First Part

Techniques & radiological anatomy

	Chapters	Subjects	Date & hours	lecturer	Attendance
I. Positioning	**a. Techniques:**				
		1. UL			
		2. LL			
		3. Chest and heart			
		4. Axial skeleton			
		5. Skull (1)			
		6. Skull (2)			
	b. Radiological anatomy:				
		1. UL			
		2. LL			
		3. Chest and heart			
		4. Axial skeleton			
		5. Skull			
II. Gastrointestinal tract(GIT) (Alimentary tract)	**a. Techniques:**				
		1- Esophagus & Stomach: a. Ba. Swallow & Ba. Meal. b. Plain X-ray c. CT			
		2- Small intestine a. Ba. Study b. Plain X-ray c. CT & CT angiography d. New MRI			
		3- colon: a. Ba. enema b. Plain X-ray c. CT & CT angiography d. US e. MRI			
	b. Radiological anatomy:				
	1. Esophagus & stomach				
	2. Small & large intestine				

	Chapters	Subjects	Date & hours	lecturer	Attendance
III. (GIT) (Liver , biliary system spleen &	**a. Techniques:**				
		a. Liver , spleen , pancreas 1- CT & CT angiography			
		2- US , MRI , MR angiography			
		b. Biliary system: 1- US, CT , MRI, MRA & MRCP			
	b. Radiological anatomy:				
		1. Liver. 2. Pancreas. 3. Spleen. 4. Biliary system.			
IV. Chest	**a. Techniques:**				
		1- Positioning : a. Routine views b. Special views			
		2- CT chest & other methods of examinations: a. US. b. MRI c. Angiography.			
	b. Radiological anatomy:				
		1- X-ray & CT anatomy of the lung.			
		2- X-ray & CT anatomy of the mediastinum			
V. Heart	**a. Techniques:**				
		a. X-ray & CT			
		b. MRI			
	b. Radiological anatomy:				
		1- X-ray			
		2- CT & MRI			
VI.Renal	**a. Techniques:**				
		1- <u>Kidney:</u> a. KUB & IVP			

		b. US, CT, CT urography, MRI & MR urography			
	Chapters				
V.		**2- Bladder (Cystography)& urether** a. Descending b. Ascending c. Micturating d. CT & MRI. **3- Urethra:** a. Ante grade b. Retrograde.			
	b.Radiological anatomy:				
		a. Kidney & ureter			
		b. Bladder &Urethra & Prostate.			
VII.Breast	**a. Techniques:**				
		1- Mammogram &US.			
		2- MRI			
	b. Radiological anatomy:				
		1- Breast			
VIII.Genital system	**a. Techniques:**				
		a. Female genital system. 1- Plain X-ray 2- CT 3- US 4- MRI			
		b. **Male genital system**			
	b.Radiological anatomy:				
		a. Female Genital system			
		b. Male Genital system			
IX.Vascular	**a. Techniques:**				
		1- Doppler arterial			
		2- Doppler venous			
		3- CTA, DSA & MRA			

	b. Radiological anatomy
	1- Arterial
	2- Venous

	Chapters	Subjects	Date & hours	lecturer	Attendance
X.Brain	**a. Techniques:**				
		1- CT & MRI.			
		2- Trans-fontanellar US, CT & MRI angiography			
	b. Radiological anatomy:				
		1- CT & MRI anatomy.			
		2- Arterial supply & venous drainage of the brain.			
		3- Revision.			
XI.Spine	**a. Techniques:**				
		1- X-ray & CT			
		2- MRI			
	b. Radiological anatomy:				
		1- X-ray , CT &MRI			
XII.Head & neck	**a. Techniques:**				
		1- Plain x-ray, 2- CT 3- MRI			
	b. Radiological anatomy:				
		1- Supra & infra hyoid Neck spaces			
		2- Supra & infra hyoid Neck spaces			

Physics

Chapters Subjects	Date & hours	lecturer	Attendance
I. **Introduction:**			
II. **X-ray:**			
III. **US:**			
IV. **Radio-biological & protection:**			
V. **MRI:**			
VI. **CT:**			

Isotopes

	Subjects	Date & Hours	Lecturer	Attendance

Pathology related to Radiology:

Subjects	Lectures	Clinical	Total Teaching Hours
GENERAL PATHOLOGY:			
1-Inflammation & repair	1 hour		
2-Effect of radiation	0.5 hour		
3-Tumours	1 hour		
SYSTEMIC PATHOLOGY:			
1. Diseases of respiratory system	1 hour		
2. **Diseases of urinary system**	1 hour		
3. Diseases of GIT & liver	1 hour		
4. Diseases of musculoskeletal system	1 hour		
5. Diseases of nervous system	1 hour		