student must be able to		1 1
demonstrateorigin of posterior interosseous nervein back of forearm correctly.		1 "
16. At the end of session the phase 1; student must be able to		
demonstrateorigin of posterior interosseous arteryin back of forearm correctly. 17. At the end of session the phase 1; student must be able to demonstrate		1 1
course of radial nerve in back of forearmcorrectly.		1 "
18. At the end of session the phase 1; student must be able to demonstrate		· [
course of posterior interosseous nervein back of forearmcorrectly.		1
19. At the end of session the phase 1; student must be able to demonstrate		· [
course of posterior interosseous arteryin back of forearmcorrectly.] [
20. At the end of session the phase 1; student must be able to demonstrate		ľ
relations of radial nerve in back of forearmcorrectly.		1
21. At the end of session the phase 1; student must be able to demonstrate		1
relations of posterior interosseous nervein back of forearmcorrectly.		1
22. At the end of session the phase 1; student must be able to demonstrate		1
relations of posterior interosseous arteryin back of forearm correctly.		1
23. At the end of session the phase 1; student must be able to		1
demonstratebranches of radial nerve in back of forearmcorrectly.		1
24. At the end of session the phase 1; student must be able to		1
demonstratebranches of posterior interosseous nervein back of		1
forearmcorrectly.		1
25. At the end of session the phase 1; student must be able to		1
demonstratebranches of posterior interosseous arteryin back of forearm		1
correctly.		1
26. At the end of session the phase 1; student must be able to		1
demonstratetributaries of major veins of back of forearm correctly.		1
AN12.13 Describe the anatomical basis of Wrist drop K KH Y Lecture Written/ Viva voce	General	
1. At the end of session the phase 1; student must be able to describe radial	Surgery	
nerve correctly.		1
2. At the end of session the phase 1; student must be able to		

discussanatomical basis of wrist drop correctly.				

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration
AN12.14	Identify & describe compartments deep to extensor retinaculum 1. At the end of session the phase 1; student must be able to describe compartments deep to extensor retinaculum correctly. 2. At the end of session the phase 1; student must be able to identify compartments deep to extensor retinaculum correctly. 3. At the end of session the phase 1; student must be able to demonstrate compartments deep to extensor retinaculum correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		General Surgery	
AN12.15 Topic: Ge	Identify & describe extensor expansion formation 1. At the end of session the phase 1; student must be able to describe extensor expansion formation correctly. 2. At the end of session the phase 1; student must be able to identify extensor expansion formation correctly. 3. At the end of session the phase 1; student must be able to demonstrate extensor expansion formation correctly. neral Features, Joints, radiographs &surfacemarking Numl	K/S	SH etencies:(8	Y 3)	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment	fication:(NIL)	
AN13.1	Describe and explain Fascia of upper limb and compartments, veins of upper limb and its lymphatic drainage 1. At the end of session the phase 1; student must be able to describe Fascia of upper limb correctly. 2. At the end of session the phase 1; student must be able to describe compartments of upper limb correctly. 3. At the end of session the phase 1; student must be able to describe veins of upper limb correctly. 4. At the end of session the phase 1; student must be able to describe lymphatic drainage of upper limb correctly. 5. At the end of session the phase 1; student must be able to explain Fascia of upper limb correctly. 6. At the end of session the phase 1; student must be able to explain compartments of upper limb correctly. 7. At the end of session the phase 1; student must be able to explainveins of upper limb correctly. 8. At the end of session the phase 1; student must be able to explain lymphatic drainage of upper limb correctly.	К	КН	Y	Lecture	Written/ Viva voce			
AN13.2	Describe dermatomes of upper limb 1. At the end of session the phase 1; student should be able to describe dermatomes of upper limb correctly. 2. At the end of session the phase 1; student should be able to discuss dermatomes of upper limb correctly.	К	КН	N	Lecture	Written/ Viva voce			

	,			T	1	.		
AN13.3	Identify & describe the type, articular surfaces, capsule, synovial	K/S	SH	Y	Practical,	Written/ Viva voce/		
	membrane, ligaments, relations, movements, blood and nerve				Lecture, Small group	skill assessment		
	supply of elbow joint, proximal and distal radio-ulnar joints, wrist				discussion, DOAP			
	joint & first carpometacarpal joint				session			
	1. At the end of session the phase 1; student must be able to describe type							
	of elbow joint correctly.							
	2. At the end of session the phase 1; student must be able to describe							
	articular surfaces of elbow joint correctly.							
	3. At the end of session the phase 1; student must be able to describe							
	capsule of elbow joint correctly.							
	4. At the end of session the phase 1; student must be able to describe							
	synovial membrane of elbow joint correctly.							
	5. At the end of session the phase 1; student must be able to describe							
	ligaments of elbow joint correctly.							
	6. At the end of session the phase 1; student must be able to describe							
	relations of elbow joint correctly.							
	7. At the end of session the phase 1; student must be able to describe							
	movements of elbow joint correctly.							
	8. At the end of session the phase 1; student must be able to describe blood supply of elbow joint correctly.							
	9. At the end of session the phase 1; student must be able to describe							
	nerve supply of elbow joint correctly.							
	10. At the end of session the phase 1; student must be able to identify type							
	of elbow joint correctly.							
	11. At the end of session the phase 1; student must be able to identify							
	articular surfaces of elbow joint correctly.							
	12. At the end of session the phase 1; student must be able to identify							
	capsule of elbow joint correctly.							
	13. At the end of session the phase 1; student must be able to identify							
	synovial membrane of elbow joint correctly.							
	14. At the end of session the phase 1; student must be able to identify							
	ligaments of elbow joint correctly.							
	15. At the end of session the phase 1; student must be able to identify							
	relations of elbow joint correctly.							
	16. At the end of session the phase 1; student must be able to identify							
	movements of elbow joint correctly.							
	17. At the end of session the phase 1; student must be able to identify							
	blood supply of elbow joint correctly.							
	18. At the end of session the phase 1; student must be able to identify							
	nerve supply of elbow joint correctly.							
	19. At the end of session the phase 1; student must be able to demonstrate							
	type of elbow joint correctly. 20. At the end of session the phase 1; student must be able to demonstrate							
	articular surfaces of elbow joint correctly.							
	21. At the end of session the phase 1; student must be able to demonstrate							
	capsule of elbow joint correctly.							
	22. At the end of session the phase 1; student must be able to demonstrate							
	22. At the one of session the phase 1, student must be able to demonstrate				<u> </u>	I	1	

synovial membrane of elbow joint correctly.	
23. At the end of session the phase 1; student must be able to demonstrate	
ligaments of elbow joint correctly.	
24. At the end of session the phase 1; student must be able to demonstrate	
relations of elbow joint correctly.	
25. At the end of session the phase 1; student must be able to demonstrate	
movements of elbow joint correctly.	
26. At the end of session the phase 1; student must be able to demonstrate	
blood supply of elbow joint correctly.	
27. At the end of session the phase 1; student must be able to demonstrate	
nerve supply of elbow joint correctly.	
28. At the end of session the phase 1; student must be able to describe	
type of proximal radio-ulnar joints correctly.	
29. At the end of session the phase 1; student must be able to describe	
articular surfaces of proximal radio-ulnar joints correctly.	
30. At the end of session the phase 1; student must be able to describe	
capsule of proximal radio-ulnar joints correctly.	
31. At the end of session the phase 1; student must be able to describe	
synovial membrane of proximal radio-ulnar joints correctly.	
32. At the end of session the phase 1; student must be able to describe	
ligaments of proximal radio-ulnar joints correctly.	
33. At the end of session the phase 1; student must be able to describe	
relations of proximal radio-ulnar joints correctly.	
34. At the end of session the phase 1; student must be able to describe	
movements of proximal radio-ulnar joints correctly.	
35. At the end of session the phase 1; student must be able to describe	
blood supply of proximal radio-ulnar joints correctly.	
36. At the end of session the phase 1; student must be able to describe	
nerve supply of proximal radio-ulnar joints correctly.	
37. At the end of session the phase 1; student must be able to identify type	
of proximal radio-ulnar joints correctly. 38. At the end of session the phase 1; student must be able to identify	
articular surfaces of proximal radio-ulnar joints correctly.	
39. At the end of session the phase 1; student must be able to identify	
capsule of proximal radio-ulnar joints correctly.	
40. At the end of session the phase 1; student must be able to identify	
synovial membrane of proximal radio-ulnar joints correctly.	
41. At the end of session the phase 1; student must be able to identify	
ligaments of proximal radio-ulnar joints correctly.	
42. At the end of session the phase 1; student must be able to identify	
relations of proximal radio-ulnar joints correctly.	
43. At the end of session the phase 1; student must be able to identify	
movements of proximal radio-ulnar joints correctly.	
44. At the end of session the phase 1; student must be able to identify	
blood supply of proximal radio-ulnar joints correctly.	
45. At the end of session the phase 1; student must be able to identify	
nerve supply of proximal radio-ulnar joints correctly.	

4	16. At the end of session the phase 1; student must be able to demonstrate				
	ype of proximal radio-ulnar joints correctly.				
	47. At the end of session the phase 1; student must be able to demonstrate				
	articular surfaces of proximal radio-ulnar joints correctly.				
	48. At the end of session the phase 1; student must be able to demonstrate				
	capsule of proximal radio-ulnar joints correctly.				
	9. At the end of session the phase 1; student must be able to demonstrate				
	ynovial membrane of proximal radio-ulnar joints correctly.				
	50. At the end of session the phase 1; student must be able to demonstrate				
	igaments of proximal radio-ulnar joints correctly.				
	51. At the end of session the phase 1; student must be able to demonstrate				
	relations of proximal radio-ulnar joints correctly.				
	52. At the end of session the phase 1; student must be able to demonstrate				
	movements of proximal radio-ulnar joints correctly.				
	53. At the end of session the phase 1; student must be able to demonstrate				
	blood supply of proximal radio-ulnar joints correctly.				
	54. At the end of session the phase 1; student must be able to demonstrate				
	nerve supply of proximal radio-ulnar joints correctly.				
	55. At the end of session the phase 1; student must be able to describe				
	ype of distal radio-ulnar joints correctly.				
	56. At the end of session the phase 1; student must be able to describe				
	articular surfaces of distal radio-ulnar joints correctly.				
	57. At the end of session the phase 1; student must be able to describe				
	capsule of distal radio-ulnar joints correctly.				
	58. At the end of session the phase 1; student must be able to describe				
	synovial membrane of distal radio-ulnar joints correctly.				
	59. At the end of session the phase 1; student must be able to describe				
	igaments of distal radio-ulnar joints correctly.				
	60. At the end of session the phase 1; student must be able to describe				
	relations of distal radio-ulnar joints correctly.				
	61. At the end of session the phase 1; student must be able to describe				
	movements of distal radio-ulnar joints correctly.				
	62. At the end of session the phase 1; student must be able to describe				
	blood supply of distal radio-ulnar joints correctly.				
	63. At the end of session the phase 1; student must be able to describe				
	nerve supply of distal radio-ulnar joints correctly.				
	64. At the end of session the phase 1; student must be able to identify type				
	of distal radio-ulnar joints correctly.				
	65. At the end of session the phase 1; student must be able to identify				
	articular surfaces of distal radio-ulnar joints correctly.				
	66. At the end of session the phase 1; student must be able to identify				
	capsule of distal radio-ulnar joints correctly.				
	67. At the end of session the phase 1; student must be able to identify				
	synovial membrane of distal radio-ulnar joints correctly.				
	68. At the end of session the phase 1; student must be able to identify				
	igaments of distal radio-ulnar joints correctly.				
	69. At the end of session the phase 1; student must be able to				
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identifyrelations of distal radio-ulnar joints correctly. 70. At the end of session the phase 1; student must be able to identify movements of distal radio-ulnar joints correctly. 71. At the end of session the phase 1; student must be able to identify blood supply of distal radio-ulnar joints correctly. 72. At the end of session the phase 1; student must be able to identify	
70. At the end of session the phase 1; student must be able to identify movements of distal radio-ulnar joints correctly. 71. At the end of session the phase 1; student must be able to identify blood supply of distal radio-ulnar joints correctly. 72. At the end of session the phase 1; student must be able to identify	
movements of distal radio-ulnar joints correctly. 71. At the end of session the phase 1; student must be able to identify blood supply of distal radio-ulnar joints correctly. 72. At the end of session the phase 1; student must be able to identify	
71. At the end of session the phase 1; student must be able to identify blood supply of distal radio-ulnar joints correctly. 72. At the end of session the phase 1; student must be able to identify	
blood supply of distal radio-ulnar joints correctly. 72. At the end of session the phase 1; student must be able to identify	
72. At the end of session the phase 1; student must be able to identify	
I PORVO CURRIV OT GICTOL FOGIO LIBRAT IGIPTE CONTROCTIV	
nerve supply of distal radio-ulnar joints correctly. 73. At the end of session the phase 1; student must be able to demonstrate	
type of distal radio-ulnar joints correctly.	
74. At the end of session the phase 1; student must be able to demonstrate	
articular surfaces of distal radio-ulnar joints correctly.	
75. At the end of session the phase 1; student must be able to demonstrate	
capsule of distal radio-ulnar joints correctly.	
76. At the end of session the phase 1; student must be able to demonstrate	
synovial membrane of distal radio-ulnar joints correctly.	
77. At the end of session the phase 1; student must be able to demonstrate	
ligaments of distal radio-ulnar joints correctly.	
78. At the end of session the phase 1; student must be able to demonstrate	
relations of distal radio-ulnar joints correctly.	
79. At the end of session the phase 1; student must be able to demonstrate	
movements of distal radio-ulnar joints correctly.	
80. At the end of session the phase 1; student must be able to demonstrate	
blood supply of distal radio-ulnar joints correctly.	
81. At the end of session the phase 1; student must be able to demonstrate	
nerve supply of distal radio-ulnar joints correctly.	
82. At the end of session the phase 1; student must be able to describe	
type of wrist joint correctly.	
83. At the end of session the phase 1; student must be able to describe	
articular surfaces of wrist joint correctly.	
84. At the end of session the phase 1; student must be able to describe	
capsule of wrist joint correctly.	
85. At the end of session the phase 1; student must be able to describe	
synovial membrane of wrist joint correctly.	
86. At the end of session the phase 1; student must be able to describe	
ligaments of wrist joint correctly.	
87. At the end of session the phase 1; student must be able to describe	
relations of wrist joint correctly.	
88. At the end of session the phase 1; student must be able to describe	
movements of wrist joint correctly.	
89. At the end of session the phase 1; student must be able to describe	
blood supply of wrist joint correctly.	
90. At the end of session the phase 1; student must be able to describe	
nerve supply of wrist joint correctly.	
91. At the end of session the phase 1; student must be able to identify type	
of wrist joint correctly.	
92. At the end of session the phase 1; student must be able to identify	
articular surfaces of wrist joint correctly.	

93. At the end of session the phase 1; student must be able to identify				
capsule of wrist joint correctly.				
94. At the end of session the phase 1; student must be able to identify				
synovial membrane of wrist joint correctly.				
95. At the end of session the phase 1; student must be able to identify				
ligaments of wrist joint correctly.				
96. At the end of session the phase 1; student must be able to identify				
relations of wrist joint correctly.				
97. At the end of session the phase 1; student must be able to identify				
movements of wrist joint correctly.				
98. At the end of session the phase 1; student must be able to identify				
blood supply of wrist joint correctly.				
99. At the end of session the phase 1; student must be able to identify				
nerve supply of wrist joint correctly.				
100. At the end of session the phase 1; student must be able to				
demonstrate type of wrist joint correctly.				
101. At the end of session the phase 1; student must be able to				
demonstrate articular surfaces of wrist joint correctly.				
102. At the end of session the phase 1; student must be able to				
demonstrate capsule of wrist joint correctly.				
103. At the end of session the phase 1; student must be able to				
demonstrate synovial membrane of wrist joint correctly.				
104. At the end of session the phase 1; student must be able to				
demonstrate ligaments of wrist joint correctly.				
105. At the end of session the phase 1; student must be able to				
demonstrate relations of wrist joint correctly.				
106. At the end of session the phase 1; student must be able to				
demonstrate movements of wrist joint correctly.				
107. At the end of session the phase 1; student must be able to				
demonstrate blood supply of wrist joint correctly.				
108. At the end of session the phase 1; student must be able to				
demonstrate nerve supply of wrist joint correctly.				
109. At the end of session the phase 1; student must be able to describe				
type of first carpometacarpal joint correctly.				
110. At the end of session the phase 1; student must be able to describe				
articular surfaces of first carpometacarpal joint correctly.				
111. At the end of session the phase 1; student must be able to describe				
capsule of first carpometacarpal joint correctly.				
112. At the end of session the phase 1; student must be able to describe				
synovial membrane of first carpometacarpal joint correctly.				
113. At the end of session the phase 1; student must be able to describe				
ligaments of first carpometacarpal joint correctly.				
114. At the end of session the phase 1; student must be able to describe				
relations of first carpometacarpal joint correctly.				
115. At the end of session the phase 1; student must be able to describe				
movements of first carpometacarpal joint correctly.				
116. At the end of session the phase 1; student must be able to describe				

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	blood supply of first carpometacarpal joint correctly.							
	117. At the end of session the phase 1; student must be able to describe							
	nerve supply of first carpometacarpal joint correctly.							
	118. At the end of session the phase 1; student must be able to identify							
	type of first carpometacarpal joint correctly.							
	119. At the end of session the phase 1; student must be able to identify							
	articular surfaces of first carpometacarpal joint correctly.							
	120. At the end of session the phase 1; student must be able to identify							
	capsule of first carpometacarpal joint correctly.							
	121. At the end of session the phase 1; student must be able to identify							
	synovial membrane of first carpometacarpal joint correctly.							
	122. At the end of session the phase 1; student must be able to identify							
	ligaments of first carpometacarpal joint correctly.							
	123. At the end of session the phase 1; student must be able to identify							
	relations of first carpometacarpal joint correctly.							
	124. At the end of session the phase 1; student must be able to identify							
	movements of first carpometacarpal joint correctly.							
	125. At the end of session the phase 1; student must be able to identify							
	blood supply of first carpometacarpal joint correctly.							
	126. At the end of session the phase 1; student must be able to identify							
	nerve supply of first carpometacarpal joint correctly.							
	127. At the end of session the phase 1; student must be able to							
	demonstrate type of first carpometacarpal joint correctly.							
	128. At the end of session the phase 1; student must be able to							
	demonstrate articular surfaces of first carpometacarpal joint correctly.							
	129. At the end of session the phase 1; student must be able to							
	demonstrate capsule of first carpometacarpal joint correctly.							
	130. At the end of session the phase 1; student must be able to							
	demonstrate synovial membrane of first carpometacarpal joint correctly.							
	131. At the end of session the phase 1; student must be able to							
	demonstrate ligaments of first carpometacarpal joint correctly.							
	132. At the end of session the phase 1; student must be able to							
	demonstrate relations of first carpometacarpal joint correctly.							
	133. At the end of session the phase 1; student must be able to							
	demonstrate movements of first carpometacarpal joint correctly.							
	134. At the end of session the phase 1; student must be able to							
	demonstrate blood supply of first carpometacarpal joint correctly.							
	135. At the end of session the phase 1; student must be able to							
A N 1 4 0 . 4	demonstrate nerve supply of first carpometacarpal joint correctly.	17	171.1	.		107.11		
AN13.4	Describe Sternoclavicular joint, Acromioclavicular joint,	K	KH	N	Lecture	Written		
	Carpometacarpal joints & Metacarpophalangeal joint							
	1. At the end of session the phase 1; student should be able to describe							
	Sternoclavicular joint correctly.							
	2. At the end of session the phase 1; student should be able to discuss							
	Sternoclavicular joint correctly.							
	Sternoclavicular joint correctly. 3. At the end of session the phase 1; student should be able to describe Acromioclavicular joint correctly.							

	 4. At the end of session the phase 1; student should be able to discuss Acromioclavicular joint correctly. 5. At the end of session the phase 1; student should be able to describe Carpometacarpal joints correctly. 6. At the end of session the phase 1; student should be able to discuss Carpometacarpal joints correctly. 7. At the end of session the phase 1; student should be able to describe Metacarpophalangeal joint correctly. 8. At the end of session the phase 1; student should be able to discuss 							
	Metacarpophalangeal joint correctly.							
AN13.5	Identify the bones and joints of upper limb seen in anteroposterior and lateral view radiographs of shoulder region, arm, elbow, forearm and hand 1. At the end of session the phase 1; student must be able to describe bones of upper limb in anteroposterior view radiographs of shoulder region correctly. 2. At the end of session the phase 1; student must be able to identify bones of upper limb in anteroposterior view radiographs of shoulder region correctly. 3. At the end of session the phase 1; student must be able to demonstrate bones of upper limb in anteroposterior view radiographs of shoulder region correctly. 4. At the end of session the phase 1; student must be able to describe bones of upper limb in lateral view radiographs of shoulder region correctly. 5. At the end of session the phase 1; student must be able to identify bones of upper limb in lateral view radiographs of shoulder region correctly. 6. At the end of session the phase 1; student must be able to demonstrate bones of upper limb in lateral view radiographs of shoulder region correctly. 7. At the end of session the phase 1; student must be able to describe joints of upper limb in anteroposterior view radiographs of shoulder region correctly. 8. At the end of session the phase 1; student must be able to identifyjoints of upper limb in anteroposterior view radiographs of shoulder region correctly. 9. At the end of session the phase 1; student must be able to describe joints of upper limb in lateral view radiographs of shoulder region correctly. 10. At the end of session the phase 1; student must be able to describe joints of upper limb in lateral view radiographs of shoulder region correctly. 11. At the end of session the phase 1; student must be able to describe joints of upper limb in lateral view radiographs of shoulder region correctly. 12. At the end of session the phase 1; student must be able to identifyjoints of upper limb in lateral view radiographs of shoulder region correctly. 13. At the end of session the phase 1; student	K/S	SH	Y	Practical, Small group discussion, DOAP session	Viva voce/ skill assessment	Radiodiagnosis	

14	1. At the end of session the phase 1; student must be able to				
	entifybones of upper limb in anteroposterior view radiographs of arm				
	prrectly.				
	5. At the end of session the phase 1; student must be able to demonstrate				
	ones of upper limb in anteroposterior view radiographs of arm correctly.				
	6. At the end of session the phase 1; student must be able to describe				
	ones of upper limb in lateral view radiographs of arm correctly.				
	7. At the end of session the phase 1; student must be able to identify				
	ones of upper limb in lateral view radiographs of arm correctly.				
	3. At the end of session the phase 1; student must be able to demonstrate				
	ones of upper limb in lateral view radiographs of arm correctly.				
	P. At the end of session the phase 1; student must be able to describe				
	ints of upper limb in anteroposterior view radiographs of arm correctly.				
	O. At the end of session the phase 1; student must be able to identifyjoints				
	upper limb in anteroposterior view radiographs of arm correctly.				
	I. At the end of session the phase 1; student must be able to				
	emonstratejoints of upper limb in anteroposterior view radiographs of arm				
	principles of apper limb in anterspectation view reallegraphs of arm principles.				
	2. At the end of session the phase 1; student must be able to describe				
	ints of upper limb in lateral view radiographs of arm correctly.				
	3. At the end of session the phase 1; student must be able to identifyjoints				
	upper limb in lateral view radiographs of arm correctly.				
	4. At the end of session the phase 1; student must be able to				
	emonstratejoints of upper limb in lateral view radiographs of arm correctly.				
	5. At the end of session the phase 1; student must be able to describe				
	ones of upper limb in anteroposterior view radiographs of elbow correctly.				
	6. At the end of session the phase 1; student must be able to identify				
	ones of upper limb in anteroposterior view radiographs of elbow correctly.				
	7. At the end of session the phase 1; student must be able to demonstrate				
	ones of upper limb in anteroposterior view radiographs of elbow correctly.				
	3. At the end of session the phase 1; student must be able to describe				
bo	ones of upper limb in lateral view radiographs of elbow correctly.				
29	9. At the end of session the phase 1; student must be able to identify				
bo	ones of upper limb in lateral view radiographs of elbow correctly.				
30). At the end of session the phase 1; student must be able to demonstrate				
	ones of upper limb in lateral view radiographs of elbow correctly.				
31	I. At the end of session the phase 1; student must be able to describe				
bo	ones of upper limb in anteroposterior view radiographs of forearm				
cc	prrectly.				
32	2. At the end of session the phase 1; student must be able to identify				
bo	ones of upper limb in anteroposterior view radiographs of forearm				
	prrectly.				
	3. At the end of session the phase 1; student must be able to demonstrate				
bo	ones of upper limb in anteroposterior view radiographs of forearm				
	prrectly.				
	1. At the end of session the phase 1; student must be able to describe				
bo	ones of upper limb in lateral view radiographs of forearm correctly.				

	35. At the end of session the phase 1; student must be able to identify							i
	bones of upper limb in lateral view radiographs of forearm correctly.							i
	36. At the end of session the phase 1; student must be able to							i
	demonstratebones of upper limb in lateral view radiographs of forearm							ł
	correctly.							ł
	37. At the end of session the phase 1; student must be able to describe							i
	joints of upper limb in anteroposterior view radiographs of forearm correctly.							ł
	38. At the end of session the phase 1; student must be able to identifyjoints							ı
	of upper limb in anteroposterior view radiographs of forearm correctly.							i
	39. At the end of session the phase 1; student must be able to							i
	demonstratejoints of upper limb in anteroposterior view radiographs of							i
	forearm correctly.							i
	40. At the end of session the phase 1; student must be able to describe							i
	joints of upper limb in lateral view radiographs of forearm correctly.							ı
	41. At the end of session the phase 1; student must be able to identifyjoints							ı
	of upper limb in lateral view radiographs of forearm correctly.							i
	42. At the end of session the phase 1; student must be able to							ı
	demonstratejoints of upper limb in lateral view radiographs of forearm							ı
	correctly.							i
	43. At the end of session the phase 1; student must be able to describe							ı
	bones of upper limb in anteroposterior view radiographs of hand correctly.							ı
	44. At the end of session the phase 1; student must be able to identify							i
	bones of upper limb in anteroposterior view radiographs of hand correctly.							i
	45. At the end of session the phase 1; student must be able to demonstrate							ı
	bones of upper limb in anteroposterior view radiographs of hand correctly.							i
	46. At the end of session the phase 1; student must be able to describe							i
	bones of upper limb in lateral view radiographs of hand correctly.							i
	47. At the end of session the phase 1; student must be able to identify							i
	bones of upper limb in lateral view radiographs of hand correctly.							i
	48. At the end of session the phase 1; student must be able to demonstrate							i
	bones of upper limb in lateral view radiographs of hand correctly.							ı
	49. At the end of session the phase 1; student must be able to describe							i
	joints of upper limb in anteroposterior view radiographs of hand correctly.							i
	50. At the end of session the phase 1; student must be able to identifyjoints							i
	of upper limb in anteroposterior view radiographs of hand correctly.							ı
	51. At the end of session the phase 1; student must be able to							i
	demonstratejoints of upper limb in anteroposterior view radiographs of hand							ı
	correctly.							ı
	52. At the end of session the phase 1; student must be able to describe							ı
	joints of upper limb in lateral view radiographs of hand correctly.							ı
	53. At the end of session the phase 1; student must be able to identifyjoints							ı
	of upper limb in lateral view radiographs of hand correctly.							ı
	54. At the end of session the phase 1; student must be able to							ı
	demonstratejoints of upper limb in lateral view radiographs of hand							ı
	correctly.							ı
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A N 14 O O	Identify 0 demonstrate important beautiful advantage of account 11.	1//0	011	1 1/	Dunation	V6	1		
AN13.6	Identify & demonstrate important bony landmarks of upper limb:	K/S	SH	Y	Practical,	Viva voce/ skill			
	Jugular notch, sternal angle, acromial angle, spine of the				Lecture, Small group	assessment			
	scapula, vertebral level of the medial end, Inferior angle of the				discussion, DOAP				
	scapula				session				
	1. At the end of session the phase 1; student must be able to identify								
	Jugular notch correctly.								
	2. At the end of session the phase 1; student must be able to demonstrate								
	Jugular notch correctly.								
	3. At the end of session the phase 1; student must be able to identify								
	sternal angle correctly.								
	4. At the end of session the phase 1; student must be able to demonstrate								
	sternal angle correctly.								
	5. At the end of session the phase 1; student must be able to identify								
	acromial angle correctly.								
	6. At the end of session the phase 1; student must be able to demonstrate								
	acromial angle correctly.								
	7. At the end of session the phase 1; student must be able to identify spine								
	of the scapula correctly.								
	8. At the end of session the phase 1; student must be able to demonstrate								
	spine of the scapula correctly.								
	9. At the end of session the phase 1; student must be able to identify								
	vertebral level of the medial end of the scapula correctly.								
	10. At the end of session the phase 1; student must be able to demonstrate								
	vertebral level of the medial end of the scapula correctly.								
	11. At the end of session the phase 1; student must be able to								
	identify Inferior angle of the scapula correctly.								
	12. At the end of session the phase 1; student must be able to								
	demonstrate Inferior angle of the scapula correctly.								
Number	COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
	The student should be able to	K/S/A/C	K/KH/	(Y/N)	Methods	Methods	required	Integration	Integration
			SH/P				to certify		
							P		
AN13.7	Identify & demonstrate surface projection of:	K/S	SH	Υ	Practical,	Viva voce/ skill			
	Cephalic and basilic vein, Palpation of Brachial artery, Radial artery,				Lecture, Small group	assessment			
	Testing of muscles: Trapezius, pectoralis major, serratus anterior,				discussion, DOAP				
	latissimus dorsi, deltoid, biceps brachii, Brachioradialis				session				
	At the end of session the phase 1; student must be able to describe				30331011				
	surface projection of Cephalic vein correctly.								
	2. At the end of session the phase 1; student must be able to demonstrate								
	surface projection of Cephalic vein correctly.								
	3. At the end of session the phase 1; student must be able to describe								
	surface projection of Basilic vein correctly.								
	4. At the end of session the phase 1; student must be able to demonstrate								
	surface projection of Basilic vein correctly.								
	5. At the end of session the phase 1; student must be able to describe								
	1. The state of seconds and princed it, state of the ability and to describe			1	l .			L	

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	Palpation of Brachial artery correctly.								
	6. At the end of session the phase 1; student must be able to demonstrate								
	Palpation of Brachial artery correctly.								
	7. At the end of session the phase 1; student must be able to describe								
	Palpation of Radial artery correctly.								
	8. At the end of session the phase 1; student must be able to demonstrate								
	Palpation of Radial artery correctly.								
	9. At the end of session the phase 1; student must be able to describe								
	Testing of Trapezius correctly.								
	10. At the end of session the phase 1; student must be able to demonstrate								
	Testing of Trapezius correctly.								
	11. At the end of session the phase 1; student must be able to describe								
	Testing of pectoralis major correctly.								
	12. At the end of session the phase 1; student must be able to demonstrate								
	Testing of pectoralis major correctly.								
	13. At the end of session the phase 1; student must be able to describe								
	Testing of serratus anterior correctly.								
	14. At the end of session the phase 1; student must be able to demonstrate								
	Testing of serratus anterior correctly.								
	15. At the end of session the phase 1; student must be able to describe								
	Testing of latissimus dorsi correctly.								
	16. At the end of session the phase 1; student must be able to demonstrate								
	Testing of latissimus dorsi correctly.								
	17. At the end of session the phase 1; student must be able to describe								
	Testing of deltoid correctly.								
	18. At the end of session the phase 1; student must be able to demonstrate								
	Testing of deltoid correctly.								
	19. At the end of session the phase 1; student must be able to describe								
	Testing of biceps brachii correctly.								
	20. At the end of session the phase 1; student must be able to demonstrate								
	Testing of biceps brachii correctly.								
	21. At the end of session the phase 1; student must be able to describe								
	Testing of Brachioradialis correctly.								
	22. At the end of session the phase 1; student must be able to demonstrate								
A N 1 4 G G	Testing of Brachioradialis correctly.	17	1711		,	 	-		\dashv
AN13.8	Describe development of upper limb	K	KH	N	Lecture	Written			
	1. At the end of session the phase 1; student should be able to describe								
	development of upper limb correctly.								
	2. At the end of session the phase 1; student should be able to discuss								
	development of upper limb correctly.								
					1		1	<u> </u>	\dashv
uil									
1									

AN14.1	Identify the given bone, its side, important features & keep it in	K/S	SH	V	DOAP session	Viva voce	1		
AN 14. I		N/3	ЗΠ	T	DOAP Session	viva voce			
	anatomical position								
	1. At the end of session the phase 1; student must be able to describe the								
	given bone correctly.								
	2. At the end of session the phase 1; student must be able to Identify the								
	given bone correctly.								
	3. At the end of session the phase 1; student must be able to describe the								
	side determination of given bone correctly.								
	4. At the end of session the phase 1; student must be able to Identify the								
	side determination of given bone correctly.								
	5. At the end of session the phase 1; student must be able to demonstrate								
	the side determination of given bone correctly.								
	6. At the end of session the phase 1; student must be able to describe the								
	important features of given bone correctly.								
	7. At the end of session the phase 1; student must be able to Identify the								
	important features of given bone correctly.								
	8. At the end of session the phase 1; student must be able to demonstrate								
	the important features of given bone correctly. 9. At the end of session the phase 1; student must be able to describe the								
	anatomical position of given bone correctly.								
	10. At the end of session the phase 1; student must be able to demonstrate								
	the anatomical position of given bone correctly.								
AN14.2	Identify & describe joints formed by the given bone	K/S	SH	Y	Lecture, DOAP session	Viva voce			
	1. At the end of session the phase 1; student must be able to describe								
	joints formed by the given bone correctly.								
	2. At the end of session the phase 1; student must be able to identify joints								
	formed by the given bone correctly.								
	3. At the end of session the phase 1; student must be able to demonstrate								
	joints formed by the given bone correctly.								
AN14.3	Describe the importance of ossification of lower end of femur &	K	KH	Y	Lecture	Viva voce/		Forensic	
AN 14.3		r.	КΠ	Y	Lecture			1	
	upper end of tibia					Practicals		Medicine &	
	1. At the end of session the phase 1; student must be able to describe							Toxicology	
	importance of ossification of lower end of femur correctly.								
	2. At the end of session the phase 1; student must be able to describe								
	importance of ossification of upper end of tibia correctly.								
	3. At the end of session the phase 1; student must be able to discuss								
	importance of ossification of lower end of femur correctly.								
	4. At the end of session the phase 1; student must be able to discuss								
ΛΝΙ4 4	importance of ossification of upper end of tibia correctly.	K/S	SH	N.I	Dractical DOAD assists	Vivo vocal			
AN14.4	Identify and name various bones in the articulated foot with individual	K/5	5П	N	Practical, DOAP session,	Viva voce/			
	muscle attachment				Small group teaching	Practicals			
	1. At the end of session the phase 1; student should be able to enlist								
	various bones in the articulated foot correctly.								
	2. At the end of session the phase 1; student should be able to identify								
	various bones in the articulated foot correctly.			1					

Topic: Fr	3. At the end of session the phase 1; student should be able to demonstrate various bones in the articulated foot correctly. 4. At the end of session the phase 1; student should be able to enlist muscle attachments of various bones in the articulated foot correctly. 5. At the end of session the phase 1; student should be able to identify muscle attachments of various bones in the articulated foot correctly. 6. At the end of session the phase 1; student should be able to demonstrate muscle attachments of various bones in the articulated foot correctly. Front & Medial sideofthigh Number	ofcompete	encies:(5)		Number of p	procedures for certifica	ation:(NIL)	
AN15.1	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh 1. At the end of session the phase 1; student must be able to describe origin of femoral nerve in anterior thigh correctly. 2. At the end of session the phase 1; student must be able to describe course of femoral nerve in anterior thigh correctly. 3. At the end of session the phase 1; student must be able to describe relations of femoral nerve in anterior thigh correctly. 4. At the end of session the phase 1; student must be able to describe branches of femoral nerve in anterior thigh correctly. 5. At the end of session the phase 1; student must be able to demonstrate origin of femoral nerve in anterior thigh correctly. 6. At the end of session the phase 1; student must be able to demonstratecourse of femoral nerve in anterior thigh correctly. 7. At the end of session the phase 1; student must be able to demonstraterelations of femoral nerve in anterior thigh correctly. 8. At the end of session the phase 1; student must be able to demonstratebranches of femoral nerve in anterior thigh correctly. 9. At the end of session the phase 1; student must be able to describe origin of femoral artery in anterior thigh correctly. 10. At the end of session the phase 1; student must be able to describe relations of femoral artery in anterior thigh correctly. 11. At the end of session the phase 1; student must be able to describe relations of femoral artery in anterior thigh correctly. 12. At the end of session the phase 1; student must be able to describe branches of femoral artery in anterior thigh correctly. 13. At the end of session the phase 1; student must be able to demonstrate origin of femoral artery in anterior thigh correctly. 14. At the end of session the phase 1; student must be able to demonstrate origin of femoral artery in anterior thigh correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		

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	15. At the end of session the phase 1; student must be able to							
	demonstraterelations of femoral artery in anterior thigh correctly.							
	16. At the end of session the phase 1; student must be able to							
	demonstratebranches of femoral artery in anterior thigh correctly.							
	17. At the end of session the phase 1; student must be able to describe							
	origin of femoral vein in anterior thigh correctly.							
	18. At the end of session the phase 1; student must be able to describe							
	course of femoral vein in anterior thigh correctly.							
	19. At the end of session the phase 1; student must be able to describe							
	relations of femoral vein in anterior thigh correctly.							
	20. At the end of session the phase 1; student must be able to describe							
	tributaries of femoral vein in anterior thigh correctly.							
	21. At the end of session the phase 1; student must be able to							
	demonstrate origin of femoral vein in anterior thigh correctly.							
	22. At the end of session the phase 1; student must be able to							
1	demonstrate course of femoral vein in anterior thigh correctly.							
	23. At the end of session the phase 1; student must be able to							
	demonstrate relations of femoral vein in anterior thigh correctly.							
	24. At the end of session the phase 1; student must be able to							
	demonstratetributaries of femoral vein in anterior thigh correctly.							
	25. At the end of session the phase 1; student must be able to describe							
	origin of great saphneous vein in anterior thigh correctly.							
	26. At the end of session the phase 1; student must be able to describe							
	course of great saphneous vein in anterior thigh correctly.							
	27. At the end of session the phase 1; student must be able to describe							
	relations of great saphneous vein in anterior thigh correctly.							
	28. At the end of session the phase 1; student must be able to describe							
	tributaries of great saphneous vein in anterior thigh correctly.							
	29. At the end of session the phase 1; student must be able to							
	demonstrate origin of great saphneous vein in anterior thigh correctly.							
	30. At the end of session the phase 1; student must be able to							
	demonstrate course of great saphneous vein in anterior thigh correctly.							
	31. At the end of session the phase 1; student must be able to							
	demonstrate relations of great saphneous vein in anterior thigh correctly.							
	32. At the end of session the phase 1; student must be able to							
	demonstratetributaries of great saphneous vein in anterior thigh correctly.							
AN15.2	Describe and demonstrate major muscles with their attachment, nerve	K/S	SH	Υ	Practical,	Written/ Viva voce/		
	supply and actions				Lecture, Small group	skill assessment		
	1. At the end of session the phase 1; student must be able to describe				discussion, DOAP			
	attachments of major muscles of anterior thigh correctly.				session			
	2. At the end of session the phase 1; student must be able to							
	demonstrateattachments of major muscles of anterior thigh correctly.							
	3. At the end of session the phase 1; student must be able to describe			l				

Number	nerve supplies of major muscles of anterior thigh correctly. 4. At the end of session the phase 1; student must be able to demonstratenerve supplies of major muscles of anterior thigh correctly. 5. At the end of session the phase 1; student must be able to describe actions of major muscles of anterior thigh correctly. 6. At the end of session the phase 1; student must be able to demonstrate actions of major muscles of anterior thigh correctly. COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
AN15.3	Describe and demonstrate boundaries, floor, roof and contents of femoral triangle 1. At the end of session the phase 1; student must be able to describe boundaries of femoral triangle correctly. 2. At the end of session the phase 1; student must be able to describe floor of femoral triangle correctly. 3. At the end of session the phase 1; student must be able to describe roof of femoral triangle correctly. 4. At the end of session the phase 1; student must be able to describe contents of femoral triangle correctly. 5. At the end of session the phase 1; student must be able to demonstrate boundaries of femoral triangle correctly. 6. At the end of session the phase 1; student must be able to demonstratefloor of femoral triangle correctly. 7. At the end of session the phase 1; student must be able to demonstrateroof of femoral triangle correctly. 8. At the end of session the phase 1; student must be able to demonstrateroof of femoral triangle correctly. 8. At the end of session the phase 1; student must be able to demonstratecontents of femoral triangle correctly.	K/S	SH	Y	·	Written/ Viva voce/ skill assessment		General Surgery	
AN15.4	Explain anatomical basis of Psoas abscess & Femoral hernia 1. At the end of session the phase 1; student should be able to describe psoas muscles correctly. 2. At the end of session the phase 1; student should be able to explain anatomical basis of psoas abscess correctly. 3. At the end of session the phase 1; student should be able to describe femoral hernia correctly. 4. At the end of session the phase 1; student should be able to Explain anatomical basis of femoral hernia correctly.	К	KH	N		Written/ Viva voce		General Surgery	
AN15.5	Describe and demonstrate adductor canal with its content 1. At the end of session the phase 1; student must be able to describe boundaries of adductor canal correctly. 2. At the end of session the phase 1; student must be able to describe floor of adductor canal correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			

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	3. At the end of session the phase 1; student must be able to describe roof							
	of adductor canal correctly.							
	4. At the end of session the phase 1; student must be able to describe							
	contents of adductor canal correctly.							
	5. At the end of session the phase 1; student must be able to demonstrate							
	boundaries of adductor canal correctly.							
	6. At the end of session the phase 1; student must be able to							
	demonstratefloor of adductor canal correctly.							
	7. At the end of session the phase 1; student must be able to							
	demonstrateroof of adductor canal correctly.							
	8. At the end of session the phase 1; student must be able to							
	demonstratecontents of adductor canal correctly.							
Topic: G	luteal region & backofthigh Number	ofcompete	encies:(6)		Number of	procedures for certific	ation:(NIL)	
AN16.1	Describe and demonstrate origin, course, relations, branches (or	K/S	SH	Υ	Practical,	Written/ Viva voce/	T T	
	tributaries), termination of important nerves and vessels of gluteal	-			Lecture, Small group	skill assessment		
	region				discussion, DOAP			
	1. At the end of session the phase 1; student must be able to describe				session			
	origin of superior gluteal nerve in gluteal region correctly.							
	2. At the end of session the phase 1; student must be able to describe							
	course of superior gluteal nerve in gluteal region correctly.							
	3. At the end of session the phase 1; student must be able to describe							
	relations of superior gluteal nerve in gluteal region correctly.							
	4. At the end of session the phase 1; student must be able to describe							
	branches of superior gluteal nerve in gluteal region correctly.							
	5. At the end of session the phase 1; student must be able to demonstrate							
	origin of superior gluteal nerve in gluteal region correctly.							
	6. At the end of session the phase 1; student must be able to							
	demonstratecourse of superior gluteal nerve in gluteal region correctly.							
	7. At the end of session the phase 1; student must be able to							
	demonstraterelations of superior gluteal nerve in gluteal region correctly.							
	8. At the end of session the phase 1; student must be able to							
	demonstratebranches of superior gluteal nerve in gluteal region correctly.							
	9. At the end of session the phase 1; student must be able to describe							
	origin of inferior gluteal nerve in gluteal region correctly.							
	10. At the end of session the phase 1; student must be able to describe							
	course of inferior gluteal nerve in gluteal region correctly.							
	11. At the end of session the phase 1; student must be able to describe							
	relations of inferior gluteal nerve in gluteal region correctly.							
	12. At the end of session the phase 1; student must be able to describe							
	branches of inferior gluteal nerve in gluteal region correctly.							
	13. At the end of session the phase 1; student must be able to							

demonstrate origin of inferior gluteal nerve in gluteal region correctly.				
14. At the end of session the phase 1; student must be able to				
demonstratecourse of inferior gluteal nerve in gluteal region correctly.				
15. At the end of session the phase 1; student must be able to				
demonstraterelations of inferior gluteal nerve in gluteal region correctly.				
16. At the end of session the phase 1; student must be able to				
demonstratebranches of inferior gluteal nerve in gluteal region correctly.				
17. At the end of session the phase 1; student must be able to describe				
origin of sciatic nerve in gluteal region correctly.				
18. At the end of session the phase 1; student must be able to describe				
course of sciatic nerve in gluteal region correctly.				
19. At the end of session the phase 1; student must be able to describe				
relations of sciatic nerve in gluteal region correctly.				
20. At the end of session the phase 1; student must be able to describe				
branches of sciatic nerve in gluteal region correctly.				
21. At the end of session the phase 1; student must be able to				
demonstrate origin of sciatic nerve in gluteal region correctly.				
22. At the end of session the phase 1; student must be able to				
demonstratecourse of sciatic nerve in gluteal region correctly.				
23. At the end of session the phase 1; student must be able to				
demonstraterelations of sciatic nerve in gluteal region correctly.				
24. At the end of session the phase 1; student must be able to				
demonstratebranches of sciatic nerve in gluteal region correctly.				
25. At the end of session the phase 1; student must be able to describe				
origin of superior gluteal artery ingluteal region correctly.				
26. At the end of session the phase 1; student must be able to describe				
course of superior gluteal artery ingluteal region correctly.				
27. At the end of session the phase 1; student must be able to describe				
relations of superior gluteal artery ingluteal region correctly.				
28. At the end of session the phase 1; student must be able to describe				
branches of superior gluteal artery ingluteal region correctly.				
29. At the end of session the phase 1; student must be able to				
demonstrate origin of superior gluteal artery ingluteal region correctly.				
30. At the end of session the phase 1; student must be able to				
demonstratecourse of superior gluteal artery ingluteal region correctly.				
31. At the end of session the phase 1; student must be able to				
demonstraterelations of superior gluteal artery ingluteal region correctly.				
32. At the end of session the phase 1; student must be able to				
demonstratebranches of superior gluteal artery ingluteal region correctly.				
33. At the end of session the phase 1; student must be able to describe				
origin of inferior gluteal artery ingluteal region correctly.				
34. At the end of session the phase 1; student must be able to describe				
course of inferior gluteal artery ingluteal region correctly.				

