



Jordan University of Science and Technology

Faculty of Applied Medical Sciences

Department of Allied Medical Sciences

Second semester 2013/2014

Course Syllabus

Course Information	
Course Title	Specialized Radiographic Procedures
Course Code	RA 370
Pre-requisites	RA 361
credit hours	3 (2 theory- 1 practical)
Time	
Place	
Instructor	Mrs Badira Al Qudah
Office location	Applied Medical Sciences
Office Hour	
E_mail (s)	bmalmohammad@just.edu.jo
Teaching Assistant (s)	Hamza Al Masri
Course Description	
<p>This course introduces the student to the applications of contrast media (CM) in radiography. It provides an explicit description of the fluoroscopic procedures for the different body systems including the gastrointestinal tract (GIT), urinary system and female reproductive system, salivary glands etc.... It also introduces the student to the different types of contrast media used in fluoroscopy and their side effects.</p>	

Textbook	
Title	A guide to radiological procedures
Publisher	Saunders Elsevier
Author (s)	Francis Aitchison
Edition	Fifth edition
Year	2009

Assessment		
Assessment	Expected Due Date	Percentage
First Exam	TBA	20%theory10%lab
Second Exam	TBA	20%theory 10% lab
Final Exam	TBA	27%theory 13% lab
Participation	Excellent participation is expected	

Course Objectives	Percentage
1. Identify the different types of CM	10%
2. Prepare the CM and the fluoroscopy room for the different examinations	10%
3. Identify the side effects of CM and how to deal with the emergency situations	10%
4. Assist the radiologist with performing the different fluoroscopic examination	20%
5. Identify the anatomic appearance for the different body systems in fluoroscopy	30%
6. Take care of the patient pre, during, and post the examination	20%

Learning Outcomes: Upon successful completion of this course, students will be able to:	
1.	Identify and choose the right CM for specific examination
2.	Prepare the CM for examination
3.	Identify the different side effects of CM and how to manage them
4.	Efficiently assist the radiologist in performing the examination
5.	Read the image and identify the different anatomy and simple pathology.
6.	Contact with the patient professionally to reduce his anxiety, answer any enquiries, and take care of him/her

Teaching & Learning Methods
Lectures, visual demonstrations, group work, and personal contact

Course content				
Week	Date	Topics	Text book (handouts)	Lecturer
1		Types of contrast media (CM). Structure and properties of CM. Possible uses of CM	Textbook	Badira Al Qudah
2		Pharmaceutical product quality of CM. Risk of CM use	Textbook	Badira Al Qudah
3		Drugs and measures for the treatment of a CM reaction. Imaging of the GIT. Barium swallow	Textbook	Badira Al Qudah
4		Barium meal. Barium follow-through	Textbook	Badira Al Qudah
5		First exam Small bowel enema	Textbook	Badira Al Qudah
6		Barium enema Imaging of the urinary tract	Textbook	Badira Al Qudah
7		Intravenous urography (IVU). Micturating cystourethrography (MCU). Renal puncture	Textbook	Badira Al Qudah
8		Nephrostomy Imaging of the female reproductive system. Hysteroalpingiography (HSG). Imaging of the biliary system	Textbook	Badira Al Qudah
9		Oral cholegraphy. PTC	Textbook	Badira Al Qudah
10		T tube choleangiography Second Exam	Textbook	Badira Al Qudah
11		Endosce retrograde	Textbook	Badira Al Qudah

		cholangiopancreatogram (ERCP). Arthrography		
12		Sialography Fistulography	Textbook	Badira Al Qudah
13		Myelography. Bronchography	Textbook	Badira Al Qudah
14		Revision	Textbook	
15		Final exam		

Practical course content

Week	Date	Topic	Place
1		fluoroscopy room visit	Hospital
2		Contrast Media types and additional supplies	Hospital/Laboratory
3		Reaction to CM	Laboratory
4		Barium swallow, barium meal	Laboratory
5		Barium follow through, barium enema	Laboratory
6		IVU	Laboratory
7		MCUG	Laboratory
8		ERCP	Laboratory
9		PTC and oral cholecystogram	Laboratory
10		Sialography, Myelography	Laboratory
11		Revision	Laboratory

Additional Notes

Attendance policy:

- Students are expected to attend all more than 90% of lectures.
- Each student is expected to sit in his numbered seat
- Empty seat will be counted as absent
- All absences will be entered electronically into the University site
- If absence is more than 10% student will be banned from the course after electronic notification from the university through student e-mail.

Expected workload:

Students are expected to take every effort to ensure satisfactory learning of the material given.

Feedback:

Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean. Questions about the material covered in the lecture, notes on the content of the course, its teaching and assessment methods can be also sent by e-mail to the following address

bmalmohammad@just.edu.jo