

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

RA749 Practical Trainingin Nuclear Medicine And Computed Tomography - JNQF Level: 9

Second Semester 2022-2023

Course Catalog

3 Credit Hours. This course provides hands-on clinical experience in the application of nuclear medicine and computed tomography in diagnostic and therapeutic settings. Students will rotate through clinical departments, gaining practical skills in patient preparation, radiopharmaceutical administration, imaging acquisition, and post-processing techniques. Emphasis is placed on integrating NM and CT modalities in hybrid imaging systems (e.g., PET/CT, SPECT/CT) for accurate diagnosis and treatment monitoring. Key areas of focus include quality control, radiation safety, dosimetry, and patient care protocols. Students will engage in supervised practice to interpret clinical cases, collaborate with healthcare professionals, and develop effective communication skills in multidisciplinary settings. The course aims to bridge theoretical knowledge with clinical practice, fostering competence and confidence for professional roles in radiologic and nuclear medicine environments.

Teaching Method: On Campus

Text Book		
Title	Computed Tomography for Technologists: A Comprehensive Text	
Author(s)	Romans LE. 2011	
Edition	15th Edition	
Short Name ct		
Other Information		

Course References

Short name	Book name	Author(s)	Edition	Other Information
NM	Nuclear Medicine and PET/CT: Technology and Techniques	Waterstram- Rich	8th Edition	

Instructor	
Name Dr. Mustafa Alhasan	
Office Location Faculty of Applied Medical Sciences	

Office Hours

Mon: 15:30 - 16:00

Tue: 14:30 - 16:30

Wed: 15:30 - 16:00

Thu: 12:30 - 13:30

Thu: 14:30 - 16:30

Email

mkalhasan@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Mon, Wed: 12:30 - 15:30

Room: HOSPITAL

Teaching Assistant

Rasha Elshayib(Section 1)

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2, 3, 4, 5, 6	Training on CT scan	
Weeks 7, 8, 9, 10, 11, 12	Training on NM	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Gain practical skills on CT scan [1PLO M7] [1L9S1]	25%	mid, final
Understand and discuss advanced CT imaging techniques [1PLO M1] [1L9K1]	25%	mid, final
Gain practical skills on NM [1PLO M2] [1L9S3]	25%	final
Understand and discuss advanced NM imaging techniques [1PLO M5] [1L9K3]	25%	final

Relationship to Program Student Outcomes (Out of 100%)						
PLO M1	PLO M2	PLO M3	PLO M4	PLO M5	PLO M6	PLO M7
25	25			25		25

Relationship to NQF Outcomes (Out of 100%)			
L9K1	L9K3	L9S1	L9S3
25	25	25	25

Evaluation	
Assessment Tool	Weight

mid	60%
final	40%

	Policy		
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior 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)		
Feedback	Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours		

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