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	35. At the end of session the phase 1; student must be able to describe							
	relations of inferior gluteal artery ingluteal region correctly.							
	36. At the end of session the phase 1; student must be able to describe							
	branches of inferior gluteal artery ingluteal region correctly.							
	37. At the end of session the phase 1; student must be able to							
	demonstrate origin of inferior gluteal artery ingluteal region correctly.							
	38. At the end of session the phase 1; student must be able to							
	demonstratecourse of inferior gluteal artery ingluteal region correctly.							
	39. At the end of session the phase 1; student must be able to							
	demonstraterelations of inferior gluteal artery ingluteal region correctly.							
	40. At the end of session the phase 1; student must be able to							
	demonstratebranches of inferior gluteal artery ingluteal region correctly.							
AN16.2	Describe anatomical basis of sciatic nerve injury during gluteal	K	KH	Y	Lecture, DOAP session	Written/ Viva voce	General Surgery	
	intramuscular injections							
	1. At the end of session the phase 1; student must be able to describe							
	sciatic nerve in gluteal region correctly.							
	2. At the end of session the phase 1; student must be able to discuss							
	anatomical basis of sciatic nerve injury during gluteal intramuscular							
	injections correctly.							
AN16.3	Explain the anatomical basis of Trendelenburg sign	K	KH	Y	Lecture, DOAP session	Written/ Viva voce	General Surgery	
	1. At the end of session the phase 1; student must be able to describe							
	actions of gluteal muscles correctly. 2. At the end of session the phase 1; student must be able to describe							
	Trendelenburg sign correctly.							
	3. At the end of session the phase 1; student must be able to discuss							
	anatomical basis of Trendelenburg sign correctly.							
AN16.4	Describe and demonstrate the hamstrings group of muscles with their	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/		
	attachment, nerve supply and actions				group discussion, DOAP	skill assessment		
	1. At the end of session the phase 1; student must be able to describe				session			
	attachments of hamstrings group of muscles correctly.							
	2. At the end of session the phase 1; student must be able to describe							
	nerve supply of hamstrings group of muscles correctly.							
	3. At the end of session the phase 1; student must be able to describe							
	actions of hamstrings group of muscles correctly.							
	4. At the end of session the phase 1; student must be able to demonstrate							
	attachments of hamstrings group of muscles correctly.							
	5. At the end of session the phase 1; student must be able to demonstrate							
	nerve supply of hamstrings group of muscles correctly. 6. At the end of session the phase 1; student must be able to demonstrate							
	actions of hamstrings group of muscles correctly.							
AN16.5	Describe and demonstrate the origin, course, relations, branches (or	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/		
7.1110.0	tributaries), termination of important nerves and vessels on the back	100	511	'	group discussion, DOAP	skill assessment		
	of thigh				session	On a cooperation		
	At the end of session the phase 1; student must be able to describe				00001011			
	origin of Sciatic nerve in back of thigh correctly.							
	origin or ociate herve in back or triigh correctly.							

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2. At the end of session the phase 1; student must be able to describe									
course of Sciatic nerve in back of thigh correctly.									
3. At the end of session the phase 1; student must be able to describe									
relations of Sciatic nerve in back of thigh correctly.									
4. At the end of session the phase 1; student must be able to describe									
branches of Sciatic nerve in back of thigh correctly.									
5. At the end of session the phase 1; student must be able to									
demonstrateorigin of Sciatic nerve in back of thigh correctly.									
6. At the end of session the phase 1; student must be able to									
demonstratecourse of Sciatic nerve in back of thigh correctly.									
7. At the end of session the phase 1; student must be able to									
demonstraterelations of Sciatic nerve in back of thigh correctly.									
8. At the end of session the phase 1; student must be able to									
demonstratebranches of Sciatic nerve in back of thigh correctly.									
9. At the end of session the phase 1; student must be able to describe									
origin of profunda femoris artery in back of thigh correctly.									
10. At the end of session the phase 1; student must be able to describe									
course of profunda femoris artery in back of thigh correctly.									
11. At the end of session the phase 1; student must be able to describe									
relations of profunda femoris artery in back of thigh correctly.									
12. At the end of session the phase 1; student must be able to describe									
branches of profunda femoris artery in back of thigh correctly.									
13. At the end of session the phase 1; student must be able to									
demonstrate origin of profunda femoris artery in back of thigh correctly.									
14. At the end of session the phase 1; student must be able to									
demonstratecourse of profunda femoris artery in back of thigh correctly.									
15. At the end of session the phase 1; student must be able to									
demonstraterelations of profunda femoris artery in back of thigh correctly.									
16. At the end of session the phase 1; student must be able to									
demonstratebranches of profunda femoris artery in back of thigh correctly.									
Describe and demonstrate the boundaries, roof, floor, contents and	K/S	SH	Υ	Practical,	Written/ Viva voce/				
relations of popliteal fossa				Lecture, Small group	skill assessment				
1. At the end of session the phase 1; student must be able to describe				discussion, DOAP					
boundaries of popliteal fossa correctly.				session					
2. At the end of session the phase 1; student must be able to describe floor									
of popliteal fossa correctly.									
3. At the end of session the phase 1; student must be able to describe roof									
of popliteal fossa correctly.									
4. At the end of session the phase 1; student must be able to describe									
contents of popliteal fossa correctly.									
5. At the end of session the phase 1; student must be able to describe									
relations of popliteal fossa correctly.									
6. At the end of session the phase 1; student must be able to demonstrate									

	boundaries of popliteal fossa correctly.								
	7. At the end of session the phase 1; student must be able to								
	demonstratefloor of popliteal fossa correctly.								
	8. At the end of session the phase 1; student must be able to								
	demonstrateroof of popliteal fossa correctly.								
	9. At the end of session the phase 1; student must be able to								
	demonstratecontents of popliteal fossa correctly.								
	10. At the end of session the phase 1; student must be able to								
	demonstraterelations of popliteal fossa correctly.								
	definitional deficients of populations deficiently.					<u> </u>			
Topic:Hip	pJoint Number of	ofcompete	ncies:(3)		Number of pr	ocedures for certifica	ation:(NIL)		
Number	COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
	The student should be able to	K/S/A/C	K/KH/	(Y/N)	Methods	Methods	required	Integration	Integration
		1 2 2 2 2 2	SH/P	(,			to certify	1 -	g.u
A N 1 4 7 4		14/0	011	\		100	P		
AN17.1	Describe and demonstrate the type, articular surfaces, capsule,	K/S	SH	Y		Written/ Viva voce/			
	synovial membrane, ligaments, relations, movements and muscles				group discussion, DOAP	skill assessment			
	involved, blood and nerve supply, bursae around the hip joint				session				
	1. At the end of session the phase 1; student must be able to describe type								
	of hip joint correctly.								
	2. At the end of session the phase 1; student must be able to describe articular surfaces of hip joint correctly.								
	3. At the end of session the phase 1; student must be able to describe								
	capsule of hip joint correctly.								
	4. At the end of session the phase 1; student must be able to describe								
	synovial membrane of hip joint correctly.								
	5. At the end of session the phase 1; student must be able to describe								
	ligaments of hip joint correctly.								
	6. At the end of session the phase 1; student must be able to describe								
	relations of hip joint correctly.								
	7. At the end of session the phase 1; student must be able to describe								
	movements of hip joint correctly.								
	8. At the end of session the phase 1; student must be able to describe								
	muscles involved in movements of hip joint correctly.								
	9. At the end of session the phase 1; student must be able to describe								
	blood supply of hip joint correctly.								
	10. At the end of session the phase 1; student must be able to describe								
	nerve supply of hip joint correctly. 11. At the end of session the phase 1; student must be able to describe			1					
	bursae around the hip joint correctly.								
	12. At the end of session the phase 1; student must be able to demonstrate			1					
	type of hip joint correctly.								
	13. At the end of session the phase 1; student must be able to demonstrate			1					
	articular surfaces of hip joint correctly.								
	artionial outlaces of hip joint correctly.	<u> </u>	l .	1	1	L		ĺ	

	14. At the end of session the phase 1; student must be able to demonstrate				T	Г	1		
	capsule of hip joint correctly.								
	15. At the end of session the phase 1; student must be able to demonstrate								
	synovial membrane of hip joint correctly.								
	16. At the end of session the phase 1; student must be able to demonstrate								
	ligaments of hip joint correctly.								
	17. At the end of session the phase 1; student must be able to demonstrate								
	relations of hip joint correctly.								
	18. At the end of session the phase 1; student must be able to demonstrate								
	movements of hip joint correctly.								
	19. At the end of session the phase 1; student must be able to demonstrate								
	muscles involved in movements of hip joint correctly.								
	20. At the end of session the phase 1; student must be able to demonstrate								
	blood supply of hip joint correctly.								
	21. At the end of session the phase 1; student must be able to demonstrate								
	nerve supply of hip joint correctly.								
	22. At the end of session the phase 1; student must be able to demonstrate								
	bursae around the hip joint correctly.								
AN17.2	Describe anatomical basis of complications of fracture neck of femur	K	KH	N	Lecture	Written/ Viva voce		Orthopedics	
	1. At the end of session the phase 1; student should be able to describe								
	complications of fracture neck of femur correctly.								
	2. At the end of session the phase 1; student should be able to discuss								
11170	anatomical basis of complications of fracture neck of femur correctly.	1.6	1711			12.5		0 " "	
AN17.3	Describe dislocation of hip joint and surgical hip replacement	K	KH	N	Lecture	Written/ Viva voce		Orthopedics	
	1. At the end of session the phase 1; student should be able to describe								
	dislocation of hip joint correctly. 2. At the end of session the phase 1; student should be able to describe								
	surgical hip replacement correctly.								
	3. At the end of session the phase 1; student should be able to discuss								
	dislocation of hip joint correctly. 4. At the end of session the phase 1; student should be able to discuss								
	surgical hip replacement correctly.								
	Surgical hip replacement correctly.								
Tonic: Kn	ee joint, Anterior compartment of leg & dorsumoffoot Numb	er ofcomne	etencies:(7)		Number of	f procedures for certific	ration:/NII	١	
Topic. Itil	rumb	ci olooliipi	oterioles.(1)	1	Namber 6	procedures for certain	Jacion. (IVIL)	,	
AN18.1	Describe and demonstrate major muscles of anterior compartment of	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/			
,	leg with their attachment, nerve supply and actions	.,,	5.,			skill assessment			
	1. At the end of session the phase 1; student must be able to describe				session	Jim dosessinent			
	attachments of muscles of anterior compartment of leg correctly.				20221011				
	2. At the end of session the phase 1; student must be able to describe								
	nerve supply of muscles of anterior compartment of leg correctly.								
	3. At the end of session the phase 1; student must be able to describe								
	actions of muscles of anterior compartment of leg correctly.								
	4. At the end of session the phase 1; student must be able to demonstrate								
	attachments of muscles of anterior compartment of leg correctly.								
	5. At the end of session the phase 1; student must be able to demonstrate								
	10.71 the cha of session the phase 1, stadent must be able to demonstrate								

	nerve supply of muscles of anterior compartment of leg correctly. 6. At the end of session the phase 1; student must be able to demonstrate actions of muscles of anterior compartment of leg correctly.							
AN18.2	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior compartment of leg 1. At the end of session the phase 1; student must be able to describe origin of Deep peroneal nerve in anterior compartment of leg correctly. 2. At the end of session the phase 1; student must be able to describe course of Deep peroneal nerve in anterior compartment of leg correctly. 3. At the end of session the phase 1; student must be able to describe relations of Deep peroneal nerve in anterior compartment of leg correctly. 4. At the end of session the phase 1; student must be able to describe branches of Deep peroneal nerve in anterior compartment of leg correctly. 5. At the end of session the phase 1; student must be able to demonstrate origin of Deep peroneal nerve in anterior compartment of leg correctly. 6. At the end of session the phase 1; student must be able to demonstratecourse of Deep peroneal nerve in anterior compartment of leg correctly. 7. At the end of session the phase 1; student must be able to demonstraterelations of Deep peroneal nerve in anterior compartment of leg correctly. 8. At the end of session the phase 1; student must be able to demonstratebranches of Deep peroneal nerve in anterior compartment of leg correctly. 9. At the end of session the phase 1; student must be able to describe origin of anterior tibial artery in anterior compartment of leg correctly. 10. At the end of session the phase 1; student must be able to describe origin of anterior tibial artery in anterior compartment of leg correctly. 12. At the end of session the phase 1; student must be able to describe relations of anterior tibial artery in anterior compartment of leg correctly. 13. At the end of session the phase 1; student must be able to describe branches of anterior tibial artery in anterior compartment of leg correctly. 14. At the end of session the phase 1; student must be able to demonstrate origin of anterior tibial artery in anterior comp	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		

ANIAO	leg correctly. 16. At the end of session the phase 1; student must be able to demonstratebranches of anterior tibial artery in anterior compartment of leg correctly.	I/		V	Leature DOAD annier	Mciu. (No.		
AN18.3	Explain the anatomical basis of foot drop 1. At the end of session the phase 1; student must be able to describe common peroneal nerve correctly. 2. At the end of session the phase 1; student must be able to discuss anatomical basis of foot drop correctly.	K	KH	Y	·	Written/ Viva voce	General Surgery	
AN18.4	Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply, bursae around the knee joint 1. At the end of session the phase 1; student must be able to describe type of knee joint correctly. 2. At the end of session the phase 1; student must be able to describe articular surfaces of knee joint correctly. 3. At the end of session the phase 1; student must be able to describe capsule of knee joint correctly. 4. At the end of session the phase 1; student must be able to describe synovial membrane of knee joint correctly. 5. At the end of session the phase 1; student must be able to describe ligaments of knee joint correctly. 6. At the end of session the phase 1; student must be able to describe relations of knee joint correctly. 7. At the end of session the phase 1; student must be able to describe movements of knee joint correctly. 8. At the end of session the phase 1; student must be able to describe muscles involved in movements of knee joint correctly. 9. At the end of session the phase 1; student must be able to describe blood supply of knee joint correctly. 10. At the end of session the phase 1; student must be able to describe nerve supply of knee joint correctly. 11. At the end of session the phase 1; student must be able to describe bursae around the knee joint correctly. 12. At the end of session the phase 1; student must be able to demonstrate type of knee joint correctly. 13. At the end of session the phase 1; student must be able to demonstrate articular surfaces of knee joint correctly. 14. At the end of session the phase 1; student must be able to demonstrate articular surfaces of knee joint correctly. 15. At the end of session the phase 1; student must be able to demonstrate articular surfaces of knee joint correctly. 16. At the end of session the phase 1; student must be able to demonstrate capsule of knee joint correctly. 17. At the end of session the phase 1; student must be able t	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
Topic: Ba		ofcompete	ncies:(7)			rocedures for certifica	tion:(NIL)		
AN18.7	Explain anatomical basis of Osteoarthritis 1. At the end of session the phase 1; student should be able to describe osteoarthritis correctly. 2. At the end of session the phase 1; student should be able to Explain anatomical basis of Osteoarthritiscorrectly.	К	KH	N	Lecture	Written/ Viva voce		Orthopedics	
	 At the end of session the phase 1; student should be able to describe knee joint injuries correctly. At the end of session the phase 1; student should be able to describe applied anatomy of knee joint injuries correctly. At the end of session the phase 1; student should be able to discussknee joint injuries correctly. At the end of session the phase 1; student should be able to discussapplied anatomy of knee joint injuries correctly. 			N				Orthopedics	
AN18.5	bursae around the knee joint correctly. Explain the anatomical basis of locking and unlocking of the knee joint 1. At the end of session the phase 1; student must be able to describe locking of the knee joint correctly. 2. At the end of session the phase 1; student must be able to describe unlocking of the knee joint correctly. 3. At the end of session the phase 1; student must be able to Explain the anatomical basis of locking of the knee joint correctly. 4. At the end of session the phase 1; student must be able to Explain the anatomical basis of unlocking of the knee joint correctly. Describe knee joint injuries with its applied anatomy	K	KH	Y	Small group teaching Lecture	Written/ Viva voce Written/ Viva voce		Orthopodias	
	relations of knee joint correctly. 18. At the end of session the phase 1; student must be able to demonstrate movements of knee joint correctly. 19. At the end of session the phase 1; student must be able to demonstrate muscles involved in movements of knee joint correctly. 20. At the end of session the phase 1; student must be able to demonstrate blood supply of knee joint correctly. 21. At the end of session the phase 1; student must be able to demonstrate nerve supply of knee joint correctly. 22. At the end of session the phase 1; student must be able to demonstrate								

AN19.1	Describe and demonstrate the major muscles of back of leg with their attachment, nerve supply and actions 1. At the end of session the phase 1; student must be able to describe attachments of muscles of back of leg correctly. 2. At the end of session the phase 1; student must be able to describe nerve supply of muscles of back of leg correctly. 3. At the end of session the phase 1; student must be able to describe actions of muscles of back of leg correctly. 4. At the end of session the phase 1; student must be able to demonstrate attachments of muscles of back of leg correctly. 5. At the end of session the phase 1; student must be able to demonstrate nerve supply of muscles of back of leg correctly. 6. At the end of session the phase 1; student must be able to demonstrate actions of muscles of back of leg correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment
AN19.2	Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of leg 1. At the end of session the phase 1; student must be able to describe origin of Tibial nerve in back of leg correctly. 2. At the end of session the phase 1; student must be able to describe course of Tibial nerve in back of leg correctly. 3. At the end of session the phase 1; student must be able to describe relations of Tibial nerve in back of leg correctly. 4. At the end of session the phase 1; student must be able to describe branches of Tibial nerve in back of leg correctly. 5. At the end of session the phase 1; student must be able to demonstrate origin of Tibial nerve in back of leg correctly. 6. At the end of session the phase 1; student must be able to demonstratecourse of Tibial nerve in back of leg correctly. 7. At the end of session the phase 1; student must be able to demonstraterelations of Tibial nerve in back of leg correctly. 8. At the end of session the phase 1; student must be able to demonstratebranches of Tibial nerve in back of leg correctly. 9. At the end of session the phase 1; student must be able to describe origin of posterior tibial artery inback of leg correctly. 10. At the end of session the phase 1; student must be able to describe relations of posterior tibial artery inback of leg correctly. 11. At the end of session the phase 1; student must be able to describe relations of posterior tibial artery inback of leg correctly. 12. At the end of session the phase 1; student must be able to describe branches of posterior tibial artery inback of leg correctly. 13. At the end of session the phase 1; student must be able to describe branches of posterior tibial artery inback of leg correctly. 14. At the end of session the phase 1; student must be able to demonstrate origin of posterior tibial artery inback of leg correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/skill assessment

de	emonstratecourse of posterior tibial artery inback of leg correctly.				
	5. At the end of session the phase 1; student must be able to				
de	emonstraterelations of posterior tibial artery inback of leg correctly.				
10	6. At the end of session the phase 1; student must be able to				
de	emonstratebranches of posterior tibial artery inback of leg correctly.				
1	7. At the end of session the phase 1; student must be able to describe				
OI	rigin of peroneal artery inback of leg correctly.				
18	8. At the end of session the phase 1; student must be able to describe				
C	ourse of peroneal artery inback of leg correctly.				
19	9. At the end of session the phase 1; student must be able to describe				
re	elations of peroneal artery inback of leg correctly.				
20	0. At the end of session the phase 1; student must be able to describe				
bı	ranches of peroneal artery inback of leg correctly.				
	1. At the end of session the phase 1; student must be able to				
	emonstrate origin of peroneal artery inback of leg correctly.				
2:	2. At the end of session the phase 1; student must be able to				
	emonstratecourse of peroneal artery inback of leg correctly.				
23	3. At the end of session the phase 1; student must be able to				
	emonstraterelations of peroneal artery inback of leg correctly.				
	4. At the end of session the phase 1; student must be able to				
	emonstratebranches of peroneal artery inback of leg correctly.				
	5. At the end of session the phase 1; student must be able to describe				
	rigin of small saphneous vein in back of leg correctly.				
	6. At the end of session the phase 1; student must be able to describe				
	ourse of small saphneous vein in back of leg correctly.				
	7. At the end of session the phase 1; student must be able to describe				
	elations of small saphneous vein in back of leg correctly.				
	8. At the end of session the phase 1; student must be able to describe				
	ranches of small saphneous vein in back of leg correctly.				
	9. At the end of session the phase 1; student must be able to				
	emonstrate origin of small saphneous vein in back of leg correctly.				
	0. At the end of session the phase 1; student must be able to				
	emonstratecourse of small saphneous vein in back of leg correctly.				
	1. At the end of session the phase 1; student must be able to				
	emonstraterelations of small saphneous vein in back of leg correctly.				
	2. At the end of session the phase 1; student must be able to				
	emonstratebranches of small saphneous vein in back of leg correctly.				
	3. At the end of session the phase 1; student must be able to describe				
	rigin of great saphneous vein in back of leg correctly.				
	4. At the end of session the phase 1; student must be able to describe				
	ourse of great saphneous vein in back of leg correctly.				
	5. At the end of session the phase 1; student must be able to describe				
re	elations of great saphneous vein in back of leg correctly.				

	36. At the end of session the phase 1; student must be able to describe							
	branches of great saphneous vein in back of leg correctly.							
	37. At the end of session the phase 1; student must be able to							
	demonstrate origin of great saphneous vein in back of leg correctly.							
	38. At the end of session the phase 1; student must be able to							
	demonstratecourse of great saphneous vein in back of leg correctly.							
	39. At the end of session the phase 1; student must be able to							
	demonstraterelations of great saphneous vein in back of leg correctly.							
	40. At the end of session the phase 1; student must be able to							
	demonstratebranches of great saphneous vein in back of leg correctly.							
AN19.3	Explain the concept of "Peripheral heart"	K	KH	Υ	Lecture	Written/ Viva voce	General Surgery	
	1. At the end of session the phase 1; student must be able to describe	.,			200100	111111111111111111111111111111111111111	Constant cangery	
	soleus muscle correctly.							
	2. At the end of session the phase 1; student must be able to describe							
	venous drainage of lower limb correctly.							
	3. At the end of session the phase 1; student must be able to Explain the							
	concept of "Peripheral heart" correctly.							
AN19.4	Explain the anatomical basis of rupture of calcaneal tendon	K	KH	N	Lecture	Written/ Viva voce	Orthopedics	
	1. At the end of session the phase 1; student should be able to describe							
	tendocalcaneous correctly.							
	2. At the end of session the phase 1; student should be able to Explain the							
41140.5	anatomical basis of rupture of calcaneal tendon correctly.	17	171.1			124 14 126		
AN19.5	Describe factors maintaining importance arches of the foot with its	K	KH	Y	Lecture	Written/ Viva voce		
	importance							
	1. At the end of session the phase 1; student must be able to describe							
	factors maintaining arches of foot correctly.							
	2. At the end of session the phase 1; student must be able to describe							
	importance of arches of the foot correctly.							
AN19.6	Explain the anatomical basis of Flat foot & Club foot	K	KH	N	Lecture	Written/ Viva voce	Orthopedics	
	1. At the end of session the phase 1; student should be able to describe flat							
	foot correctly.							
	2. At the end of session the phase 1; student should be able to describe club foot correctly.							
	3. At the end of session the phase 1; student should be able to Explain the							
	anatomical basis of Flat foot correctly.							
	4. At the end of session the phase 1; student should be able to Explain the							
	anatomical basis of Club foot correctly.							
AN19.7	Explain the anatomical basis of Metatarsalgia & Plantar fasciitis	K	KH	N	Lecture	Written/ Viva voce	Orthopedics	
	1. At the end of session the phase 1; student should be able to describe	.,				111111111111111111111111111111111111111	355236	
	Metatarsalgia correctly.							
	2. At the end of session the phase 1; student should be able to describe							
	Plantar fascia correctly.							
	3. At the end of session the phase 1; student should be able to describe							
	Plantar fasciitis correctly.							
i	4. At the end of session the phase 1; student should be able to Explain the			1	1	i l		

	anatomical basis of Metatarsalgia correctly. 5. At the end of session the phase 1; student should be able to Explain the anatomical basis of Plantar fasciitis correctly.								
Topic: G	eneral Features, Joints, radiographs &surfacemarking Numb	er ofcomp	etencies:(1	0)	Number o	f procedures for certi	fication:(NIL	.)	
AN20.1	Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply of tibiofibular and ankle joint 1. At the end of session the phase 1; student must be able to describe type of tibiofibular joint correctly. 2. At the end of session the phase 1; student must be able to describe articular surfaces of tibiofibular joint correctly. 3. At the end of session the phase 1; student must be able to describe capsule of tibiofibular joint correctly. 4. At the end of session the phase 1; student must be able to describe synovial membrane of tibiofibular joint correctly. 5. At the end of session the phase 1; student must be able to describe ligaments of tibiofibular joint correctly. 6. At the end of session the phase 1; student must be able to describe relations of tibiofibular joint correctly. 7. At the end of session the phase 1; student must be able to describe movements of tibiofibular joint correctly. 8. At the end of session the phase 1; student must be able to describe muscles involved in movements of tibiofibular joint correctly. 9. At the end of session the phase 1; student must be able to describe blood supply of tibiofibular joint correctly. 10. At the end of session the phase 1; student must be able to describe nerve supply of tibiofibular joint correctly. 11. At the end of session the phase 1; student must be able to demonstrate type of tibiofibular joint correctly. 12. At the end of session the phase 1; student must be able to demonstrate articular surfaces of tibiofibular joint correctly. 13. At the end of session the phase 1; student must be able to demonstrate articular surfaces of tibiofibular joint correctly. 14. At the end of session the phase 1; student must be able to demonstrate capsule of tibiofibular joint correctly. 15. At the end of session the phase 1; student must be able to demonstrate synovial membrane of tibiofibular joint correctly. 16. At the end of session the phase 1; student must	K/S	SH	0) Y	Practical, Lecture, Small	Written/ Viva voce/ skill assessment	fication:(NIL		
	relations of tibiofibular joint correctly. 17. At the end of session the phase 1; student must be able to demonstrate movements of tibiofibular joint correctly. 18. At the end of session the phase 1; student must be able to demonstrate muscles involved in movements of tibiofibular joint correctly. 19. At the end of session the phase 1; student must be able to demonstrate								

	blood supply of tibiofibular joint correctly.							
	20. At the end of session the phase 1; student must be able to demonstrate							
	nerve supply of tibiofibular joint correctly.							
	21. At the end of session the phase 1; student must be able to describe							
	type of ankle joint correctly.							
	22. At the end of session the phase 1; student must be able to describe							
	articular surfaces of ankle joint correctly.							
	23. At the end of session the phase 1; student must be able to describe							
	capsule of ankle joint correctly.							
	24. At the end of session the phase 1; student must be able to describe							
	synovial membrane of ankle joint correctly.							
	25. At the end of session the phase 1; student must be able to describe							
	ligaments of ankle joint correctly.							
	26. At the end of session the phase 1; student must be able to describe							
	relations of ankle joint correctly.							
1	27. At the end of session the phase 1; student must be able to describe							
1	movements of ankle joint correctly.							
	28. At the end of session the phase 1; student must be able to describe							
	muscles involved in movements of ankle joint correctly.							
	29. At the end of session the phase 1; student must be able to describe							
	blood supply of ankle joint correctly.							
	30. At the end of session the phase 1; student must be able to describe							
	nerve supply of ankle joint correctly.							
	31. At the end of session the phase 1; student must be able to demonstrate							
	type of ankle joint correctly.							
	32. At the end of session the phase 1; student must be able to demonstrate							
	articular surfaces of ankle joint correctly.							
	33. At the end of session the phase 1; student must be able to demonstrate							
	capsule of ankle joint correctly.							
	34. At the end of session the phase 1; student must be able to demonstrate							
	synovial membrane of ankle joint correctly.							
	35. At the end of session the phase 1; student must be able to demonstrate							
	ligaments of ankle joint correctly.							
	36. At the end of session the phase 1; student must be able to demonstrate							
	relations of ankle joint correctly.							
1	37. At the end of session the phase 1; student must be able to demonstrate							
	movements of ankle joint correctly.							
	38. At the end of session the phase 1; student must be able to demonstrate							
	muscles involved in movements of ankle joint correctly.							
	39. At the end of session the phase 1; student must be able to demonstrate							
	blood supply of ankle joint correctly.							
	40. At the end of session the phase 1; student must be able to demonstrate							
	nerve supply of ankle joint correctly.							
AN20.2	Describe the subtalar and transverse tarsal joints	K	KH	N	Lecture, DOAP session	Written/ Viva voce		
	1. At the end of session the phase 1; student should be able to describe							
	subtalar joints correctly.							
	2. At the end of session the phase 1; student should be able to describe							

	transverse tarsal joints correctly. 3. At the end of session the phase 1; student should be able to discuss subtalar joints correctly. 4. At the end of session the phase 1; student should be able to discuss transverse tarsal joints correctly.								
AN20.3	Describe and demonstrate Fascia lata, Venous drainage, Lymphatic drainage, Retinacula & Dermatomes of lower limb 1. At the end of session the phase 1; student must be able to describe Fascia lata correctly. 2. At the end of session the phase 1; student must be able to describe Venous drainage of lower limb correctly. 3. At the end of session the phase 1; student must be able to describe Lymphatic drainage of lower limb correctly. 4. At the end of session the phase 1; student must be able to describe Retinacula of lower limb correctly. 5. At the end of session the phase 1; student must be able to describe Dermatomes of lower limb correctly. 6. At the end of session the phase 1; student must be able to demonstrate Fascia lata correctly. 7. At the end of session the phase 1; student must be able to demonstrate Venous drainage of lower limb correctly. 8. At the end of session the phase 1; student must be able to demonstrate Lymphatic drainage of lower limb correctly. 9. At the end of session the phase 1; student must be able to demonstrate Retinacula of lower limb correctly. 10. At the end of session the phase 1; student must be able to demonstrate Retinacula of lower limb correctly.	K/S	SH	Y	· · · · · · · · · · · · · · · · · · ·	Written/ Viva voce/ skill assessment			
AN20.4	Explain anatomical basis of enlarged inguinal lymph nodes 1. At the end of session the phase 1; student should be able to describe inguinal lymph nodes correctly. 2. At the end of session the phase 1; student should be able to Explain anatomical basis of enlarged inguinal lymph nodes correctly.	К	КН	N	Lecture	Written/ Viva voce		General Surgery	
AN20.5	Explain anatomical basis of varicose veins and deep vein thrombosis 1. At the end of session the phase 1; student must be able to describe varicose veins correctly. 2. At the end of session the phase 1; student must be able to describe deep vein thrombosis correctly. 3. At the end of session the phase 1; student must be able to Explain anatomical basis of varicose veins correctly. 4. At the end of session the phase 1; student must be able to Explain anatomical basis of deep vein thrombosis correctly.	К	КН	Y	Lecture	Written/ Viva voce		General Surgery	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration

AN20.6	Identify the bones and joints of lower limb seen in	K/S	SH	Y	Lecture, Small group	Viva voce/ skill	Radiodiagnosis	
	anteroposteriorand lateral view radiographs of various regions of				discussion, DOAP	assessment		
	lower limb				session			
	1. At the end of session the phase 1; student must be able to describe							
	bones of upper limb in anteroposterior view radiographs of pelvic region							
	correctly.							
	2. At the end of session the phase 1; student must be able to identify bones							
	of upper limb in anteroposterior view radiographs of pelvic region correctly.							
	3. At the end of session the phase 1; student must be able to demonstrate							
	bones of upper limb in anteroposterior view radiographs of pelvic region							
	correctly.							
	4. At the end of session the phase 1; student must be able to describe							
	bones of upper limb in lateral view radiographs of pelvic region correctly.							
	5. At the end of session the phase 1; student must be able to identify bones							
	of upper limb in lateral view radiographs of pelvic region correctly.							
	6. At the end of session the phase 1; student must be able to demonstrate							
	bones of upper limb in lateral view radiographs of pelvic region correctly.							
	7. At the end of session the phase 1; student must be able to describe							
	joints of upper limb in anteroposterior view radiographs of pelvic region							
	correctly.							
	8. At the end of session the phase 1; student must be able to identify joints							
	of upper limb in anteroposterior view radiographs of pelvic region correctly.							
	9. At the end of session the phase 1; student must be able to demonstrate							
	joints of upper limb in anteroposterior view radiographs of pelvic region							
	correctly. 10. At the end of session the phase 1; student must be able to describe							
	joints of upper limb in lateral view radiographs of pelvic region correctly.							
	11. At the end of session the phase 1; student must be able to identify							
	joints of upper limb in lateral view radiographs of pelvic region correctly.							
	12. At the end of session the phase 1; student must be able to demonstrate							
	joints of upper limb in lateral view radiographs of pelvic region correctly.							
	13. At the end of session the phase 1; student must be able to describe							
	bones of upper limb in anteroposterior view radiographs of thigh correctly.							
	14. At the end of session the phase 1; student must be able to identify							
	bones of upper limb in anteroposterior view radiographs of thigh correctly.							
	15. At the end of session the phase 1; student must be able to demonstrate							
	bones of upper limb in anteroposterior view radiographs of thigh correctly.							
	16. At the end of session the phase 1; student must be able to describe							
	bones of upper limb in lateral view radiographs of thigh correctly.							
	17. At the end of session the phase 1; student must be able to identify							
	bones of upper limb in lateral view radiographs of thigh correctly.							
	18. At the end of session the phase 1; student must be able to demonstrate							
	bones of upper limb in lateral view radiographs of thigh correctly.							
	19. At the end of session the phase 1; student must be able to describe							
	joints of upper limb in anteroposterior view radiographs of thigh correctly.							
	20. At the end of session the phase 1; student must be able to identify							
	joints of upper limb in anteroposterior view radiographs of thigh correctly.							

21. At the end of session the phase 1; student must be able to demonstrate			
joints of upper limb in anteroposterior view radiographs of thigh correctly.			
22. At the end of session the phase 1; student must be able to describe			
joints of upper limb in lateral view radiographs of thigh correctly.			
23. At the end of session the phase 1; student must be able to identify			
joints of upper limb in lateral view radiographs of thigh correctly.			
24. At the end of session the phase 1; student must be able to demonstrate			
joints of upper limb in lateral view radiographs of thigh correctly.			
25. At the end of session the phase 1; student must be able to describe			
bones of upper limb in anteroposterior view radiographs of knee correctly.			
26. At the end of session the phase 1; student must be able to identify			
bones of upper limb in anteroposterior view radiographs of knee correctly.			
27. At the end of session the phase 1; student must be able to demonstrate			
bones of upper limb in anteroposterior view radiographs of knee correctly.			
28. At the end of session the phase 1; student must be able to describe			
bones of upper limb in lateral view radiographs of knee correctly.			
29. At the end of session the phase 1; student must be able to identify			
bones of upper limb in lateral view radiographs of knee correctly.			
30. At the end of session the phase 1; student must be able to demonstrate			
bones of upper limb in lateral view radiographs of knee correctly.			
31. At the end of session the phase 1; student must be able to describe			
bones of upper limb in anteroposterior view radiographs of leg correctly.			
32. At the end of session the phase 1; student must be able to identify			
bones of upper limb in anteroposterior view radiographs of leg correctly.			
33. At the end of session the phase 1; student must be able to demonstrate			
bones of upper limb in anteroposterior view radiographs of leg correctly.			
34. At the end of session the phase 1; student must be able to describe			
bones of upper limb in lateral view radiographs of leg correctly.			
35. At the end of session the phase 1; student must be able to identify			
bones of upper limb in lateral view radiographs of leg correctly.			
36. At the end of session the phase 1; student must be able to demonstrate			
bones of upper limb in lateral view radiographs of leg correctly.			
37. At the end of session the phase 1; student must be able to describe			
joints of upper limb in anteroposterior view radiographs of leg correctly.			
38. At the end of session the phase 1; student must be able to identify			
joints of upper limb in anteroposterior view radiographs of leg correctly.			
39. At the end of session the phase 1; student must be able to demonstrate			
joints of upper limb in anteroposterior view radiographs of leg correctly.			
40. At the end of session the phase 1; student must be able to describe			
joints of upper limb in lateral view radiographs of leg correctly.			
41. At the end of session the phase 1; student must be able to identify			
joints of upper limb in lateral view radiographs of leg correctly.			
42. At the end of session the phase 1; student must be able to demonstrate			
joints of upper limb in lateral view radiographs of leg correctly.			
43. At the end of session the phase 1; student must be able to describe			
bones of upper limb in anteroposterior view radiographs of foot correctly.			
44. At the end of session the phase 1; student must be able to identify			

	1			
bones of upper limb in anteroposterior view radiographs of foot correctly.				
45. At the end of session the phase 1; student must be able to demonstrate				
bones of upper limb in anteroposterior view radiographs of foot correctly.				
46. At the end of session the phase 1; student must be able to describe				
bones of upper limb in lateral view radiographs of foot correctly.				
47. At the end of session the phase 1, student must be able to identify				
bones of upper limb in lateral view radiographs of foot correctly.				
48. At the end of session the phase 1; student must be able to demonstrate				
bones of upper limb in lateral view radiographs of foot correctly.				
49. At the end of session the phase 1; student must be able to describe				
joints of upper limb in anteroposterior view radiographs of foot correctly.				
50. At the end of session the phase 1; student must be able to identify				
joints of upper limb in anteroposterior view radiographs of foot correctly.				
51. At the end of session the phase 1, student must be able to demonstrate				
joints of upper limb in anteroposterior view radiographs of foot correctly.				
52. At the end of session the phase 1; student must be able to describe				
joints of upper limb in lateral view radiographs of foot correctly.				
53. At the end of session the phase 1; student must be able to identify				
joints of upper limb in lateral view radiographs of foot correctly.				
54. At the end of session the phase 1; student must be able to demonstrate				
joints of upper limb in lateral view radiographs of foot correctly.				

