4th semester master:

- Neuroradiology
- Neuro-Vascular Imaging
- Head and neck Radiology
- Pediatrics related radiology
- Artificial intelligence

	Chapters	Subjects	Date	lecturer	Signature
I. Brain:	**1- Congenital Malformations & Neurocutaneous Syndromes:**				
		1- Congenital malformations			
		2- Congenital malformations 1			
		3- Neurocutaneous syndromes 1			
		4- Neurocutaneous syndromes2			
	2- Brain tumor:				
		5- Brain tumors			
		6- Brain tumors			
		7- Brain tumors			
		8- Brain tumors			
		9- Film interpretation			
	4- White matter disease:				
		10- Degenerative disease(inherited)			
		11- Degenerative disease acquired			
		12- Metabolic/toxic			
		13- Film interpretation			
	5- Infection:				
		14- Congenital			
		15- Acquires(bacterial)			

		16- Acquires(viral-fungal)			
	3- Vascular:				
		17- Infarction			
		18- Hemorrhage			
		19- Vascular anomalies			
		20- Vascular anomalies			
	6- skull base:				
		21- Skull base:			
		22- Skull base			
	7-Ventricles & Cisterns:				
		25- Hydrocephalus			
II. Spine:	**1- Congenital and developmental disorders:**				
		23- Congenital and developmental disorders I			
		24- Congenital and developmental disorders II			
	2- Infection, Inflammatory and degenerative disease.				
		25- Infection and degenerative disease.			
	3- Spinal tumors:				
		26- Spinal tumors			
	4- Trauma to the spine				
		27- Trauma to the spine			
	5- Vascular and Systemic Disorders				
		28- Vascular and Systemic Disorders			
	6- Post-Operative Imaging and Complications				
		29- Post-Operative Imaging and Complications			

	7- Film interpretation				
		30- Film interpretation			
III. Head & neck:	**a. Orbit :**				
		31-			
		32- Film interpretation			
	b. Nose & PNS:				
		33-			
		34- Film interpretation			
	c. Temporal bone :				
		35- Inflammatory			
		36- Neoplastic			
	d. Introduction to neck spaces				
		37- Introduction to neck spaces			
	e. Pharynx				
		38- Pharynx			
	f. LARYNX				
		39- Larynx			
	g. ORAL CAVITY &MASTICATOR Space& submandibular space:				
		40- Oral cavity &masticator space& submandibular space:			
	h. Facial Trauma				
		41- Facial Trauma			
	i. Parotid space & para-pharyngeal space				
		42- Parotid space & para-pharyngeal space			
	j. Carotid space				
		43- Carotid space			
	k. Thyroid				
		44- Thyroid			
	l. Mandible & maxilla &TMJ				

		45-Mandible			
	m. Syndromic diseases				
	n. LNs				
		46-LNs			
	o. Transspatial and multispatial				
		47-			
	p. Film interpretation				
		48-Film interpretation			
IV. Pediatric I	**1- DD. Of pediatric brain tumors:**				
		49-D.D Of pediatric brain tumors:			
	2- D.D of pediatric neck masses:				
		50-D.D of pediatric neck masses			

Vascular	**1- Arterial:**				
		51-System			
		52-Local			
		53-Ischemia			
	2- Venous				
		54-DVT			
		55-Varicose vein			
	3- D.D				
		56-			

\

- **Artificial intelligence**

Chapters	Steff
Introduction	ا.د/ داليا منير
Application in chest	ا.د/ داليا منير
Application in breast	ا.د/ محمود عبد اللطيف
Application of Artificial intelligence in uroradiology	د/ رشا طه
Application in neuroradiology	.د/ايمان حلمى