

Course Syllabus of Special Radiographic procedures

Faculty: Medicine and Health Sciences

Department: : Radiologic Technology and Medical Imaging

Programs: : Radiologic Technology and Medical Imaging

I. General information about the course instructor :

Name	Dr. Amen Mohsen Amer	Office Hours(2 Hours Weekly)					
Location & phone number	UST- 775948767	Sat	Sun	Mon	Tue	Wed	Thu
Email	med@ust.edu						

II. General information about the course:

1. Course Title :	Special Radiographic procedures				
2. Course Code and Number:	BMI411				
3. Credit Hours :	Credit Hours				Total
	Theoretical	Seminar/Tutorial	Practical	Training	
	2				2
4. Study Level and Semester:	4 th level / 1 st semester				
5. Pre-requisites (if any):	BMI223				
6. Co-requisites (if any):	None				
7. Program in which the course is offered:	Bachelor in Radiologic Technology and Medical Imaging				
8. Teaching Language:	English				
9. Instruction location:	UST - Sana'a				

III. Course Description

This course will introduce to and familiarize the student with the radiographic positioning, exposure factors, shielding techniques, and related terminology of the contrast media examination of the urinary system, GIT, Biliary system, Female reproductive system, and other special radiographic procedures. Synchronized Demonstration sessions in the fluoroscopy unit will be achieved in co-requisite clinical training, Actual radiographs are included for analysis of proper positioning and overall image quality, related disease processes for each of the exams Covered in the course. The teaching will include

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Dr. Amin Mohsen Amer

Reviewed by:
Dr. Saddam Alzofi

Program
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Dr. Amin Mohsen Amer

Head of
Department:
Dr. Amin Mohsen Amer

Vice Dean of the
Faculty:
Dr. Abdulhabeeb Radman

Dean of the
Faculty:
Dr. Abdullah Almkhlifi

intensive clinical sessions in relative field. With collaborative learning, dialogue and discussion. The students will be evaluated through final exam, and training report. Radiographic imaging course is a Pre-requisite for this course.

IV. Course Aims:

This course aims to:

1. Providing students the theoretical background of properly positioning and scanning patients using special radiographic procedures for urinary and biliary systems, GIT, and female reproductive organs based on the care of patient standards.
2. Teach the student basic dealing with appropriate technical factors for special radiographic procedures for urinary and biliary systems, GIT, and female reproductive organs.
3. Improve the student skills to read the related radiographic anatomy images using different patient positions and radiographic technique for radiologist assistance.
4. Enhance the students comprehensive skills of applying standards in special radiographic scanning procedures based on quality assurance and radiation protection.
5. Providing the student the fundamental skills in discussing images criteria for positioning, centering appropriate anatomy, exposure factor, and overall image quality for the procedures in this course.

V. Course Intended Learning Outcomes (CILOs) :

After completing this course, students would be able to:

1. Explain the comprehensive skills of standards special radiographic procedures based on quality assurance and protection principles for contrast media of urinary and biliary systems, GIT, and female reproductive organs.
2. Describe the procedures of properly patients positioning and exposure factors using contrast media special procedures of urinary and biliary systems, GIT, and female reproductive organs.
3. Identify the related radiographic anatomy in contrast media procedures in urinary and biliary systems, GIT, and female reproductive organs.
4. Analyze the imaging criteria and recognize the artifacts or limitations if occur during contrast media procedures in urinary and biliary systems, GIT, and female reproductive organs.
5. Estimate the radiographic image quality regarding to the QA issues and standards with applying the correction if required.
6. Dealing appropriately with fluoroscopic imaging system facilities based on administrative rules.

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No.	Course Topics/Units	Sub-topics	Week Due	Contact Hours
1	Introduction	• Orientation of the course	1 st	2
2	Contrast media	• Types of contrast media (CM). • Possible interaction of CM	2 ^{ed}	2
3	Esophagram	• Barium swallow	3 rd ,4 th	4
5	Imaging of the GIT	• Barium meal. • Barium follow-through • Barium enema	5 th ,6 th ,7 th	6
6	Mid exam		8 th	2
7	Imaging of urinary tract & female reproductive system	Intravenous urography (IVU). Micturating cystourethrography (MCU). Ascending cystourethrography Retrograde pyelourethrography. Imaging of the female reproductive system. Hysteroalpingiography (HSG).	9 th ,10 th	4
8	Imaging of the biliary system	Oral cholegraphy. • I.v cholegraphy. • Endosce retrograde cholangiopancreatogram (ERCP).	11 th ,12 th	4
9	Sialography Fistulography	• Sialography • Fistulography	13 th ,14 th	4
10	Old technique	• Myelography. • Bronchography. • Arthrography.	15 th	2
11	Final exam	• Final exam	16 th	2
Total number of weeks and hours			16	32

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