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Verti cal Integ	Horizont al Integrati
							Р	ratio n	on
AN20.7	Identify & demonstrate important bony landmarks of lower limb: - Vertebral levels of highest point of iliac crest, posterior superior iliac spines, iliac tubercle, pubic tubercle, ischial tuberosity, adductor tubercle, -Tibial tuberosity, head of fibula, -Medial and lateral malleoli, Condyles of femur and tibia, sustentaculum tali, tuberosity of fifth metatarsal, tuberosity of the navicular Learning Objectives: 1. At the end of session phase I student must be able to enumerate bony landmarks of lower limb accurately 2. At the end of session phase I student must be able to describe the vertebral level of highest point of iliac crest accurately. 3. At the end of session phase I student must be able to describe the vertebral level of posterior superior iliac spines accurately. 4. At the end of session phase I student must be able to describe the vertebral level of iliac tubercle accurately. 5. At the end of session phase I student must be able to describe the vertebral level of pubic tubercle accurately. 6. At the end of session phase I student must be able to describe the vertebral level of ischial tuberosity accurately. 7. At the end of session phase I student must be able to describe the vertebral level of fadductor tubercle accurately. 8. At the end of session phase I student must be able to describe the vertebral level of medial and lateral must be able to describe the vertebral level of medial and lateral must be able to describe the vertebral level of medial and lateral malleoli accurately. 10. At the end of session phase I student must be able to describe the vertebral level of medial and lateral malleoli accurately. 11. At the end of session phase I student must be able to describe the vertebral level of condyles of femur accurately. 12. At the end of session phase I student must be able to describe the vertebral level of condyles of tibia accurately. 13. At the end of session phase I student must be able to describe the vertebral level of sustentaculum tali. accurately. 14. At the end of session phase I	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session			1	
	the vertebral level oftuberosity of fifth metatarsal accurately 15. At the end of session phase I student must be able to describe the vertebral level oftuberosity of the navicular accurately. 16. At the end of session phase I student must be able to								

	skeleton correctly.							
	17. At the end of session phase I student must be able to							
	demonstrate the vertebral level of posterior superior iliac spines							
	correctly.							
	18. At the end of session phase I student must be able to							
	demonstrate the vertebral level of iliac tubercle correctly.							
	19. At the end of session phase I student must be able to							
	demonstrate the vertebral level of pubic tubercle correctly.							
	20. At the end of session phase I student must be able to							
	demonstrate the vertebral level of ischial tuberosity correctly.							
	21. At the end of session phase I student must be able to							
	demonstrate the vertebral level of adductor tubercle correctly							
	22. At the end of session phase I student must be able to							
	demonstrate the vertebral level of tibial tuberosity accurately.							
	23. At the end of session phase I student must be able to							
	demonstrate the vertebral level of head of fibula accurately.							
	24. At the end of session phase I student must be able to							
1	demonstrate the vertebral level of medial and lateral malleoli							
	correctly.							
	25. At the end of session phase I student must be able to							
	demonstrate the vertebral level of condyles of femur correctly.							
	26. At the end of session phase I student must be able to							
	demonstrate the vertebral level of condyles of tibia correctly.							
	27. At the end of session phase I student must be able to							
	demonstrate the vertebral level of sustentaculum tali correctly.							
	28. At the end of session phase I student must be able to							
	demonstrate the vertebral level oftuberosity of fifth metatarsal							
	correctly.							
	29. At the end of session phase I student must be able to							
	demonstrate the vertebral level oftuberosity of the navicular							
	correctly.							
	Identify & demonstrate palpation of femoral, popliteal, post tibial,	K/S	SH	Y	Practical, Lecture, Small		Ge	
	anti tibial & dorsalis pedis blood vessels in a simulated				group discussion, DOAP	assessment	ner	
	environment				session		al	
	Learning Objectives:						Ме	
	At the end of session phase I student must be able to elicit						dici	
	the course of femoral artery in simulated environment						ne	
	correctly.							
	At the end of session phase I student must be able to elicit							
1	the course of popliteal artery in simulated environment]						
	· ·							
	correctly.]						
	3. At the end of session phase I student must be able to elicit							
	the course of post. tibial artery in simulated environment							
1	· · · · · · · · · · · · · · · · · · ·							
1	•							
	the course of ant. tibial artery in simulated environment							
	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '							

		correctly				1		1	i	
	_	correctly.								
	5.	At the end of session phase I student must be able to elicit								
		the course of dorsalis pedis artery in simulated environment								
		correctly								
	6.	At the end of session phase I student must be able to								
		demonstrate the palpation of femoral artery in simulated								
		environment accurately.								
	7.	At the end of session phase I student must be able to								
		demonstrate the palpation of popliteal artery in simulated								
		environment accurately.								
	8.	At the end of session phase I student must be able to								
		demonstrate the palpation of post. tibial artery in simulated								
		environment correctly								
	9.	At the end of session phase I student must be able to								
		demonstrate the palpation of ant. tibial artery in simulated								
		environment accurately.								
	10	. At the end of session phase I student must be able to								
		demonstrate the palpation of dorsalis pedis artery in								
		simulated environment accurately.								
AN20.9		Identify & demonstrate Palpation of vessels (femoral,	K/S	SH	Υ	Practical, Lecture, Small			General	
		popliteal,dorsalis pedis,post tibial), Mid inguinal point,				group discussion, DOAP	assessment		Medicine,	
		Surface projection of: femoral nerve, Saphenous				session			General	
		opening, Sciatic, tibial, common peroneal & deep							Surgery	
		peroneal nerve, Great and small saphenous veins								
		Learning Objectives:								
	1.	At the end of session phase I student must be able to elicit								
		the course of femoral artery correctly.								
	2.	At the end of session phase I student must be able to elicit								
		the course of popliteal artery correctly.								
	3.	At the end of session phase I student must be able to elicit								
		the course of post. tibial artery correctly.								
	4.	At the end of session phase I student must be able to elicit								
		the course of dorsalis pedis artery correctly.								
	5.	At the end of session phase I student must be able to describe								
		the surface anatomy of mid inguinal point correctly								
	6.	At the end of session phase I student must be able to describe								
		the surface anatomy of femoral nerve correctly								
1	7.	At the end of session phase I student must be able to describe								
1		the surface anatomy of saphenous opening correctly.								
1	8.	At the end of session phase I student must be able to describe								
1		the surface anatomy of sciatic nerve correctly.								
	9.	At the end of session phase I student must be able to describe								
		the surface anatomy of tibial nerve correctly.								

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	10. At the end of session phase I student must be able to describe							
	the surface anatomy of common peroneal nerve correctly.							
	11. At the end of session phase I student must be able to describe							
	the surface anatomy of great saphenous vein accurately.							
	12. At the end of session phase I student must be able to describe							
	the surface anatomy of small saphenous vein accurately.							
	11. At the end of session phase I student must be able to							
	demonstrate the palpation of femoral artery in simulated							
	environment accurately.							
	,							
	12. At the end of session phase I student must be able to							
	demonstrate the palpation of popliteal artery in simulated							
	environment accurately.							
	13. At the end of session phase I student must be able to							
	demonstrate the palpation of post. tibial artery in simulated							
	environment correctly							
	14. At the end of session phase I student must be able to							
	demonstrate the palpation of ant. tibial artery in simulated							
	environment accurately.							
	13. At the end of session phase I student must be able to							
	demonstrate the palpation of dorsalis pedis artery in simulated							
	environment accurately.							
	14. At the end of session phase I student must be able to							
	demonstrate the mid inguinal point on cadaver correctly							
	15. At the end of session phase I student must be able to							
	demonstrate the course of femoral nerve correctly.							
	16. At the end of session phase I student must be able todemonstrate							
	the position of saphenous opening correctly.							
	17. At the end of session phase I student must be able							
	todemonstrate the course of sciatic nerve on cadaver correctly.							
	•							
	18. At the end of session phase I student must be able todemonstrate							
	the course of tibial nerve on cadaver correctly.							
	19. At the end of session phase I student must be able todemonstrate							
	the course of common peroneal nerve on cadaver correctly.							
	20. At the end of session phase I student must be able to							
	demonstrate thecourse of great saphenous vein on cadaver							
	accurately.							
	21. At the end of session phase I student must be able to							
	demonstrate the course of small saphenous vein on cadaver							
	accurately							
AN20.10	Describe basic concept of development of lower limb	K	KH	N	Lecture	Viva voce]
	Learning Objectives :							
	At the end of session phase Istudent should be able to describe							
	the development of lower limb accurately.							
	2. At the end of session phase I student should be able to describe							

	the developmental anomalies of lower limb accurately.								
Topic: Th	oraciccage Nun	nber ofcom	petencies:(11)	Number	of procedures for ce	rtification:(N	IL)	
AN21.1	Identify and describe the salient features of sternum, typical rib, Ist rib and typical thoracic vertebra	K/S	SH	Y	Lecture, DOAP session	Viva voce/ skill assessment			
	Learning Objectives :								
	At the end of session phase I student must be able to describe the salient features of sternum accurately.	!							
	2. At the end of session phase I student must be able to describe the salient features of typical ribs accurately.	!							
	3. At the end of session phase I student must be able to describe the salient features of 1 st rib accurately.	:							
	4. At the end of session phase I student must be able to describe the salient features of typical thoracic vertebra accurately.								
	5. At the end of session phase I student must be able to determine the side of sternum accurately.								
	6. At the end of session phase I student must be able to determine the side of typical rib accurately.								
	7. At the end of session phase I student must be able to determine the anatomical position of typical thoracic vertebra accurately.								
	8. At the end of session phase I student must be able to determine the anatomical position of sternum accurately.								
	9. At the end of session phase I student must be able to determine the anatomical position of typical rib accurately.								
	10. At the end of session phase I student must be able to determine the anatomical position of 1 st ribaccurately.								
AN21.2	Identify & describe the features of 2 nd , 11 th and 12 th ribs, 1 st , 11 th and 12 th thoracic vertebrae	K/S	SH	N	Lecture, DOAP session	Viva voce/ skill assessment			
	Learning Objectives :								
	1. At the end of session phase I student should be able to describe the								
	salient features of 2 nd rib accurately.								
	2. At the end of session phase I student should be able to describe the salient features of 11 th rib accurately								
	3. At the end of session phase I student should be able to describe the salient features of 12 th rib accurately.								
	4. At the end of session phase I student should be able to describe the salient features of 1 st thoracic vertebra accurately.								
	5. At the end of session phase I student should be able to describe the salient features of 11 th thoracic vertebra accurately.								

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	6. At the end of session phase I student should be able to describe the							
	salient features of 12 th thoracic vertebra accurately.							
	7. At the end of session phase I student shouldbe able to determine							
	the anatomical position of 2 nd rib accurately.							
	2. At the end of session phase I student should be able to determine							
	the anatomical position of 11 th rib accurately							
	3. At the end of session phase I student should be able to determine							
	the anatomical position of12 th rib accurately.							
	4. At the end of session phase I student should be able to determine							
	the anatomical position of 1 st thoracic vertebra accurately.							
	5. At the end of session phase I student should be able to determine							
	the anatomical position of 11 th thoracic vertebra accurately.							
	6. At the end of session phase I student should be able to determine							
	the anatomical position of 12 th thoracic vertebra accurately.							
	7.At the end of session phase I student should be able to identify the							
	side of 2 nd rib accurately.							
	8. At the end of session phase I student should be able to identify the							
	side of 11th rib accurately.							
	At the end of session phase I student should be able to identify the							
	side of 12th rib accurately.							
AN21.3	Describe & demonstrate the boundaries of thoracic inlet, cavity and	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/		
	outlet		.		group discussion, DOAP			
	Learning Objectives :				session			
	1. At the end of session phase I student must be able to describe the							
	boundaries of thoracic inlet accurately.							
	2. At the end of session phase I student must be able to describe the							
	boundaries of thoracic cavity accurately.							
	3. At the end of session phase I student must be able to describe the							
	boundaries of thoracic outlet. Accurately.							
	4. At the end of session phase I student must be able to demonstrate							
	the boundaries of thoracic inlet on skeleton correctly.							
	5. At the end of session phase I student must be able to demonstrate the boundaries of thoracic cavity on skeleton correctly.							
	6. At the end of session phase I student must be able to demonstrate							
	the boundaries of thoracic outlet on skeleton correctly.							
AN21.4	Describe & demonstrate extent, attachments, direction of fibres, nerve	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/		
	supply and actions of intercostal muscles				group discussion, DOAP			
	Learning Objectives :				session			
	1. At the end of session phase I student must be able to describe the							
	extent of intercostals muscles correctly.							
	2. At the end of session phase I student must be able to describe							
	the attachments of intercostals muscles correctly.							
	3. At the end of session phase I student must be able to describe the							

Number	 nerve supplyof intercostals muscles correctly. At the end of session phase I student must be able to describe the action of intercostals muscles correctly. At the end of session phase I student must be able to demonstrate the extent of intercostals muscles on cadavers correctly. At the end of session phase I student must be able to demonstrate the attachments of intercostals muscles on cadavers correctly. At the end of session phase I student must be able to demonstrate the nerve supply of intercostals muscles correctly. At the end of session phase I student must be able to describe the action of intercostals muscles in simulated environment correctly. COMPETENCY The student should be able to 	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Verti cal Integ ratio n	Horizont al Integrati on
AN21.5	 Describe & demonstrate origin, course, relations and branches of a typical intercostal nerve Learning Objectives: At the end of session phase I student must be able to describe the origin of typical intercostal nerve correctly. At the end of session phase I student must be able to describe the course of typical intercostal nerve correctly. At the end of session phase I student must be able to describe the relation of typical intercostal nerve correctly. At the end of session phase I student must be able to describe the branches of typical intercostal nerve correctly. At the end of session phase I student must be able to describe the applied anatomyof typical intercostal nerve correctly. At the end of session phase I student must be able to demonstrate the origin of typical intercostal nerveon cadavers correctly. At the end of session phase I student must be able to demonstrate the course of typical intercostal nerve on cadaver correctly. At the end of session phase I student must be able to demonstrate the relation of typical intercostal nerve on cadaver correctly. At the end of session phase I student must be able to demonstrate the relation of typical intercostal nerve on cadaver correctly. At the end of session phase I student must be able to demonstrate the relation of typical intercostal nerve on cadaver correctly. 		SH	Y	Practical, Lecture, Small group discussion, DOAP session				

AN21.6	Mention origin, course and branches/ tributaries of:	K	KH	l v	Practical, Lecture	Written/ Viva voce	Ī	
A1121.0	1) anterior & posterior intercostals vessels	IX	IXII	'	Tactical, Ecoluic	VVIIIICII/ VIVA VOCC		
	2) internal thoracic vessels							
	Learning Objectives :							
	At the end of session phase I student should be able to describe							
	the origin of anterior intercostal artery correctly.							
	At the end of session phase I student should be able to describe							
	the course of anterior intercostal artery correctly.							
	At the end of session phase I student should be able to describe							
	the branches of anterior intercostal artery correctly.							
	4. At the end of session phase I student should be able to describe							
	the origin of posterior intercostal artery correctly.							
	5. At the end of session phase I student should be able to describe							
	the course of posterior intercostal artery correctly.							
	6. At the end of session phase I student should be able to describe							
	the branches of posterior intercostal artery correctly.							
	7. At the end of session phase I student should be able to describe							
	the origin of internal thoracic artery correctly.							
	8. At the end of session phase I student should be able to describe							
	the course of internal thoracic artery correctly.							
	At the end of session phase I student should be able to describe							
	the branches of internal thoracic artery correctly.							
	10. At the end of session phase I student should be able to describe							
	the origin of anterior intercostal vein correctly.							
	11. At the end of session phase I student should be able to describe							
	the course of anterior intercostal vein correctly.							
	12.At the end of session phase I student should be able to describe							
	the tributaries of anterior intercostal artery correctly.							
	13. At the end of session phase I student should be able to describe							
	the origin of posterior intercostal vein correctly.							
	14. At the end of session phase I student should be able to describe							
	the course of posterior intercostal vein correctly.							
	15. At the end of session phase I student should be able to describe							
	the tributaries of posterior intercostal vein correctly.							
	16.At the end of session phase I student should be able to describe							
	the origin of internal thoracic vein correctly.							
	17. At the end of session phase I student should be able to describe							
	the course of internal thoracic vein correctly.							
	18. At the end of session phase I student should be able to describe							
	the tributaries of internal thoracic vein correctly.							
AN21.7	Mention the origin, course, relations and branches of	K	KH	N	Lecture	Written		
	1) typical intercostal nerve							
	2) superior intercostal artery, subcostal artery							
	Learning Objectives :							
	1. At the end of session phase I student should be able to describe the							

AN21.8	origin of typical intercostal nerve correctly. 2. At the end of session phase I student should be able to describe the course of typical intercostal nerve correctly. 3. At the end of session phase I student should be able to describe the relations of typical intercostal nerve correctly. 4. At the end of session phase I student should be able to describe the origin of superior intercostal artery correctly. 5. At the end of session phase I student should be able to describe the course of superior intercostal artery correctly. 6. At the end of session phase I student should be able to describe the relations of typical intercostal artery correctly. 7. At the end of session phase I student should be able to describe the origin of subcostal artery correctly. 8. At the end of session phase I student should be able to describe the course of subcostal artery correctly. 9. At the end of session phase I student should be able to describe the relations of subcostal artery correctly. Describe & demonstrate type, articular surfaces & movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session		
	 Learning Objectives: At the end of session phase I student must be able to describe the type, articular surfaces and movements of manubriosternal joint correctly. At the end of session phase I student must be able to describe the type, articular surfaces and movements of costovertebral joint correctly. At the end of session phase I student must be able to describe the type, articular surfaces and movements of costotransverse joint correctly At the end of session phase I student must be able to describe the type, articular surfaces and movements of xiphisternal joint correctly. At the end of session phase I student must be able to demonstrate the manubriosternal joint on skeleton correctly. At the end of session phase I student must be able to demonstrate the costovertebral joint on skeleton correctly. At the end of session phase I student must be able to demonstrate the costotransverse joint on skeleton correctly At the end of session phase I student must be able to demonstrate the costotransverse joint on skeleton correctly 						

	Describe & demonstrate mechanics and types of respiration Learning Objectives: 1. At the end of session phase I student must be able to describe the mechanics of respiration correctly. 2. At the end of session phase I student must be able to describe the types of respiration correctly. 3. At the end of session phase I student must be able to demonstrate the mechanic of respiration in simulated environment correctly 4. At the end of session phase I student must be able to differentiate the types of respiration correctly.	K/S	SH		Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		Physiology
N21.10	Describe costochondral and interchondral joints Learning Objectives: 1. At the end of session phase I student should be able to describe the costochondral joint correctly. 2. At the end of session phase I student should be able to describe the interchondral joint correctly. 3. At the end of session phase I student should be able to describe the applied anatomy costochondral joint correctly. 4. At the end of session phase I student should be able to describe the applied anatomy interchondral joint correctly.	К	КН	N	Lecture	Written		
NN21.11	 Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum Learning Objectives: 5. At the end of session phase I student must be able to describe the boundary of anterior mediastinum correctly. 6. At the end of session phase I student must be able to describe the boundary of middle mediastinum correctly. 7. At the end of session phase I student must be able to describe the boundary of posterior mediastinum correctly. 8. At the end of session phase I student must be able to describe the content of anterior mediastinum correctly. 9. At the end of session phase I student must be able to describe the content of middle mediastinum correctly. 10. At the end of session phase I student must be able to describe the content of posterior mediastinum correctly. 11. At the end of session phase I student must be able to describe the applied anatomy of anterior mediastinum correctly. 12. At the end of session phase I student must be able to describe the applied anatomy of posterior mediastinum correctly. 13. At the end of session phase I student must be able to describe the applied anatomy of posterior mediastinum correctly. 	K	H	Y	Practical, Lecture	Written/ Viva voce		

AN22.1	Describe & demonstrate subdivisions, sinuses in	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/	
	pericardium, blood supply and nerve supply of pericardium					skill assessment	
	Learning Objectives :				session		
	At the end of session phase I student must be able to describe the subdivisions of pericardium correctly.						
	2. At the end of session phase I student must be able to describe the sinuses of pericardium correctly.						
	3. At the end of session phase I student must be able to describe the blood supply of pericardium correctly.						
	4. At the end of session phase I student must be able to describe the nerve supply of pericardium correctly						
	5. At the end of session phase I student must be able to demonstrate the subdivisions of pericardium on cadaver correctly.						
	6. At the end of session phase I student must be able to demonstrate the sinuses of pericardium on cadaver correctly.						
	7. At the end of session phase I student must be able to demonstrate the blood supply of pericardium on cadaver correctly.						
	At the end of session phase I student must be able to demonstrate the nerve supply of pericardium on cadaver correctly						
AN22.2	Describe & demonstrate external and internal features of each	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/	Physiology
,	chamber of heart		0		group discussion, DOAP		i nyolology
	Learning Objectives :				Isession	CKIII GOOGGOINGIN	
	At the end of session phase I student must be able to elicit the						
	external features of each chambers of heart correctly.						
	At the end of session phase I student must be able to elicit the						
	internal features of each chambers of heart correctly.						
	3. At the end of session phase I student must be able to						
	demonstrate the external features of each chambers of heart on						
	cadaveric heart correctly						
	4. At the end of session phase I student must be able to						
	demonstrate the internal features of each chambers of heart on						
	cadaveric heart correctly						
AN22.3	Describe & demonstrate origin, course and branches of coronary	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/	Physiology
	arteries				group discussion, DOAP	skill assessment	
	Learning Objectives:				session		
	At the end of session phase I student must be able to describe						
	origin of coronary arteries correctly.						
	2. At the end of session phase I student must be able to describe						
	course of coronary arteries correctly.						
	3. At the end of session phase I student must be able to describe						
	branches of coronary arteries correctly.						
	4. At the end of session phase I student must be able to						
	demonstrate origin of coronary arteries on cadaveric heart correctly.						
	5. At the end of session phase I student must be able todemonstrate						

course of coronary arteries on cadaveric heart correctly. 6. At the end of session phase I student must be able to				
demonstrate branches of coronary arteries on cadaveric heart				
correctly.				1

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration
AN22.4	Describe anatomical basis of ischaemic heart disease Learning Objectives: 1. At the end of session phase I student must be able to describe blood supply of heart correctly. 2. At the end of session phase I student must be able to enumerate ischaemic heart disease correctly. 3. At the end of session phase I student must be able to elicit the anatomical basis of ischaemic heart disease correctly.	К	KH	Y	Lecture	Written/ Viva voce		General Medicine	Physiology
AN22.5	Describe & demonstrate the formation, course, tributaries and termination of coronary sinus Learning Objectives: 1. At the end of session phase I student must be able to describe formation of coronary sinus correctly. 2. At the end of session phase I student must be able to describe course of coronary sinus correctly. 3. At the end of session phase I student must be able to describe tributaries of coronary sinus correctly. 4. At the end of session phase I student must be able to demonstrate the formation of coronary sinus on cadaveric heart correctly. 5. At the end of session phase I student must be able to demonstrate course of coronary sinus on cadaveric heart correctly. 6. At the end of session phase I student must be able to describe tributaries of coronary sinus on cadaveric heart correctly. 7. At the end of session phase I student must be able to describe the clinical anatomy of coronary sinus on cadaveric heart correctly.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN22.6	Describe the fibrous skeleton of heart Learning Objectives: 1. At the end of session phase I student must be able to describe the fibrous skeleton correctly. 2. At the end of session phase I student must be able to describe the parts of fibrous skeleton correctly.	К	КН	Y	Lecture	Written			
AN22.7	Mention the parts, position and arterial supply of the conducting system of heart Learning Objectives: 1. At the end of session phase I student must be able to describe the parts of conducting system of heart correctly. 2. At the end of session phase I student must be able to describe the position of conducting system of heart correctly. 3. At the end of session phase I student must be able to describe the	К	КН	Y	Lecture	Written		General Medicine	Physiology

	arterial supply of conducting system of heart correctly.					1			
	4. At the end of session phase I student must be able to describe the								
	clinical anatomy of conducting system of heart correctly.								
Topic: M	ediastinum Number	ofcompete	encies:(7)		Number of p	procedures for certific	ation:(NIL)		
AN23.1	Describe & demonstrate the external appearance, relations, blood supply, nerve supply,lymphatic drainage and applied anatomy of oesophagus Learning Objectives: 1. At the end of session phase I student must be able to describe the external features of oesophagus correctly. 2. At the end of session phase I student must be able to describe the relations of oesophagus correctly. 3. At the end of session phase I student must be able to describe the blood supply of oesophagus correctly 4. At the end of session phase I student must be able to describe the nerve supply of oesophagus correctly. 5. At the end of session phase I student must be able to describe the lymphatic drainage of oesophagus correctly. 6. At the end of session phase I student must be able to demonstrate the applied anatomy of oesophagus correctly. 7. At the end of session phase I student must be able to demonstrate the external features of oesophagus on cadaver correctly. 2. At the end of session phase I student must be able to demonstrate the relations of oesophagus on cadaver correctly. 3. At the end of session phase I student must be able to demonstrate the blood supply of oesophagus on cadaver correctly. 4. At the end of session phase I student must be able to demonstrate the blood supply of oesophagus on cadaver correctly. 5. At the end of session phase I student must be able to demonstrate the nerve supply of oesophagus on cadaver correctly. 5. At the end of session phase I student must be able to demonstrate the nerve supply of oesophagus on cadaver correctly. 5. At the end of session phase I student must be able to demonstrate the nerve supply of oesophagus on cadaver correctly.	K/S	SH	Y	Practical, Lecture, DOAP session	Written/ Viva voce/ skill assessment		General Surgery	
AN23.2	Iymphatic drainage of oesophagus on cadaver correctly. Describe & demonstrate the extent, relations tributaries of thoracic duct and enumerate its applied anatomy Learning Objectives: 1. At the end of session phase I student must be able to describe the external features of thoracic duct correctly. 2.At the end of session phase I student must be able to describe the relations of thoracic duct correctly. At the end of session phase I student must be able to describe the tributaries of thoracic duct correctly. 3.At the end of session phase I student must be able to describe the applied anatomy of thoracic duct correctly. 4. At the end of session phase I student must be able to demonstrate the	K/S	SH	Y	Practical, Lecture, DOAP session	Written/ Viva voce/ skill assessment		General Surgery	

	extent of thoracic duct on cadaver correctly.			I		Ī	Ī	
	I							
	5. At the end of session phase I student must be able to demonstrate the							
	relations of thoracic duct on cadaver correctly.							
	6. At the end of session phase I student must be able to demonstrate the							
	tributaries of thoracic duct accurately.							
AN23.3	Describe & demonstrate origin, course, relations, tributaries and	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/		
	termination of superior venacava, azygos, hemiazygos and				group discussion, DOAP	skill assessment		
	accessory hemiazygos veins				session			
	Learning Objectives:							
	1. At the end of session phase I student must be able to describe the							
	extent, course, relations, tributaries of superior vena cava correctly.							
	2. At the end of session phase I student must be able to describe the							
	extent, course, relations, tributaries of azygous vein correctly.							
	3. At the end of session phase I student must be able to describe the							
	extent, course, relations, tributaries of hemi azygous vein correctly.							
	4. At the end of session phase I student must be able to describe the							
	extent, course, relations, tributaries of accessory hemi azygous vein							
	correctly.							
	5. At the end of session phase I student must be able to demonstrate							
	the extent, course, relations, and tributaries of superior vena cava							
	correctly.							
	6 At the end of session phase I student must be able to demonstrate							
	the extent, course, relations, and tributaries of azygous vein correctly.							
	7. At the end of session phase I student must be able to demonstrate							
	the extent, course, relations, and tributaries of hemi azygous vein							
	correctly.							
	8. At the end of session phase I student must be able to demonstrate							
	the extent, course, relations, and tributaries of accessory hemi							
	azygous vein correctly.							
AN23.4	Mention the extent, branches and relations of arch of aorta &	K	KH	Y	Practical, Lecture	Written/ Viva voce		
AN23.4	descending thoracic aorta	K	KΠ	I	Fractical, Lecture	vviilleii/ viva voce		
	Learning Objectives:							
	1. At the end of session phase I student must be able to describe the							
	extent, branches & relations of arch of aorta correctly.							
	2. At the end of session phase I student must be able to describe the							
	extent, branches & relations of descending thoracic aorta correctly.							
AN23.5	Identify & Mention the location and extent of thoracic sympathetic	K/S	SH	Y	Practical, Lecture, Small			
	chain Learning Objectives:				group discussion, DOAP	skill assessment		
	1. At the end of session phase I student must be able to describe the				session			
	location & extent of thoracic sympathetic chain correctly. 2.At the end of session phase I student must be able to identify the							
	thoracic sympathetic chain on cadaver correctly.							
<u> </u>	Thioracic sympathetic chain on cadaver correctly.							

AN23.6	Describe the splanchnic nerves Learning Objectives: 1. At the end of session phase I student should be able to describe the splanchnic nerves correctly. 2. At the end of session phase I student should be able to demonstrate the splanchnic nerves correctly	К	КН	N	Lecture	Written			
AN23.7	Mention the extent, relations and applied anatomy of lymphatic duct Learning Objectives: 1. At the end of session phase I student must be able to describe the extent of lymphatic duct correctly. 2. At the end of session phase I student must be able to describe the relations of lymphatic duct correctly 3. At the end of session phase I student must be able to describe the applied anatomy of lymphatic duct correctly. 4. At the end of session phase I student must be able to demonstrate the extent of lymphatic duct correctly. 5. At the end of session phase I student must be able to demonstrate the relations of lymphatic duct correctly.	К	КН	Y	Lecture	Written/ Viva voce		General Surgery	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/		Teaching-Learning Methods	Assessment Methods	Number required	Vertical Integration	Horizontal Integration

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required	Vertical Integration	Horizontal Integration
	The student should be able to	NOA	SH/P	(1714)	metrious	Methods	to certify	integration	integration
Topic: Lu	ings&Trachea Number	ofcompete	encies:(6)		Number of	procedures for certifi	cation:(NIL)		
AN24.1	Mention the blood supply, lymphatic drainage and nerve supply of pleura, extent of pleura and describe the pleural recesses and their applied anatomy Learning Objectives: 1. At the end of session phase I student must be able to describe the extent of pleura correctly. 2. At the end of session phase I student must be able to describe the blood supply of pleura correctly. 3. At the end of session phase I student must be able to describe the nerve supply of pleura correctly. 4. At the end of session phase I student must be able to describe the lymphatic drainage of pleura correctly. 5. At the end of session phase I student must be able to describe the pleural recesses correctly.		КН	Y	Practical, Lecture	Written/ Viva voce		General Medicine	Physiology
AN24.2	Identify side, external features and relations of structures which form root of lung & bronchial tree and their clinical correlate Learning Objectives: 1. At the end of session phase I student must be able to describe the root	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session			General Medicine	Physiology

	of lung correctly. 2. At the end of session phase I student must be able to describe the external features of root of lung correctly 3. At the end of session phase I student must be able to describe the relations of root of lung correctly. 4. At the end of session phase I student must be able to identify the side of root of lung correctly. 5. At the end of session phase I student must be able to describe the bronchial tree correctly. 2. At the end of session phase I student must be able to describe the external features of bronchial tree correctly 3. At the end of session phase I student must be able to describe the relations of bronchial tree correctly. 4. At the end of session phase I student must be able to identify the side of bronchial tree correctly.							
AN24.3	Describe a bronchopulmonary segment Learning Objectives: 1. At the end of session phase I student must be able to describe the broncho pulmonary segment correctly. 2. At the end of session phase I student must be able to describe the applied anatomy of broncho pulmonary segment correctly. 3. At the end of session phase I student must be able to demonstrate the broncho pulmonary segments on lungs correctly.	К	КН	Y	Lecture	Written/ Viva voce	General Medicine	Physiology
AN24.4	Identify phrenic nerve & describe its formation & distribution Learning Objectives: 1. At the end of session phase I student must be able to describe the formation of phrenic nerve correctly. 2. At the end of session phase I student must be able to describe the distribution of phrenic nerve correctly. 3. At the end of session phase I student must be able to demonstrate the phrenic nerve on cadaver correctly.	K/S	SH	Y	Lecture, Practical	Written/ Viva voce		
AN24.5	Mention the blood supply, lymphatic drainage and nerve supply of lungs Learning Objectives: 1. At the end of session phase I student must be able to describe the blood supply of lung correctly. 2. At the end of session phase I student must be able to describe the nerve supply of lung correctly. 3. At the end of session phase I student must be able to describe the lymphatic drainage of lung correctly. 4. At the end of session phase I student must be able to describe the lymphatic drainage of lung correctly.	К	КН	Y	Lecture	Written/ Viva voce		
AN24.6	Describe the extent, length, relations, blood supply, lymphatic drainage and nerve supply of trachea Learning Objectives:	К	KH	N	Lecture	Written		

	1. At the end of session phase I student should be able to describe the								
	extent of trachea correctly.								
	2. At the end of session phase I student should be able to describe the								
	length of trachea correctly.								
	3. At the end of session phase I student should be able to describe the								
	blood supply of trachea correctly.								
	4. At the end of session phase I student should be able to describe the								
	nerve supply of trachea correctly.								
	5. At the end of session phase I student should be able to describe the								
	lymphatic drainage of trachea correctly.								
	6. At the end of session phase I student should be able to demonstrate the								
	trachea on cadaver correctly.								
	urachea on cadaver correctly.						<u> </u>		
Topic: The	orax Number	ofcompete	ncies:(9)		Number o	f procedures for certific	ation:(01)		
		0.00poto				. procodured for continue	uu.o(o.,		
AN25.1	Identify, draw and label a slide of trachea and lung	K/S	SH	Υ	Lecture, Practical	Written/ skill	1		
	Learning Objectives:				·	assessment			
	1. At the end of session phase I student must be able to identify the								
	slide of trachea correctly.								
	2. At the end of session phase I student must be able to draw the								
	slide of trachea correctly.								
	3. At the end of session phase I student must be able to label the								
	slide of trachea correctly.								
	4. At the end of session phase I student must be able to identify the								
	slide of lung correctly.								
	2. At the end of session phase I student must be able to draw the								
	slide of lung correctly.								
	3. At the end of session phase I student must be able to label the								
41105.0	slide of lung correctly.		1411			124			
AN25.2		K	KH	Y	Lecture	vvritten			
						i		1	
	development of heart correctly.								
	development of heart correctly. 4. At the end of session phase I student must be able to describe the								
	development of heart correctly. 4. At the end of session phase I student must be able to describe the developmental anomalies of pleura correctly.								
	development of heart correctly. 4. At the end of session phase I student must be able to describe the developmental anomalies of pleura correctly. 5. At the end of session phase I student must be able to describe the								
	development of heart correctly. 4. At the end of session phase I student must be able to describe the developmental anomalies of pleura correctly.								
AN25.2	Describe development of pleura, lung & heart Learning Objectives: 1. At the end of session phase I student must be able to describe the development of pleura correctly. 2. At the end of session phase I student must be able to describe the development of lung correctly. 3. At the end of session phase I student must be able to describe the	К	KH	Y	Lecture	Written			

AN25.3	Describe fetal circulation and changes occurring at birth Learning Objectives: 1. At the end of session phase I student must be able to describe the	К	KH	Y	Lecture	Written		General Medicine	Physiology
	foetal circulation correctly.								
	2.At the end of session phase I student must be able to describe the								
	changes in foetal circulation at birth correctly.								
	3. At the end of session phase I student must be able to describe the anomalies of foetal circulation correctly.								
AN25.4	Describe embryological basis of:	K	KH	Υ	Lecture	Written/ Viva voce		General	Physiology
, 120. 1	1) atrial septal defect, 2) ventricular septal defect, 3) Fallot's tetralogy	• • • • • • • • • • • • • • • • • • • •		•	Lociaro	Trinton, viva voco		Medicine,	Injuicionally
	&							Pediatrics	
	4) tracheo-oesophageal fistula								
	Learning Objectives:								
	At the end of session phase I student must be able to describe the atrioseptal defects correctly.								
	2.At the end of session phase I student must be able to enumerate the								
	atrioseptal defects correctly.								
	3. At the end of session phase I student must be able to describe the								
	ventricular septal defects correctly.								
	4. At the end of session phase I student must be able to enumerate the								
	ventricular septal defects correctly. 5. At the end of session phase I student must be able to describe the								
	trachea- oesophageal fistula correctly.								
<u> </u>	COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
Number	COMPETENCY	Domain	Levei	COLE	reactiffig-Leartiffig	Assessment	Indilibei	Vertical	Tionzoniai
Number	The student should be able to	K/S/A/C	K/KH/	(Y/N)	Methods	Methods	required	Integration	Integration
Number							required to certify		
	The student should be able to	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required	Integration	Integration
Number AN25.5	The student should be able to Describe developmental basis of congenital anomalies,		K/KH/				required to certify	Integration General	
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives :	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly.	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly. 2. At the end of session phase I student must be able to describe the	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly. 2. At the end of session phase I student must be able to describe the congenital anomalies of great vessels correctly.	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly. 2. At the end of session phase I student must be able to describe the congenital anomalies of great vessels correctly.	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly. 2. At the end of session phase I student must be able to describe the congenital anomalies of great vessels correctly. 3. At the end of session phase I student must be able to describe the developmental basis of dextrocardia correctly. 4. At the end of session phase I student must be able to describe the	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
	Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly. 2. At the end of session phase I student must be able to describe the congenital anomalies of great vessels correctly. 3. At the end of session phase I student must be able to describe the developmental basis of dextrocardia correctly. 4. At the end of session phase I student must be able to describe the developmental basis of patent ductus arteriosus correctly.	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly. 2. At the end of session phase I student must be able to describe the congenital anomalies of great vessels correctly. 3. At the end of session phase I student must be able to describe the developmental basis of dextrocardia correctly. 4. At the end of session phase I student must be able to describe the developmental basis of patent ductus arteriosus correctly. 5. At the end of session phase I student must be able to describe the	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
AN25.5	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly. 2. At the end of session phase I student must be able to describe the congenital anomalies of great vessels correctly. 3. At the end of session phase I student must be able to describe the developmental basis of dextrocardia correctly. 4. At the end of session phase I student must be able to describe the developmental basis of patent ductus arteriosus correctly. 5. At the end of session phase I student must be able to describe the developmental basis of coarctation of aorta correctly.	K/S/A/C	K/KH/ SH/P	(Y/N) Y	Methods	Methods Written/ Viva voce	required to certify	Integration General Medicine,	Integration
	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly. 2. At the end of session phase I student must be able to describe the congenital anomalies of great vessels correctly. 3. At the end of session phase I student must be able to describe the developmental basis of dextrocardia correctly. 4. At the end of session phase I student must be able to describe the developmental basis of patent ductus arteriosus correctly. 5. At the end of session phase I student must be able to describe the developmental basis of coarctation of aorta correctly. Mention development of aortic arch arteries, SVC, IVC and	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify	Integration General Medicine,	Integration
AN25.5	The student should be able to Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta Learning Objectives: 1. At the end of session phase I student must be able to describe the anatomy of heart vessels correctly. 2. At the end of session phase I student must be able to describe the congenital anomalies of great vessels correctly. 3. At the end of session phase I student must be able to describe the developmental basis of dextrocardia correctly. 4. At the end of session phase I student must be able to describe the developmental basis of patent ductus arteriosus correctly. 5. At the end of session phase I student must be able to describe the developmental basis of coarctation of aorta correctly.	K/S/A/C	K/KH/ SH/P	(Y/N) Y	Methods	Methods Written/ Viva voce	required to certify	Integration General Medicine,	Integration

							1		
	1. At the end of session phase I student should be able to describe the								
	development of aortic arch correctly.								
	2. At the end of session phase I student should be able to describe the								
	development of SVC correctly.								
	3. At the end of session phase I student should be able to describe the								
	development of IVC correctly.								
	4. At the end of session phase I student should be able to describe the								
	development of coronary sinus correctly.								
	5. At the end of session phase I student should be able to describe the								
	developmental anomalies of aortic arch correctly.								
	2. At the end of session phase I student should be able to describe the								
	developmental anaomalies of SVC correctly.								
	3. At the end of session phase I student should be able to describe the								
	developmental anaomalies of IVC correctly.								
	4. At the end of session phase I student should be able to describe the								
	developmental anomalies of coronary sinus correctly.								
AN25.7	Identify structures seen on a plain x-ray chest (PA view)	K/S	SH	Υ	Practical, DOAP session	Written/ Viva voce		Radiodiagnosis,	
	Learning Objectives :							General	
	At the end of session phase I student must be able to describe the							Medicine	
	plain X – ray chest correctly.								
	2. At the end of session phase I student must be able to identify the								
	plain X – ray chest correctly.								
	3. At the end of session phase I student must be able to								
	demonstrate the features on plain X – ray chest correctly.								
AN25.8	Identify and describe in brief a barium swallow	K/S	SH	N	Practical, DOAP session	Written/ Viva voce		Radiodiagnosis,	
	Learning Objectives :							General	
	1. At the end of session phase I student should be able to describe the							Medicine	
	barium swallow correctly.								
	2. At the end of session phase I student should be able to identify the								
	barium swallow correctly.								
AN25.9	Demonstrate surface marking of lines of pleural reflection, lung	K/S	SH	Υ	Practical	Viva voce/ skill		General	Physiology
	borders and fissures, trachea, heart borders, apex beat & surface					assessment		Medicine,	
	projection of valves of heart							Pediatrics	
	Learning Objectives :								
	At the end of session phase I student must be able to describe the								
	surface marking of lines of pleural reflection correctly.								
	2. At the end of session phase I student must be able to describe								
	the surface marking of lung borders and fissures correctly.								
	3. At the end of session phase I student must be able to describe								
	the surface marking of lines of trachea correctly.								
	4. At the end of session phase I student must be able to describe								
	the surface marking of lines of heart borders correctly.								
	5. At the end of session phase I student must be able to describe								

