



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Radiologic Technology Department**

RA313 Principles Of Diagnostic Imaging 2 Lab

First Semester 2023-2024

**Course Catalog**

1 Credit Hours. This course is the practical part of PRINCIPLES OF DIAGNOSTIC IMAGING 2. Students are expected to observe and identify the imaging equipment in the lab. In addition, to understand the physical components and aspects of diagnostic imaging procedures.

**Text Book**

<b>Title</b>	Radiologic Science for Technologists.
<b>Author(s)</b>	Bushong S
<b>Edition</b>	12th Edition
<b>Short Name</b>	1
<b>Other Information</b>	

**Instructor**

<b>Name</b>	<b>Dr. Mustafa Alhasan</b>
<b>Office Location</b>	Faculty of Applied Medical Sciences
<b>Office Hours</b>	Sun : 10:30 - 12:30 Mon : 14:30 - 15:30 Tue : 10:30 - 12:30 Wed : 14:30 - 15:30
<b>Email</b>	mkalhasan@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Mon : 08:30 - 10:30  
Room: LAB

Section 2:  
Lecture Time: Mon : 10:30 - 12:30  
Room: LAB

Section 3:  
Lecture Time: Mon : 12:30 - 14:30  
Room: LAB

Section 4:  
Lecture Time: Wed : 08:30 - 10:30  
Room: LAB

Section 5:  
Lecture Time: Wed : 10:30 - 12:30  
Room: LAB

Section 6:  
Lecture Time: Wed : 12:30 - 14:30  
Room: LAB

#### Teaching Assistant

Rasha Elshayib(Sections 1, 2, 3, 4, 5, 6)

#### Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Digital x-ray imaging. Image characteristics, Dynamic range	From <b>1</b>
Weeks 2, 3	Digital Radiographic Image: Computed radiography	From <b>1</b>
Weeks 4, 5	Digital Radiographic Image: Digital radiography	From <b>1</b>
Week 6	Concepts of radiographic image quality and image artifacts	From <b>1</b>
Weeks 8, 9	Advanced x-ray imaging: Fluoroscopy	From <b>1</b>
Weeks 10, 11	Advanced x-ray imaging: Mammography	From <b>1</b>
Weeks 12, 13	Special Imaging Methods: Tomography	From <b>1</b>
Weeks 14, 15, 16	Special Imaging Methods: Stereoradiography and magnification imaging	From <b>1</b>

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand principles of digital imaging systems	35%	
Understanding image acquisition artifacts	15%	

Understanding the and fluoroscopic its imaging requirement's	25%	
Understand the mammographic and its imaging requirements	25%	

<b>Policy</b>	
Statement on Professionalism	Professional behaviour is expected of students at all times. Attitude and professional behaviour are a minimum criterion for passing this class. Examples of unprofessional behaviour include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.
Cheating	University regulations will be applied on cases of cheating and/or plagiarism
Cell phone	The use of cellular phone is prohibited in class rooms and during exams. The cellular phone must be switched off in class rooms and during exams.
Attendance	No points will be count for points attendance of this class, however attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes !
Absences	University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulation for more details)
Make-up Exam	Make-up exams is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details)

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