



## Course Syllabus of Radiographic pathology

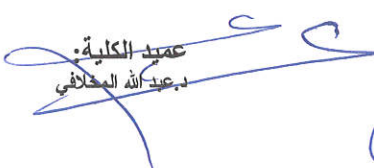

Faculty: Medicine and Health Sciences

Department: Health science

Program: Bachelor in Radiologic Technology & Medical Imaging

I. General information about the course instructor :							
Name	Dr. Fahd Thawaba	Office Hours(2 Hours Weekly )					
Location & phone number	4116	Sat	Sun	Mon	Tue	Wed	Thu
Email	drthawaba@Yahoo.com				√		

II. General information about the course:						
1.	Course Title :	Radiographic pathology				
2.	Course Code and Number :	BMI313				
3.	Credit Hours :	Credit Hours				Total
		Theoretical	Seminar/Tutorial	Practical	Training	
		2	-	1	-	3
4.	Study Level and Semester:	3 <sup>rd</sup> year /1 <sup>st</sup> Semester				
5.	Pre-requisites :	BMI212				
6.	Co-requisites :	None				
7.	Program in which the course is offered:	Bachelor in Radiologic Technology & Medical Imaging				
8.	Teaching Language:	English				
9.	Instruction location:	University of Science and Technology, Sana'a				

عميد الكلية :  
 د. عبد الله المخلافي

رئيس القسم :  
 د. عبد الحبيب ريدمان

المراجع :  
 د. صدام الزوفي  
 د. مجاهد نصار

الموصف :  
 د. فهد ثوابه

### III. Course Description

The course enable students to learn appearance of various disease on different radiographic Images such as conventional x-ray , Computed tomography, Magnetic resonance imaging and ultrasound. This course also allow student to determine the suitable imaging modalities for different pathological conditions of various body systems including the musculoskeletal system, nervous system, gastrointestinal system, pulmonary system, urinary system and reproductive system. The teaching strategies will include lectures, practical application, self-learning and assignment. The students will be evaluated through report, written and practical exam. Pathology is a prerequisite course.

### IV. Course Aims: This course is aimed to:

1. Provide students basic skills required to differentiate normal from abnormal appearance of radiographic images in various imaging modalities.
2. Enable student to select appropriate protocol compatible with diseases process and behavior.
3. Offer student the skills required to discuss challenges about complicated cases with radiologist.
4. Attract radiologist attentions toward the specific pathological condition that may missed.
5. Provide the students the knowledge required to recognize pathological condition required urgent intervention and to take priority.

### V. Course Intended Learning Outcomes (CILOs) :at the end of this course the students must be able to:

1. Understand terms related to radiographic appearance of pathological conditions.
2. Explain the disease process and behavior to provide best radiographic appearance of different disease.
3. Clarify selection some consideration which affect radiographic appearance of disease.
4. Discuss how and why the specific technique is required to provide optimal diagnosis of specific disease.
5. Expect the factors that may alter or change the appearance of the pathological abnormalities on radiographic images.
6. Analyze abnormalities appeared in radiographic image to take correct action toward the patient.
7. Apply suitable techniques , procedures and protocols to satisfy both patients and radiologist.
8. Follow correct action and safe manner in case of emergency to avoid complications and prevent further injuries to the patient, depending on the finding appears on radiographic image.
9. Interact and discuss with senior, radiologist and other healthcare providers to meet the needs of patient.



المراجع :  
د. صدام الزوفي  
د. مجاهد نصار

الموصف :  
د. فهد ثوابه

**VI. Course topics and sub-topics (theoretical and practical) with contact hours and alignment to CILOs**

**Topics/Units of Course Contents**

**First: Theoretical Aspects**

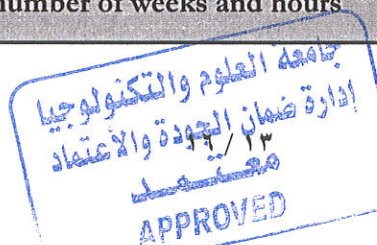
No.	Course Topics/Units	Sub-topics	Week due	Contact Hours
1	Introduction	Course orientation	1 <sup>st</sup>	2
2	Respiratory system I	- Radiographic modalities and terminology -Radiographic appearance Of Common Pulmonary Disorders(Consolidation , Collapse, cavitation , Fibrosis ,Nodules And Masses)	2 <sup>nd</sup>	2
3	Respiratory system II	-Common radiographic pathology of pleural and diaphragmatic disorders ( pleural effusion , pneumothorax, pleural masses, diaphragmatic hernia and paralysis.	3 <sup>rd</sup>	2
4	GIT	Radiographic modalities and terminology Radiographic appearance of common pathologic conditions of the stomach and duodenum	4 <sup>th</sup>	2
5	GIT	Radiographic appearance of Common small and large bowel pathology	5 <sup>th</sup>	2
6	GIT	Radiographic appearance of Common pathologic conditions of the hepatobiliary system	6 <sup>th</sup>	2
7	Mid Exam		7 <sup>th</sup>	2
8	Musculoskeletal system	Imaging modalities of Musculoskeletal system -Terminology related to radiographic pathology of the Musculoskeletal system -Radiographic signs -Disease mechanism including congenital disorders, traumatic disorders.	8 <sup>th</sup>	2
9	Musculoskeletal system	-Disease mechanism including inflammatory disease ,degenerative disease and neoplastic disease of the	9 <sup>th</sup>	2

جامعة العلوم والتكنولوجيا  
إدارة ضمان الجودة والاعتماد  
مستقبل  
APPROVED

المراجع :  
د.صدام الزوفي  
د. مجاهد نصار

الموصف :  
د. فهد ثوابه

		Musculoskeletal system		
10	Nervous system	-Imaging modalities of the nervous system -Terminology related to radiographic pathology of the Nervous system - radiographic appearance of cerebrovascular diseases	10 <sup>th</sup>	2
11	Nervous system	Radiographic appearance of head trauma including intracranial hemorrhage Radiographic appearance of common neoplastic diseases in the nervous system	11 <sup>th</sup>	2
12	Cardiovascular system	- Imaging modalities of the cardiovascular system -Radiographic appearance of heart failure (pulmonary edema and cardiomegaly) - Aneurysm and dissection	12 <sup>th</sup>	2
13	Urinary system	-Imaging modalities of the urinary system -Terminology related to radiographic pathology of the Urinary system -Radiographic signs -Disease mechanism including congenital disorders, traumatic disorders , inflammatory disease and neoplastic disease of the Urinary system	13 <sup>th</sup>	2
14	Genital system	-Imaging modalities of the genital system -Terminology related to radiographic pathology of the Genital system -Radiographic signs -Disease mechanism including congenital disorders, traumatic disorders , inflammatory disease and neoplastic disease of the Genital system	14 <sup>th</sup>	2
15	Final exam		15 <sup>th</sup>	2
Total number of weeks and hours			15	30



المراجع :  
د. صدام الزوفي  
د. مجاهد نصار

الموصف :  
د. فهد ثوابه