Topic:Ski	the surface marking of lines of valves of heart correctly 6. At the end of session phase I student must be able to demonstrate the surface marking of lines of pleural reflection in simulated environment correctly. 7. At the end of session phase I student must be able to demonstrate the surface marking of lung borders and fissures in simulated environment correctly. 8. At the end of session phase I student must be able to demonstrate the surface marking of lines of trachea in simulated environment correctly. 9. At the end of session phase I student must be able to demonstrate the surface marking of lines of heart borders in simulated environment correctly. 10. At the end of session phase I student must be able to demonstrate the surface marking of lines of valves of heart in simulated environment correctly.	ofcompete	encies:(7)		Number of p	procedures for certific	ation:(NIL)	
AN26.1	Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull Learning Objectives: 1. At the end of session phase I student must be able to describe the skull correctly. 2. At the end of session phase I student must be able to describe the individual bones of skull correctly. 3. At the end of session phase I student must be able to describe the anatomical position of skull correctly. 4. At the end of session phase I student must be able to identify the individual bones of skull correctly. 5. At the end of session phase I student must be able to locate the	K/S	SH	Y	Lecture, DOAP session	Viva voce/ skill assessment		
AN26.2	 Individual bones on skull correctly. Describe the features of norma frontalis, verticalis, occipitalis, lateralis and basalis Learning Objectives: 1. At the end of session phase I student must be able to describe the features of norma frontalis correctly. 2. At the end of session phase I student must be able to describe the features of norma verticalis correctly. 3. At the end of session phase I student must be able to describe the features of norma occipitalis correctly. 4. At the end of session phase I student must be able to describe the features of norma lateralis correctly. 	K/S	SH	Y	Lecture, DOAP session	Viva voce/ skill assessment		

			1				 1	
	5. At the end of session phase I student must be able to describe the							
	features of norma basalis correctly.							
	6. At the end of session phase I student must be able to describe the							
	individual bones of norma frontalis correctly.							
	7. At the end of session phase I student must be able to describe the							
	individual bones of norma verticalis correctly.							
	8. At the end of session phase I student must be able to describe the							
	individual bones of norma occipitalis correctly.							
	9. At the end of session phase I student must be able to describe the							
	individual bones of norma lateralis correctly.							
	10. At the end of session phase I student must be able to describe the							
	individual bones of norma basalis correctly.							
AN26.3	Describe cranial cavity, its subdivisions, foramina and structures	K/S	SH	Υ	Lecture, DOAP session	Viva voce/ skill		
	passing through them					assessment		
	Learning Objectives :							
	1.At the end of session phase I student must be able to describe the							
	features of cranial cavity correctly.							
	2.At the end of session phase I student must be able to describe the							
	subdivisions of cranial cavity correctly.							
	3.At the end of session phase I student must be able to describe the							
	foramina of cranial cavity correctly.							
	4. At the end of session phase I student must be able to describe the							
	structures passing through foramina of cranial cavity correctly.							
	5.At the end of session phase I student must be able to demonstrate the							
	foramina of cranial cavity on correctly.							
	6. At the end of session phase I student must be able to demonstrate							
	the structures passing through foramina of cranial cavity correctly.							
AN26.4	Describe morphological features of mandible	K/S	SH	Υ	Lecture, DOAP session	Viva voce/ skill		
	Learning Objectives :				·	assessment		
	1.At the end of session phase I student must be able to describe the							
	external features of mandible correctly.							
	2.At the end of session phase I student must be able to describe the							
	foramina of mandible correctly.							
	3. At the end of session phase I student must be able to demonstrate							
	the structures passing through foramina of mandible correctly.							
	5. At the end of session phase I student must be able to demonstrate							
	the external features of mandible correctly.							
	6. At the end of session phase I student must be able to demonstrate							
	the foramina of mandible correctly.							
	7. At the end of session phase I student must be able to demonstrate							
	the structures passing through foramina of mandible correctly.							
	1 3 3			I	I .	I .	1	

AN26.5	Describe features of typical and atypical cervical vertebrae (atlas	K/S	SH	Υ	Lecture, DOAP session	Viva voce/ skill			
	and axis)				, -	assessment			
	Learning Objectives :								
	1.At the end of session phase I student must be able to describe the								
	external features of typical cervical vertebrae correctly.								
	2.At the end of session phase I student must be able to describe the								
	external features of atypical cervical vertebrae correctly.								
	3. At the end of session phase I student must be able to identify the								
	typical cervical vertebrae correctly.								
	4.At the end of session phase I student must be able to identify the								
	atypical cervical vertebrae correctly.								
	5.At the end of session phase I student must be able to demonstrate the								
	feature of typical cervical vertebrae correctly.								
	4.At the end of session phase I student must be able to demonstrate the								
1	feature of atypical cervical vertebrae correctly.								
AN26.6	Explain the concept of bones that ossify in membrane	K	KH	N	Lecture	Viva voce			
	Learning Objectives :								
	1. At the end of session phase I student must be able to define the								
	ossification correctly.								
	2. At the end of session phase I student must be able to enumerate								
	different types of ossification correctly.								
	3.At the end of session phase I student must be able to differentiate in								
	between different types of ossification correctly.								
	4. At the end of session phase I student must be able to describe								
	membranous ossification correctly.								
	5. At the end of session phase I student must be able to enumerate								
	bones that ossify in membrane correctly.								
Number	COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
	The student should be able to	K/S/A/C	K/KH/	(Y/N)	Methods	Methods	required	Integration	Integration
			SH/P				to certify		
							P		
AN26.7	Describe the features of the 7 th cervical vertebra	K/S	SH	N	DOAP session	Viva voce			
	Learning Objectives :								
	1. At the end of session phase I student should be able to discuss the								
	7 th cervical vertebra correctly								
	2. At the end of session phase I student should be able to identify the								
	7 th cervical vertebra correctly.								
	3. At the end of session phase I student should be able to								
	demonstrate the features of the 7 th cervical vertebra correctly.								
-									

Number of procedures for certification:(NIL)

IMIN//	Describe the layers of scalp, its blood supply, its nerve supply and	K	KH	V	Practical, Lecture	Written/ Viva voce		General Surgery	
AN27.1	surgical importance	'`	'`''	'	radioal, Editare	VVIII.COII/ VIVA VOOC		Contoidi Caigory	
	Learning Objectives :								
	1.At the end of session phase I student must be able to describe the								
	layers of scalp correctly.								
	2. At the end of session phase I student must be able to describe the								
	blood supply of scalp correctly.								
	3. At the end of session phase I student must be able to describe the								
	nerve supply of scalp correctly.								
	4 At the end of session phase I student must be able to describe the								
	applied anatomy of scalp correctly.								
	5.At the end of session phase I student must be able to demonstrate								
	the layers of scalp on cadaver correctly.								
AN27.2	Describe emissary veins with its role in spread of infection from	K	KH	Y	Lecture	Written			
	extracranial route to intracranial venous sinuses								
	Learning Objectives :								
	1. At the end of session phase I student must be able to define the								
	emissary vein correctly.								
	2. At the end of session phase I student must be able to discuss the								
	features of emissary vein correctly.								
	3.At the end of session phase I student must be able to discuss the role								
	of emissary vein in spread of infection from extracranial to intracranial								
	route correctly.								
		•							
Topic: Fa	ce &parotidregion Number	r ofcompet	encies:(10)		Number of	procedures for certific	cation:(NIL)		
AN28.1	Describe & demonstrate muscles of facial expression and their	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/			
1	nerve supply				group discussion, DOAP	skill assessment			
	nerve supply Learning Objectives:				group discussion, DOAP session	skill assessment			
	Learning Objectives :				1 .	skill assessment			
	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the				1 .	skill assessment			
	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly.				1 .	skill assessment			
	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2.At the end of session phase I student must be able to discuss the				1 .	skill assessment			
	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2.At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly.				1 .	skill assessment			
	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2. At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly. 3. At the end of session phase I student must be able to discuss the				1 .	skill assessment			
	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2. At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly. 3. At the end of session phase I student must be able to discuss the nerve supply of muscles of facial expression correctly.				1 .	skill assessment			
	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2. At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly. 3. At the end of session phase I student must be able to discuss the nerve supply of muscles of facial expression correctly. 4. At the end of session phase I student must be able to discuss the				1 .	skill assessment			
AN28 2	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2. At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly. 3. At the end of session phase I student must be able to discuss the nerve supply of muscles of facial expression correctly. 4. At the end of session phase I student must be able to discuss the clinical testing of actions of muscles of facial expression correctly.	к	КН	V	session				
AN28.2	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2. At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly. 3. At the end of session phase I student must be able to discuss the nerve supply of muscles of facial expression correctly. 4. At the end of session phase I student must be able to discuss the clinical testing of actions of muscles of facial expression correctly. Describe sensory innervation of face	К	КН	Y	1 .	skill assessment Written/ Viva voce			
AN28.2	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2. At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly. 3. At the end of session phase I student must be able to discuss the nerve supply of muscles of facial expression correctly. 4. At the end of session phase I student must be able to discuss the clinical testing of actions of muscles of facial expression correctly. Describe sensory innervation of face Learning Objectives:	К	КН	Y	session				
AN28.2	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2. At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly. 3. At the end of session phase I student must be able to discuss the nerve supply of muscles of facial expression correctly. 4. At the end of session phase I student must be able to discuss the clinical testing of actions of muscles of facial expression correctly. Describe sensory innervation of face Learning Objectives: 1. At the end of session phase I student must be able to describe the	К	KH	Υ	session				
AN28.2	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2. At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly. 3. At the end of session phase I student must be able to discuss the nerve supply of muscles of facial expression correctly. 4. At the end of session phase I student must be able to discuss the clinical testing of actions of muscles of facial expression correctly. Describe sensory innervation of face Learning Objectives: 1. At the end of session phase I student must be able to describe the sensory nerve supply of face correctly.	К	КН	Y	session				
AN28.2	Learning Objectives: 1. At the end of session phase I student must be able to enumerate the muscles of facial expression correctly. 2. At the end of session phase I student must be able to discuss the actions of muscles of facial expression correctly. 3. At the end of session phase I student must be able to discuss the nerve supply of muscles of facial expression correctly. 4. At the end of session phase I student must be able to discuss the clinical testing of actions of muscles of facial expression correctly. Describe sensory innervation of face Learning Objectives: 1. At the end of session phase I student must be able to describe the	К	КН	Y	session				

								,
AN28.3	Describe & demonstrate origin /formation, course, branches	K/S	SH		Practical, Lecture, Small	Written/ Viva voce/		
	/tributaries of facial vessels				group discussion, DOAP	skill assessment		
	Learning Objectives :				session			
	At the end of session phase I student must be able to enumerate the							
	facial vessels correctly.							
	2. At the end of session phase I student must be able to describe the							
	origin of the facial artery correctly.							
	3. At the end of session phase I student must be able to describe the							
	course of the facial artery correctly.							
	4.At the end of session phase I student must be able to describe the							
	branches of the facial artery correctly.							
	5.At the end of session phase I student must be able to describe the							
	formation of the facial vein correctly.							
	6 At the end of session phase I student must be able to describe the							
	course of the facial vein correctly.							
	7.At the end of session phase I student must be able to describe the							
	tributaries of the facial vein correctly.							
	8.At the end of session phase I student must be able to demonstrate the							
	facial vessels on cadaver correctly.							
AN28.4	Describe & demonstrate branches of facial nerve with distribution	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/		
=0	Learning Objectives :		J		group discussion, DOAP	skill assessment		
	At the end of session phase I student must be able to describe the facial				session	Skiii dooddonionk		
	nerve correctly.				333.3.1			
	At the end of session phase I student must be able to describe the							
	branches of facial nerve correctly.							
	At the end of session phase I student must be able to describe the applied							
	anatomy of facial nerve correctly.							
	At the end of session phase I student must be able to demonstrate the							
	facial nerve on cadaver correctly.							
AN28.5	Describe cervical lymph nodes and lymphatic drainage of head,	K	KH	Υ	Practical, Lecture	Written/ Viva voce		
711420.0	face and neck	11	13.1	'	Tradition, Editing	VVIIIIOII/ VIVA VOOC		
	Learning Objectives :							
	At the end of session phase I student must be able to describe the							
	cervical lymph nodes correctly.							
	At the end of session phase I student must be able to describe the							
	lymphatic drainage of head, face and neck correctly.							
	3. At the end of session phase I student must be able to demonstrate the							
	cervical lymph nodes correctly.							
AN28.6	Identify superficial muscles of face, their nerve supply and actions	K/S	SH		Practical, Lecture, Small	Written/ Viva voce/		
AINZO.U	Learning Objectives :	NO	ЗΠ					
					group discussion, DOAP	skiii assessment		
	1. At the end of session phase I student must be able to enumerate the				session			
	superficial muscles of face correctly.							
	2. At the end of session phase I student must be able to describe the							L

ANI20 7	 attachment of the superficial muscles of face correctly. At the end of session phase I student must be able to describe the nerve supply of the superficial muscles of face correctly. At the end of session phase I student must be able to describe the action of the superficial muscles of face correctly. At the end of session phase I student must be able to describe the applied anatomy of the superficial muscles of face correctly 	V	КН	V	Leeture	Writton		Conord	
AN28.7	 Explain the anatomical basis of facial nerve palsy Learning Objectives: At the end of session phase I student must be able to describe the course of facial nerve correctly. At the end of session phase I student must be able to describe the distribution of facial nerve correctly. At the end of session phase I student must be able to discuss the applied anatomy of facial nerve correctly. 	К	КН	Y	Lecture	Written		General Medicine	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration
AN28.8	 Explain surgical importance of deep facial vein Objectives At the end of session the phase 1 student must be able to describe the course of deep facial vein accurately. At the end of session the phase 1 student must be able to explain surgical importance of deep facial vein correctly. 	К	КН	Y	Lecture	Written		General Surgery	
AN28.9	 Describe & demonstrate the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance Objectives 1. At the end of session the phase 1 student must be able to describe the location of parotid gland correctly. 2. At the end of session the phase 1 student must be able to explain the parts of parotid gland correctly. 3. At the end of session the phase 1 student must be able to identify the location of parotid gland correctly. 4. At the end of session the phase 1 student must be able to demonstrate the parts of parotid gland correctly 5. At the end of session the phase 1 student must be able to describe the borders of parotid gland correctly. 6. At the end of session the phase 1 student must be able to demonstrate the borders of parotid gland correctly. 7. At the end of session the phase 1 student must be able to demonstrate the borders of parotid gland correctly. 7. At the end of session the phase 1 student must be able to describe the 	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		General Surgery	

			1		Ī				
	surfaces of parotid gland correctly								
	8. At the end of session the phase 1 student must be able to demonstrate								
	the surfaces of parotid gland correctly.								
	9. At the end of session the phase 1 student must be able to describe the								
	contents of parotid gland correctly								
	10. At the end of session the phase 1 student must be able to enumerate								
	the contents of parotid gland correctly.								
	11. At the end of session the phase 1 student must be able to demonstrate								
	the contents of parotid gland correctly.								
	12. At the end of session the phase 1 student must be able to describe the								
	relations of parotid gland correctly.								
	13. At the end of session the phase 1 student must be able to demonstrate								
	the relations of parotid gland correctly.								
	14. At the end of session the phase 1 student must be able to describe the								
	nerve supply of parotid gland correctly.								
	15. At the end of session the phase 1 student must be able to demonstrate								
	the nerve supply of parotid gland correctly								
	16. At the end of session the phase 1 student must be able to describe the								
	course of parotid duct correctly.								
	17. At the end of session the phase 1 student must be able to demonstrate								
	the course of parotid duct correctly								
	18. At the end of session the phase 1 student must be able to describe the								
	surgical importance of parotid gland accurately.								
	19. At the end of session the phase 1 student must be able to record the								
	surgical importance of parotid gland accurately.								
AN28.10	Explain the anatomical basis of Frey's syndrome	K	KH	N	Lecture	Written		General Surgery	
A1120.10	Objectives	'`		11	Lecture	VVIIIICII		Concrat Guigery	
	1. At the end of session the phase 1 student should be able to define the								
	Frey's syndrome accurately.								
	2. At the end of session the phase 1 student should be able to explain the								
	anatomical basis of Frey's syndrome correctly.								
							(AIII.)		
l opic: Pos	sterior triangleofneck Number	er otcompe	tencies:(4)		Number of p	rocedures for certific	ation:(NIL)		
AN29.1	Describe & demonstrate attachments, nerve supply, relations and	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/			
	actions of sternocleidomastoid				group discussion, DOAP	skill assessment			
	Objectives				session				
	1. At the end of session the phase 1 student must be able to describe the								
	attachments of sternocleidomastoid correctly.								
	2. At the end of session the phase 1 student must be able to demonstrate								
	the attachments of sternocleidomastoid correctly.								
	3. At the end of session the phase 1 student must be able to describe the								
	nerve supply of sternocleidomastoid correctly.								
	4. At the end of session the phase 1 student must be able to demonstrate								
	1	1	I .		ı	1	1	1	1

	the nerve supply of sternocleidomastoid correctly.		1		1			
1	5. At the end of session the phase 1 student must be able to describe the		1 '	1				
1	relations of sternocleidomastoid correctly.		1 '	[
1	6. At the end of session the phase 1 student must be able to demonstrate			1				
1	the relations of sternocleidomastoid correctly.		1 '	[
1	7. At the end of session the phase 1 student must be able to explain the			1				
1	actions of sternocleidomastoid correctly.			1				
	8. At the end of session the phase 1 student must be able to demonstrate		1					
	the actions of sternocleidomastoid correctly.		1					
	9. At the end of session the phase 1 student must be able to discuss the		1					
	applied anatomy sternocleidomastoid correctly.							
AN29.2	Explain anatomical basis of Erb's & Klumpke's palsy	K	KH	Y	Lecture	Written	General Surgery	
	Objectives		1 '	[
	1. At the end of session the phase 1 student must be able to define the Erb's palsy accurately.		1 '					
	2. At the end of session the phase 1 student must be able to disuss the		1 '					
	anatomical basis of of Erb's palsy correctly.	ļ	1 '					
	3. At the end of session the phase 1 student must be able to define the			1				
	Klumpke's palsy accurately.			1				
	4. At the end of session the phase 1 student must be able to disuss the			1				
	anatomical basis of Klumpke's palsy correctly.			<u> </u>			 	
AN29.3	Explain anatomical basis of wry neck	K	KH	N	Lecture	Written	 General Surgery	
	Objectives		1 '	[
	1. At the end of session the phase 1 student should be able to define the		1 '	[
1	wry neck accurately. 2. At the end of session the phase 1 student should be able to explain the			1				
	anatomical basis of wry neck correctly.			1				
AN29.4	Describe & demonstrate attachments of 1) inferior belly of omohyoid,	K/S	SH	N	Lecture, Practical	Written/ Viva voce		
7.1.120.4	2)scalenus anterior, 3) scalenus medius & 4) levator scapulae	.,,	<u> </u>	'`	Locialo, i radiloai	111111111111111111111111111111111111111		
1	Objectives			1				
	1. At the end of session the phase 1 student should be able to describe							
1	the origin of inferior belly of omohyoid correctly			1				
	2. At the end of session the phase 1 student should be able to describe		1 '					
1	the insertion of inferior belly of omohyoid correctly			1				
1	3. At the end of session the phase 1 student should be able to explain			1				
	the action of inferior belly of omohyoid		1 '					
1	4. At the end of session the phase 1 student should be able to identify			1				
1	the origin of inferior belly of omohyoid correctly			1				
1	5. At the end of session the phase 1 student should be able to identify			1				
	the insertion of inferior belly of omohyoid correctly			1				
	6. At the end of session the phase 1 student should be able to		1 '					
1	demonstrate the origin of inferior belly of omohyoid correctly			1				
1	7. At the end of session the phase 1 student should be able to			1				
1	demonstrate the insertion of inferior belly of omohyoid correctly	,						

		_	_	
8. At the end of session the phase 1 student should be able to				
demonstrate the action of inferior belly of omohyoid accurately				
9. At the end of session the phase 1 student should be able to describe				
the origin of scalenus anterior correctly				
10. At the end of session the phase 1 student should be able to describe				
the insertion of scalenus anterior correctly				
11. At the end of session the phase 1 student should be able to explain				
the action of scalenus anterior correctly.				
12. At the end of session the phase 1 student should be able to identify				
the origin of scalenus anterior correctly				
13. At the end of session the phase 1 student should be able to identify				
the insertion of scalenus anterior correctly				
14. At the end of session the phase 1 student should be able to				
demonstrate the origin of scalenus anterior correctly				
15. At the end of session the phase 1 student should be able to				
demonstrate the insertion of scalenus anterior correctly				
16. At the end of session the phase 1 student should be able to				
demonstrate the action of scalenus anterior correctly.				
17. At the end of session the phase 1 student should be able to describe				
the origin of scalenus medius correctly				
18. At the end of session the phase 1 student should be able to describe				
the insertion of scalenus medius correctly				
19. At the end of session the phase 1 student should be able to explain				
the action of scalenus medius correctly.				
20. At the end of session the phase 1 student should be able to identify				
the origin of scalenus medius correctly				
21. At the end of session the phase 1 student should be able to identify				
the insertion of scalenus medius correctly				
22. At the end of session the phase 1 student should be able to				
demonstrate the origin of scalenus medius correctly				
23. At the end of session the phase 1 student should be able to				
demonstrate the insertion of scalenus medius correctly				
24. At the end of session the phase 1 student should be able to				
demonstrate the action of scalenus medius correctly				
25. At the end of session the phase 1 student should be able to describe				
the origin of levator scapulae correctly				
26. At the end of session the phase 1 student should be able to describe				
the insertion of levator scapulae correctly				
27. At the end of session the phase 1 student should be able to explain				
the action of levator scapulae correctly				
28. At the end of session the phase 1 student should be able to identify				
the origin of levator scapulae correctly				
29. At the end of session the phase 1 student should be able to identifythe			<u> </u>	

Topic:Cr	insertion of levator scapulae correctly 30. At the end of session the phase 1 student should be able to demonstrate the origin of levator scapulae correctly 31. At the end of session the phase 1 student should be able to demonstrate the insertion of levator scapulae correctly At the end of session the phase 1 student should be able to demonstrate the action of levator scapulae correctly.	ofcompete	encies:(5)		Number of p	rocedures for certifica	ation:(NIL)		
AN30.1	Describe the cranial fossae & identify related structures Objectives 1. At the end of session the phase 1 student must be able to differentiate the cranial fossae accurately. 2. At the end of session the phase 1 student must be able to describe the cranial fossae accurately 3. At the end of session the phase 1 student must be able to identify the cranial fossae accurately 4. At the end of session the phase 1 student must be able to present the cranial fossae accurately 5. At the end of session the phase 1 student must be able to identify the structures related to cranial fossae accurately.	K/S	SH	Y	group discussion, DOAP session	Written/ Viva voce/ skill assessment		General Surgery	
AN30.2	Describe & identify major foramina with structures passing through them Objectives 1. At the end of session the phase 1 student must be able to describe the major foramina accurately. 2. At the end of session the phase 1 student must be able to discuss the structures passing through major foraminas accurately 3. At the end of session the phase 1 student must be able to identify the major foramina correctly 4. At the end of session the phase 1 student must be able to show the structures passing through major foraminas accurately.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		General Surgery	
AN30.3	Describe & identify dural folds & dural venous sinuses Objectives 1. At the end of session the phase 1 student must be able to describe the dural folds accurately. 2. At the end of session the phase 1 student must be able to describe the intracranial venous sinuses accurately 3. At the end of session the phase 1 student must be able to discuss the applied anatomy of dural folds accurately. 4. At the end of session the phase 1 student must be able to discuss the applied anatomy of intracranial venous sinuses accurately 5. At the end of session the phase 1 student must be able to identify the location of dural folds accurately.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			

Number	6. At the end of session the phase 1 student must be able to identify the location of intracranial venous sinuses accurately. 7. At the end of session the phase 1 student must be able to present the location of dural folds accurately. 8. At the end of session the phase 1 student must be able to present the location of intracranial venous sinuses accurately COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
	The student should be able to	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify P	Integration	Integration
AN30.4	Describe clinical importance of dural venous sinuses Objectives 1. At the end of session the phase 1 student must be able to define the intracranial venous sinuses accurately. 2. At the end of session the phase 1 student must be able to describe clinical importance of dural venous sinuses accurately	К	КН	Y	Lecture	Written			
AN30.5	Explain effect of pituitary tumours on visual pathway Objectives 1. At the end of session the phase 1 student should be able to describe the visual pathway accurately. 2.At the end of session the phase 1 student should be able to explain effect of pituitary tumours on visual pathway accurately	К	КН	N	Lecture	Written		Ophthalmology	
Topic:Orl	Dit Number of compe	tencies:(5)		Nu	mber of procedures for c	ertification:(NIL)			
AN31.1	Describe & identify extra ocular muscles of eyeball Objectives 1. At the end of session the phase 1 student must be able to describe the attachments of extra ocular muscles of eyeball accurately. 2. At the end of session the phase 1 student must be able to discuss the action of extra ocular muscles of eyeball accurately. 3. At the end of session the phase 1 student must be able to identify the attachments of extra ocular muscles of eyeball accurately. 4. At the end of session the phase 1 student must be able to demonstrate the action of extra ocular muscles of eyeball accurately.		SH	Y	group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN31.2	 Describe & demonstrate nerves and vessels in the orbit Objectives At the end of session the phase 1 student must be able to describe the nerves in the orbit correctely. At the end of session the phase 1 student must be able to describe the vessels in the orbit correctly. At the end of session the phase 1 student must be able to discuss the nerve palsy in the orbit correctely. At the end of session the phase 1 student must be able to identify the 	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			

	norman in the arbit correctly		1	ī	T	T	ı	1	
	nerves in the orbit correctly								
	5. At the end of session the phase 1 student must be able to identify the								
	vessels in the orbit correctly								
	6. At the end of session the phase 1 student must be able to demonstrate								
	the course of nerves in the orbit correctly								
	7. At the end of session the phase 1 student must be able to demonstrate								
	the course of vessels in the orbit correctly								
AN31.3	Describe anatomical basis of Horner's syndrome	K	KH	N	Lecture	Written		Ophthalmology	
	Objectives								
	1. At the end of session the phase 1 student should be able to define the								
	Horner's syndrome accurately.								
	2. At the end of session the phase 1 student should be able to describe the								
	signs of horner's syndrome correctly.								
AN31.4	Enumerate components of lacrimal apparatus	K	KH	Υ	Lecture	Written			
	Objectives								
	1. At the end of session the phase 1 student must be able to Enumerate								
	components of lacrimal apparatus accurately.								
	2. At the end of session the phase 1 student must be able to describe the								
	passage of lachrymal fluid through lacrimal apparatus correctly.								
AN31.5	Explain the anatomical basis of oculomotor, trochlear and abducent	K	KH	Υ	Lecture	Written		Ophthalmology	
	nerve palsies along with strabismus							'	
	Objectives								
	1. At the end of session the phase 1 student must be able to describe the								
	course of occulomotor nerve correctly.								
	2. At the end of session the phase 1 student must be able to describe the								
	course of trochlear nerve correctly.								
	3. At the end of session the phase 1 student must be able to describe the								
	course of abducent nerve correctly.								
	4. At the end of session the phase 1 student must be able to describe the								
	palsies of occulomotor nerve along with strabismus correctly.								
	5. At the end of session the phase 1 student must be able to describe the								
	palsies of trochlear nerve along with strabismus correctly.								
	6. At the end of session the phase 1 student must be able to describe the								
	palsies of abducent nerve along with strabismus correctly								
	palotee of abadeent norte along that enablantial contesting						<u> </u>	<u> </u>	
Topic:Ant	eriorTriangle Number	ofcompete	encies:(2)		Number of p	procedures for certific	ation:(NIL)		
AN32.1	Describe boundaries and subdivisions of anterior triangle	K	KH	Υ	Practical, Lecture	Written/ Viva voce			
	Objectives	- •]					
	1. At the end of session the phase 1 student must be able to describe the								
	boundaries of anterior triangle correctly								
	2. At the end of session the phase 1 student must be able to describe the								
	subdivisions of anterior triangle correctly								
	3. At the end of session the phase 1 student must be able to describe the								
	contents of anterior triangle correctly								
	Contents of affection triangle correctly				1	1		<u> </u>	

				_	1			Т	_
AN32.2	Describe & demonstrate boundaries and contents of muscular,	K/S	SH	Y	Practical, Lecture, Small				
	carotid, digastric and submental triangles				group discussion, DOAP	skill assessment	1		
	Objectives				session		1		
	1. At the end of session the phase 1 student must be able to describe the								
	boundaries of muscular triangle correctly								
	2. At the end of session the phase 1 student must be able to describe the								
	boundaries of carotid triangle correctly								
	3. At the end of session the phase 1 student must be able to describe the								
	boundaries of digastric triangle correctly								
	4. At the end of session the phase 1 student must be able to describe the								
	boundaries of submental triangles correctly.								
	5. At the end of session the phase 1 student must be able to describe the								
	contents of muscular triangle correctly								
	6.At the end of session the phase 1 student must be able to describe the								
	contents of carotid triangle correctly								
	7.At the end of session the phase 1 student must be able to describe the								
	contents of digastric triangle correctly								
	8.At the end of session the phase 1 student must be able to describe the								
	contents of submental triangles correctly								
	9.At the end of session the phase 1 student must be able to perform under								
	supervision the dissection of muscular triangle correctly								
	10.At the end of session the phase 1 student must be able to perform								
	under supervision the dissection of carotid triangle correctly								
	11.At the end of session the phase 1 student must be able to perform								
	under supervision the dissection of digastric triangle correctly								
	12.At the end of session the phase 1 student must be able to perform								
	under supervision the dissection of submental triangles correctly								
	13.At the end of session the phase 1 student must be able to demonstrate								
	the dissection of muscular triangle correctly								
	10.At the end of session the phase 1 student must be able to demonstrate								
	the dissection of carotid triangle correctly								
	11.At the end of session the phase 1 student must be able demonstrate the								
	dissection of digastric triangle correctly								
	12.At the end of session the phase 1 student must be able to demonstrate								
	the dissection of submental triangles correctly								
	· · · · · · · · · · · · · · · · · · ·							L	
Topic: Te	mporal andInfratemporalregions Numbe	r ofcompe	tencies:(5)		Number of	procedures for certifi	cation:(NIL)	
AN33.1	Describe & demonstrate extent, boundaries and contents of temporal	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/			
	and infratemporal fossae]		group discussion, DOAP				
	Objectives				session	Cian accomment			
	1 At the end of session the phase 1 student must be able to discuss the				36331011				
	extent of temporal fossa correctly								
	2. At the end of session the phase 1 student must be able to discuss the								
	extent of infratemporal fossa correctly								
	3. At the end of session the phase 1 student must be able to describe the								
	boundaries of temporal fossa correctly								
	pour de la composar rocca con cony		I			L	<u>i</u>	L	

	4. At the end of session the phase 1 student must be able to describe the boundaries of infratemporal fossa correctly 5. At the end of session the phase 1 student must be able to describe the contents of temporal fossa correctly 6. At the end of session the phase 1 student must be able to describe the contents of infratemporal fossa correctly 7. At the end of session the phase 1 student must be able to demonstrate the extent of temporal fossa correctly 8. At the end of session the phase 1 student must be able to demonstrate the extent of infratemporal fossa correctly 9. At the end of session the phase 1 student must be able to perform under supervision the dissection of boundaries of temporal fossa correctly 10. At the end of session the phase 1 student must be able to perform undersupervision the dissection of boundaries of infratemporal fossa correctly. 11. At the end of session the phase 1 student must be able to identify the contents of temporal fossa correctly 12. At the end of session the phase 1 student must be able to identify the contents of infratemporal fossa correctly 13. At the end of session the phase 1 student must be able to demonstrate								
	the boundaries of temporal fossa correctly								
	14. At the end of session the phase 1 student must be able to demonstrate the boundaries of infratemporal fossa correctly								
	15.At the end of session the phase 1 student must be able to demonstrate								
	the contents of temporal fossa correctly 16. At the end of session the phase 1 student must be able to demonstrate								
	the contents of infratemporal fossa correctly								
Number	COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
	The student should be able to	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify P	Integration	Integration
AN33.2	Describe & demonstrate attachments, direction of fibres, nerve supply and actions of muscles of mastication Objectives 1. At the end of session the phase 1 student must be able to describe the origion of muscles of mastication correctly 2. At the end of session the phase 1 student must be able to describe the insertion of muscles of mastication correctly 3. At the end of session the phase 1 student must be able to discuss the direction of fibers of muscles of mastication correctly 4. At the end of session the phase 1 student must be able to describe the nerve supply of muscles of mastication correctly 5. At the end of session the phase 1 student must be able to discuss the action of muscles of mastication correctly 6. At the end of session the phase 1 student must be able to perform under supervision the dissection of attachments of muscles of	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		General Surgery	

	mastication correctly 7. At the end of session the phase 1 student must be able to analyze the direction of fibers of muscles of mastication correctly. 8. At the end of session the phase 1 student must be able to identify the nerve supply of muscles of mastication correctly 9. At the end of session the phase 1 student must be able to perform under supervision the action of muscles of mastication correctly 10. At the end of session the phase 1 student must be able to demonstrate muscles of mastication correctly 11. At the end of session the phase 1 student must be able to demonstrate the direction of fibers of muscles of mastication correctly. 12. At the end of session the phase 1 student must be able to demonstrate the nerve supply of muscles of mastication correctly 13. At the end of session the phase 1 student must be able to demonstrate the action of muscles of mastication correctly								
AN33.3	Describe & demonstrate articulating surface, type & movements of temporomandibular joint Objectives 1. At the end of session the phase 1 student must be able to discuss the articulating surface of temporomandibular joint accurately 2. At the end of session the phase 1 student must be able to describe the type of temporomandibular joint correctly 3. At the end of session the phase 1 student must be able to describe the movements of temporomandibular joint correctly 4. At the end of session the phase 1 student must be able to perform under supervision the dissection of temporomandibular joint correctly. 5. At the end of session the phase 1 student must be able to demonstrate the movements of temporomandibular joint correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN33.4	Explain the clinical significance of pterygoid venous plexus Objectives 1. At the end of session the phase 1 student must be able to describe the pterygoid venous plexus accurately 2. At the end of session the phase 1 student must be able to explain the clinical significance of pterygoid venous accurately.	К	KH	Y	Lecture	Written		General Surgery	
AN33.5	Describe the features of dislocation of temporomandibular joint Objectives 1. At the end of session the phase 1 student should be able to describe the features of temporomandinbular joint accurately 2. At the end of session the phase 1 student should be able to describe the features of dislocation of temporomandinbular joint accurately	К	КН	N	Lecture	Written		General Surgery	
Topic:Sub	mandibularregion Number	ofcompete	ncies:(2)		Number of p	rocedures for certifica	ation:(NIL)		

AN34.1	Describe & demonstrate the morphology, relations and nerve supply of submandibular salivary gland & submandibular ganglion Objectives 1. At the end of session the phase 1 student must be able to describe the morphology of submandibular gland accurately 2. At the end of session the phase 1 student must be able to describe the relations of submandibular gland accurately 3. At the end of session the phase 1 student must be able to describe the nerve supply of submandibular gland accurately 4. At the end of session the phase 1 student must be able to describe the morphology of submandibular ganglion accurately 5. At the end of session the phase 1 student must be able to describe the relations of submandibular ganglion accurately 6. At the end of session the phase 1 student must be able to describe the nerve supply of submandibular ganglion accurately 7. At the end of session the phase 1 student must be able to perform under supervision the dissection of submandibular gland accurately 8. At the end of session the phase 1 student must be able to perform under supervision the dissection of submandibular ganglion accurately 9. At the end of session the phase 1 student must be able to demonstrate the d submandibular gland accurately 10. At the end of session the phase 1 student must be able to	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		General Surgery	
AN34.2	Describe the basis of formation of submandibular stones Objectives 1. At the end of session the phase 1 student should be able to describe the basis of formation of submandibular stones 2. At the end of session the phase 1 student should be able to describe the applied anatomy of submandibular stones	К	КН	N	Lecture	Written		General Surgery	
Topic: De	ep structures intheneck Numbe	r ofcompet	tencies:(10))	Number of	f procedures for certifi	ication:(NIL))	
AN35.1	Describe the parts, extent, attachments, modifications of deep cervical fascia Objectives 1. At the end of session the phase 1 student must be able to describe the parts of deep cervical fascia 2. At the end of session the phase 1 student must be able to describe the extent of deep cervical fascia 3. At the end of session the phase 1 student must be able to describe the attachments of deep cervical fascia 4. At the end of session the phase 1 student must be able to describe the modifications of deep cervical fascia	К	КН	Y	Lecture	Written			

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	5. At the end of session the phase 1 student must be able to describe the							
	clinical significance of deep cervical fascia							
AN35.2	Describe & demonstrate location, parts, borders, surfaces, relations	K/S	SH	Practical, Lecture, Small	Written/ Viva voce/		General Surgery	
	& blood supply of thyroid gland			group discussion, DOAP	skill assessment			
	Objectives			session				
	At the end of session the phase 1 student must be able to							
	describe the location of thyroid gland accurately							
	At the end of session the phase 1 student must be able to							
	describe the parts of thyroid gland accurately							
	3. At the end of session the phase 1 student must be able to							
	describe the borders of thyroid gland accurately							
	At the end of session the phase 1 student must be able to							
	describe the surfaces of thyroid gland accurately							
	5. At the end of session the phase 1 student must be able to							
	describe the relations of thyroid gland accurately					1		
	6. At the end of session the phase 1 student must be able to							
	describe the blood supply of thyroid gland accurately							
	7. At the end of session the phase 1 student must be able to identify							
	the location of thyroid gland accurately							
	8. At the end of session the phase 1 student must be able to identify							
	the parts of thyroid gland accurately							
	9. At the end of session the phase 1 student must be able to identify							
	the borders of thyroid gland accurately							
	10. At the end of session the phase 1 student must be able to identify							
	the surfaces of thyroid gland accurately							
	11. At the end of session the phase 1 student must be able to identify							
	the relations of thyroid gland accurately							
	12. At the end of session the phase 1 student must be able to identify							
	the blood supply of thyroid gland accurately							
	13. At the end of session the phase 1 student must be able to							
	demonstrate the parts of thyroid gland accurately							
	14. At the end of session the phase 1 student must be able to							
	demonstrate the borders of thyroid gland accurately							
	15. At the end of session the phase 1 student must be able to							
	demonstrate the surfaces of thyroid gland accurately							
	16. At the end of session the phase 1 student must be able to							
	demonstrate the relations of thyroid gland accurately							
	17. At the end of session the phase 1 student must be able to							
	demonstrate the blood supply of thyroid gland accurately							
AN35.3	Demonstrate & describe the origin, parts, course & branches	K/S	SH	Practical, Lecture, Small				
	subclavian artery			group discussion, DOAP	skill assessment			
	Objectives			session				
	At the end of session the phase 1 student must be able to							
	describe the origin of subclavian artery accurately							
	At the end of session the phase 1 student must be able to							

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		describe the parts of subclavian artery accurately						
	3.	At the end of session the phase 1 student must be able to						
		describe the course of subclavian artery accurately						
	4.	At the end of session the phase 1 student must be able to						
		describe the branches of subclavian artery accurately						
	5.	At the end of session the phase 1 student must be able to						
		describe the applied anatomy of subclavian artery accurately						
	6.	At the end of session the phase 1 student must be able to identify						
		the origin of subclavian artery accurately						
	7.	At the end of session the phase 1 student must be able to identify						
		the parts of subclavian artery accurately						
	8.	At the end of session the phase 1 student must be able to identify						
	0.	the course of subclavian artery accurately						
	9	At the end of session the phase 1 student must be able to identify						
	0.	the branches of subclavian artery accurately						
	10	. At the end of session the phase 1 student must be able to						
	10.	demonstrate the origin of subclavian artery accurately						
	11	. At the end of session the phase 1 student must be able to						
		demonstrate the parts of subclavian artery accurately						
	12	. At the end of session the phase 1 student must be able to						
	12.	demonstrate the course of subclavian artery accurately						
	12	. At the end of session the phase 1 student must be able to						
	13.	demonstrate the branches of subclavian artery accurately						
ANIOE 4			17/0	011	 D (; 1 1 1 0 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
AN35.4		be & demonstrate origin, course, relations, tributaries and	K/S	SH		Written/ Viva voce/		
AN35.4	termina	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins	K/S	SH	group discussion, DOAP	Written/ Viva voce/ skill assessment		
AN35.4	termina Object	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives	K/S	SH				
AN35.4	termina Object	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the termination of internal jugular vein accurately	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4. 5.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the termination of internal jugular vein accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4. 5.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the termination of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the origin of brachiocephalic veins accurately	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4. 5. 6.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the termination of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the origin of brachiocephalic veins accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4. 5. 6.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the termination of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the origin of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the course of brachiocephalic veins accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4. 5. 6. 7.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the termination of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the origin of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the course of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the relations of brachiocephalic veins accurately	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4. 5. 6. 7.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the termination of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the origin of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the course of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the relations of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the relations of brachiocephalic veins accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4. 5. 6. 7. 8.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the termination of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the origin of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the course of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the relations of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the relations of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the relations of brachiocephalic veins accurately	K/S	SH	group discussion, DOAP			
AN35.4	termina Object 1. 2. 3. 4. 5. 6. 7. 8.	be & demonstrate origin, course, relations, tributaries and ation of internal jugular & brachiocephalic veins ives At the end of session the phase 1 student must be able to describe the origin of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the course of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the relations of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the tributaries of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the termination of internal jugular vein accurately At the end of session the phase 1 student must be able to describe the origin of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the course of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the relations of brachiocephalic veins accurately At the end of session the phase 1 student must be able to describe the relations of brachiocephalic veins accurately At the end of session the phase 1 student must be able to	K/S	SH	group discussion, DOAP			

