

COURSE PLAN

FIRST: BASIC INFORMATION

College					
College	Faculty of Medi	cine			
Department	Medicine Depar	tment/ Diagno	ostic radiology		
Course					
Course Title	Diagnostic radio	ology			
Course Code	31512593				
Credit Hours	3				
Prerequisite	N/A				
Instructor					
Name	Dr Wala Bani Ha	amad			
	Dr Reem Haswe	h			
Office No.	Floor: B1				
	Office number:	03			
Tel (Ext)	Mobile no: 0096	62796610775			
	Mobile no: 0096	52799128475			
E-mail	walamatar@ba	-			
	Reem.hasweh@bau.edu.jo				
Office Hours	8:00am-4:00pm	l			
Class Times	Building	Day	Start Time	End Time	Room No.
	Faculty of	Sunday	9:00am	3:00pm	103
	Medicine				
	Faculty of	Monday	9:00am	3:00pm	103
	Medicine				
Text Book					
Title	Anatom	y of Diagnosti	c imaging, 3 rd edi	tion	
 Grainger & Allison's Diagnostic Radiology. 6TH edition 					
	 Imaging atlas of human anatomy, 4th edition 				

SECOND: PROFESSIONAL INFORMATION

COURSE DESCRIPTION

The two-week diagnostic imaging course provides fifth year medical students with a broad exposure to different medical images, including conventional radiography, fluoroscopy, computed tomography, magnetic resonance imaging, and ultrasound. The radiology rotation gives the students skills and knowledge to know the radiological anatomy and to diagnose diseases by interpreting radiological images.

COURSE OBJECTIVES

- Understanding the basic science of radiation, radiation protection, and hazards of radiation.
- Knowing the principles and physics of different imaging modalities, like conventional



- radiography, ultrasound, fluoroscopy computed tomography and magnetic resonance imaging.
- Gain the ability to read images of unstable and stable patients in the emergency department, clinics, and inpatients departments
- Recognize complications and allergic interactions of contrast media and precautions for its use.
- Cover main and common conditions in Radiology.
- Gain the ability to correlate between clinical scenario of the patient and the requested radiological examination beside the interpretation of the radiological study.
- Gain the ability to diagnose medical and surgical emergencies in brain, spine, chest, abdomen, and bones.
- Fluoroscopy and mammography are covered at MOH and royal medical services

COURSE LEARNING OUTCOMES

- 1) Knowledge and Understanding
 - To know the anatomy of different body parts
 - Knowledge about major diseases
 - Understand the advantages and disadvantages of different imaging modalities

2) Professional Skills

- To be able to read chest and abdomen images
- To be able to read head and neck images
- To be able to read musculoskeletal images
- To be able to diagnose disease through imaging
- 3) Competences (Transferable skill and attributes)
 - To be able to communicate with other clinicians
 - To be able to use ultrasound machines

COURSE SYLLABUS	
Course Topic	Notes
Radiology overview	 Introduction to radiology Definition of medical radiation Medical radiation techniques Radiation safety Radiological archiving Advantages and disadvantages of medical radiation



Imaging of abdomen	 Introduction to anatomy Abdominal gas Inflammation of the gallbladder Pancreatitis Appendicitis Abdominal calcifications Urinary tract stones Uterine and prostatic diseases Peritoneal fluid GIT tumors Hernias Esophageal disorders
Imaging of chest	 Introduction to chest anatomy Consolidation Pneumothorax Collapse Heart failure Lung cancer Mediastinum
Imaging of head and neck	 Radiology overview Anatomy Hydrocephalus Hemorrhage Brain Calcifications Cerebral sinuses thrombosis Ischemia Neoplasms Skull Vault fractures Spine related disease
Musculoskeletal imaging	 Radiological overview Anatomy Fractures Arthritis Bone lesions Non accidental trauma

COURSE LEARNING RESOURCES

Teaching is through lectures, Tutorials and quizzes performed, as well as during rotations in radiology departments in hospitals of ministry of health and royal medical services.

ONLINE RESOURCES

https://radiopaedia.org/

https://www.imaios.com/en/e-Anatomy

http://w-radiology.com/

https://www.statdx.com/

https://www.radiologycafe.com/



http://www.headneckbrainspine.com/

ASSESSMANT TOOLS

(Write assessment tools that will be used to test students ability to understand the course material and gain the skills and competencies stated in learning outcomes

ASSESSMENT TOOLS	%
Attendance	5
Participation	5
Quizzes	5
Mid Exam	35
Final Exam	50
TOTAL MARKS	100

THIRD: COURSE RULES

ATTENDANCE RULES

Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class. Absence of 10% will result in a first written warning. Absence of 15% of the course will result in a second warning. Absence of 20% or more will result in forfeiting the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.

GRADING SYSTEM	
Example:	
90 - 100	Α
85 – 89	B+
75 – 84	В
65 – 74	C+
60 – 64	С
55 – 59	D+
50 – 54	D
45-49	D-
Less than 45	F

REMARKS

The student must adhere to the ethics of the medical profession, both throughout the lectures and during rotation in the radiology departments in the teaching hospitals with either teachers or patients.



COURSE COORDINATOR

Course Coordinators: Dr. Wala Bani Hamad, Dr Reem Hasweh

Head of department: Dr. Lama Muhesin

Dean of faculty of medicine: Dr. Nidal Younes

Date: 2/7/2020