



A- COURSE TITLE, CODE, ACADEMIC YEAR:

CLINICAL PRACTICE (2) (RAD 372) 1437-1438H

B- COURSE INFORMATION:

Course Code	Course Title	Credit Units			Study Level	Pre-requisites
		Total	Theory	Practical		
RAD-372	Clinical Practice 2	4	-	-	6 th	RAD-371
Course Coordinator		Extension		Email Address		
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C- COURSE DESCRIPTION:

This course is a continuation of RAD 371. Supervised clinical practice experience designed for sequential development, application, critical analysis, integration, synthesis, and evaluation of concepts and theories in the performance of radiologic procedures and CT imaging techniques. Contents includes patient assessment, general radiography; radiographic examinations of extremities (upper and lower) and girdles, chest, thorax, abdomen, vertebral column, A& E radiography, Fluoroscopy; urinary system, and gastrointestinal system, intervention radiography, and computed tomography(head, neck, chest and abdomen); radiologic imaging critique; concepts of team practice and patient-centered clinical practice. The course will be scheduled in block time form; 2 day/ week (6 hrs/day) for 15 weeks.

D- COURSE OBJECTIVES:

1. Identify and demonstrate understanding of the safe use of controls and accessory equipment utilized on the diagnostic imaging equipment.
2. Greet patients, put them at their ease and explain procedures.
3. Demonstrate a sound knowledge of surface and radiographic anatomy.
4. Outline the steps involved in the pre-diagnostic imaging procedures.
5. Contribute to the production of a clinically acceptable beam direction shell and appreciate the patients' perspective of the impression process

F- PRACTICAL SESSIONS:

Week	Practical Session	Contact Hours
1	General and / or A&E Room <ol style="list-style-type: none"> 1. Standard positioning and departmental protocols. 2. Assessment of radiographs, modification of exposure factors and technique. 3. Identify normal, normal-variant anatomy and pathology. 4. Identify the need for additional views and modification of technique in trauma. 	36



	Safe and efficient working, with particular attention to radiation protection, patient care and communication.	
2	<p>Fluoroscopy Room</p> <ol style="list-style-type: none"> 1. Use of barium as a contrast agent. 2. Standard positioning and departmental protocols for barium studies. 3. Assessment of radiographs, modification of exposure factors and technique. 4. Identify normal, normal-variant anatomy and pathology. 5. Identify the need for additional views. 6. Develop involvement, increase role as a student radiographer. <p>Safe and efficient working, with particular attention to radiation protection, patient care and communication.</p>	48
3	<p>Interventional Room</p> <ol style="list-style-type: none"> 1. Observe a range of interventional procedures, including cardiac, neurological and angiographic examinations and procedures. 2. Use of contrast media. 3. Participate as a member of the inter-professional team. 4. Identification of normal, normal-variant anatomy and pathology. 5. Identification of interventional treatment techniques. 6. Radiation protection in a high-dose environment. 7. The principles of a sterile environment and infection control. <p>Safe and efficient working, with particular attention to radiation protection, patient care and communication.</p>	48
4	<p>Computed Tomography</p> <ol style="list-style-type: none"> 1. Apply standard positioning and departmental protocols of head, neck, chest and abdomen. 2. Use of contrast media (types and doses). 3. Image processing and manipulation. 4. Identify normal, normal-variant cross-sectional anatomy and pathology. <p>Safe and efficient working, with particular attention to radiation protection, patient care and communication.</p>	48
	Total contacts hours	180

G- ASSESSMENT TASKS:

#	Type of assessment task	Week	Total Grades
1	Case study (A)	4-6	10%
2	Case study(B)	10-12	10%
3	OSCE	9	15%
4	Log book	14	5%
5	Mid-term exam	15	20%



6	Final practical exam	16	40%
	total		100%

H- LEARNING RESOURCES:

1- Required textbook:

- Bontrager K.L. (2009). Textbook of Radiographic Positioning and Related Anatomy(7th edition), Mosby, ISBN 0-323-05410-2 .
- Clark K.C (2009). Clark's Positioning in Radiography. (12th edition), Hodder Arnold, ISBN 0-340-76390-6.

2- Essential references:

Merrill's Pocket Guide to Radiography(2010). 12th Edition By Frank, Long & Smith - ISBN 9780323073325