11. At the end of session the phase 1 student must be able to identify the origin of internal jugular vein accurately 12. At the end of session the phase 1 student must be able to identify the course of internal jugular vein accurately 13. At the end of session the phase 1 student must be able to identify the relations of internal jugular vein accurately 14. At the end of session the phase 1 student must be able to identify
12. At the end of session the phase 1 student must be able to identify the course of internal jugular vein accurately 13. At the end of session the phase 1 student must be able to identify the relations of internal jugular vein accurately
the course of internal jugular vein accurately 13. At the end of session the phase 1 student must be able to identify the relations of internal jugular vein accurately
the course of internal jugular vein accurately 13. At the end of session the phase 1 student must be able to identify the relations of internal jugular vein accurately
13. At the end of session the phase 1 student must be able to identify the relations of internal jugular vein accurately
the relations of internal jugular vein accurately
the tributaries of internal jugular vein accurately
15. At the end of session the phase 1 student must be able to identify
the termination of internal jugular vein accurately
16. At the end of session the phase 1 student must be able to identify
the origin of brachiocephalic veins accurately
17. At the end of session the phase 1 student must be able to identify
the course of brachiocephalic veins accurately
18. At the end of session the phase 1 student must be able to identify
the relations of brachiocephalic veins accurately
19. At the end of session the phase 1 student must be able to identify
the tributaries of brachiocephalic veins accurately
20. At the end of session the phase 1 student must be able to identify
the termination of brachiocephalic veins accurately
21. At the end of session the phase 1 student must be able to
demonstrate the origin of internal jugular vein accurately
22. At the end of session the phase 1 student must be able to
demonstrate the course of internal jugular vein accurately
23. At the end of session the phase 1 student must be able to
demonstrate the relations of internal jugular vein accurately
24. At the end of session the phase 1 student must be able to
demonstrate the tributaries of internal jugular vein accurately
25. At the end of session the phase 1 student must be able to
demonstrate the termination of internal jugular vein accurately
26. At the end of session the phase 1 student must be able to
demonstrate the origin of brachiocephalic veins accurately
27. At the end of session the phase 1 student must be able to
demonstrate the course of brachiocephalic veins accurately
28. At the end of session the phase 1 student must be able to
demonstrate the relations of brachiocephalic veins accurately
29. At the end of session the phase 1 student must be able to
demonstrate the tributaries of brachiocephalic veins accurately
30. At the end of session the phase 1 student must be able to
demonstrate the termination of brachiocephalic veins accurately

Number	COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
	The student should be able to	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify P	Integration	Integration
AN35.5	Describe and demonstrate extent, drainage & applied anatomy of cervical lymph nodes Objectives 1.At the end of session the phase 1 student must be able to describe the extent of cervical lymph nodes accurately 2.At the end of session the phase 1 student must be able to describe the drainage of cervical lymph nodes accurately 3.At the end of session the phase 1 student must be able to describe the applied anatomy of cervical lymph nodes accurately 4.At the end of session the phase 1 student must be able to demonstrate the extent of cervical lymph nodes accurately	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		General Surgery	
AN35.6	Describe and demonstrate the extent, formation, relation & branches of cervical sympathetic chain Objectives 1. At the end of session the phase 1 student must be able to describe the extent of cervical sympathetic chain correctly 2. At the end of session the phase 1 student must be able to describe the formation of cervical sympathetic chain correctly 3. At the end of session the phase 1 student must be able to describe the relation of cervical sympathetic chain correctly 4. At the end of session the phase 1 student must be able to describe the branches of cervical sympathetic chain correctly 5. At the end of session the phase 1 student must be able to demonstrate the extent of cervical sympathetic chain correctly 6. At the end of session the phase 1 student must be able to demonstrate the formation of cervical sympathetic chain correctly 7. At the end of session the phase 1 student must be able to demonstrate the relation of cervical sympathetic chain correctly 8. At the end of session the phase 1 student must be able to demonstrate the branches of cervical sympathetic chain correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN35.7	Describe the course and branches of IX, X, XI & XII nerve in the neck Objectives 1. At the end of session the phase 1 student must be able to describe the course of IX cranial nerve in neck correctly 2. At the end of session the phase 1 student must be able to describe the course of X cranial nerve in neck correctly 3. At the end of session the phase 1 student must be able to describe the course of XI cranial nerve in neck correctly 4. At the end of session the phase 1 student must be able to describe the course of XII cranial nerve in neck correctly1. 5. At the end of session the phase 1 student must be able to demonstrate the branches of IX cranial nerve in neck correctly	К	КН	Y	Lecture	Written			

	T				ı		,		
	6.At the end of session the phase 1 student must be able to								
	demonstrate the branches of X cranial nerve in neck correctly								
	7.At the end of session the phase 1 student must be able to demonstrate								
	the branches of XI cranial nerve in neck correctly								
	8.At the end of session the phase 1 student must be able to demonstrate								
	the branches of XII cranial nerve in neck correctly.								
	9.At the end of session the phase 1 student must be able to analyze the								
	applied anatomy of IX cranial nerve in neck correctly								
	10At the end of session the phase 1 student must be able to								
	of X cranial nerve in neck analyze the applied anatomy correctly								
	11.At the end of session the phase 1 student must be able to analyze the								
	applied anatomy of XI cranial nerve in neck correctly								
	12.At the end of session the phase 1 student must be able to analyze the								
	applied anatomy of XII cranial nerve in neck correctly								
AN35.8	Describe the anatomically relevant clinical features of Thyroid	K	KH	N	Lecture	Written		General Surgery	
	swellings	-							
	Objectives								
	1.At the end of session the phase 1 student should be able to discuss the								
	features of thyroid gland correctly								
	2.At the end of session the phase 1 student should be able to describe the								
	anatomically relevant clinical features of Thyroid swellings correctly								
AN35.9	Describe the clinical features of compression of subclavian artery	K	KH	N	Lecture	Written		General Surgery	
	and lower trunk of brachial plexus by cervical rib]	
	Objectives								
	1.At the end of session the phase 1 student should be able to discuss the								
	course of subclavian artery accurately								
	2.At the end of session the phase 1 student should be able to describe the								
	anatomy of lower trunk of brachial plexus correctly								
	3.At the end of session the phase 1 student should be able to describe the								
	clinical features of compression of subclavian artery by cervical rib								
	correctly								
	4.At the end of session the phase 1 student should be able to describe the								
	clinical features of compression of lower trunk of brachial plexus by								
	cervical rib correctly								
AN35.10	Describe the fascial spaces of neck	K	KH	N	Lecture	Written			
	Objectives	• •							
	1.At the end of session the phase 1 student should be able to describe the								
	fascial spaces of neckaccurately								
	2.At the end of session the phase 1 student should be able to discuss								
	clinical anatomy of the fascial spaces of neckaccurately								
						•			
Topic: Mo	uth, Pharynx&Palate Number	ofcompete	encies:(5)		Number	r of procedures for certific	cation:(NIL)		
AN36.1	Describe the 1) morphology, relations, blood supply and applied	K	KH	Υ	Lecture	Written		ENT	
	anatomy of palatine tonsil 2) composition of soft palate								
	Objectives								
			<u> </u>		<u> </u>	<u> </u>			

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	1. At the end of session the phase 1 student must be able to describe							
	the morphologyof softpalateaccurately.							
	2. At the end of session the phase 1 student must be able to describe							
	the relationsof softpalate accurately.							
	3. At the end of session the phase 1 student must be able to describe							
	the blood supplyof softpalate accurately.							
	4. At the end of session the phase 1 student must be able to describe							
	the applied anatomyof softpalate accurately.							
	5. At the end of session the phase 1 student must be able to describe							
	the compositionof softpalateaccurately.							
AN36.2	Describe the components and functions of Waldeyer's lymphatic ring	K	KH	Υ	Lecture	Written	ENT	
AN30.2	Objectives	IX.	KH	1	Lecture	VVIILLEIT	LINI	
	1. At the end of session the phase 1 student must be able to describe the structure of Waldeyer's lymphatic ring accurately.							
	2.At the end of session the phase 1 student must be able to describe the							
	functions of Waldeyer's lymphatic ring accurately.							
	3.At the end of session the phase 1 student must be able to describe the							
	components of Waldeyer's lymphatic ring accurately							
AN36.3	Describe the boundaries and clinical significance of pyriform fossa	K	KH	N	Lecture	Written	ENT	
	Objectives							
	1. At the end of session the phase 1 student should be able to describe							
	the location of pyriform fossa accurately							
	2. At the end of session the phase 1 student should be able to describe							
	the boundaries of pyriform fossa accurately.							
	3. At the end of session the phase 1 student should be able to clinical							
	significance the boundaries of pyriform fossa accurately							
AN36.4	Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids	K	KH	Ν	Lecture	Written	ENT	
	and peri-tonsillar abscess							
	Objectives							
	At the end of session the phase 1 student should be able to							
	describe the causes of tonsillitis accurately.							
	2. At the end of session the phase 1 student should be able to define							
	the tonsillectomy accurately.							
	3. At the end of session the phase 1 student should be able to							
	describe the causes of adenoids accurately.							
	4. At the end of session the phase 1 student should be able to							
	describe the causes of peri-tonsillar abcess accurately.							
	5. At the end of session the phase 1 student should be able to							
1	describe the symptoms of tonsillitis accurately.							
1	6. At the end of session the phase 1 student should be able to							
	describe the anatomical basis of tonsillectomy accurately.							
1	7. At the end of session the phase 1 student should be able to							
1	describe the symptoms of adenoids accurately.							
	8. At the end of session the phase 1 student should be able to							
1	describe the symptoms of peri-tonsillar abcess accurately.							
<u> </u>	accombe the symptoms of pentitonsillal abcess accurately.					<u> </u>		

AN36.5	Describe the clinical significance of Killian's dehiscence Objectives 1. At the end of session the phase 1 student should be able to define the boundaries Killian's dehiscence accurately. 2. At the end of session the phase 1 student should be able to describe the clinical significance of Killian's dehiscence accurately. vityofNose Number	K	KH	N	Lecture	Written	cation:(NII)	ENT	
AN37.1	Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply Objectives 1. At the end of session the phase 1 student must be able to describe the features of nasal septum accurately 2. At the end of session the phase 1 student must be able to describe the lateral wall of nose of accurately 3. At the end of session the phase 1 student must be able to describe the blood supply of nasal septum accurately 4. At the end of session the phase 1 student must be able to describe the nerve supply of nasal septum accurately 5. At the end of session the phase 1 student must be able to	K/S	SH	Y			cation:(NIL)	ENT	
Number	describe the deviation of nasal septum accurately. 6. At the end of session the phase 1 student must be able to describe the applied anatomy of lateral wall of nose of accurately 7. At the end of session the phase 1 student must be able to demonstrate the bony features of nasal septum accurately 8. At the end of session the phase 1 student must be able to demonstrate the bones of lateral wall of nose of accurately COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration
AN37.2	Describe location and functional anatomy of paranasal sinuses Objectives 1. At the end of session the phase 1 student must be able to describe the location of paranasal sinuses accurately 2. At the end of session the phase 1 student must be able to describe the structure of paranasal sinuses accurately 3. At the end of session the phase 1 student must be able to describe the functional anatomy of paranasal sinuses accurately 4. At the end of session the phase 1 student must be able to enumerate the paranasal sinuses accurately	К	КН	Y	Lecture	Written	•	ENT	
AN37.3	Describe anatomical basis of sinusitis & maxillary sinus tumours Objectives 1. At the end of session the phase 1 student should be able to describe the symptoms of sinusitis accurately	К	KH	N	Lecture	Written		ENT	

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	2. At the end of session the phase 1 student should be able to								
	describe the symptoms of maxillary sinus tumours accurately								
	3. At the end of session the phase 1 student should be able to								
	describe the causes of sinusitis accurately								
	4. At the end of session the phase 1 student should be able to								
	describe the causes of maxillary sinus tumours accurately								
Topic:La	ynx Number o	fcompete	ncies:(3)		Number of pr	ocedures for certifica	ation:(NIL)		
AN38.1	Describe the morphology, identify structure of the wall, nerve supply,	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/		ENT	
	blood supply and actions of intrinsic and extrinsic muscles of the				group discussion, DOAP	skill assessment			
	larynx Objectives				session				
	1. At the end of session the phase 1 student must be able to describe								
	the morphology of intrinsic muscles of larynx accurately								
	2. At the end of session the phase 1 student must be able to describe								
	the nerve supply of intrinsic muscles of larynx accurately								
	3. At the end of session the phase 1 student must be able to describe								
	the blood supply of intrinsic muscles of larynx accurately								
	4. At the end of session the phase 1 student must be able to describe								
	the actions of intrinsic muscles of larynx accurately								
	5. At the end of session the phase 1 student must be able to describe								
	the morphology of extrinsic muscles of larynx accurately								
	6. At the end of session the phase 1 student must be able to describe								
	the nerve supply of extrinsic muscles of larynx accurately								
	7. At the end of session the phase 1 student must be able to describe								
	the blood supply of extrinsic muscles of larynx accurately								
	8. At the end of session the phase 1 student must be able to describe								
	the actions of extrinsic muscles of larynx accurately								
	9. At the end of session the phase 1 student must be able to perform								
	under supervision the dissection of intrinsic muscles of larynx								
	accurately								
	10. At the end of session the phase 1 student must be able to perform								
	under supervision the dissection of extrinsic muscles of larynx								
	accurately								
	11. At the end of session the phase 1 student must be able to								
	demonstrate the intrinsic muscles of larynx accurately								
	12. At the end of session the phase 1 student must be able to								
ANIOOO	demonstrate the extrinsic muscles of larynx accurately	IZ.	IZI I	N I	Lastura	 \\/rittop		 	
AN38.2	Describe the anatomical aspects of laryngitis Objectives	K	KH	N	Lecture	Written		ENT	
	1. At the end of session the phase 1 student should be able to define								
	the laryngitis accurately								
	2. At the end of session the phase 1 student should be able to define								
	the clinical aspect of laryngitis accurately								
	and difficult deposit of far yrights decurately			l	1		l		

AN38.3	Describe anatomical basis of recurrent laryngeal nerve injury Objectives	K	KH	N	Lecture	Written		ENT	
	1. At the end of session the phase 1 student should be able to								
	describe the anatomic landmarks in thyroid surgey accurately								
	2. At the end of session the phase 1 student should be able to								
	describe the symptoms of recurrent laryngeal nerve injury								
	accurately								
Topic:To	ngue Number	ofcompete	encies:(2)		Number of	procedures for certifica	ation:(NIL)		
AN39.1	Describe & demonstrate the morphology, nerve supply,	K/S	SH	Y	Practical,	Written/ Viva voce/			
	embryological basis of nerve supply, blood supply, lymphatic				Lecture, Small group	skill assessment			
	drainage and actions of extrinsic and intrinsic muscles of tongue Objectives				discussion, DOAP session				
	1. At the end of session the phase 1 student must be able to describe				30331011				
	the morphology of intrinsic muscles of tongue accurately								
	2. At the end of session the phase 1 student must be able to describe								
	the nerve supply of intrinsic muscles of tongue accurately								
	3. At the end of session the phase 1 student must be able to describe								
	the embryological basis of nerve supply of intrinsic muscles of								
	tongue accurately								
	4. At the end of session the phase 1 student must be able to describe								
	the blood supply of intrinsic muscles of tongue accurately								
	5. At the end of session the phase 1 student must be able to describe								
	the lymphatic drainage of intrinsic muscles of tongue accurately								
	6. At the end of session the phase 1 student must be able to describe								
	the action of intrinsic muscles of tongue accurately7. At the end of session the phase 1 student must be able to describe								
	the morphology of extrinsic muscles of tongue accurately								
	8. At the end of session the phase 1 student must be able to describe								
	the nerve supply of extrinsic muscles of tongue accurately								
	9. At the end of session the phase 1 student must be able to describe								
	the embryological basis of nerve supply of extrinsic muscles of								
	tongue accurately								
	10. At the end of session the phase 1 student must be able to describe								
	the blood supply of extrinsic muscles of tongue accurately								
	11. At the end of session the phase 1 student must be able to describe								
	the lymphatic drainage of extrinsic muscles of tongue accurately								
	12. At the end of session the phase 1 student must be able to describe								
	the action of extrinsic muscles of tongue accurately								
	13. At the end of session the phase 1 student must be able to identify								
	intrinsic muscles of tongue accurately								
	14. At the end of session the phase 1 student must be able to identify								
	the nerve supply of intrinsic muscles of tongue accurately								

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	15. At the end of session the phase 1 student must be able to present								
	the embryological basis of nerve supply of intrinsic muscles of								
	tongue accurately								
	16. At the end of session the phase 1 student must be able to show the								
	blood supply of intrinsic muscles of tongue accurately								
	17. At the end of session the phase 1 student must be able to show the								
	lymphatic drainage of intrinsic muscles of tongue accurately								
	18. At the end of session the phase 1 student must be able to								
	demonstrate the action of intrinsic muscles of tongue accurately								
	19. At the end of session the phase 1 student must be able to identify								
	extrinsic muscles of tongue accurately								
	20. At the end of session the phase 1 student must be able to identify								
	the nerve supply of extrinsic muscles of tongue accurately								
	21. At the end of session the phase 1 student must be able to present								
	the embryological basis of nerve supply of extrinsic muscles of								
	tongue accurately 22. At the end of session the phase 1 student must be able to show the								
	blood supply of extrinsic muscles of tongue accurately								
	23. At the end of session the phase 1 student must be able to show the								
	lymphatic drainage of extrinsic muscles of tongue accurately								
	24. At the end of session the phase 1 student must be able to								
	demonstrate the action of extrinsic muscles of tongue accurately								
AN39.2	Explain the anatomical basis of hypoglossal nerve palsy	K	KH	N	Lecture	Written		ENT	
7 " 100.2	Objectives	.,		'`		TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT			
	1. At the end of session the phase 1 student should be able to								
	describe the function of hypoglossal nerve accurately								
	2. At the end of session the phase 1 student should be able to								
	describe the characteristic clinical manifestation of hypoglossal								
	nerve palsy accurately								
Topic: Or	gans of hearingandequilibrium Number	r ofcompet	encies:(5)		Number of	procedures for certifi	ication:(NIL))	
		-							
AN40.1	Describe & identify the parts, blood supply and nerve supply of	K/S	SH	Y	Practical, Lecture, Small			ENT	
	external ear Objectives					skill assessment			
	At the end of session the phase 1 student must be able to describe				session				
	the parts of external ear accurately								
	2. At the end of session the phase 1 student must be able to describe								
	the blood supply of external ear accurately 3. At the end of session the phase 1 student must be able to describe								
	the nerve supply of external ear accurately								
	4. At the end of session the phase 1 student must be able to describe								
	the applied anatomy of external ear accurately								
	5. At the end of session the phase 1 student must be able to describe								
<u> </u>	o. At the end of session the phase I student must be able to describe					l	<u> </u>	l	

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	the nerve supply of external ear accurately							
	6. At the end of session the phase 1 student must be able to identify the							
	position of external ear in cranial fossa accurately							
	7. At the end of session the phase 1 student must be able to							
	demonstrate the parts of external ear accurately							
	8. At the end of session the phase 1 student must be able to							
	demonstrate the blood supply of external ear accurately							
	9. At the end of session the phase 1 student must be able to							
	demonstrate the nerve supply of external ear accurately							
AN40.2	Describe & demonstrate the boundaries, contents, relations and	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/	ENT	
	functional anatomy of middle ear and auditory tube				group discussion, DOAP			
	Objectives				session			
	At the end of session the phase 1 student must be able to describe							
	the boundaries of middle ear accurately							
	2. At the end of session the phase 1 student must be able to describe							
	the contents of middle ear accurately							
	3. At the end of session the phase 1 student must be able to describe							
	the relations of middle ear accurately							
	4. At the end of session the phase 1 student must be able to describe							
	the functional anatomy of middle ear accurately 5. At the end of session the phase 1 student must be able to describe							
	the boundaries of auditory tube accurately							
	6. At the end of session the phase 1 student must be able to describe							
	the contents of auditory tube accurately							
	7. At the end of session the phase 1 student must be able to describe							
	the relations of auditory tube accurately							
	8. At the end of session the phase 1 student must be able to describe							
	the functional anatomy of auditory tube accurately							
	9. At the end of session the phase 1 student must be able to demonstrate							
	the boundaries of middle ear accurately							
	10. At the end of session the phase 1 student must be able to demonstrate							
	the contents of middle ear accurately							
	11. At the end of session the phase 1 student must be able to demonstrate							
	the relations of middle ear accurately							
	12. At the end of session the phase 1 student must be able to identify the middle ear cavity in cranial fossa accurately							
	13. At the end of session the phase 1 student must be able to demonstrate							
	the boundaries of auditory tube accurately							
	14. At the end of session the phase 1 student must be able to demonstrate							
	the contents of auditory tube accurately							
	15. At the end of session the phase 1 student must be able to demonstrate							
	the relations of auditory tube accurately							
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AN40.3	Describe the features of internal ear Objectives 1. At the end of session the phase 1 student should be able to describe the features of internal ear accurately 2. At the end of session the phase 1 student should be able to describe the structure of internal ear accurately	К	КН	N	Lecture	Written		ENT	
AN40.4	 Explain anatomical basis of otitis externa and otitis media Objectives 1. At the end of session the phase 1 student should be able to define theotitis externacorrectly. 2. At the end of session the phase 1 student should be able to define theotitis mediacorrectly 3. At the end of session the phase 1 student should be able to describe theapplied anatomyotitis externacorrectly. 4. At the end of session the phase 1 student should be able to describe the applied anatomy ofotitis mediacorrectly 	К	КН	N	Lecture	Written		ENT	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
AN40.5	Explain anatomical basis of myringotomy Objectives At the end of session the phase 1 student should be able to define themyringotomycorrectly At the end of session the phase 1 student should be able to explain anatomical basis of myringotomycorrectly	К	КН	N	Lecture	Written		ENT	
Topic:Eye	ball Number of	ofcompeter	ncies:(3)		Number of pr	ocedures for certifica	ation:(NIL)		
AN41.1	Describe & demonstrate parts and layers of eyeball Objectives 1. At the end of session the phase 1 student must be able to describe the part of eyeball correctly 2. At the end of session the phase 1 student must be able to describe the layers of eyeball correctly 3. At the end of session the phase 1 student must be able to describe the function of eyeball correctly 4. At the end of session the phase 1 student must be able to perform under supervision the dissection of eye ball the correctly 5. At the end of session the phase 1 student must be able to demonstrate the part of eye ball the correctly		SH	Y	group discussion, DOAP session	Written/ Viva voce/ skill assessment		Ophthalmology	
AN41.2	Describe the anatomical aspects of cataract, glaucoma & central retinal artery occlusion Objectives 1. At the end of session the phase 1 student should be able to define	К	KH	N	Lecture	Written		Ophthalmology	

	thecataractcorrectly. 2. At the end of session the phase 1 student should be able to define theglaucomacorrectly 3. At the end of session the phase 1 student should be able to describe the anatomy of thecentral retinal arterycorrectly 4. At the end of session the phase 1 student should be able to describe the anatomical aspects of cataractcorrectly. 5. At the end of session the phase 1 student should be able to describe the anatomical aspects of glaucomacorrectly 6. At the end of session the phase 1 student should be able to describe the anatomical aspects of thecentral retinal artery occlisioncorrectly								
AN41.3	Describe the position, nerve supply and actions of intraocular muscles Objectives 1. At the end of session the phase 1 student should be able to describe the position of intraocular musclescorrectly. 2. At the end of session the phase 1 student should be able to describe the nerve supply of intraocular musclescorrectly 3. At the end of session the phase 1 student should be able to describe the actions of intraocular musclescorrectly 4. At the end of session the phase 1 student should be able to discuss the applied anatomy of intraocular musclescorrectly	К	КН	N	Lecture	Written		Ophthalmology	
Topic:Bac	kRegion Number	ofcompete	ncies:(3)		Number of p	rocedures for certifica	ation:(NIL)		
AN42.1	Describe the contents of the vertebral canal Objectives 1. At the end of session the phase 1 student must be able to discuss the	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP	Written/ Viva voce/ skill assessment			
AN42.2	 anatomy of the vertebral canalcorrectly At the end of session the phase 1 student must be able to describe the contents of the vertebral canalcorrectly At the end of session the phase 1 student must be able to identify the vertebracorrectly At the end of session the phase 1 student must be able to demonstrate the contents of the vertebral canalcorrectly Describe & demonstrate the boundaries and contents of Suboccipital 		SH	Y	session Practical, Lecture, Small	Written/ Viva voce/			

	To Akkha and afacasian the mhass of skilling account to a thirty to the				Γ	Γ			
	5. At the end of session the phase 1 student must be able to demonstrate								
	the boundaries of suboccipital trianglecorrectly 6. At the end of session the phase 1 student must be able to demonstrate								
	6. At the end of session the phase 1 student must be able to demonstrate the contents of suboccipital trianglecorrectly								
	7. At the end of session the phase 1 student must be able to identify the								
	muscles of suboccipital trianglecorrectly								
AN42.3	Describe the position, direction of fibres, relations, nerve supply,	K	KH	N	Lecture	Written			
AN42.5	actions of semispinalis capitis and splenius capitis	IX	IXII	'\	Lecture	VVIIILEII			
	Objectives								
	1. At the end of session the phase 1 student should be able to describe								
	the position of semispinalis capitiscorrectly.								
	2. At the end of session the phase 1 student should be able to describe								
	the direction of fibres of semispinalis capitiscorrectly								
	3. At the end of session the phase 1 student should be able to describe								
	the relations of semispinalis capitiscorrectly								
	4. At the end of session the phase 1 student should be able to describe								
	the nerve supply of semispinalis capitiscorrectly								
	5. At the end of session the phase 1 student should be able to describe								
	the action of semispinalis capitiscorrectly								
	6. At the end of session the phase 1 student should be able to describe								
	the position of splenius capitis correctly.								
	7. At the end of session the phase 1 student should be able to describe								
	the direction of fibres of splenius capitiscorrectly								
	8. At the end of session the phase 1 student should be able to describe								
	the relations of splenius capitiscorrectly								
	9. At the end of session the phase 1 student should be able to describe								
	the nerve supply of splenius capitiscorrectly								
	10. At the end of session the phase 1 student should be able to describe								
	the action of splenius capitiscorrectly								
	11. At the end of session the phase 1 student should be able to discuss								
	the applied anatomy of semispinalis capitiscorrectly.								
	12. At the end of session the phase 1 student should be able to describe								
	the applied anatomy of splenius capitis correctly								
<u> </u>	and applied anatomy of opioinal daplied correctly						l		
Tonic: Ho	ad & neck Joints, Histology, Development, Radiography &Surfacemarki	na Nu	nber ofcom	notoncio	e:(0) Numbo	of procedures for ce	rtification:/l	MII V	
Topic. He	ad & neck Joints, mistology, Development, Radiography & Junacemarki	ing itui	liber Olcom	ipetericie	s.(3) Number	or procedures for ce	runcation.(i	NIL)	
AN43.1	Describe & demonstrate the movements	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/			
""	with muscles producing the movements of atlantooccipital joint &	140	0.,	'	group discussion, DOAP	skill assessment			
	atlantoaxial joint				session	Sian accountions			
	Objectives				33331311				
	1. At the end of session the phase 1 student must be able to discuss the								
	muscles around atlantooccipital joint correctly								
	2. At the end of session the phase 1 student must be able to discuss the								
	muscles around atlantoaxial joint correctly							1	

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	3. At the end of session the phase 1 student must be able to describe the							
	action of the muscles around atlantooccipital joint correctly							
	4. At the end of session the phase 1 student must be able to describe the							
	action of muscles around atlantoaxial joint correctly							
	5. At the end of session the phase 1 student must be able to identify the							
	the bones forming atlantooccipital joint correctly							
	6. At the end of session the phase 1 student must be able to identify the							
	the bones forming atlantoaxial joint correctly							
	7. At the end of session the phase 1 student must be able to demonstrate							
	the movements of atlantoaxial joint correctly							
	8. At the end of session the phase 1 student must be able to demonstrate							
	the movements of atlantooccipital joint correctly							
AN43.2	Identify, describe and draw the microanatomy of pituitary gland,	K/S	SH	Υ	Lecture, Practical	Written/ skill		
	thyroid, parathyroid gland, tongue, salivary glands, tonsil, epiglottis,					assessment		
	cornea, retina Objectives							
	1. At the end of session the phase 1 student must be able to identify the							
	pituitary gland with well labelled diagram correctly							
	2. At the end of session the phase 1 student must be able to describe the							
	pituitary gland correctly							
	3. At the end of session the phase 1 student must be able to identify the							
	thyroid with well labelled diagram correctly							
	4. At the end of session the phase 1 student must be able to describe the							
	thyroid correctly							
	5. At the end of session the phase 1 student must be able to identify the							
	parathyroid gland with well labelled diagram correctly							
	6. At the end of session the phase 1 student must be able to describe the							
	parathyroid gland correctly							
	7. At the end of session the phase 1 student must be able to identify the							
	tongue with well labelled diagram correctly							
	8. At the end of session the phase 1 student must be able to describe the							
	tongue correctly							
	9. At the end of session the phase 1 student must be able to identify the							
	salivary gland with well labelled diagram correctly							
	10. At the end of session the phase 1 student must be able to describe the							
	salivary gland correctly							
	11. At the end of session the phase 1 student must be able to identify the							
	tonsil with well labelled diagram correctly							
	12. At the end of session the phase 1 student must be able to describe the							
	tonsil correctly							
	13. At the end of session the phase 1 student must be able to identify the							
	epiglottis with well labelled diagram correctly							
	14. At the end of session the phase 1 student must be able to describe the							
	epiglottis correctly							
	15. At the end of session the phase 1 student must be able to identify the							
	cornea with well labelled diagram correctly							
	16. At the end of session the phase 1 student must be able to describe the							
							L	

	cornea correctly				1		1		1
	cornea correctly 17. At the end of session the phase 1 student must be able to identify the								
	retina with well labelled diagram correctly								
	18. At the end of session the phase 1 student must be able to describe the								
	retina correctly.								
Number	COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
Tuniber	The student should be able to	K/S/A/C	K/KH/	(Y/N)	Methods	Methods	required	Integration	Integration
	The Student Should be able to	100/20	SH/P	(1/14)	Methods	Methods	to certify	integration	lintegration
			011/1				D		
AN43.3	Identify, describe and draw microanatomy of olfactory epithelium,	K/S	SH	N	Lecture, Practical	Written/ skill	 '		+
AN43.3	eyelid, lip, sclero-corneal junction, optic nerve, cochlea- organ of	17,5	311	I IN	Lecture, Fractical	assessment			
	corti, pineal gland					assessment			
	Objectives								
	1-At the end of the session the phase 1 student should be able to define								
	epithelium correctly.								
	2- At the end of the session the phase 1 student should be able to descibe								
	the Olfactory epithelium correctly								
	3-At the end of the session the phase 1 student should be able to describe								
	the parts of Eyelid with Sclero-corneal junction correctly.								
	4-At the end of the session the phase 1 student should be able to describe								
	the course of Optic nerve with its branches correctly.								
	5-At the end of the session the phase 1 student should be able to describe								
	the anatomy of Cochlea with organ of corti correctly.								
	6-At the end of the session the phase 1 student should be able to describe the anatomy of Pineal gland correctly.								
	7-At the end of the session the phase 1 student should be able to identify								
	the Sclero-cornial junctional correctly.								
	8- At the end of the session the phase 1 student should be able to draw the								
	diagram of eyelid with Sclero-corneal junction correctly.								
	9- At the end of the session the phase 1 student should be able to draw the								
	well labled diagram of chochlea- organ of corti accurately.								
	10- At the end of the session the phase 1 student should be able to identify								
	the Pineal gland on the cadever correctly.								
AN43.4	Describe the development and developmental basis of congenital	K	KH	Υ	Lecture	Written/ Viva voce			
	anomalies of face, palate, tongue, branchial apparatus, pituitary								
	gland, thyroid gland & eye								
	Objectives								
	1- At the end of the session the phase 1 student must be able to describe								
	the development of face correctly.								
	2 At the end of the session the phase 1 student must be able to describe								
	the development of palate correctly.								
	3 At the end of the session the phase 1 student must be able to describe								
	the development of tongue correctly.								
	4 At the end of the session the phase 1 student must be able to describe								
	the development of branchial apparatus correctly.								

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	5 At the end of the session the phase 1 student must be able to describe								
	the development of pituitary gland correctly.								
	6 At the end of the session the phase 1 student must be able to describe								
	the development of thyroid gland correctly.								
	7 At the end of the session the phase 1 student must be able to describe								
	the development of eye correctly.								
	8 At the end of the session the phase 1 student must be able to describe								
	the congenital anomalies of face correctly.								
	10- At the end of the session the phase 1 student must be able to describe								
	the congenital anomalies of palate correctly.								
	11- At the end of the session the phase 1 student must be able to describe								
	the congenital anomalies of tongue correctly.								
	12- At the end of the session the phase 1 student must be able to describe								
	the congenital anomalies of branchial apparatus correctly								
	13- At the end of the session the phase 1 student must be able to describe								
	the congenital anomalies of pituitary gland correctly.								
	14-At the end of the session the phase 1 student must be able to describe								
	the congenital anomalies of thyroid gland correctly.								
	15- At the end of the session the phase 1 student must be able to describe								
	the congenital anomalies of eye correctly.								
AN43.5	Demonstrate- 1) Testing of muscles of facial expression, extraocular	K/S	SH	Υ	Practical	Viva voce/ skill		General Surgery	
	muscles, muscles of mastication, 2) Palpation of carotid arteries,					assessment			
	facial artery, superficial temporal artery, 3) Location of internal and								
	external jugular veins, 4) Location of hyoid bone, thyroid cartilage								
	and cricoid cartilage with their vertebral levels.								
	Objectives								
	1- At the end of the session the phase 1 student must be able to								
	demonstrate muscles of facial expression correctly.								
	2- At the end of the session the phase 1 student must be able to								
	demonstrate extraocular muscles correctly.								
	3- At the end of the session the phase 1 student must be able to								
	demonstrate muscles of mastication correctly								
	4 At the end of the session the phase 1 student must be able to palpate								
	carotid arteries correctly								
	5- At the end of the session the phase 1 student must be able to palpate								
	facial artery correctly								
	6- At the end of the session the phase 1 student must be able to palpate								
Ī	superficial temporal artery correctly.								
	superficial temporal artery correctly. 7- At the end of the session the phase 1 student must be able to locate								
	superficial temporal artery correctly. 7- At the end of the session the phase 1 student must be able to locate external jugular vein correctly.								
	superficial temporal artery correctly. 7- At the end of the session the phase 1 student must be able to locate external jugular vein correctly. 8- At the end of the session the phase 1 student must be able to locate								
	superficial temporal artery correctly. 7- At the end of the session the phase 1 student must be able to locate external jugular vein correctly.								

