



**A- COURSE TITLE, CODE, ACADEMIC YEAR:**

**INTRODUCTION TO FORENSIC RADIOGRAPHY (RAD 454) 1437-1438H**

**B- COURSE INFORMATION:**

Course Code	Course Title	Credit Units			Study Level	Pre-Requisites
		Total	Theory	Practical		
RAD-454	Introduction to Forensic Radiography	3	2	1	8 <sup>th</sup>	RAD-411
Course Coordinator		Extension		Email Address		
Dr. Fathelrehman Ahmed Elajab				faamin@taibahu.edu.sa		

**C- COURSE DESCRIPTION:**

This course is designed to provide students with an introduction to basic principles of forensic study enhanced with radiologic imaging.

**D- COURSE OBJECTIVES:**

1. Define basic terms related to Forensic.
2. Identify common areas of forensic study enhanced with radiologic imaging.
3. Identify common procedures performed by forensic radiographers.
4. Discuss the importance of producing pre- and post-mortem images of comparable quality.
5. Discuss the importance of radiographic images as forms of evidence in a court of law.
6. Identifying pre-existing skeletal trauma, assisting in the determination and/or confirmation of the cause of death and locating hidden foreign bodies, such as fragments of explosives and packages of illegal substances.
7. Understand the appropriate forensic imaging protocols for each situation, as well as the legal and ethical issues involved.
8. Discusses the important aspects of forensic imaging, as well as new developments in technology, in an effort to provide the student with the necessary tools to function as part of the forensic team.

**E- THEORY TOPICS:**

Week	Theory Topic	Contact Hours
1	History of Forensic Radiography. Definition of Forensic radiology.	2
2	Forensic Imaging Today.	2
3	Basic Forensic Pathology for Law Enforcement and Death Investigators.	2
4	Image quality.	2



5	Safety in Forensic Radiology.	2
6	Legal and Ethical Considerations.	2
7	Collection and Preservation of Evidence.	2
8	Using Medical Imaging in Forensic Science.	8
9	Imaging in Mass Fatality Events	2
10	Current Developments in Forensic Radiography	2
11	Ensuring Images Are Admissible:	2
12	An overview of the main aspects of forensic imaging.	2

#### F- PRACTICAL SESSIONS:

Week	Practical Session	Contact Hours
1	Safety measures in forensic radiography	4
2	Collection and Preservation of Evidence.	2
3	Image quality assessment	4
4	Imaging in Mass Fatality Events	2
5	<ul style="list-style-type: none"> <li>• <b>The applications of forensic radiography:</b> <ul style="list-style-type: none"> <li>✓ Child abuse.</li> <li>✓ Bone age.</li> <li>✓ Identification.</li> <li>✓ Trauma.</li> <li>✓ Post-mortem imaging.</li> </ul> </li> </ul> Pullet injuries.	12
6	Applications of advanced imaging techniques in forensic radiology.	6

#### G- ASSESSMENT TASKS:

#	Type of assessment task	Week	Total Grades
1	Assignment (quizzes, seminars, etc.....).	Over the course period	10%
2	Written test1	8 <sup>th</sup>	20%
3	Written test2.	12 <sup>th</sup>	20%
4	Final exam (practical).	14 <sup>th</sup>	10%
5	Final exam (theoretical).	16 <sup>th</sup>	40%

#### H- LEARNING RESOURCES:



1- Required textbook:

- Mark D. Viner.(2010). Forensic Radiology. B. G. Brogdon ISBN:0849381053. ISBN-13:9780849381058.
- London, UK: The Society and College of Radiographers - B. G. Brogdon and The Association of Forensic Radiographers; (2005). Guidance for Radiographers providing Forensic Radiography Services.

2- Essential references:

- Disaster Mortuary Operational Response Team Standard Operating Procedures. (2008). Available at: [http://www.dmort7.org/downloads/DMORT\\_SOP\\_2008jn2.pdf](http://www.dmort7.org/downloads/DMORT_SOP_2008jn2.pdf). Accessed March 9, 2009.

**Notes:**

- Assignments topics and requirements shall be announced by the end of Week-1, the deadline for submission is 12 pm Thursday of Week-10 (each semester).
- Assignments and written assessment tasks must be verified against plagiarism, the maximum acceptable percentage is determined by the department (according to each level).
- Continuous assessments may include quizzes, internet searches, home-works, exercises, class activity, scratch cards, presentations, group work, etc.
- Practical exams may contain hands-on experiments, laboratory work, simulations, or demonstrations.
- Written exams will include multiple-choice questions (MCQ), short essay questions, and long essay questions.