	Hyoid bone with their vertebral level correctly		ī	I	1	1	Γ	Г	
	10- At the end of the session the phase 1 student must be able to locate								
	·								
	thyroid cartilage with their vertebral level correctly								
	11- At the end of the session the phase 1 student must be able to locate								
	cricoid cartilage with their vertebral level correctly								
AN43.6	Demonstrate surface projection of- Thyroid gland, Parotid gland and	K/S	SH	N	Practical	Viva voce/ skill		General Surgery	
	duct, Pterion, Common carotid artery, Internal jugular vein,					assessment			
	Subclavian vein, External jugular vein, Facial artery in the face &								
	accessory nerve								
	Objectives								
	1- At the end of the session the phase 1 student should be able to								
	demonstrate surface projection of thyroid gland with duct correctly.								
	2 At the end of the session the phase 1 studentshould be able to								
	demonstrate surface projection of parotid gland with duct correctly.								
	3 At the end of the session the phase 1 studentshould be able to								
	demonstrate surface anatomy of common carotid artery correctly.								
	4 At the end of the session the phase 1 student should be able to								
	demonstrate surface anatomy of internal jugular vein correctly.								
	5 At the end of the session the phase 1 student should be able to								
	demonstrate surface anatomy of sub clavian vein correctly.								
	6 At the end of the session the phase 1 student should be able to								
	demonstrate surface anatomy of external jugular vein correctly.								
	7 At the end of the session the phase 1 student should be able to								
	demonstrate surface anatomy of facial artery in the face correctly.								
	8 At the end of the session the phase 1 student should be able to								
	demonstrate surface anatomy of accessory nerve correctly								
AN43.7	Identify the anatomical structures in 1) Plain x-ray skull, 2) AP view	K/S	SH	Υ	Practical	Viva voce/ skill		Radiodiagnosis	
	and lateral view 3) Plain x-ray cervical spine-AP and lateral view 4)					assessment			
	Plain x- ray of paranasal sinuses								
	Objectives								
	1- At the end of the session the phase 1 student must be able to describe								
	plain x-ray skull correctly								
	2- At the end of the session the phase 1 student must be able to describe								
	AP view of plain x-ray correctly								
	3- At the end of the session the phase 1 student must be able to describe								
	lateral view of plain x-ray correctly								
	4- At the end of the session the phase 1 student must be able to describe								
	plain x-ray of AP view of cervical spine correctly								
	5- At the end of the session the phase 1 student must be able to describe								
	plain x-ray of lateral view of plain x-ray correctly								
	6- At the end of the session the phase 1 student must be able to describe								
	PNS view of plain x-ray correctly								
	7- At the end of the session the phase 1 student must be able to identify								
	1. The area of the deceler the prideo i etadent made be able to identify				1	1		1	

	Intain v may alvell assumanthy					1	<u> </u>	
	plain x-ray skull correctly							
	8- At the end of the session the phase 1 student must be able to identify		1					
	AP view of plain x-ray correctly		1					
	9- At the end of the session the phase 1 student must be able to identify lateral view of plain x-ray correctly		1					
	10- At the end of the session the phase 1 student must be able to identify		1					
	plain x-ray of AP view of cervical spine correctly		1					
	11- At the end of the session the phase 1 student must be able to identify		1					
	plain x-ray of lateral view of plain x-ray correctly		1					
	12- At the end of the session the phase 1 student must be able to identify		1					
	PNS view of plain x-ray correctly		1					
	13-At the end of the session the phase 1 student must be able to present		1					
	plain x-ray skull correctly		1					
	14- At the end of the session the phase 1 student must be able to		1					
	present AP view of plain x-ray correctly							
	15- At the end of the session the phase 1 student must be able to		1					
	present lateral view of plain x-ray correctly		1					
	16- At the end of the session the phase 1 student must be able to		1					
	present plain x-ray of AP view of cervical spine correctly		1					
	17- At the end of the session the phase 1 student must be able to		1					
	present plain x-ray of lateral view of plain x-ray correctly		1					
	18- At the end of the session the phase 1 student must be able to		1					
11110	present PNS view of plain x-ray correctly							
AN43.8	Describe the anatomical route used for carotid angiogram and	K/S	SH	N	Practical	Viva voce/ skill	Radiodiagnosis	
	vertebral angiogram		1			assessment		
	Objectives		1					
	1 At the end of the session the phase 1 student should be able to		1					
	describe anatomical route of carotid angiogram correctly		1					
	2 At the end of the session the phase 1 student should be able to describe anatomical route of vertebral angiogram correctly		1					
	3 At the end of the session the phase 1 student should be able to identify		1					
	anatomical route of carotid angiogram correctly		1					
	4 At the end of the session the phase 1 student should be able to identify		1					
	anatomical route of vertebral angiogram correctly		1					
	5 At the end of the session the phase 1 student should be able to present		1					
	anatomical route of carotid angiogram correctly							
	6 At the end of the session the phase 1 student should be able to present							
	anatomical route of vertebral angiogram correctly		'					
AN43.9	Identify anatomical structures in carotid angiogram and vertebral	K/S	SH	N	Practical	Viva voce/ skill	Radiodiagnosis	
1	angiogram					assessment		
1	Objectives							
	1 At the end of the session the phase 1 student should be able to		1					
	describe anatomical structures in carotid angiogram correctly	L.	1					

2 At the end of the session the phase 1 student should be able to describe anatomical structures in vertebral angiogram correctly 3 At the end of the session the phase 1 student should be able to identify anatomical structures in carotid angiogram correctly 4 At the end of the session the phase 1 student should be able to identify anatomical structures in vertebral angiogram correctly 5 At the end of the session the phase 1 student should be able to present anatomical structures in carotid angiogram correctly 6 At the end of the session the phase 1 student should be able to present anatomical structures in vertebral angiogram correctly	lumber ofcompetencies:(7)	Number of procedures for certification:(NIL)
AN44.1 Describe & demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen Objectives 1-At the end of the session the phase 1 student must be able to describe the transpyloric plane correctly 2-At the end of the session the phase 1 student must be able to describe the transtubercular plane correctly 3-At the end of the session the phase 1 student must be able to describe the subcostal plane correctly 4-At the end of the session the phase 1 student must be able to describe the lateral vertical plane correctly 5-At the end of the session the phase 1 student must be able to describe the attachment of linea alba correctly 6-At the end of the session the phase 1 student must be able to describe the extent of linea semilunaris correctly 7-At the end of the session the phase 1 student must be able to describe the anatomical regions correctly 8- At the end of the session the phase 1 student must be able to describe the Quadrants of abdomen correctly 9-At the end of the session the phase 1 student must be able to demonstrate the transpyloric plane correctly 10-At the end of the session the phase 1 student must be able to demonstrate the transtubercular plane correctly 11-At the end of the session the phase 1 student must be able to demonstrate the subcostal plane correctly 12-At the end of the session the phase 1 student must be able to demonstrate the lateral vertical plane correctly 13-At the end of the session the phase 1 student must be able to demonstrate the lateral vertical plane correctly	K/S SH	Y Practical, Lecture, Small group discussion, DOAPsession Written/ Viva voce/ skill assessment General Surgery

	14-At the end of the session the phase 1 student must be able to identify the extent of linea semilunaris correctly 15-At the end of the session the phase 1 student must be able to demonstrate the anatomical regions correctly 16-At the end of the session the phase 1 student must be able to demonstrate the Quadrants of abdomen correctly								
AN44.2	Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall Objectives 1- At the end of the session the phase 1 student must be able to describe the Fascia of anterior abdominal wall correctly 2- At the end of the session the phase 1 student must be able to describe the nerves of anterior abdominal wall correctly 3- At the end of the session the phase 1 student must be able to describe the blood vessels of anterior abdominal wall correctly 4- At the end of the session the phase 1 student must be able to identify the Fascia correctly 5- At the end of the session the phase 1 student must be able to identify the nerves 0f anterior abdominal wall correctly 6- At the end of the session the phase 1 student must be able to identify the blood vessels 0f anterior abdominal wall correctly 7- At the end of the session the phase 1 student must be able to demontrate the Fascia of anterior abdominal wall correctly 8- At the end of the session the phase 1 student must be able to demonstrate the nerves of anterior abdominal wall correctly 9- At the end of the session the phase 1 student must be able to demonstrate blood vessels of anterior abdominal wall correctly	K/S	SH	Y	· · · · · · · · · · · · · · · · · · ·	Written/ Viva voce/ skill assessment			
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration
AN44.3	Describe the formation of rectus sheath and its contents Objectives 1- At the end of the session the phase 1 student must be able to describe the formation of rectus sheath correctly 2- At the end of the session the phase 1 student must be able to describe the content of rectus sheath correctly 3- At the end of the session the phase 1 student must be able to identify the extent of rectus sheath correctly 4- At the end of the session the phase 1 student must be able to demonstrate the contents of rectus sheath correctly	К	КН	Υ	Lecture	Written/ Viva voce			

AN44.4	Describe & demonstrate extent, boundaries, contents of Inguinal	K/S	SH	V	Practical, Lecture, Small	Written/ Viva voce/	General Surger	v I
AN44.4		N/S	SIT	l t	, ,		General Surger	^y
	canal including Hesselbach's triangle.				group discussion, DOAP	skill assessment		
	Objectives				session			
	1- At the end of the session the phase 1 student must be able to describe							
	extent of Inguinal canal correctly							
	2- At the end of the session the phase 1 student must be able to describe							
	boundaries of Inquinal canal correctly							
	3- At the end of the session the phase 1 student must be able to describe							
	contents of Inguinal canal correctly							
	4- At the end of the session the phase 1 student must be able to describe							
	boundaries of Hesselbach's triangle correctly							
	5 At the end of the session the phase 1 student must be able to describe							
	contents of Hesselbach's triangle correctly							
	6- At the end of the session the phase 1 student must be able to identify							
	the extent of Inguinal canal correctly							
1	7- At the end of the session the phase 1 student must be able to					1		
1	demonstrate boundaries of Inguinal canal correctly					1		
1	8- At the end of the session the phase 1 student must be able to identify					1		
	the contents of Inguinal canal correctly							
	9- At the end of the session the phase 1 student must be able to identify							
	the boundaries of Hesselbach's triangle correctly							
	10 At the end of the session the phase 1 student must be able to					1		
	demonstrate the contents of Hesselbach's triangle correctly					1		
AN44.5	Explain the anatomical basis of inguinal hernia.	K	KH	Υ	Lecture	Written/ Viva voce	General Surger	v
,	Objectives				Locialo	Timesi, viva vees	Johnstein Gariger	'
	1- At the end of the session the phase 1 student must be able to define the							
	inguinal hernia accurately					1		
	2 At the end of the session the phase 1 student must be able to describe					1		
	the inguinal hernia correctly							
	3 At the end of the session the phase 1 student must be able to					1		
	diffentiate the inguinal hernia with other hernia correctly							
	4 At the end of the session the phase 1 student must be able to identify					1		
	the inguinal hernia correctly							
AN44.6	Describe & demonstrate attachments of muscles of anterior	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/	General Surger	y
1	abdominal wall Mention the major subgroups of back muscles, nerve				group discussion, DOAP	skill assessment		
1	supply and action				session	1		
1	Objectives					1		
	1- At the end of the session the phase 1 student must be able to describe					1		
1	the attachments of muscles of anterior abdominal wall correctly					1		
1	2- At the end of the session the phase 1 student must be able to							
1	enumerate the major subgroups of back muscles correctly					1		
1	3- At the end of the session the phase 1 student must be able to describe					1		
1	the nerve supply of muscles of anterior abdominal wall correctly					1		
1						1		
1	4- At the end of the session the phase 1 student must be able to identify					1		
1	the attachments of muscles of anterior abdominal wall correctly					1		
1	5- At the end of the session the phase 1 student must be able to identify			l				

AN44.7	the major subgroups of back muscles correctly 6-At the end of the session the phase 1 student must be able to identify the nerve supply of muscles of anterior abdominal wall correctly 7- At the end of the session the phase 1 student must be able to demonstrate the action of muscles of anterior abdominal wall correctly Enumerate common Abdominal incisions Objectives 1-At the end of the session the phase 1 student should be able to describe the common Abdominal incisions correctly 2-At the end of the session the phase 1 student should be able to differentiate the common Abdominal incisions correctly 3-At the end of the session the phase 1 student should be able to identify the common Abdominal incisions correctly 4- At the end of the session the phase 1 student should be able to present the common Abdominal incisions correctly	К	КН	N	Lecture	Written		General Surgery	
Topic: Po	· · · · · · · · · · · · · · · · · · ·	ofcompete	encies:(3)	<u> </u>	Number of	procedures for certific	ation:(NIL)	l	
AN45.1	Describe Thoracolumbar fascia Objectives 1-At the end of the session the phase 1 student must be able to describe Thoracolumbar fascia correctly 2- At the end of the session the phase 1 student must be able to demonstrate the extent of thoracolumbar fascia correcty	К	KH	Y	Lecture	Written			
AN45.2	Describe & demonstrate Lumbar plexus for its root value, formation & branches Objectives 1-At the end of the session the phase 1 student must be able to describe lumbar plexus correctly 2-At the end of the session the phase 1 student must be able to describe formation of lumber plexus with its root value correctly 3-At the end of the session the phase 1 student must be able to describe branches of lumber plexus correctly 4-At the end of the session the phase 1 student must be able to enumerate branches of lumber plexus correctly 5- At the end of the session the phase 1 student must be able to demonstrate branches of lumber plexus correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN45.3	Mention the major subgroups of back muscles, nerve supply, and action Objectives 1-At the end of the session the phase 1 student should be able to describe the major subgroups of back muscles, correctly 2-At the end of the session the phase 1 student should be able to describe the nerve supply of major subgroups of back muscles correctly 3-At the end of the session the phase 1 student should be able to describe action ofthe major subgroups of back muscles correctly	К	KH	N	Lecture	Written			

Topic: M	aleexternalgenitalia Number o	ofcompete	ncies:(5)		Number of p	rocedures for certification	:(NIL)
AN46.1	Describe & demonstrate coverings, internal structure, side determination, blood supply, nerve supply, lymphatic drainage & descent of testis with its applied anatomy-Objectives 1-At the end of the session the phase 1 student must be able to describe the coverings of testis correctly 2At the end of the session the phase 1 student must be able to describe internal structure of testis correctly 3At the end of the session the phase 1 student must be able to describe the side determination of testis correctly 4At the end of the session the phase 1 student must be able to describe blood supply of testis correctly 5At the end of the session the phase 1 student must be able to describe nerve supply of testis correctly 6At the end of the session the phase 1 student must be able to describe lymphatic drainage of testis correctly 7At the end of the session the phase 1 student must be able to describe descent of testis with its applied anatomy- correctly 8At the end of the session the phase 1 student must be able to demonstrate descent of testis with its applied anatomy correctly 9At the end of the session the phase 1 student must be able to demostrate internal structure of testis correctly 10At the end of the session the phase 1 student must be able to identify the blood supply of testis correctly 11At the end of the session the phase 1 student must be able to demonstrate nerve supply of testis correctly 12At the end of the session the phase 1 student must be able to demonstrate nerve supply of testis correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment	General Surgery
AN46.2	Describe parts of Epididymis Objectives 1- At the end of the session the phase 1 student must be able to describe the gross anatomy of Epididymis correctly 2- At the end of the session the phase 1 student must be able to demonstrate parts of Epididymis correctly	К	KH	Y	Lecture, Practical	Written/ Viva voce	
AN46.3	Describe Penis under following headings: (parts, components, blood supply and lymphatic drainage) Objectives 1-At the end of the session the phase 1 student must be able to describe parts of Penis correctly 2-At the end of the session the phase 1 student must be able to describe components of penis correctly	К	КН	Y	Lecture, Practical	Written/ Viva voce	

					I				
	3- At the end of the session the phase 1 student must be able to describe blood supply of penis correctly								
	4- At the end of the session the phase 1 student must be able to identify								
	lymphatic drainage of penis correctly								
AN46.4	Explain the anatomical basis of Varicocoele	K	KH	N	Lecture	Written		General Surgery	
	Objectives 1-At the end of the session the phase 1 student should be able to define								
	Varicocoele accuratly								
	2-At the end of the session the phase 1 student should be able to describe								
	Varicocoele with its applied aspect correctly								
Number	COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment	Number	Vertical	Horizontal
	The student should be able to	K/S/A/C	K/KH/	(Y/N)	Methods	Methods	required	Integration	Integration
			SH/P				to certify		
AN46.5	Explain the anatomical basis of Phimosis & Circumcision	K	KH	N	Lecture	Written	P	General Surgery	
AIN40.5	Objectives	1	IXII	IN IN	Lecture	VVIIILEIT		General Surgery	
	1-At the end of the session the phase 1 student should be able to Explain								
	the anatomical basis of Phimosis correctly								
	2- At the end of the session the phase 1 student should be able to define								
	Circumcision correctly 3- At the end of the session the phase 1 student should be able to describe								
	Circumcision correctly								
Topic:Ab	dominalcavity	ofcompete	ncies:(14)		Number of p	procedures for certific	ation:(NIL)		
AN47.1	Describe & identify boundaries and recesses of Lesser & Greater sac	K/S	SH		Practical, Lecture, Small	Written/ Viva voce/	1	General Surgery	
/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Objectives	100	011	'		skill assessment		Ochiciai odigery	
	1-At the end of the session the phase 1 student must be able to describe				session	okiii dooddoiniont			
	boundaries of greater sac correctly								
	2-At the end of the session the phase 1 student must be able to describe								
	boundaries of lesser sac correctly 3-At the end of the session the phase 1 student must be able to describe								
	recesses of Lesser sac correctly								
	4=At the end of the session the phase 1 student must be able to describe								
	recesses of Greater sac correctly								
	5-At the end of the session the phase 1 student must be able to identify the								
	recesses of Lesser sac correctly 6-At the end of the session the phase 1 student must be able to identify the								
	recesses of Greater sac correctly								
	7-At the end of the session the phase 1 student must be able to								
	demonstrate lesser sac correctly								
	8-At the end of the session the phase 1 student must be able to								
	demonstrate greater sac correctly								

AN47.2	Name & identify various peritoneal folds & pouches with its	K/S	SH	V	Practical, Lecture, Small	Written/ Viva voce/	General Surgery
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	explanation	IV/O	311	'	group discussion, DOAP	Iskill assessment	General Surgery
	Objectives				session	Skill assessifierit	
	1- At the end of the session the phase 1 student must be able to				Session		
	enumerate various peritoneal folds correctly						
	2- At the end of the session the phase 1 student must be able to						
	enumerate peritoneal pouches correctly						
	3- At the end of the session the phase 1 student must be able to						
	describe various peritoneal folds correctly						
	4- At the end of the session the phase 1 student must be able to						
	describe various peritoneal pouches correctly						
	5- At the end of the session the phase 1 student must be able to identify						
	various peritoneal folds correctly						
	6- At the end of the session the phase 1 student must be able to identify						
	various peritoneal poches correctly						
	7- At the end of the session the phase 1 student must be able to						
	demonstrate various peritoneal folds correctly						
	8- At the end of the session the phase 1 student must be able to						
	demonstrate various peritoneal pouches correctly						
AN47.3	Explain anatomical basis of Ascites & Peritonitis	K	KH	N	Lecture	Written	General Surgery
	Objectives						
	1- At the end of the session the phase 1 student should be able to						
	explain ascites correctly						
	2- At the end of the session the phase 1 student should be able to						
	explain peritonitis correctly						
	3- At the end of the session the phase 1 student should be able to						
	identify ascitis correctly						
	4- At the end of the session the phase 1 student should be able to identify peritonitis correctly						
AN47.4		K	KH	N.I	Lastura	Muitton	Canaral Current
AN47.4	Explain anatomical basis of Subphrenic abscess	r.	NΠ	N	Lecture	Written	General Surgery
	Objectives						
	1-At the end of the session the phase 1 student should be able to explain						
	anatomy of subphrenic abscess correctly						
	2-At the end of the session the phase 1 student should be able to identify						
	the subphrenic abscess correctly						
AN47.5	Describe & demonstrate major viscera of abdomen under following	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/	General Surgery
7.17.10	headings (anatomical position, external and internal features,	100	011		group discussion, DOAP	skill assessment	Contorur Gurgory
	important peritoneal and other relations, blood supply, nerve supply,				session	Skiii daacaament	
	lymphatic drainage and applied aspects)				30331011		
	Objectives						
	1-At the end of the session the phase 1 student must be able to describe						
	anatomical position of major viscera of abdomen correctly						
	2-At the end of the session the phase 1 student must be able to describe						
	external and internal features of major viscera of abdomen correctly						

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	3-At the end of the session the phase 1 student must be able to describe							
	important peritoneal and other relations of major viscera of abdomen							
	correctly							
	4-At the end of the session the phase 1 student must be able to describe							
	blood supply of major viscera of abdomen correctly							
	5-At the end of the session the phase 1 student must be able to describe							
	nerve supply of major viscera of abdomen correctly							
	6-At the end of the session the phase 1 student must be able to describe							
	lymphatic drainage of major viscera of abdomen correctly							
	7-At the end of the session the phase 1 student must be able to describe							
	applied anatomy of major viscera of abdomen correctly							
	8-At the end of the session the phase 1 student must be able to							
	demonstrate anatomical position of major viscera of abdomen correctly							
	9-At the end of the session the phase 1 student must be able to							
	demonstrate external and internal features of major viscera of abdomen							
	correctly							
	10-At the end of the session the phase 1 student must be able to identify							
	important peritoneal and other relations of major viscera of abdomen							
	correctly							
	11-At the end of the session the phase 1 student must be able to identify							
	blood supply of major viscera of abdomen correctly							
	12-At the end of the session the phase 1 student must be able to							
	demonstrate nerve supply of major viscera of abdomen							
	13-At the end of the session the phase 1 student must be able to identify							
	the major viscera of abdomen correctly							
	14-At the end of the session the phase 1 student must be able to present							
	the applied anatomy of major viscera of abdomen correctly							
AN47.6	Explain the anatomical basis of Splenic notch, Accessory spleens,	K	KH	N	Lecture	Written	General Surgery	
	Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle							
	puncture), Referred pain in cholecystitis, Obstructive jaundice,							
	Referred pain around umbilicus, Radiating pain of kidney to groin &							
	Lymphatic spread in carcinoma stomach							
	Objectives							
	1- At the end of the session the phase 1 student should be able to							
	Explain the anatomical basis of Splenic notch,correctly-							
	2- At the end of the session the phase 1 student should be able to							
	Explain the anatomical basis of Accessory spleens correctly-							
	3- At the end of the session the phase 1 student should be able to							
	Explain the anatomical basis of defferent types of vagotomy correctly-							
	4- At the end of the session the phase 1 student should be able to							
	Explain the anatomical basis of Liver biopsy (site of needle puncture)							
	correctly-							

	 5- At the end of the session the phase 1 student should be able to Explain the anatomical basis of Referred pain in cholecystitis correctly- 6- At the end of the session the phase 1 student should be able to Explain the anatomical basis of Obstructive jaundice correctly- 7- At the end of the session the phase 1 student should be able to Explain the anatomical basis of Referred pain around umbilicus correctly — 							
	 8- At the end of the session the phase 1 student should be able to Explain the anatomical basis of Radiating pain of kidney to groin correctly 9- At the end of the session the phase 1 student should be able to 							
	Explain the anatomical basis of lymphatic spread in carcinoma stomach correctly							
AN47.7	Mention the clinical importance of Calot's triangle Objectives 1-At the end of the session the phase 1 student should be able to describe Calot's triangle correctly 2-At the end of the session the phase 1 student should be able to mention the clinical importance of Calot's triangle correctly	К	КН	N	Lecture	Written	General Surgery	
AN47.8	Describe & identify the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein Objectives 1-At the end of the session the phase 1 student must be able to describe the formation of portal vein correctly 2-At the end of the session the phase 1 student must be able to describe the formation of Inferior vena cava correctly 3-At the end of the session the phase 1 student must be able to describe the formationof Renal vein correctly 4- At the end of the session the phase 1 student must be able to identify the formation of Portal vein correctly 5-At the end of the session the phase 1 student must be able to identify the formation of Inferior vena cava correctly 6-At the end of the session the phase 1 student must be able to describe course with tributaries of Portal vein correctly 7- At the end of the session the phase 1 student must be able to describe course with tributaries of Inferior vena cava correctly 9- At the end of the session the phase 1 student must be able to describe course with tributaries of Renal vein correctly 10- At the end of the session the phase 1 student must be able to identify the relations of Portal vein correctly	K/S	SH		Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		

	 11- At the end of the session the phase 1 student must be able to identify the relations of Inferior vena cava correctly 12- At the end of the session the phase 1 student must be able to identify the relations of Renal vein correctly 								
AN47.9	Describe & identify the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery Objectives 1-At the end of the session the phase 1 student must be able to describe the origin of Abdominal aorta correctly 2-At the end of the session the phase 1 student must be able to describe the origin of coeliac trunk correctly 3-At the end of the session the phase 1 student must be able to describe the origin of superior mesenteric artery correctly 4-At the end of the session the phase 1 student must be able to describe the origin of inferior mesenteric artery correctly 5-At the end of the session the phase 1 student must be able to describe the origin of common iliac artery correctly 6-At the end of the session the phase 1 student must be able to identify the course of Abdominal aorta correctly 7-At the end of the session the phase 1 student must be able to identify the course of coeliac trunk correctly 8-At the end of the session the phase 1 student must be able to identify the course of superior mesenteric artery correctly 9-At the end of the session the phase 1 student must be able to identify the course of inferior mesenteric artery correctly 10-At the end of the session the phase 1 student must be able to identify the course of common iliac artery correctly 11-At the end of the session the phase 1 student must be able to discuss important relations with branches of abdominal aorta correctly 12-At the end of the session the phase 1 student must be able to discuss important relations with branches of Superior mesenteric artery correctly 13-At the end of the session the phase 1 student must be able to discuss important relations with branches of Superior mesenteric artery correctly 14-At the end of the session the phase 1 student must be able to discuss important relations with branches of Superior mesenteric artery correctly 15-At the end of the session the phase 1 student must be able to discuss important relations	K/S	SH		Practical, Lecture, Small group discussion, DOAP session	skill assessment			
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required	Vertical Integration	Horizontal Integration
			SH/P	, ,			to certify P		

AN47.10		1/	KH	I v	II a atuma	Written	Cananal Commany	
AN47.10	Enumerate the sites of portosystemic anastomosis-	K	l KH	Y	Lecture	vvritten	General Surgery	
	Objectives							
	1- At the end of the session the phase 1 student must be able to							
	enumerate the sites of portosystemic anastomosis correctly 2-At the end of the session the phase 1 student must be able to identify the							
	sites of portosystemic anastomosis correctly							
AN47.11	Explain the anatomic basis of hematemesis& caput medusae in portal	K	KH	Y	Lecture,	Written/ Viva voce	General Surgery	
AN47.11	1 .	N.	I NO	l t	Lecture,	vviilleri/ viva voce	General Surgery	
	hypertension							
	Objectives							
	1-At the end of the session the phase 1 student must be able to explain the							
	anatomic basis of hematemesis in portal hypertension correctly							
	2-At the end of the session the phase 1 student must be able to explain the							
	anatomic basis of caput medusae in portal hypertension correctly							
AN47.12	describe important nerve plexuses of posterior abdominal wall	K	KH	N	Lecture	Written		
	Objectives							
	1- At the end of the session the phase 1 student should be able to describe							
	important nerve plexuses of posterior abdominal wallcorrectly							
	2- At the end of the session the phase 1 student should be able to identify							
	important nerve plexuses of posterior abdominal wallcorrectly							
AN47.13	Describe & demonstrate the attachments, openings, nerve supply	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/		
7 (1447.10	& action of the thoracoabdominal diaphragm -	100	011		group discussion, DOAP			
	Objectives				session	Skiii doocoomon		
	1-At the end of the session the phase 1 student must be able to				3033011			
	describe the attachment of the thoracoabdominal diaphragm correctly							
	2-At the end of the session the phase 1 student must be able to							
	describe openings of the thoracoabdominal diaphragm correctly -							
	3- At the end of the session the phase 1 student must be able to							
	·							
	describe the nerve supply of the thoracoabdominal diaphragm							
	correctly							
	4-At the end of the session the phase 1 student must be able to							
	describe the action of the thoracoabdominal diaphragm correctly							
	5-At the end of the session the phase 1 student must be able to							
	demonstrate the attachment of the thoracoabdominal diaphragm							
	correctly							
	6-At the end of the session the phase 1 student must be able to							
	demonstrate openings of the thoracoabdominal diaphragm correctly							
	7- At the end of the session the phase 1 student must be able to							
	demonstrate the nerve supply of the thoracoabdominal diaphragm							
	correctly							
	8-At the end of the session the phase 1 student must be able to							
	demonstrate the action of the thoracoabdominal diaphragm correctly							

AN47.14	Describe the abnormal openings of thoracoabdominal diaphragm and diaphragmatic hernia Objectives 1-At the end of the session the phase 1 student should be able to describe the abnormal openings of thoracoabdominal diaphragm correctly 2-At the end of the session the phase 1 student should be able to describe the diaphragmatic hernia correctly	К	КН	N	Lecture	Written	General Surgery	
Topic: Pe	lvic wallandviscera Number	ofcompete	encies:(8)		Number of p	rocedures for certifica	ation:(NIL)	
AN48.1	Describe & identify the muscles of Pelvic diaphragm Objectives 1-At the end of the session the phase 1 student must be able to describe the muscles of Pelvic diaphragm correctly 2-At the end of the session the phase 1 student must be able to discuss the muscles of Pelvic diaphragm correctly 3-At the end of the session the phase 1 student must be able to identify the muscles of Pelvic diaphragm correctly 4-At the end of the session the phase 1 student must be able to demonstrate the muscles of Pe At the end of the session the phase 1 student must be able to correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		
AN48.2	Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female pelvic viscera Objectives 1- At the end of the session the phase 1 student must be able to describe position of important male pelvic viscera correctly 2- At the end of the session the phase 1 student must be able to describe position of important female pelvic viscera correctly 3- At the end of the session the phase 1 student must be able to describe features of important male pelvic viscera correctly 4- At the end of the session the phase 1 student must be able to describe features of important female pelvic viscera correctly 5- At the end of the session the phase 1 student must be able to describe important peritoneal and other relations of important male pelvic viscera correctly 6- At the end of the session the phase 1 student must be able to describe important peritoneal and other relations of female pelvic viscera correctly 7- At the end of the session the phase 1 student must be able to describe blood supply of important male pelvic viscera correctly 8- At the end of the session the phase 1 student must be able to describe blood supply of important male pelvic viscera correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		

9- At the end	of the session the phase 1 student must be able to				
describe of	important nerve supply male pelvic viscera correctly				
	of the session the phase 1 student must be able to				
	important nerve supply female pelvic viscera correctly				
	of the session the phase 1 student must be able to				
	portant fem lymphatic drainage with clinical aspects of				
	viscera correctly				
	of the session the phase 1 student must be able to				
	mphatic drainage and clinical aspects of important female				
	ra correctly At the end of the session the phase 1				
	t be able to describe position of important male pelvic				
viscera corr	·				
	f the session the phase 1 student must be able to				
	e position of important female pelvic viscera correctly				
	f the session the phase 1 student must be able to				
	e features of important male pelvic viscera correctly				
	f the session the phase 1 student must be able to demonstrate				
	mportant female pelvic viscera correctly				
	f the session the phase 1 student must be able to				
demonstrate	e features of important female pelvic viscera correctly				
17- At the end of	f the session the phase 1 student must be able to				
demonstrate	e position of important female pelvic viscera correctly				
18- At the end of	f the session the phase 1 student must be able to				
	e features of important male pelvic viscera correctly				
19- At the end	of the session the phase 1 student must be able to				
demonstrate	e features of important female pelvic viscera correctly				
20- At the end of	f the session the phase 1 student must be able to				
demonstrate	e important peritoneal and other relations of important				
male pelvic	viscera correctly				
21- At the end	of the session the phase 1 student must be able to				
demonstrate	e important peritoneal and other relations of female				
pelvic visce	a correctly				
22- At the end	of the session the phase 1 student must be able to				
demonstrate	e blood supply of important male pelvic viscera correctly				
23- At the end of	f the session the phase 1 student must be able to				
demonstrate	e blood supply of important female pelvic viscera				
correctly					
24- At the end	of the session the phase 1 student must be able to				
demonstrate	e of important nerve supply male pelvic viscera correctly				
25- At the end	of the session the phase 1 student must be able to				
demonstrate	e of important nerve supply female pelvic viscera				
correctly					
26- At the end	of the session the phase 1 student must be able to				

			1	1	Т	T	1	
	demonstrate important male lymphatic drainage with clinical aspects							
	of male pelvic viscera correctly							
	27- At the end of the session the phase 1 student must must be able to							
	demonstrate important female lymphatic drainage with clinical aspects							
	of female pelvic viscera correctly							
AN48.3	Describe & demonstrate the origin, course, important relations and	K/S	SH	Y	Practical, Lecture, Small	Written/ Viva voce/		
	branches of internal iliac artery				group discussion, DOAP	skill assessment		
	Objectives				session			
	1-At the end of the session the phase 1 student must be able to describe							
	origin of internal iliac artery correctly							
	2-At the end of the session the phase 1 student must be able to describe							
	course of internal iliac artery correctly 3-At the end of the session the							
	phase 1 student must be able to describe important relations of internal							
	iliac artery correctly							
	4- At the end of the session the phase 1 student must be able to describe							
	branches of internal iliac artery correctly							
	5-At the end of the session the phase 1 student must must be able to							
	demonstrate origin of internal iliac artery correctly							
	6-At the end of the session the phase 1 student must must be able to							
	demonstrate course of internal iliac artery correctly							
	7-At the end of the session the phase 1 student must must be able to							
	demonstrate important relations of internal iliac artery correctly							
	8-At the end of the session the phase 1 student must must be able to							
	demonstrate branches of internal iliac artery correctly							
AN48.4	Describe the branches of sacral plexus	K	KH	Υ	Lecture	Written		
	Objectives							
	1-At the end of the session the phase 1 student must must be able to							
	describe the branches of sacral plexus correctly							
	2- At the end of the session the phase 1 student must must be able to							
	identify the branches of sacral plexuscorrectly							
AN48.5	Explain the anatomical basis of suprapubic cystostomy, Urinary	K	KH	N	Lecture	Written	General Surgery	
	obstruction in benign prostatic hypertrophy, Retroverted uterus,							
	Prolapse uterus, Internal and external haemorrhoids, Anal fistula,							
	Vasectomy, Tubal pregnancy & Tubal ligation							
	Objectives							
	1-At the end of the session the phase 1 student							
	should be able to explain the anatomical basis of suprapubic cystostomy							
	correctly							
	2-At the end of the session the phase 1 student should be able to							
	explain the urinary obstruction in benign prostatic hypertrophy correctly							
	3-At the end of the session the phase 1 student should be able to							
	explain the anatomical basis of retroverted uterus correctly							
	4-At the end of the session the phase 1 student should be able to							

	explain the anatomical basis of prolapse uterus correctly 5-At the end of the session the phase 1 student should be able to explain the anatomical basis of Internal with external haemorrhoids correctly 6-At the end of the session the phase 1 student should be able to explain the anatomical basis of anal fistula correctly 7-At the end of the session the phase 1 student should be able to explain the anatomical basis of vasectomy correctly 8-At the end of the session the phase 1 student should be able to explain the anatomical basis of tubal pregnancy correctly 9-At the end of the session the phase 1 student should be able to explain the anatomical basis of tubal ligation correctly								
AN48.6	Describe the neurological basis of Automatic bladder Objectives 1-At the end of the session the phase 1 student should be able to describe the neurological basis of Automatic bladder correctly 2-At the end of the session the phase 1 student should be able to discuss the neurological basis of Automatic bladder correctly	К	КН	N	Lecture	Written		General Surgery	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
AN48.7	Mention the lobes involved in benign prostatic hypertrophy & prostatic cancer Objectives 1-At the end of the session the phase 1 student should be able to describe the lobes involved in benign prostatic hypertrophy correctly 2-At the end of the session the phase 1 student should be able to describe the lobes involved in prostatic cancer correctly 3-At the end of the session the phase 1 student should be able to discuss the lobes involved in benign prostatic hypertrophy correctly 4-At the end of the session the phase 1 student should be able to discuss the lobes involved in prostatic cancer correctly	К	КН	N	Lecture	Written		General Surgery	
AN48.8	Mention the structures palpable during vaginal & rectal examination Objectives 1-At the end of the session the phase 1 student should be able to describe the structures palpable during vaginal examination correctly 2-At the end of the session the phase 1 student should be able to describe the structures palpable during rectal examination correctly 3-At the end of the session the phase 1 student should be able to discuss	К	КН	N	Lecture	Written		Obstetrics & Gynaecology General Surgery	

Topic:Pe	rineum Number o	ofcompeter	ncies:(5)		Number of pr	ocedures for certifica	tion:(NIL)		
AN49.1	Describe & demonstrate the superficial & deep perineal pouch (boundaries and contents) Objectives 1-At the end of the session the phase 1 student must be able to describe the boundaries of superficial perineal pouch correctly 2-At the end of the session the phase 1 student must be able to describe the contents of superficial perineal pouch correctly 3-At the end of the session the phase 1 student must be able to discuss the boundaries of superficial perineal pouch correctly 4-At the end of the session the phase 1 student must be able to discuss the contents of superficial perineal pouch correctly 5-At the end of the session the phase 1 student must be able to identify the boundaries of superficial perineal pouch correctly 6-At the end of the session the phase 1 student must be able to identify the contents of superficial perineal pouch correctly 7-At the end of the session the phase 1 student must be able to demonstrate the boundaries of superficial with deep perineal pouch correctly 8-At the end of the session the phase 1 student must be able to demonstrate the contents of superficial with deep perineal pouch correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		Obstetrics & Gynaecology	
AN49.2	Describe & identify Perineal body Objectives 1-At the end of the session the phase 1 student must be able to describe perineal body correctly 2-At the end of the session the phase 1 student must be able to discuss perineal body correctly 3-At the end of the session the phase 1 student must be able to identify perineal body correctly 4-At the end of the session the phase 1 student must be able to demonstrate perineal body with its clinical anatomy correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment		Obstetrics & Gynaecology	
AN49.3	Describe & demonstrate Perineal membrane in male & female Objectives 1-At the end of the session the phase 1 student must be able to describe perineal membrane in male correctly 2-At the end of the session the phase 1 student must be able to discuss perineal membrane in male correctly 3-At the end of the session the phase 1 student must be able to identify perineal membrane in male correctly 4-At the end of the session the phase 1 student must be able to demonstrate Perineal membrane in male correctly 5-At the end of the session the phase 1 student must be able to describe perineal membrane in female correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			

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	6-At the end of the session the phase 1 student must be able to discuss							
	perineal membrane in female correctly							
	7-At the end of the session the phase 1 student must be able to identify							
	perineal membrane in female correctly							
	8-At the end of the session the phase 1 student must be able to							
	demonstrate perineal membrane in female correctly							
AN49.4	Describe & demonstrate boundaries, content & applied anatomy of	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/	General Surgery	
	Ischiorectal fossa				group discussion, DOAP	skill assessment		
	Objectives				session			
	1-At the end of the session the phase 1 student must be able to describe				00001011			
	boundaries of Ischiorectal fossa correctly							
	2-At the end of the session the phase 1 student must be able to discuss							
	boundaries of Ischiorectal fossa correctly							
	3-At the end of the session the phase 1 student must be able to identify							
	content of Ischiorectal fossa correctly							
	4-At the end of the session the phase 1 student must be able to discuss							
	the applied anatomy of Ischiorectal fossa correctly							
	5-At the end of the session the phase 1 student must be able to present							
	boundaries of Ischiorectal fossa correctly							
	6-At the end of the session the phase 1 student must be able to elicit the							
	boundaries of Ischiorectal fossa correctly							
	7-At the end of the session the phase 1 student must be able to enumerate							
	the content of Ischiorectal fossa correctly							
	8-At the end of the session the phase 1 student must be able to present							
11110 5	applied anatomy of Ischiorectal fossa correctly	14	1411) A / 1//	0	
AN49.5	Explain the anatomical basis of Perineal tear, Episiotomy, Perianal	K	KH	N	Lecture	Written	Obstetrics &	
	abscess and Anal fissure						Gynaecology	
	Objectives							
	1-At the end of the session the phase 1 student should be able to explain							
	the anatomical basis of perineal tear correctly							
	2-At the end of the session the phase 1 student should be able to explain							
	the anatomical basis of episiotomy correctly							
	3-At the end of the session the phase 1 student should be able to explain							
	the anatomical basis of perianal abscess correctly							
	4-At the end of the session the phase 1 student should be able to							
	explain the anatomical basis of anal fissure							
	correctly							
	5-At the end of the session the phase 1 student should be able to present							
	the comlications of perineal tear correctly							
	6-At the end of the session the phase 1 student should be able to present							
	the significance of episiotomy correctly							
	7-At the end of the session the phase 1 student should be able to explain							
	the complications of perianal abscess correctly							
	8-At the end of the session the phase 1 student should be able to explain							
	the complications of anal fissure correctly							

Topic:Ve	rtebralcolumn Number o	ofcompete	ncies:(4)		Number of p	rocedures for certificati	ion:(NIL)	
AN50.1	Describe the curvatures of the vertebral column Objectives 1-At the end of the session the phase 1 student must be able to describe the curvatures of the vertebral column correctly 2-At the end of the session the phase 1 student must be able to discuss the curvatures of the vertebral column correctly 3-At the end of the session the phase 1 student must be able to make the diagram of curvatures of the vertebral column correctly 4-At the end of the session the phase 1 student must be able to	К	КН	Y	Lecture	Written/ Viva voce		
AN50.2	Describe & demonstrate the type, articular ends, ligaments and movements of Intervertebral joints, Sacroiliac joints & Pubic symphysis Objectives 1-At the end of the session the phase 1 student must be able to describe the type of the Intervertebral joints correctly 2-At the end of the session the phase 1 student must be able to describe the type of the sacroiliac joints correctly 3-At the end of the session the phase 1 student must be able to describe the type of the pubic symphysis correctly 4-At the end of the session the phase 1 student must be able to discuss the articular ends of the intervertebral joints correctly 5-At the end of the session the phase 1 student must be able to discuss the articular ends of sacroiliac joints correctly 6-At the end of the session the phase 1 student must be able to discuss the articular ends of the pubic symphysis correctly 7-At the end of the session the phase 1 student must be able to enumerate the ligaments of Intervertebral joint correctly 8-At the end of the session the phase 1 student must be able to enumerate the ligaments of the sacroiliac joints correctly 9-At the end of the session the phase 1 student must be able to demonstrate the movements of Intervertebral joint correctly 10-At the end of the session the phase 1 student must be able to demonstrate the movements of Intervertebral joint correctly 11-At the end of the session the phase 1 student must be able to demonstrate the movements of Intervertebral joint correctly 12-At the end of the session the phase 1 student must be able to demonstrate the movements of Sacroiliac joint correctly 12-At the end of the session the phase 1 student must be able to demonstrate the movements of Pubic symphysis correctly	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session			

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	1	Vertical Integration	Horizontal Integration
	The Student Should be able to	100/20	SH/P	(1714)	Methods	Methods	to certify	_	integration
AN50.3	Describe lumbar puncture (site, direction of the needle, structures pierced during the lumbar puncture) Objectives 1-At the end of the session the phase 1 student must be able to describe the lumbar puncture correctly 2-At the end of the session the phase 1 student must be able to describe the site of the lumbar puncture correctly 3-At the end of the session the phase 1 student must be able to describe the direction of the needle during lumbar puncture correctly 4-At the end of the session the phase 1 student must be able to discuss the structures pierced during lumbar puncture correctly	К	КН	Y	Lecture	Written/ Viva voce		General Medicine	
AN50.4	explain the anatomical basis of Scoliosis, Lordosis, Prolapsed disc, Spondylolisthesis & Spina bifida Objectives 1-At the end of the session the phase 1 student should be able to explain the anatomical basis of scoliosis correctly 2- At the end of the session the phase 1 student should be able to explain the anatomical basis of lordosis correctly 3-At the end of the session the phase 1 student should be able to explain the anatomical basis of prolapsed disc correctly 4-At the end of the session the phase 1 student should be able to explain the anatomical basis of spondylolisthesis correctly 5-At the end of the session the phase 1 student should be able to discuss the anatomical basis of scoliosis correctly 6-At the end of the session the phase 1 student should be able to discuss the anatomical basis of scoliosis correctly 7- At the end of the session the phase 1 student should be able to discuss the anatomical basis of lordosis correctly 8-At the end of the session the phase 1 student should be able to discuss the anatomical basis of spondylolisthesis correctly 9-At the end of the session the phase 1 student should be able to discuss the anatomical basis of spondylolisthesis correctly 10-At the end of the session the phase 1 student should be able to discuss the anatomical basis of spondylolisthesis correctly	К	КН	N	Lecture	Written		Orthopedics	

Topic:SectionalAnatomy

Number ofcompetencies:(2)

Number of procedures for certification:(NIL)

AN51.1	Describe & identify the cross-section at the level of T8, T10 and L1	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/	Radiodiagnosis	1
	(transpyloric plane)			•	group discussion, DOAP			
	Objectives				Isession			
	1-At the end of the session the phase 1 student must be able to describe							
	the cross section at the level of T8 correctly							
	2-At the end of the session the phase 1 student must be able to describe							
	the cross section at the level of T10 correctly							
	3-At the end of the session the phase 1 student must be able to describe							
	the cross section at the level of L1 correctly							
	4-At the end of the session the phase 1 student must be able to draw the							
	diagram of cross section at the level of T8 correctly							
	5-At the end of the session the phase 1 student must be able to draw the							
	diagram of cross section at the level of T10 correctly							
	6-At the end of the session the phase 1 student must be able to draw the							
	diagram of cross section at the level of L1 correctly							
	7-At the end of the session the phase 1 student must be able to							
	demonstrate the cross section at the level of T8 correctly							
	8-At the end of the session the phase 1 student must be able to							
	demonstrate the cross section at the level of T10 correctly							
	9-At the end of the session the phase 1 student must be able to							
	demonstrate the cross section at the level of L1 correctly							
AN51.2	Describe & identify the midsagittal section of male and female pelvis	K	SH	Y	Practical, Lecture, Small	Written/ Viva voce/	Radiodiagnosis	
	Objectives				group discussion, DOAP	skill assessment		
	1-At the end of the session the phase 1 student must be able to describe the midsagittal section of male pelvic correctly				session			
	2-At the end of the session the phase 1 student must be able to describe							
	the midsagittal section of female pelvic correctly							
	3-At the end of the session the phase 1 student must be able to identify the							
	structures of midsagittal section of male pelvic correctly							
	4-At the end of the session the phase 1 student must be able to identify the							
	structures of midsagittal section of female pelvic correctly							
	5-At the end of the session the phase 1 student must be able to draw the							
	diagram of structures of midsagittal section of male pelvic correctly							
	6-At the end of the session the phase 1 student must be able to draw the							
-	diagram of structures of midsagittal section of female pelvic correctly				l			<u> </u>
Topic: His	stology&Embryology Numbe	er ofcompe	etencies:(8)		Number of	procedures for certificat	tion:(NIL)	
AN52.1	Describe & identify the microanatomical	K/S	SH	Υ	Lecture, Practical	Written/ skill		
AINUZ. I	features of Gastro-intestinal system:	140	511	'	LCCIUIE, I IACIICAI	assessment		
	Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum,					นองของเทษาแ		
	Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder,							
	Pancreas & Suprarenal gland							
	Objectives							
<u> </u>	ONJEGUIVES				<u> </u>			

1-At the end of the session the phase 1 student must be able to describe				
the microanatomical features of oesophagus correctly				
2-At the end of the session the phase 1 student must be able to describe				
the microanatomical features of fundus of stomach correctly				
3-At the end of the session the phase 1 student must be able to describe				
the microanatomical features of pylorus of stomach correctly				
4-At the end of the session the phase 1 student must be able to describe				
the microanatomical features of duodenum correctly				
5-At the end of the session the phase 1 student must be able to describe				
the microanatomical features of jejunum correctly				
6-At the end of the session the phase 1 student must be able to describe				
the microanatomical features of Ileum correctly				
7-At the end of the session the phase 1 student must be able to describe				
the microanatomical features of large intestine correctly				
8-At the end of the session the phase 1 student must be able to describe				
the microanatomical features of appendix correctly				
9-At the end of the session the phase 1 student must be able to describe				
the microanatomical features of Liver correctly				
10-At the end of the session the phase 1 student must be able to				
describe the microanatomical features of gall bladder correctly				
11-At the end of the session the phase 1 student must be able to				
describe the microanatomical features of pancreas correctly				
12-At the end of the session the phase 1 student must be able to				
describe the microanatomical features of suprarenal gland correctly				
13-At the end of the session the phase 1 student must be able to draw				
the well labeled diagram of microanatomical features of oesophagus				
correctly				
14-At the end of the session the phase 1 student must be able to draw				
the well labeled diagram of microanatomical features of fundus of				
stomach correctly				
15-At the end of the session the phase 1 student must be able to draw				
the well labeled diagram of microanatomical features of pylorus of				
stomach correctly				
16-At the end of the session the phase 1 student must be able to draw				
the well labeled diagram of microanatomical features of duodenum				
correctly				
17-At the end of the session the phase 1 student must be able to draw				
the well labeled diagram of microanatomical features of jejunum correctly				
18-At the end of the session the phase 1 student must be able to draw				
the well labeled diagram of microanatomical features of lleum correctly				
19-At the end of the session the phase 1 student must be able to draw the well labeled diagram of microanatomical features of large intestine				
correctly				

	20-At the end of the session the phase 1 student must be able to draw							
	the well labeled diagram of microanatomical features of appendix							
	correctly							
	21-At the end of the session the phase 1 student must be able to draw							
	the well labeled diagram of microanatomical features of Liver correctly							
	22-At the end of the session the phase 1 student must be able to draw							
	the well labeled diagram of microanatomical features of gall bladder							
	correctly							
	23-At the end of the session the phase 1 student must be able to draw							
	the well labeled diagram of microanatomical features of pancreas							
	correctly							
	24-At the end of the session the phase 1 student must be able to draw							
	the well labeled diagram of microanatomical features of suprarenal gland							
	correctly							
AN52.2	Describe & identify the microanatomical features of:	K/S	SH	Y	Lecture, Practical	Written/ skill		
	Urinary system: Kidney, Ureter & Urinary bladder					assessment		
	Male Reproductive System: Testis, Epididymis, Vas deferens, Prostate							
	& penis							
	Female reproductive system: Ovary, Uterus, Uterine tube, Cervix,							
	Placenta & Umbilical cord							
	Objectives							
	1-At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of Kidney correctly.							
	2. At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of ureter correctly.							
	3.At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of urinary bladder correctly.							
	4. At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of testis correct.							
	5. At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of epididymis correctly.							
	6. At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of vas deferens correctly.							
	7.At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of prostate correctly.							
	8. At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of penis correctly.							
	9. At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of ovary correctly.							
	10. At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of uterus correctly.							
	11. At the end of the session the phase 1 student must be able to							
	describe the microanatomical features of uterine tube correctly.							

12. At the end of the session the phase 1 student must be able to				
describe the microanatomical features of cervix correctly.				
13. At the end of the session the phase 1 student must be able to				
describe the microanatomical features of placenta correctly.				
14. At the end of the session the phase 1 student must be able to				
describe the microanatomical features of umbilical cord correctly.				
15-At the end of the session the phase 1 student must be able to				
identify the microanatomical features of Kidney correctly.				
16. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of ureter correctly.				
17.At the end of the session the phase 1 student must be able to				
identify the microanatomical features of urinary bladder correctly.				
18. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of testis correct.				
19. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of epididymis correctly.				
20. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of vas deferens correctly.				
21.At the end of the session the phase 1 student must be able to				
identify the microanatomical features of prostate correctly.				
22. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of penis correctly.				
23. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of ovary correctly.				
24. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of uterus correctly.				
25. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of uterine tube correctly.				
26. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of cervix correctly.				
27. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of placenta correctly.				
28. At the end of the session the phase 1 student must be able to				
identify the microanatomical features of umbilical cord correctly.				
29-At the end of the session the phase 1 student must be able to draw				
the microanatomical features of Kidney correctly.				
30. At the end of the session the phase 1 student must be able to draw				
i the microanatomical features of ureter correctly.				
31.At the end of the session the phase 1 student must be able to draw				
the microanatomical features of urinary bladder correctly.				
32. At the end of the session the phase 1 student must be able to draw				
i the microanatomical features of testis correct.				
33. At the end of the session the phase 1 student must be able to draw				

	<u> </u>				-		_	
	the microanatomical features of epididymis correctly.							
	36. At the end of the session the phase 1 student must be able to draw							
	the microanatomical features of vas deferens correctly.							
	37. At the end of the session the phase 1 student must be able to draw							
	the microanatomical features of prostate correctly.							
	38. At the end of the session the phase 1 student must be able to							
	draw the microanatomical features of penis correctly.							
	39. At the end of the session the phase 1 student must be able to draw							
	the microanatomical features of ovary correctly.							
	40. At the end of the session the phase 1 student must be able to draw							
	the microanatomical features of uterus correctly.							
	41. At the end of the session the phase 1 student must be able to draw							
	the microanatomical features of uterine tube correctly.							
	42. At the end of the session the phase 1 student must be able to draw							
	the microanatomical features of cervix correctly.							
	43. At the end of the session the phase 1 student must be able to draw							
	the microanatomical features of placenta correctly.							
	44. At the end of the session the phase 1 student must be able to draw							
	the microanatomical features of umbilical cord correctly.							
AN52.3	Describe & identify the microanatomical features of	K/S	SH	N	Lecture, Practical	Written/ skill		
	Cardiooesophageal junction, Corpus luteum					assessment		
	Objectives							
	1-At the end of the session the phase 1 student should be able to describe							
	the development of anterior abdominal wall correctly.							
	2-At the end of the session the phase 1 student should be able to describe							
	the microanatomical features of cardiooesophageal junction correctly.							
	3-At the end of the session the phase 1 student should be able to describe							
	the microanatomical features of corpus luteum correctly.							
	4-At the end of the session the phase 1 student should be able to identify							
	the microanatomical features of cardiooesophageal junction correctly.							
	5-At the end of the session the phase 1 student should be able to identify							
	the microanatomical features of corpus luteum correctly.					12.0	 	
AN52.4	Describe the development of anterior abdominal wall	K	KH	N	Lecture	Written/ Viva voce		
	Objectives							
	1-At the end of the session the phase 1 student should be able to describe							
	the development of anterior abdominal wall correctly.							
	2. At the end of the session the phase 1 student should be able to						1	
	describe the developmental anomalies of anterior abdominal wall correctly.							

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
AN52.5	Describe the development and congenital anomalies of Diaphragm Objectives 1. At the end of session the phase 1 student must be able to describe the gross anatomy of diaphragm correctly. 2. At the end of session the phase 1 student must be able to explain the development of diaphragm accurately. 3. At the end of session the phase 1 student must be able to enumerate the congenital anomalies of Diaphragm correctly.	К	КН	Y	Lecture	Written/ Viva voce		General Surgery	
AN52.6	Describe the development and congenital anomalies of: Foregut, Midgut & Hindgut Objectives 1. At the end of session the phase 1 student must be able to describe Foregut correctly. 2. At the end of session the phase 1 student must be able to describe Midgut correctly. 3. At the end of session the phase 1 student must be able to describe Hindgut correctly. 4. At the end of session the phase 1 student must be able to enumerate the development of foregut accurately. 5. At the end of session the phase 1 student must be able to enumerate the development of midgut accurately. 6. At the end of session the phase 1 student must be able to enumerate the development of Hindgut accurately. 7. At the end of session the phase 1 student must be able to explain the congenital anomalies of foregut accurately. 8. At the end of session the phase 1 student must be able to congenital anomalies of of midgut accurately. 9. At the end of session the phase 1 student must be able to congenital anomalies of Hindgut accurately.	К	KH	Y	Lecture	Written/ Viva voce		General Surgery	
AN52.7	Describe the development of Urinary system Objectives 1. At the end of session the phase 1 student must be able to explain the development of Urinary system correctly. 2. At the end of session the phase 1 student must be able to discuss the development of Urinary system correctly.	К	КН	Y	Lecture	Written/ Viva voce		General Surgery	
AN52.8	Describe the development of male & female reproductive system Objectives 1. At the end of session the phase 1 student must be able to explain the male reproductive system correctly. 2. At the end of session the phase 1 student must be able to explain	К	КН	Y	Lecture	Written/ Viva voce		Obstetrics & Gynaecology	

the female reproductive system correctly. 3. At the end of session the phase 1 student must be able to discu the male reproductive system accurately. 4. At the end of session the phase 1 student must be able to discu the female reproductive system accurately. Topic:Osteology Number		encies:(4)		Number of p	procedures for certific	ation:(NIL)
AN53.1 Identify & hold the bone in the anatomical position, Describe the salient features, articulations & demonstrate the attachments of muscle groups Objectives 1. At the end of session the phase 1 student must be able to explain the anatomical position of bone accurately. 2. At the end of session the phase 1 student must be able to discust the anatomical position of bone accurately. 3. At the end of session the phase 1 student must be able to identify the bone correctly. 4. At the end of session the phase 1 student must be able to demonstrate the anatomical position of bone correctly. 5. At the end of session the phase 1 student must be able to explain the salient features of the bone accurately. 6. At the end of session the phase 1 student must be able to list the salient features of the bone accurately. 7. At the end of session the phase 1 student must be able to identify the salient features of the bone accurately. 8. At the end of session the phase 1 student must be able to show the salient features of the bone accurately. 9. At the end of session the phase 1 student must be able to explain the articulation of the bone accurately. 10. At the end of session the phase 1 student must be able to demonstrate the articulation of the bone accurately. 11. At the end of session the phase 1 student must be able to demonstrate the articulation of the bone accurately. 12. At the end of session the phase 1 student must be able to demonstrate the articulation of the bone accurately. 13. At the end of session the phase 1 student must be able to demonstrate the articulation of the bone accurately. 14. At the end of session the phase 1 student must be able to demonstrate the articulation of the bone accurately. 15. At the end of session the phase 1 student must be able to demonstrate the attachments of muscle groups on bone accurately. 16. At the end of session the phase 1 student must be able to identify the attachments of muscle groups on bone accurately. 17. At the end of session the phase 1 student	K/S K/S n ss y n ss n ss	SH	Y	Lecture, DOAP session	Viva voce/ skill assessment	General Surgery, Obstetrics & Gynaecology

	accurately. 17. At the end of session the phase 1 student must be able to demonstrate the attachments of muscle groups on bone correctly.							
AN53.2	Demonstrate the anatomical position of bony pelvis & show boundaries of pelvic inlet, pelvic cavity, pelvic outlet	K/S	SH	Y	Lecture, DOAP session	Viva voce/ skill assessment	Obstetrics & Gynaecology	
	 Objectives At the end of session the phase 1 student must be able to explain the anatomical position of bony pelvis correctly. At the end of session the phase 1 student must be able to discuss the anatomical position of bony pelvis correctly. At the end of session the phase 1 student must be able to show the anatomical position of bony pelvis correctly. At the end of session the phase 1 student must be able to demonstrate the anatomical position of bony pelvis accurately. At the end of session the phase 1 student must be able to explain the boundaries of pelvic inlet correctly. At the end of session the phase 1 student must be able to discuss the boundaries of pelvic inlet correctly. At the end of session the phase 1 student must be able to show the boundaries of pelvic inlet correctly. At the end of session the phase 1 student must be able to demonstrate the boundaries of pelvic inlet correctly. At the end of session the phase 1 student must be able to explain the boundaries of pelvic outlet correctly. At the end of session the phase 1 student must be able to discuss the boundaries of pelvic outlet correctly. At the end of session the phase 1 student must be able to discuss the boundaries of pelvic outlet correctly. At the end of session the phase 1 student must be able to show the boundaries of pelvic outlet correctly. At the end of session the phase 1 student must be able to explain the boundaries of pelvic cavity correctly. At the end of session the phase 1 student must be able to explain the boundaries of pelvic cavity correctly. At the end of session the phase 1 student must be able to explain the boundaries of pelvic cavity correctly. At the end of session the phase 1 student must be able to s							
	demonstrate the boundaries of pelvic cavity correctly. 17. At the end of session the phase 1 student must be able to explain the diameter of bony pelvis accurately. 18. At the end of session the phase 1 student must be able to							

	describe the axes of bony pelvis accurately.								
AN53.3	Define true pelvis and false pelvis and demonstrate sex determination in male & female bony pelvis Objectives	K/S	SH	Y	Lecture, DOAP session	Viva voce/ skill assessment	1	Obstetrics & Gynaecology	
	 At the end of session the phase 1 student must be able to describe the true pelvis and false pelvis accurately. At the end of session the phase 1 student must be able to differentiate the true pelvis and false pelvis accurately. At the end of session the phase 1 student must be able to describe the sex determination of bony pelvis accurately. At the end of session the phase 1 student must be able to identify the sex determination of bony pelvis accurately. At the end of session the phase 1 student must be able to demonstrate the sex determination of bony pelvis accurately. 								
AN53.4	Explain and demonstrate clinical importance of bones of abdominopelvic region (sacralization of lumbar vertebra, Lumbarization of 1st sacral vertebra, types of bony pelvis & Coccyx)	K/S	SH	N	Lecture, DOAP session	Viva voce/ skill assessment			
	1. At the end of session the phase 1 student must be able to describe the sacralization of lumbar vertebra correctly. 2. At the end of session the phase 1 student must be able to describe the Lumbarization of 1st sacral vertebra correctly. 3. At the end of session the phase 1 student must be able to explain the types of bony pelvis & Coccyx correctly. 4. At the end of session the phase 1 student must be able to demonstrate the sacralization of lumbar vertebra correctly. 5. At the end of session the phase 1 student must be able to demonstrate the Lumbarization of 1st sacral vertebra correctly. 6. At the end of session the phase 1 student must be able to show the types of bony pelvis & Coccyx correctly.								
Topic:Rad	liodiagnosis Number o	ofcompete	ncies:(3)		Number of p	procedures for certific	cation:(NIL)		
AN54.1	Describe & identify features of plain X ray abdomen Objectives 1. At the end of session the phase 1 student must be able to explain the plain X ray abdomen accurately. 2. At the end of session the phase 1 student must be able to discuss the plain X ray abdomen accurately. 3. At the end of session the phase 1 student must be able to identify the features of plain X ray of abdomen correctly.	K/S	SH	Y	Lecture, DOAP session	Viva voce/ skill assessment	F	Radiodiagnosis	

	4. At the end of session the phase 1 student must be able to demonstrate the plain X ray of abdomen accurately.								
AN54.2	 Describe & identify the special radiographs of abdominopelvic region (contrast X ray Barium swallow, Barium meal, Barium enema, Cholecystography, Intravenous pyelography & Hysterosalpingography) Objectives 1. At the end of session the phase 1 student must be able to explain the special radiographs of abdominopelvic region accurately. 2. At the end of session the phase 1 student must be able to identify the special radiographs of abdominopelvic region correctly. 3. At the end of session the phase 1 student must be able to show the special radiographs of abdominopelvic region accurately. 4. At the end of session the phase 1 student must be able to demonstrate the special radiographs of abdominopelvic region accurately. 	K/S	SH	Y	Lecture, DOAP session	Viva voce/ skill assessment		Radiodiagnosis	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration
AN54.3	Describe role of ERCP, CT abdomen, MRI, Arteriography in radiodiagnosis of abdomen	К	KH	N	Lecture	Viva voce		Radiodiagnosis	
	 Objectives At the end of session the phase 1 student must be able to explain the role of ERCP in radiodiagnosis of abdomen correctly. At the end of session the phase 1 student must be able to discuss the role of ERCP in radiodiagnosis of abdomen accurately. At the end of session the phase 1 student must be able to explain the role of CT of abdomen correctly. At the end of session the phase 1 student must be able to discuss the role of CT of abdomen accurately. At the end of session the phase 1 student must be able to explain the role of MRI of abdomen correctly. At the end of session the phase 1 student must be able to discuss the role of MRI of abdomen accurately. At the end of session the phase 1 student must be able to explain the role of Arteriography in radiodiagnosis of abdomen Correctly. At the end of session the phase 1 student must be able to explain the role of Arteriography in radiodiagnosis of abdomen Correctly. 								

	abdomen accurately.									
Topic:Su	rfacemarking Number	ofcompete	fcompetencies:(2) Number of procedures for certification:(NIL)							
AN55.1	Demonstrate the surface marking of; Regions and planes of abdomen, Superficial inguinal ring, Deep inguinal ring, McBurney's point, Renal Angle & Murphy's point Objectives	K/S	SH		Practical, Lecture, Small group discussion, DOAP session			General Surgery		
	 At the end of session the phase 1 student must be able to describe the Regions and planes of abdomen accurately. At the end of session the phase 1 student must be able to describe the superficial inguinal ring accurately. At the end of session the phase 1 student must be able to describe the deep inguinal ring accurately. At the end of session the phase 1 student must be able to describe the McBurney's point accurately. At the end of session the phase 1 student must be able to describe the Renal Angle accurately. At the end of session the phase 1 student must be able to describe the Murphy's point accurately. At the end of session the phase 1 student must be able to discuss the Regions and planes of abdomen accurately. At the end of session the phase 1 student must be able to discuss the Superficial inguinal ring accurately. At the end of session the phase 1 student must be able to discuss the deep inguinal ring accurately. At the end of session the phase 1 student must be able to discuss the McBurney's point accurately. At the end of session the phase 1 student must be able to discuss the Renal Angle accurately. At the end of session the phase 1 student must be able to discuss the Murphy's point accurately. At the end of session the phase 1 student must be able to identify the Renal Angle accurately. At the end of session the phase 1 student must be able to identify the Renal Angle accurately. At the end of session the phase 1 student must be able to identify the Murphy's point accurately. At the end of session the phase 1 student must be able to identify the Murphy's point accurately. 									
	the Regions and planes of abdomen accurately. 16. At the end of session the phase 1 student must be able to identify the Superficial inguinal ring accurately. 17. At the end of session the phase 1 student must be able to identify									

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	the deep inguinal ring accurately.								
1	18. At the end of session the phase 1 student must be able to identify								
1	the McBurney's point accurately.								
	19. At the end of session the phase 1 student must be able to identify								
1	the Renal Angle accurately.								
	20. At the end of session the phase 1 student must be able to identify								
	the Murphy's point accurately.								
	21. At the end of session the phase 1 student must be able to								
	demonstrate the Regions and planes of abdomen accurately.								
	22. At the end of session the phase 1 student must be able to								
	demonstrate the superficial inguinal ring accurately.								
	23. At the end of session the phase 1 student must be able to								
	demonstrate the deep inguinal ring accurately.								
	24. At the end of session the phase 1 student must be able to								
1	demonstrate the McBurney's point accurately.								
	25. At the end of session the phase 1 student must be able to								
	demonstrate the Renal Angle accurately.								
	26. At the end of session the phase 1 student must be able to								
	demonstrate the Murphy's point accurately.								
	27. At the end of session the phase 1 student must be able to explain								
	the clinical anatomy of Superficial inguinal ring accurately.								
	28. At the end of session the phase 1 student must be able to explain the clinical anatomy of deep inguinal ring accurately.								
	29. At the end of session the phase 1 student must be able to explain								
	the clinical anatomy of McBurney's point accurately.								
AN55.2	Demonstrate the surface projections of: Stomach, Liver, Fundus	K/S	SH	Y	Practical, Lecture, Small	Vivo voce/ skill		General Surgery	
AN33.2	of gall bladder, Spleen, Duodenum, Pancreas, Ileocaecal junction,	N/S	311			assessment		General Surgery	
	Kidneys & Root of mesentery				session	assessificiti			
	Numeys & Noot of mesentery				36331011				
	Objectives								
	1. At the end of session the phase 1 student must be able to								
	describe the surface anatomy of Stomach correctly.								
	2. At the end of session the phase 1 student must be able to								
	describe the surface anatomy of liver correctly.								
	3. At the end of session the phase 1 student must be able to								
	describe the surface anatomy of fundus of gall bladder								
	correctly.								
	4. At the end of session the phase 1 student must be able to								
	describe the surface anatomy of duodenum correctly.								
	5. At the end of session the phase 1 student must be able to								
	describe the surface anatomy of pancreas correctly.								
	6. At the end of session the phase 1 student must be able to								
	describe the surface anatomy of ileocaecal junction correctly.								
	7. At the end of session the phase 1 student must be able to								
	At the end of session the phase 1 student must be able to describe the surface anatomy of ileocaecal junction correctly.								
	1. At the one of session the phase I student must be able to								<u> </u>

	describe the surface anatomy of Kidney correctly. 8. At the end of session the phase 1 student must be able to describe the surface anatomy of root of mesentry correctly. 9. At the end of session the phase 1 student must be able to demonstrate the surface anatomy of liver in simulated								
	environment correctly. 10. At the end of session the phase 1 student must be able to demonstrate the surface anatomy of fundus of gall bladder in simulated environment correctly. 11. At the end of session the phase 1 student must be able to								
	demonstrate the surface anatomy of duodenum in simulated environment correctly. 12. At the end of session the phase 1 student must be able to demonstrate the surface anatomy of pancreas in simulated								
	environment correctly. 13. At the end of session the phase 1 student must be able to demonstrate the surface anatomy of ileocaecal junction in simulated environment correctly.								
	14. At the end of session the phase 1 student must be able to demonstrate the surface anatomy of Kidney in simulated environment correctly.15. At the end of session the phase 1 student must be able to								
	demonstrate the surface anatomy of root of mesentery in simulated environment correctly.								
Topic: Me	eninges&CSF Number	ofcompete	encies:(2)		Number of p	procedures for certific	ation:(NIL)		
AN56.1	Describe & identify various layers of meninges with its extent & modifications Objectives 1. At the end of session the phase 1 student must be able to describe the meninges accurately. 2. At the end of session the phase 1 student must be able to identify	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session			General Medicine	
	the various layers the meninges correctly. 3. At the end of session the phase 1 student must be able to demonstrate the extent & modifications of meninges correctly.								
AN56.2	Describe circulation of CSF with its applied anatomy Objectives 1. At the end of session the phase 1 student must be able to explain circulation of CSF accurately. 2. At the end of session the phase 1 student must be able to describe the composition of CSF accurately. 3. At the end of session the phase 1 student must be able to describe the applied anatomy of circulation of CSF accurately.	К	КН	Y	Lecture	Written/ Viva voce		General Medicine	Physiology

Topic:Sp	oinalCord Number o	fcompete	ncies:(5)		Number of p	rocedures for certification	n:(NIL)	
N57.1	Identify external features of spinal cord Objectives 1. At the end of session the phase 1 student must be able to describe the spinal cord accurately. 2. At the end of session the phase 1 student must be able to explain the external features of spinal cord correctly. 3. At the end of session the phase 1 student must be able to discuss the external features of spinal cord accurately. 4. At the end of session the phase 1 student must be able to identify the external features of spinal cord correctly. 5. At the end of session the phase 1 student must be able to demonstrate the external features of spinal cord accurately.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session			
N57.2	Describe extent of spinal cord in child & adult with its clinical implication Objectives 1. At the end of session the phase 1 student must be able to explain the extent of spinal cord in child & adult correctly. 2. At the end of session the phase 1 student must be able to explain the segment of spinal cord in child & adult correctly. 3. At the end of session the phase 1 student must be able to enumerate the clinical implication of spinal cord in child & adult correctly.	К	КН	Y	Lecture	Written/ Viva voce		
N57.3	Draw & label transverse section of spinal cord at mid-cervical & mid-thoracic level Objectives 1. At the end of session the phase 1 student must be able to describe the transverse section of spinal cords at mid-cervical accurately. 2. At the end of session the phase 1 student must be able to explain the transverse section of spinal cord at mid-thoracic level accurately. 3. At the end of session the phase 1 student must be able to discuss the transverse section of spinal cords at mid-cervical accurately. 4. At the end of session the phase 1 student must be able to discuss the transverse section of spinal cord at mid-thoracic level accurately.	К	КН	Y	Lecture	Written/ Viva voce		
N57.4	Enumerate ascending & descending tracts at mid thoracic level of spinal cord Objectives 1. At the end of session the phase 1 student must be able to describe the ascending tracts at mid thoracic level of spinal cord correctly. 2. At the end of session the phase 1 student must be able to describe the descending tracts at mid thoracic level of spinal cord correctly.	К	КН	Y	Lecture	Written/ Viva voce	General Medicine	Physiology

Number	 At the end of session the phase 1 student must be able to discuss the ascending tracts at mid thoracic level of spinal cord correctly. At the end of session the phase 1 student must be able to discuss the descending tracts at mid thoracic level of spinal cord correctly. COMPETENCY The student should be able to 	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration
AN57.5	Describe anatomical basis of syringomyelia Objectives 1. At the end of session the phase 1 student must be able to define the anatomical basis of syringomyelia accurately. 2. At the end of session the phase 1 student must be able to discuss the anatomical basis of syringomyelia correctly.	К	КН	N	Lecture	Written	P	General Medicine	Physiology
Topic:Me	dullaOblongata Number	ofcompete	ncies:(4)		Number of p	procedures for certific	ation:(NIL)		
AN58.1	Identify external features of medulla oblongata Objectives 1. At the end of session the phase 1 student must be able to explain the external features of medulla oblongata accurately. 2. At the end of session the phase 1 student must be able to discuss the external features of medulla oblongata accurately. 3. At the end of session the phase 1 student must be able to identify the external features of medulla oblongata accurately. 4. At the end of session the phase 1 student must be able to demonstrate the external features of medulla oblongata accurately.	K/S	SH	Y	Lecture, DOAP session	Written/ Viva voce/ skill assessment			
AN58.2	 Describe transverse section of medulla oblongata at the level of 1) pyramidal decussation, 2) sensory decussation 3) ION Objectives At the end of session the phase 1 student must be able to enumerate the transverse section of medulla oblongata at the level of pyramidal decussation accurately. At the end of session the phase 1 student must be able to enumerate the transverse section of medulla oblongata at the level of sensory decussation accurately. At the end of session the phase 1 student must be able to enumerate the transverse section of medulla oblongata at the level of ION accurately. At the end of session the phase 1 student must be able to discuss the transverse section of medulla oblongata at the level of pyramidal decussation accurately. At the end of session the phase 1 student must be able to discuss the transverse section of medulla oblongata at the level of sensory decussation accurately. 	К	KH	Y	Lecture	Written/ Viva voce			

	6. At the end of session the phase 1 student must be able to discuss								
	the transverse section of medulla oblongata at the level of ION								
	accurately.								
AN58.3	Enumerate cranial nerve nuclei in medulla oblongata with their functional group Objectives 1. At the end of session the phase 1 student must be able to explain the cranial nerve nuclei in medulla oblongata correctly. 2. At the end of session the phase 1 student must be able to describe the functional group of cranial nerve nuclei in medulla oblongata accurately.	К	KH	Y	Lecture	Written/ Viva voce			Physiology
AN58.4	Describe anatomical basis & effects of medial & lateral medullary syndrome Objectives 1. At the end of session the phase 1 student should be able to define the anatomical basis of medial medullary syndrome accurately. 2. At the end of session the phase 1 student should be able to define the anatomical basis of lateral medullary syndrome accurately. 3. At the end of session the phase 1 student should be able to describe the effects of medial medullary syndrome accurately. 4. At the end of session the phase 1 student should be able to describe the effects of lateral medullary syndrome accurately.	К	КН	N	Lecture	Written		General Medicine	Physiology
Topic:Po	ns Number o	ofcompete	ncies:(3)		Number of pr	ocedures for certificat	tion:(NIL)		
AN59.1	Identify external features of pons Objectives 1. At the end of session the phase 1 student must be able to describe the external features of pons correctly. 2. At the end of session the phase 1 student must be able to discuss the external features of pons correctly. 3. At the end of session the phase 1 student must be able to identify the external features of pons correctly. 4. At the end of session the phase 1 student must be able to demonstrate the external features of pons correctly.	K/S	SH	Y	Lecture, DOAP session	Written/ Viva voce/ skill assessment			Physiology
AN59.2	Draw & label transverse section of pons at the upper and lower level Objectives 1. At the end of session the phase 1 student must be able to describe the transverse section of pons at the upper level accurately. 2. At the end of session the phase 1 student must be able to describe the transverse section of pons at the lower level accurately. 3. At the end of session the phase 1 student must be able to identify the transverse section of pons at the upper level accurately. 4. At the end of session the phase 1 student must be able to identify	К	KH	Y	Lecture	Written/ Viva voce			

	the transverse section of pons at lower level accurately.								
AN59.3	Enumerate cranial nerve nuclei in pons with their functional group Objectives 1. At the end of session the phase 1 student must be able to explain the cranial nerve nuclei in pons correctly. 2. At the end of session the phase 1 student must be able to explain the functional group of cranial nerve nuclei in pons correctly. 3. At the end of session the phase 1 student must be able to describe the origin of cranial nerve nuclei in pons correctly. 4. At the end of session the phase 1 student must be able to demonstrate the origin of cranial nerve nuclei in pons accuratetly.	К	КН	Y	Lecture	Written/ Viva voce			
Topic:Cer	ebellum Number	ofcompete	ncies:(3)		Number of pr	ocedures for certifica	tion:(NIL)		
AN60.1	 Describe & demonstrate external & internal features of cerebellum Objectives At the end of session the phase 1 student must be able to describe the cerebellum accurately. At the end of session the phase 1 student must be able to explain the external features of cerebellum correctly. At the end of session the phase 1 student must be able to discuss the external features of cerebellum accurately. At the end of session the phase 1 student must be able to identify the external features of cerebellum correctly. At the end of session the phase 1 student must be able to demonstrate the external features of cerebellum accurately. At the end of session the phase 1 student must be able to explain the internal features of cerebellum correctly. At the end of session the phase 1 student must be able to discuss the internal features of cerebellum accurately. At the end of session the phase 1 student must be able to identify the internal features of cerebellum correctly. At the end of session the phase 1 student must be able to demonstrate the internal features of cerebellum accurately. 	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ skill assessment			
AN60.2	Describe connections of cerebellar cortex and intracerebellar nuclei Objectives 1. At the end of session the phase 1 student must be able to explain the connections of cerebellar cortex accurately. 2. At the end of session the phase 1 student must be able to enumerate the connections of intracerebellar nuclei correctly.	К	KH	Y	Lecture	Written/ Viva voce			
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration

AN60.3	Describe anatomical basis of cerebellar dysfunction Objectives 1. At the end of session the phase 1 student should be able to explain the anatomical basis of cerebellar dysfunction correctly. 2. At the end of session the phase 1 student should be able to discuss the anatomical basis of cerebellar dysfunction correctly.	К	КН	N	Lecture	Written		General Medicine	Physiology
Topic:Mic		ofcompete	ncies:(3)		Number of p	ocedures for certific	ation:(NIL)		
AN61.1	Identify external & internal features of midbrain Objectives 1. At the end of session the phase 1 student must be able to describe the midbrain accurately. 2. At the end of session the phase 1 student must be able to explain the external features of midbrain correctly. 3. At the end of session the phase 1 student must be able to discuss the external features of midbrain accurately. 4. At the end of session the phase 1 student must be able to identify the external features of midbrain correctly. 5. At the end of session the phase 1 student must be able to demonstrate the external features of midbrain accurately. 6. At the end of session the phase 1 student must be able to explain the internal features of midbrain correctly. 7. At the end of session the phase 1 student must be able to discuss the internal features of midbrain accurately. 8. At the end of session the phase 1 student must be able to identify the internal features of midbrain correctly. 9. At the end of session the phase 1 student must be able to demonstrate the internal features of midbrain accurately.	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	skill assessment			
AN61.2	 Describe internal features of midbrain at the level of superior & inferior colliculus Objectives At the end of session the phase 1 student must be able to describe the Midbrain accurately. At the end of session the phase 1 student must be able to explain the internal features of midbrain at the level of superior colliculus correctly. At the end of session the phase 1 student must be able to discuss the internal features of midbrain at the level of inferior colliculus accurately. At the end of session the phase 1 student must be able to identify the internal features of midbrain at the level of superior colliculus correctly. 	K	КН	Y	Lecture	Written/ Viva voce			
AN61.3	Describe anatomical basis & effects of Benedikt's and Weber's syndrome Objectives	K	KH	N	Lecture	Written		General Medicine	Physiology

	 At the end of session the phase 1 student should be able to define the anatomical basis of Benedikt's syndrome correctly. At the end of session the phase 1 student should be able to define the anatomical basis Weber's syndrome correctly. At the end of session the phase 1 student should be able to enumerate the effects of Benedikt's syndrome accurately. At the end of session the phase 1 student should be able to enumerate the effects of Weber's syndrome accurately. 							
Topic: Cr	anial nerve nuclei &Cerebralhemispheres Number	ofcompe	tencies:(6)		Number of	procedures for certification	on:(NIL)	
AN62.1	Enumerate cranial nerve nuclei with its functional component Objectives 1. At the end of session the phase 1 student must be able to describe the cranial nerve nuclei accurately. 2. At the end of session the phase 1 student must be able to describe the functional component of cranial nerve nuclei accurately.	K	KH	Y	Lecture	Written/ Viva voce		
AN62.2	 Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere Objectives At the end of session the phase 1 student must be able to explain the surfaces of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to discuss the surfaces of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to identify the surfaces of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to demonstrate the surfaces of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to explain the sulci of cerebral hemisphere correctly. At the end of session the phase 1 student must be able to discuss the sulci of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to identify the sulci of cerebral hemisphere correctly. At the end of session the phase 1 student must be able to demonstrate the sulci of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to explain the gyri of cerebral hemisphere correctly. At the end of session the phase 1 student must be able to discuss the gyri of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to identify the gyri of cerebral hemisphere correctly. At the end of session the phase 1 student must be able to demonstrate the gyri of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to explain the poles of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to demonstrate the gyri of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to demonstrate the gyri of cerebral hemisphere accurately. 	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session		General Medicine	Physiology

	 poles of cerebral hemisphere correctly. 15. At the end of session the phase 1 student must be able to identify the poles of cerebral hemisphere accurately. 16. At the end of session the phase 1 student must be able to demonstrate the poles of cerebral hemisphere correctly. 17. At the end of session the phase 1 student must be able to explain the functional areas of cerebral hemisphere accurately. 18. At the end of session the phase 1 student must be able to discuss the functional areas of cerebral hemisphere correctly. 19. At the end of session the phase 1 student must be able to identify the functional areas of cerebral hemisphere correctly. 20. At the end of session the phase 1 student must be able to demonstrate the functional areas of cerebral hemisphere accurately. 							
AN62.3	Describe the white matter of cerebrum Objectives 1. At the end of session the phase 1 student must be able to define the white matter of cerebrum correctly. 2. At the end of session the phase 1 student must be able to discuss the white matter of cerebrum accurately.	К	KH	Y	Lecture	Written/ Viva voce	General Medicine	Physiology
AN62.4	 Enumerate parts & major connections of basal ganglia & limbic lobe Objectives At the end of session the phase 1 student must be able to explain the parts of basal ganglia correctly At the end of session the phase 1 student must be able to discuss the parts of basal ganglia correctly At the end of session the phase 1 student must be able to explain the major connections of basal ganglia correctly At the end of session the phase 1 student must be able to discuss the major connections of basal ganglia correctly At the end of session the phase 1 student must be able to explain the parts of limbic lobe correctly At the end of session the phase 1 student must be able to discuss the parts of limbic lobe correctly At the end of session the phase 1 student must be able to explain the major connections of limbic lobe correctly At the end of session the phase 1 student must be able to discuss the major connections of limbic lobe correctly At the end of session the phase 1 student must be able to discuss the major connections of limbic lobe correctly 	К	KH	Y	Lecture	Written/ Viva voce		Physiology
AN62.5	Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus. Objectives 1. At the end of session the phase 1 student must be able to explain the boundaries of dorsal thalamus correctly 2. At the end of session the phase 1 student must be able to enumerate the parts of dorsal thalamus accurately. 3. At the end of session the phase 1 student must be able to describe the gross relations of dorsal thalamus accurately.	К	KH	Y	Lecture	Written/ Viva voce	General Medicine	Physiology

4. At the end of session the phase 1 student must be able to explain the					
major nuclei of dorsal thalamus correctly					
5. At the end of session the phase 1 student must be able to describe the					
connections of dorsal thalamus correctly					
6. At the end of session the phase 1 student must be able to explain the					
boundaries of hypo thalamus correctly					
7. At the end of session the phase 1 student must be able to enumerate					
the parts of hypo thalamus accurately.					
8. At the end of session the phase 1 student must be able to describe the					
gross relations of hypo thalamus accurately.					
9. At the end of session the phase 1 student must be able to explain the					
major nuclei of hypo thalamus correctly					
10. At the end of session the phase 1 student must be able to describe the					
connections of hypo thalamus correctly					
11. At the end of session the phase 1 student must be able to explain the					
boundaries of epithalamus correctly					
12. At the end of session the phase 1 student must be able to enumerate					
the parts of epithalamus accurately.					
13. At the end of session the phase 1 student must be able to describe the					
gross relations of epithalamus accurately.					
14. At the end of session the phase 1 student must be able to explain the					
major nuclei of epithalamus correctly					
15. At the end of session the phase 1 student must be able to describe					
the connections of epithalamus correctly					
16. At the end of session the phase 1 student must be able to explain the					
boundaries of metathalamus correctly					
17. At the end of session the phase 1 student must be able to enumerate					
the parts of metathalamus accurately.					
18. At the end of session the phase 1 student must be able to describe the					
gross relations of metahalamus accurately.					
19. At the end of session the phase 1 student must be able to explain the					
major nuclei of metahalamus correctly					
20. At the end of session the phase 1 student must be able to describe					
the connections of metathalamus correctly					
21. At the end of session the phase 1 student must be able to explain the					
boundaries of metathalamus correctly					
22. At the end of session the phase 1 student must be able to enumerate					
the parts of suthalamus accurately.					
23. At the end of session the phase 1 student must be able to describe the					
gross relations of subhalamus accurately.					
24. At the end of session the phase 1 student must be able to explain the					
major nuclei of subhalamus correctly					
25. At the end of session the phase 1 student must be able to describe					
the connections of subthalamus correctly					
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AN62.6	Describe & identify formation, branches & major areas of distribution	K/S	SH	Υ	Practical, Lecture, Small	Written/ Viva voce/	General	Physiology
	of circle of Willis				group discussion, DOAP	skill assessment	Medicine	
	Objectives				session			
	1. At the end of session the phase 1 student must be able to explain the							
	formation of circle of Willis correctly.							
	2. At the end of session the phase 1 student must be able to enumerate							
	the branches of circle of Willis accurately.							
	3. At the end of session the phase 1 student must be able to explain the							
	major areas of distribution of circle of Willis correctly.							
	4. At the end of session the phase 1 student must be able to show the							
	formation of circle of Willis correctly.							
	5. At the end of session the phase 1 student must be able to identify the							
	branches of circle of Willis correctly.							
	6. At the end of session the phase 1 student must be able to							
	demonstrate the major areas of distribution of circle of Willis correctly.							

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
opic:Ve	ntricularSystem Number	ofcompete	encies:(2)		Number of p	procedures for certifi	cation:(NIL)		
N63.1	Describe & demonstrate parts, boundaries & features of Illrd, IVth & lateral ventricle Objectives 1. At the end of session the phase 1 student must be able to enumerate the parts of Illrd, ventricle accurately. 2. At the end of session the phase 1 student must be able to identify the parts of Illrd, ventricle accurately. 3. At the end of session the phase 1 student must be able to demonstrate the parts of Illrd, ventricle correctly 4. At the end of session the phase 1 student must be able to enumerate the parts of IVth ventricle accurately. 5. At the end of session the phase 1 student must be able to identify the parts of IVth ventricle accurately. 6. At the end of session the phase 1 student must be able to demonstrate the parts of IVth ventricle correctly. 7. At the end of session the phase 1 student must be able to enumerate the parts of lateral ventricle accurately. 8. At the end of session the phase 1 student must be able to identify the parts of lateral ventricle accurately. 9. At the end of session the phase 1 student must be able to	K/S	SH	Y	Practical, Lecture, Small group discussion, DOAP session	1			Physiology
N63.2	Describe anatomical basis of congenital hydrocephalus Objectives 1. At the end of session the phase 1 student should be able to define the anatomical basis of congenital hydrocephalus accurately. 2. At the end of session the phase 1 student should be able to discuss the anatomical basis of congenital hydrocephalus accurately.	К	КН	N	Lecture	Written		Pediatrics	Physiology
Topic: His	stology&Embryology Number	rofcompete	encies:(3)		Number of p	procedures for certif	ication:(NIL)		
N64.1	Describe & identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum Objectives 1. At the end of session the phase 1 student must be able to explain the microanatomical features of Spinal cord correctly. 2. At the end of session the phase 1 student must be able to discuss the microanatomical features of Spinal cord correctly.	K/S	SH	Υ	Lecture,Practical	Written/ skill assessment			

	At the end of session the phase 1 student must be able to identify					ı		
'	·							
1	the microanatomical features of Spinal cord accurately.							
1	4. At the end of session the phase 1 student must be able to draw							
'	the diagram of microanatomical features of Spinal cord correctly.							
	5. At the end of session the phase 1 student must be able to explain							
'	the microanatomical features of Cerebellum correctly.							
	6. At the end of session the phase 1 student must be able to discuss							
'	the microanatomical features of Cerebellum correctly.							
'	7. At the end of session the phase 1 student must be able to identify							
1	the microanatomical features of Cerebellum accurately.							
'	8. At the end of session the phase 1 student must be able to draw							
'	the diagram of microanatomical features of Cerebellum correctly.							
	9. At the end of session the phase 1 student must be able to explain							
'	the microanatomical features of Cerebrum correctly.							
1	10. At the end of session the phase 1 student must be able to discuss							
'	the microanatomical features of Cerebrum correctly.							
'	11. At the end of session the phase 1 student must be able to identify							
'	the microanatomical features of Cerebrum accurately.							
'	12. At the end of session the phase 1 student must be able to draw							
	the diagram of microanatomical features of Cerebrum correctly.							
AN64.2	Describe the development of neural tube, spinal cord, medulla	K	KH	Υ	Lecture	Written/ Viva voce		
'	oblongata, pons, midbrain, cerebral hemisphere & cerebellum							
1	Objectives							
'	At the end of session the phase 1 student must be able to							
'	enumerate the development of neural tube correctly.							
'	2. At the end of session the phase 1 student must be able to							
'	describe the congenital anomalies of neural tube accurately.							
'	3. At the end of session the phase 1 student must be able to							
'	enumerate the development of spinal cord correctly.							
'	4. At the end of session the phase 1 student must be able to							
1	describe the congenital anomalies of spinal cord accurately							
1	5. At the end of session the phase 1 student must be able to							
,	enumerate the development of medulla oblongata correctly.							
'	6. At the end of session the phase 1 student must be able to discuss							
'	the development of medulla oblongata accurately.							
1	7. At the end of session the phase 1 student must be able to							
1	enumerate the development of pons correctly.							
1	8. At the end of session the phase 1 student must be able to discuss							
1	the development of pons accurately.							
1	9. At the end of session the phase 1 student must be able to							
1	enumerate the development of midrain correctly.							
1				i i		i e	ı	4 ,
	10. At the end of session the phase 1 student must be able to discuss							
Ī '	I 10. At the end of ecceion the phace 1 student must be able to discuss.							1

	 At the end of session the phase 1 student must be able to enumerate the development of cerebral hemisphere correctly. At the end of session the phase 1 student must be able to discuss the clinical implication of development of cerebral hemisphere accurately. At the end of session the phase 1 student must be able to enumerate the development of cerebellum correctly. At the end of session the phase 1 student must be able to discuss the clinical implication of development of cerebellum accurately. 								
AN64.3	Describe various types of open neural tube defects with its embryological basis Objectives 1. At the end of session the phase 1 student must be able to explain the various types of open neural tube defects accurately. 2. At the end of session the phase 1 student must be able to explain the embryological basis of various types of open neural tube defects accurately.	К	KH	N	Lecture	Written/ Viva voce		Obstetrics & Gynaecology, Pediatrics	
Topic:Epi	theliumhistology	ofcompete	encies:(2)		Number of	competencies for cert	ification:(01)	
AN65.1	 Identify epithelium under the microscope & describe the various types that correlate to its function Objectives At the end of session the phase 1 student must be able to describe the epithelium correctly. At the end of session the phase 1 student must be able to describe the various types of epithelium correctly. At the end of session the phase 1 student must be able to differentiate the various types of epithelium correctly. At the end of session the phase 1 student must be able to identify the features of epithelium under the microscope correctly. At the end of session the phase 1 student must be able to demonstrate the features of epithelium under the microscope correctly. At the end of session the phase 1 student must be able to discuss the functions of different type of epithelium accurately. At the end of session the phase 1 student must be able to list the examples of various types of epithelium correctly. 	K/S	Р	Y	Lecture, Practical	Written/ skill assessment	1		
AN65.2	Describe the ultrastructure of epithelium Objectives 1. At the end of session the phase 1 student should be able to explain the ultrastructure of epithelium correctly 2. At the end of session the phase 1 student should be able to discuss the ultrastructure of epithelium correctly.	К	KH	N	Lecture, Practical	Written			

Topic: C	onnectivetissuehistology Numbe	r ofcompe	tencies:(2)		Number	of procedures for ce	ertification:(NIL)	
AN66.1	Describe & identify various types of connective tissue with functional correlation Objectives 1. At the end of session the phase 1 student must be able to define the connective tissue accurately. 2. At the end of session the phase 1 student must be able to describe the various type of connective tissue correctly. 3. At the end of session the phase 1 student must be able to describe the functional correlation of various type of connective tissue correctly. 4. At the end of session the phase 1 student must be able to identify the various type of connective tissue correctly. 5. At the end of session the phase 1 student must be able to draw the diagram of various type of connective tissue correctly.	K/S	SH	Y	Lecture, Practical	Written/ skill assessment			Physiology
AN66.2 Topic: Mu	Describe the ultrastructure of connective tissue objectives 1. At the end of session the phase 1 student should be able to explain the ultrastructure of connective tissue accurately. 2. At the end of session the phase 1 student should be able to discuss the ultrastructure of connective tissue accurately. Isclehistology Number	K ofcompete	KH encies:(3)	N	Lecture, Practical Number of	Written procedures for cert	ification:(NIL)	Pathology	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
AN67.1	Describe & identify various types of muscle under the microscope Objectives: 1. At the end of session the phase I student must be able to describe the muscular tissue correctly 2. At the end of session the phase I student must be able to identify the muscular tissue correctly. 3. At the end of session the phase I student must be able to draw the muscular tissue correctly	K/S	SH	Y	Lecture, Practical	Written/ skill assessment			
AN67.2	Classify muscle and describe the structure-function correlation of the Same Objectives: 1.At the end of session the phase I student must be able to describe the muscular tissue correctly	К	КН	Y	Lecture, Practical	Written			Physiology

	features of different types of muscular tissue correctly.								
	4. At the end of session the phase I student must be able to describe the								
	functions of different types of muscular tissue according to structure								
	correctly.								
AN67.3	Describe the ultrastructure of muscular tissue	K	KH	N	Lecture, Practical	Written			
/ 11 10 / .0	Objectives:		1			VVIIIIOII			
	1.At the end of session the phase I student should be able to describe the								
	ultrastructure of muscular tissue correctly.								
	2. At the end of session the phase I student should be able to describe the								
	features of ultrastructure of different types of muscular tissue correctly.								
Topic: N	ervoustissuehistology Numbe	er ofcomp	etencies:(3))	Number	of procedures for ce	ertification:(NIL)	
11100.4		14/0	1 011		1			Т	
AN68.1	Describe & Identify multipolar & unipolar neuron, ganglia, peripheral	K/S	SH	Y	Lecture, Practical	Written/ skill			
	nerve					assessment			
	Objectives:								
	1. At the end of session the phase I student must be able to describe the								
	neurons correctly.								
	2. At the end of session the phase I student must be able to enumerate								
	different types of neurons correctly.								
	3. At the end of session the phase I student must be able to describe the								
	ganglia correctly.								
	4 .At the end of session the phase I student must be able to describe the								
	ganglia correctly.								
	5. At the end of session the phase I student must be able to describe the								
	peripheral nerve correctly.								
	6. At the end of session the phase I student must be able to identify the								
	neurons correctly.								
	7. At the end of session the phase I student must be able to identify the								
	ganglia correctly.								
	8 At the end of session the phase I student must be able to identify the								
	peripheral nerve correctly.								
	9. At the end of session the phase I student must be able to draw the								
	neurons correctly.								
	10. At the end of session the phase I student must be able to draw the								
	ganglia correctly.								
	11. At the end of session the phase I student must be able to draw the								
	peripheral nerve correctly.								
AN68.2	Describe the structure-function correlation of neuron	K	KH	Y	Lecture, Practical	Written			Physiology
	1. At the end of session the phase I student must be able to describe the								
	structure of neuron according to functions accurately.								
AN68.3	Describe the ultrastructure of nervous tissue	K	KH	N	Lecture, Practical	Written			
	Objectives:								
	1. At the end of session the phase I student must be able to describe the								
	ultrastructure of nervous tissue accurately.								
	2. At the end of session the phase I student must be able to identify the								
	ultrastructure of nervous tissue accurately.								
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	At the end of session the phase I student must be able to draw the ultrastructure of nervous tissue accurately.								
Topic:Blo	oodVessels Number	ofcompe	tencies:(3)		Number o	f procedures for certific	cation:(NIL)		
AN69.1	Identify elastic & muscular blood vessels, capillaries under the microscope Objectives: 1. At the end of session the phase I student must be able to describe the blood vessel accurately. 2. At the end of session the phase I student must be able to classify different types of blood vessel accurately. 3. At the end of session the phase I student must be able to describe the capillary accurately. 4. At the end of session the phase I student must be able to identify the blood vessel accurately. 5. At the end of session the phase I student must be able to identify different types of blood vessel accurately. 6. At the end of session the phase I student must be able to identify the capillary accurately. 7. At the end of session the phase I student must be able to draw different blood vessel accurately. 8. At the end of session the phase I student must be able to draw the capillary accurately.	K/S	SH	Y	Lecture, Practical	Skill assessment			
AN69.2	Describe the various types and structure-function correlation of blood vessel Objectives: 1. At the end of session the phase I student must be able to describe the structure of neuron according to functions accurately.	К	KH	Y	Lecture, Practical	Written			Physiology
AN69.3	Describe the ultrastructure of blood vessels Objectives: 1. At the end of session the phase I student must be able to describe the ultrastructure of blood vessels accurately. 2. At the end of session the phase I student must be able to identify the ultrastructure of blood vessels accurately. 3. At the end of session the phase I student must be able to draw the ultrastructure of blood vessels accurately	К	КН	Y	Lecture, Practical	Written			
Topic: G	lands &Lymphoidtissue Number	r ofcompe	tencies:(2)		Number	of procedures for certif	fication:(NIL))	
AN70.1	Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini Objectives: 1. At the end of session the phase I student must be able to describe the exocrine glands accurately 2. At the end of session the phase I student must be able to differentiate between different types ofexocrine glands accurately	K/S	SH	Y	Lecture, Practical	Written/ skill assessment		Pathology	

						-			
T	3. At the end of session the phase I student must be able to identify						_		
	serous acini accurately.								
	4. At the end of session the phase I student must be able to identify								
	mucous acini accurately.								
	5. At the end of session the phase I student must be able to identify								
	mixed acini accurately.								
	6. At the end of session the phase I student must be able to draw serous								
	acini accurately.								
1 1	7. At the end of session the phase I student must be able to draw								
1	mucous acini accurately.								
	8. At the end of session the phase I student must be able to draw mixed								
	acini accurately.								
AN70.2 I	Identify the lymphoid tissue under the microscope & describe	K/S	SH	Y	Lecture, Practical	Written/ skill	1	Pathology	
	microanatomy of lymph node, spleen, thymus, tonsil and correlate	100	011	'	Lecture, i ractical			I alliology	
	the structure with function					assessment			
	Objectives:								
	1. At the end of session the phase I student must be able to describe the								
1	lymphoid tissue accurately.								
,	2. At the end of session the phase I student must be able to enumerate								
	different lymphoid tissues accurately.								
,	3. At the end of session the phase I student must be able to describe the								
'									
1.	microanatomy of lymph node accurately.								
	4. At the end of session the phase I student must be able to describe the								
l I,	microanatomy of spleen accurately.								
	5. At the end of session the phase I student must be able to describe the								
,	microanatomy of thymus accurately.								
"	6. At the end of session the phase I student must be able to describe the								
l l.	microanatomy of tonsil accurately.								
l 1'	7. At the end of session the phase I student must be able to identify								
,	microanatomy of lymph node accurately.								
ľ	8. At the end of session the phase I student must be able to identify the								
,	microanatomy of spleen accurately.								
	9. At the end of session the phase I student must be able to identify the								
	microanatomy of thymus accurately.								
[10. At the end of session the phase I student must be able to identify the								
	microanatomy of tonsil accurately.								
	11. At the end of session the phase I student must be able to draw								
	microanatomy of lymph node accurately.								
[12. At the end of session the phase I student must be able to draw the								
	microanatomy of spleen accurately.								
[[13. At the end of session the phase I student must be able to draw the								
]],	microanatomy of thymus accurately.								
[[14. At the end of session the phase I student must be able to draw the								
	microanatomy of tonsil accurately.								
Tonis: Bar	a 9 Contilago	ofoomset	onolog:(2)		Normalia	nuonodunos for cortific	otion/AIII \		
Tobic: Bon	e&Cartilage Number	ofcompet	encies:(2)		Number of	procedures for certific	auon:(NIL)		

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
AN71.1	Identify bone under the microscope; classify various types and describe the structure-function correlation of the same OBJECTIVES 1. At the end of the session the phase I student must be able to list the microscopic features of bone correctly 2. At the end of the session the phase I student must be able to classify various types of bones accurately 3. At the end of the session the phase I student must be able to describe the structure of bone correctly 4. At the end of the session the phase I student must be able to identify the slides of bone under microscope correctly 5. At the end of the session the phase I student must be able to enumerate the differences between 2 types of bones correctly	K/S	SH	Y	Lecture, Practical	Written/ skill assessment		Pathology	
AN71.2	Identify cartilage under the microscope & describe various types and structure- function correlation of the same OBJECTIVES 1. At the end of the session the phase I student must be able to list the microscopic features of cartilage correctly 2. At the end of the session the phase I student must be able to classify various types of cartilage accurately 3. At the end of the session the phase I student must be able to describe the structure of cartilage correctly 4. At the end of the session the phase I student must be able to identify the slides of cartilage under microscope correctly 5. At the end of the session the phase I student must be able to enumerate the differences between 3 types of cartilage correctly	K/S	SH	Y	Lecture, Practical	Written/ skill assessment		Pathology	
Topic: Int	egumentary System Number	ofcompete	encies:(1)		Number o	f procedures for cert	ification:(NIL)		
AN72.1	Identify the skin and its appendages under the microscope and correlate the structure with function OBJECTIVES 1. At the end of the session the phase I student must be able to list the microscopic features of skin with its appendages correctly 2. At the end of the session the phase I student must be able to enumerate various function of skin with its appendages accurately 3. At the end of the session the phase I student must be able to describe the structure of skin with its appendages correctly	K/S	SH	Y	Lecture, Practical	Written/ skill assessment			8

	 4. At the end of the session the phase I student must be able to identify the slides of skin with its appendages under microscope correctly 5. At the end of the session the phase I student must be able to enumerate the differences between 2 types of skin correctly 						
opic:Ch	romosomes Number	ofcompete	encies:(3)		Num	ber of procedures for certific	cation:(NIL)
AN73.1	Describe the structure of chromosomes with classification OBJECTIVES 1. At the end of the session the phase I student must be able to define the chromosomes accurately 2. At the end of the session the phase I student must be able to describe the structure of chromosomes correctly 3. At the end of the session the phase I student must be able to classify the chromosomes correctly	К	КН	Y	Lecture	Written	
AN73.2	Describe technique of karyotyping with its applications OBJECTIVES 1. At the end of the session the phase I student must be able to define karyotyping accurately 2. At the end of the session the phase I student must be able to describe technique of karyotyping correctly 3. At the end of the session the phase I student must be able to list the application of karyotyping correctly	К	КН	Y	Lecture	Written	
N73.3	Describe the Lyon's hypothesis OBJECTIVES 1. At the end of the session the phase I student must be able to describe the Lyon's hypothesis accurately 2. At the end of the session the phase I student must be able to list the application of Lyon's hypothesis correctly 3. At the end of the session the phase I student must be able to discuss the conclusion of Lyon's hypothesis accurately	К	КН	Y	Lecture	Written	
Topic: Pa	tternsofInheritance Number	ofcompet	encies:(4)		Nui	mber of procedures for certif	ication:(NIL)
AN74.1	Describe the various modes of inheritance with examples OBJECTIVES 1. At the end of the session the phase I student must be able to define inheritance accurately 2. At the end of the session the phase I student must be able to describe the various modes of inheritance correctly 3. At the end of the session the phase I student must be able to enumerate examples of various modes of inheritance correctly	К	КН	Y	Lecture	Written	General Medicine, Pediatrics
AN74.2	Draw pedigree charts for the various types of inheritance & give examples of diseases of each mode of inheritance OBJECTIVES 1. At the end of the session the phase I student must be able to draw pedigree charts for the various types of inheritance correctly	К	KH	Y	Lecture	Written	General Medicine, Pediatrics

	2. At the end of the session the phase I student must be able to enumerate				I		1	T
	examples of diseases of each mode of inheritance correctly							
AN74.3	Describe multifactorial inheritance with examples OBJECTIVES	K	KH	Y	Lecture	Written		General Medicine
	1. At the end of the session the phase I student must be able to define							Wedionic
	multifactorial inheritance accurately 2. At the end of the session the phase I student must be able to describe							
	multifactorial inheritance correctly							
	3. At the end of the session the phase I student must be able to enumerate							
	examples of multifactorial inheritance correctly							
AN74.4	Describe the genetic basis & clinical features of Achondroplasia,	K	KH	N	Lecture	Written		General
	Cystic Fibrosis, Vitamin D resistant rickets, Haemophilia, Duchene's							Medicine,
	muscular dystrophy & Sickle cell anaemia							Pediatrics
	OBJECTIVES							
	1. At the end of the session the phase I student should be able to define							
	Achondroplasia accurately							
	2. At the end of the session the phase I student should be able to describe							
	the genetic basis of Achondroplasia correctly							
	3. At the end of the session the phase I student should be able to enumerate							
	the clinical features of Achondroplasia correctly							
	4. At the end of the session the phase I student should be able to define							
	Cystic Fibrosis accurately							
	5. At the end of the session the phase I student should be able to describe the genetic basis of Cystic Fibrosis correctly							
	6. At the end of the session the phase I student should be able to enumerate							
	the clinical features of Cystic Fibrosis correctly							
	7. At the end of the session the phase I student should be able to define							
	Vitamin D resistant rickets accurately							
	8. At the end of the session the phase I student should be able to describe							
	the genetic basis of Vitamin D resistant rickets correctly							
	9. At the end of the session the phase I student should be able to enumerate							
	the clinical features of Vitamin D resistant rickets correctly							
	10. At the end of the session the phase I student should be able to define							
	Haemophilia accurately							
	11. At the end of the session the phase I student should be able to describe							
	the genetic basis of Haemophilia correctly							
	12. At the end of the session the phase I student should be able to enumerate							
	the clinical features of Haemophilia correctly						1	
	 At the end of the session the phase I student should be able to define Duchene's muscular dystrophy accurately 						1	
	14. At the end of the session the phase I student should be able to describe						1	
	the genetic basis of Duchene's muscular dystrophy correctly						1	
	15. At the end of the session the phase I student should be able to enumerate							
	the clinical features of Duchene's muscular dystrophy correctly						1	
	16. At the end of the session the phase I student should be able to define						1	
	Sickle cell anaemia accurately							

	 17. At the end of the session the phase I student should be able to describe the genetic basis of Sickle cell anaemia correctly 18. At the end of the session the phase I student should be able to enumerate the clinical features of Sickle cell anaemia correctly 								
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify P	Vertical Integration	Horizontal Integration
ГТоріс: Р	rinciple of Genetics, Chromosomal Aberrations & Clinical Genetics	Number of	competend	cies: (5)	Numb	er of procedures for	certification:	(NIL)	•
AN75.1	Describe the structural and numerical chromosomal aberrations OBJECTIVES 1. At the end of the session the phase I student must be able to describe the structural chromosomal aberrations correctly 2. At the end of the session the phase I student must be able to enumerate structural chromosomal aberrations correctly 3. At the end of the session the phase I student must be able to describe the numerical chromosomal aberrations correctly 4. At the end of the session the phase I student must be able to enumerate numerical chromosomal aberrations correctly Explain the terms mosaics and chimeras with example OBJECTIVES 1. At the end of the session the phase I student should be able to define mosaics accurately 2. At the end of the session the phase I student should be able to enumerate examples of mosaics correctly 3. At the end of the session the phase I student should be able to define chimeras accurately 4. At the end of the session the phase I student should be able to enumerate examples of chimeras correctly	К	KH	N	Lecture	Written		Pediatrics	
AN75.3	Describe the genetic basis & clinical features of Prader Willi syndrome, Edward syndrome & Patau syndrome OBJECTIVES 1. At the end of the session the phase I student should be able to describe the genetic basis of Prader Willi syndrome correctly 2. At the end of the session the phase I student should be able to enumerate the clinical features of Prader Willi syndrome correctly 3. At the end of the session the phase I student should be able to describe the genetic basis of Edward syndrome correctly 4. At the end of the session the phase I student should be able to enumerate the clinical features of Edward syndrome correctly 5. At the end of the session the phase I student should be able to describe the genetic basis of Patau syndrome correctly	К	КН	N	Lecture	Written		Pediatrics	

	6. At the end of the session the phase I student should be able to enumerate						
	the clinical features of Patau syndrome correctly						
AN75.4	Describe genetic basis of variation: polymorphism and mutation OBJECTIVES 1. At the end of the session the phase I student must be able to define polymorphism accurately 2. At the end of the session the phase I student must be able to describe genetic basis of polymorphism correctly 3. At the end of the session the phase I student must be able to classify polymorphism accurately 4. At the end of the session the phase I student must be able to enumerate examples of polymorphism correctly 5. At the end of the session the phase I student must be able to define mutation accurately 6. At the end of the session the phase I student must be able to describe genetic basis of mutation correctly 7. At the end of the session the phase I student must be able to classify mutation accurately 8. At the end of the session the phase I student must be able to enumerate	K	KH	Y	Lecture	Written	Pediatrics
AN75.5	Describe the principles of genetic counselling OBJECTIVES 1. At the end of the session the phase I student must be able to describe the principles of genetic counselling correctly 2. At the end of the session the phase I student must be able to enumerate the application of genetic counselling correctly 3. At the end of the session the phase I student must be able to discuss the	К	KH	Y	Lecture	Written	Pediatrics, Obstetrics & Gynaecology
	significance of genetic counselling correctly			<u> </u>			
Topic: Int	roductiontoembryology Number	ofcompet	encies:(2)		N	umber of procedures for certifi	cation:(NIL)
AN76.1	Describe the stages of human life OBJECTIVES 1. At the end of the session the phase I student must be able to enumerate the stages of human life correctly 2. At the end of the session the phase I student must be able to describe the stages of human life correctly 3. At the end of the session the phase I student must be able to differentiate between the stages of human life accurately	К	КН	Y	Lecture	Written	
AN76.2	Explain the terms- phylogeny, ontogeny, trimester, viability OBJECTIVES 1. At the end of the session the phase I student must be able to define phylogeny accurately 2. At the end of the session the phase I student must be able to explain phylogeny correctly 3. At the end of the session the phase I student must be able to define	К	КН	Y	Lecture	written	

			T		1			
	ontogeny accurately							
	4. At the end of the session the phase I student must be able to explain ontogeny correctly							
	5. At the end of the session the phase I student must be able to define							
	trimester accurately							
	6. At the end of the session the phase I student must be able to explain							
	trimester correctly							
	7. At the end of the session the phase I student must be able to define							
	viability accurately							
	8. At the end of the session the phase I student must be able to explain							
	viability correctly							
Topic: Ga	metogenesisandfertilization Number	ofcompet	tencies:(6)			Number of procedures for certificatio	n:(NIL)	
AN77.1	Describe the uterine changes occurring during the menstrual cycle	K	KH	Ιγ	Lecture	Written	Obstetrics &	
7	OBJECTIVES	11	''''	' '	Leotare	Wilton	Gynaecology	
	1. At the end of the session the phase I student must be able to describe the						Syriacoology	
	menstrual cycle correctly							
	2. At the end of the session the phase I student must be able to enumerate							
	the uterine changes occurring during the menstrual cycle accurately							
	3. At the end of the session the phase I student must be able to explain the							
	uterine changes occurring during the menstrual cycle correctly							
	4. At the end of the session the phase I student must be able to discuss the							
	role of hormones during the menstrual cycle correctly							
AN77.2	Describe the synchrony between the ovarian and menstrual cycles OBJECTIVES	K	KH	Y	Lecture	Written	Obstetrics & Gynaecology	
	1. At the end of the session the phase I student must be able to describe the							
	ovarian cycle correctly							
	2. At the end of the session the phase I student must be able to explain the							
	synchrony between the ovarian and menstrual cycles accurately			ļ.,,				
AN77.3	Describe spermatogenesis and oogenesis along with diagrams OBJECTIVES	K	KH	Y	Lecture	Written	Obstetrics & Gynaecology	
	1. At the end of the session the phase I student must be able to define the						Gynaecology	
	spermatogenesis accurately							
	2. At the end of the session the phase I student must be able to describe the							
	spermatogenesis along with diagrams correctly							
	3. At the end of the session the phase I student must be able to define the							
	oogenesis accurately							
	4. At the end of the session the phase I student must be able to describe the							
	oogenesis along with diagrams correctly							
AN77.4	Describe the stages and consequences of fertilization	K	KH	Y	Lecture	Written	Obstetrics &	
							Gyriaecology	
	stages of fertilization correctly							
•	3. At the end of the session the phase I student must be able to explain the				1			
							Gynaecology	

	consequences of fertilization correctly								
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Number required to certify	Vertical Integration	Horizontal Integration
AN77.5	Enumerate and describe the anatomical principles underlying contraception OBJECTIVES 1. At the end of the session the phase I student must be able to define contraception accurately 2. At the end of the session the phase I student must be able to describe the anatomical principles underlying contraception correctly 3. At the end of the session the phase I student must be able to enumerate the methods of contraception correctly	К	КН	Y	Lecture	Written		Obstetrics & Gynaecology	
AN77.6	 Describe teratogenic influences; fertility and sterility, surrogate motherhood, social significance of "sex-ratio". OBJECTIVES At the end of the session the phase I student should be able to define teratogenicity accurately At the end of the session the phase I student should be able to describe teratogenic influences correctly At the end of the session the phase I student should be able to enumerate teratogenic agents correctly At the end of the session the phase I student should be able to define fertility accurately At the end of the session the phase I student should be able to define sterility accurately At the end of the session the phase I student should be able to define surrogacy accurately At the end of the session the phase I student should be able to describe the surrogate motherhood correctly At the end of the session the phase I student should be able to enumerate the limitation of surrogacy correctly At the end of the session the phase I student should be able to explain the method of surrogacy correctly At the end of the session the phase I student should be able to describe the "sex-ratio accurately At the end of the session the phase I student should be able to describe the "sex-ratio accurately At the end of the session the phase I student should be able to discuss the social significance of "sex-ratio correctly	К	KH	N	Lecture	Written		Obstetrics & Gynaecology	

A N 170 4	Describe also were and formation of blacks and	1/	IZU	1 1/	II	110/1:44 - 1-	ı	T	
AN78.1	Describe cleavage and formation of blastocyst	K	KH	Y	Lecture	Written			
	OBJECTIVES								
	1. At the end of the session the phase I student must be able to define								
	cleavage accurately								
	2. At the end of the session the phase I student must be able to describe								
	cleavage correctly								
	3. At the end of the session the phase I student must be able to draw a well								
	labelled diagram of cleavage correctly								
	4. At the end of the session the phase I student must be able to define								
	blastocyst accurately								
	5. At the end of the session the phase I student must be able to describe								
	formation of blastocyst correctly								
	6. At the end of the session the phase I student must be able to draw a well labelled diagram of blastocyst correctly								
AN78.2	Describe the development of trophoblast	K	KH	Y	Locturo	Written			
AN/O.Z	OBJECTIVES	r\	КΠ	T	Lecture	vviilleri			
	1. At the end of the session the phase I student must be able to define								
	trophoblast accurately								
	2. At the end of the session the phase I student must be able to describe the								
	development of trophoblast correctly								
	3. At the end of the session the phase I student must be able to draw a well								
	labelled diagram of trophoblast correctly								
AN78.3	Describe the process of implantation & common abnormal sites of	K	KH	Υ	Lecture	Written		Obstetrics &	
	implantation							Gynaecology	
	OBJECTIVES								
	1. At the end of the session the phase I student must be able to define								
	implantation accurately								
	2. At the end of the session the phase I student must be able to describe the								
	process of implantation with diagram correctly								
	3. At the end of the session the phase I student must be able to enumerate								
	common abnormal sites of implantation correctly								
	4. At the end of the session the phase I student must be able to discuss								
	clinical implication of abnormal sites of implantation correctly								
AN78.4	Describe the formation of extra-embryonic mesoderm and coelom,	K	KH	Y	Lecture	Written			
	bilaminar disc and prochordal plate								
	OBJECTIVES								
	1. At the end of the session the phase I student must be able to enumerate								
	events taking place during Second weekofdevelopment accurately								
	2. At the end of the session the phase I student must be able to describe the								
	formation of extra-embryonic mesoderm correctly								
	3. At the end of the session the phase I student must be able to describe the								
	formation of extra-embryonic coelom wit with diagram correctly								
	4. At the end of the session the phase I student must be able to describe the								
	formation of bilaminar disc with diagram correctly 5. At the end of the session the phase I student must be able to describe the								
	formation of prochordal plate with diagram correctly								
	formation of prochordar plate with diagram correctly			l					L

AN78.5	Describe in brief abortion; decidual reaction, pregnancy test OBJECTIVES 1. At the end of the session the phase I student must be able to define abortion accurately 2. At the end of the session the phase I student must be able to describe abortion correctly 3. At the end of the session the phase I student must be able to describe decidual reaction correctly 4. At the end of the session the phase I student must be able to describe pregnancy test correctly	К	КН	Y	Lecture	Written	Obstetrics & Gynaecology
Topic: 3rd	to 8th weekofdevelopment Number	ofcompet	encies:(6)		N	umber of procedures for cert	ification:(NIL)
AN79.1	Describe the formation & fate of the primitive streak OBJECTIVES 1. At the end of the session the phase I student must be able to define primitive streak accurately 2. At the end of the session the phase I student must be able to describe the formation of primitive streak correctly 3. At the end of the session the phase I student must be able to explain the fate of the primitive streak correctly	К	КН	Y	Lecture	Written	
AN79.2	Describe formation & fate of notochord OBJECTIVES 1. At the end of the session the phase I student must be able to define notochord accurately 2. At the end of the session the phase I student must be able to describe the formation of notochord correctly 3. At the end of the session the phase I student must be able to explain the fate of the notochord correctly	К	КН	Y	Lecture	Written	
AN79.3	Describe the process of neurulation OBJECTIVES 1. At the end of the session the phase I student must be able to define neurulation accurately 2. At the end of the session the phase I student must be able to describe the process of neurulation correctly	К	КН	Y	Lecture	Written	
AN79.4	Describe the development of somites and intra-embryonic coelom OBJECTIVES 1. At the end of the session the phase I student must be able to define somites accurately 2. At the end of the session the phase I student must be able to describe the development of somites correctly 3. At the end of the session the phase I student must be able to discuss the fate of somites correctly 4. At the end of the session the phase I student must be able to describe the development of intra-embryonic coelom correctly	К	КН	Y	Lecture	Written	Obstetrics & Gynaecology

AN79.5	Explain embryological basis of congenital malformations,	K	KH	N	Lecture	Written	Obstetrics &	
	nucleus pulposus, sacrococcygeal teratomas, neural tube						Gynaecology	1
	defects							1
	OBJECTIVES							1
	 At the end of the session the phase I student should be able to enumerate congenital malformations accurately At the end of the session the phase I student should be able to describe embryological basis of congenital malformations correctly At the end of the session the phase I student must be able to discuss clinical implication of congenital malformations correctly At the end of the session the phase I student should be able to describe embryological basis of nucleus pulposus correctly At the end of the session the phase I student should be able to describe 							
	embryological basis of sacrococcygeal teratomas correctly 6. At the end of the session the phase I student must be able to discuss clinical implication of sacrococcygeal teratomas correctly 7. At the end of the session the phase I student should be able to enumerate neural tube defects accurately 8. At the end of the session the phase I student should be able to describe embryological basis of neural tube defects correctly							
	9. At the end of the session the phase I student must be able to discuss clinical implication of neural tube defects correctly							1
AN79.6	Describe the diagnosis of pregnancy in first trimester and role of	K	KH	N	Lecture	Written	Obstetrics &	
	teratogens, alpha-fetoprotein OBJECTIVES 1. At the end of the session the phase I student should be able to enumerate diagnostic features of pregnancy in first trimester accurately 2. At the end of the session the phase I student should be able to describe role of teratogens correctly 3. At the end of the session the phase I student should be able to describe alpha-fetoprotein correctly 4. At the end of the session the phase I student should be able to explain clinical significance of alpha-fetoprotein correctly	K	KII	IV	Lecture	vviitteri	Gynaecology	
Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Teaching-Learning Methods	Assessment Methods	Vertical Integration	Horizontal Integration

	The student should be able to	K/S/A/C	K/KH/ SH/P	(Y/N)	Methods	Methods	required to certify P	Integration	Integration
Topic:Feta	ofcompete	ncies:(7)		Number of p	rocedures for certifica	ation:(NIL)			
AN80.1	Describe formation, functions & fate of-chorion: amnion; yolk sac; allantois & decidua OBJECTIVES 1. At the end of the session the phase I student must be able to define	К	КН	Y	Lecture	Written			

	chorion accuratel								
	2. At the end of the	session the phase I student must be able to describe							
	formation of cho								
	3. At the end of the	session the phase I student must be able to enumerate							
	function of choric								
		session the phase I student must be able to explain fate							
	of chorion correc								
		session the phase I student must be able to define							
	amnion accuratel								
	6. At the end of the	session the phase I student must be able to describe							
	formation of amn								
		session the phase I student must be able to enumerate							
	function of amnie								
		session the phase I student must be able to explain fate							
	of amnion correc								
	sac accurately	session the phase I student must be able to define yolk							
		session the phase I student must be able to describe							
	formation of yolk								
		session the phase I student must be able to enumerate							
	function of yolk s								
		session the phase I student must be able to explain fate							
	of yolk sac correc								
		session the phase I student must be able to define							
	allantois accurate								
		session the phase I student must be able to describe							
	formation of alla								
		session the phase I student must be able to enumerate							
	function of allant								
		session the phase I student must be able to explain fate							
	of allantois corre								
		session the phase I student must be able to define							
	decidua accuratel								
	formation of deci	session the phase I student must be able to describe							
		session the phase I student must be able to enumerate							
	function of decid								
		session the phase I student must be able to explain fate							
	of decidua correc								
AN80.2		structure of umbilical cord	K	KH	Υ	Lecture	Written	†	
	OBJECTIVES				•				
		session the phase I student must be able to define							
	umbilical cord ac								
	2. At the end of the	session the phase I student must be able to describe							
		vilical cord correctly							
		session the phase I student must be able to describe							
	structure of umbi	lical cord correctly							

4. At the end of the session the phase I student must be able to enumerate function of umbilical cord correctly 5. At the end of the session the phase I student must be able to explain fate of umbilical cord correctly AN80.3 Describe formation of placenta, its physiological functions, foetomaternal circulation & placental barrier Obstetrics & Gynaecology OBJECTIVES 1. At the end of the session the phase I student must be able to describe placenta accurately 2. At the end of the session the phase I student must be able to list physiological functions of placenta correctly 3. At the end of the session the phase I student must be able to explain clinical significance of placenta correctly 5. At the end of the session the phase I student must be able to describe foetomaternal circulation correctly 6. At the end of the session the phase I student must be able to describe foetomaternal circulation correctly 7. At the end of the session the phase I student must be able to describe placental barrier correctly 8. At the end of the session the phase I student must be able to describe placental barrier correctly 8. At the end of the session the phase I student must be able to describe placental barrier correctly 8. At the end of the session the phase I student must be able to explain significance of placental barrier correctly 8. At the end of the session the phase I student must be able to explain significance of placental barrier correctly 8. At the end of the session the phase I student must be able to explain significance of placental barrier correctly 8. At the end of the session the phase I student must be able to explain significance of placental barrier correctly 8. At the end of the session the phase I student must be able to explain significance of placental barrier correctly 8. At the end of the session the phase I student must be able to explain significance of placental barrier correctly 8. At the end of the session the phase I student must be able to explain significance of placental barri	
5. At the end of the session the phase I student must be able to explain fate of umbilical cord correctly AN80.3 Describe formation of placenta, its physiological functions, foetomaternal circulation & placental barrier OBJECTIVES 1. At the end of the session the phase I student must be able to define placenta accurately 2. At the end of the session the phase I student must be able to list physiological functions of placenta correctly 3. At the end of the session the phase I student must be able to explain clinical significance of placenta correctly 4. At the end of the session the phase I student must be able to describe foetomaternal circulation correctly 5. At the end of the session the phase I student must be able to explain clinical implications of feetomaternal circulation correctly 6. At the end of the session the phase I student must be able to explain clinical implications of feetomaternal circulation correctly 7. At the end of the session the phase I student must be able to describe placental barrier correctly 8. At the end of the session the phase I student must be able to explain significance of placental barrier correctly AN80.4 Describe embryological basis of twinning in monozygotic & dizygotic twins Solvential manufacture with the end of the session the phase I student must be able to explain significance of placental barrier correctly	
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Significance of placental barrier correctly AN80.4 Describe embryological basis of twinning in monozygotic & dizygotic K KH Y Lecture Written Obstetrics & Gynaecology	
twins Gynaecology	
The state of the s	
OBJECTIVES	
1. At the end of the session the phase I student must be able to define	
monozygotic twins accurately	
2. At the end of the session the phase I student must be able to describe	
embryological basis of twinning in monozygotic twins correctly	
3. At the end of the session the phase I student must be able to define	
dizygotic twins accurately 4. At the end of the session the phase I student must be able to describe	
embryological basis of twinning in dizygotic twins correctly	
AN80.5 Describe role of placental hormones in uterine growth & parturition K KH Y Lecture Written Obstetrics &	+
OBJECTIVES OBJECTIVES OBJECTIVES OBJECTIVES OBJECTIVES OBJECTIVES OBJECTIVES OBJECTIVES	
1. At the end of the session the phase I student must be able to list placental	
hormones with its functions accurately	
2. At the end of the session the phase I student must be able to describe role	
of placental hormones in uterine growth correctly	
3. At the end of the session the phase I student must be able to describe role	
of placental hormones in parturition correctly	
AN80.6 Explain embryological basis of estimation of fetal age. K KH N Lecture Written Obstetrics &	
OBJECTIVES Gynaecology	
1. At the end of the session the phase I student should be able to define fetal	
age accurately	

2. At the end of the session the phase I student should be able to enumerate methods of estimation of fetal age correctly 3. At the end of the session the phase I student should be able to explain embryological basis of estimation of fetal age correctly 4. At the end of the session the phase I student should be able to discuss the	
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embryological basis of estimation of fetal age correctly 4. At the end of the session the phase I student should be able to discuss the	
4. At the end of the session the phase I student should be able to discuss the	
significance of estimation of fetal age correctly	
AN80.7 Describe various types of umbilical cord attachments K KH N Lecture Written Obstetrics	&
OBJECTIVES Gynaecol	pav
1. At the end of the session the phase I student should be able to describe	3,
various types of umbilical cord attachments correctly	
2. At the end of the session the phase I student should be able to explain	
significance of umbilical cord attachments correctly	
significance of unfolical cord attachments correctly	
Topic:PrenatalDiagnosis Number of competencies:(3) Number of procedures for certification:(NIL)	
AN81.1 Describe various methods of prenatal diagnosis K KH Y Lecture Written Obstetrics	&
OBJECTIVES Gynaecol	pav
1. At the end of the session the phase I student must be able to define	·
prenatal diagnosis accurately	
2. At the end of the session the phase I student must be able to describe	
various methods of prenatal diagnosis correctly	
3. At the end of the session the phase I student must be able to significance	
of prenatal diagnosis correctly	
AN81.2 Describe indications, process and disadvantages of amniocentesis K KH Y Lecture Written Obstetrics	
OBJECTIVES Gynaecol	pgy
1. At the end of the session the phase I student must be able to define	ogy
1. At the end of the session the phase I student must be able to define amniocentesis accurately	ogy
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Number	COMPETENCY	Domain	Level	Core	Teaching-Learning	Assessment		Vertical	Horizontal
	The student should be able to	K/S/A/C	K/KH/	(Y/N)	Methods	Methods	I -	Integration	Integration
			SH/P				to certify		
							Р		
AN 82.1	Demonstrate respect and follow the correct procedure when handling	S	SH	Y	Group Activity	NIL		AETCOM	
	cadavers and other biologic tissue								
	OBJECTIVES								
	1. At the end of the session the phase I student must be able to describe the								
	correct procedure of handling cadavers accurately								
	2. At the end of the session the phase I student must be able to describe the								
	correct procedure of handling biologic tissues accurately								
	3. At the end of the session the phase I student must be able to demonstrate								
	the correct procedure of handling cadavers correctly								
	4. At the end of the session the phase I student must be able to demonstrate								
	the correct procedure of handling biologic tissues correctly								
	5. At the end of the session the phase I student must be able to describe the								
	ethical values when handling cadavers correctly								
	6. At the end of the session the phase I student must be able to show the								
	ethical values when handling cadavers correctly	·	4:		L		1		
	Column C: K- Knowledge, S – Skill, A - Attitude / professionalism, C- C								
	Column D: K – Knows KH - Knows How, SH - Shows how, P- performs	ındepende	ently,						
	Column F: DOAP session – Demonstrate, Observe, Assess, Perform.								
	Column H: If entry is P: indicate how many procedures must be done i	ndepender	ntly for cert	ification/	graduation				