

Jordan University of Science and Technology

Faculty of Applied Medical Sciences

Physical Therapy Department

P.T311 Medical Imaging& JNQF Level: 7								
	First Semester 2023-2024							
	Course Catalog							
	2 Credit Hours. Understanding the principles of interpreting medical imaging. The diagnostic tools including x-ray, CT- scan, MRI, fMRI, nerve conduction studies, EMG, EEG, MEG, PET, and NIRS will be covered.							
Teaching Method: Blended	Teaching Method: Blended							
Text Book								
Title	Diagnostic Imaging for Physical Therapists							
Author(s)	James Swain Kenneth Bush Juliette Brosing							
Edition	1st Edition							
Short Name	Ref 1							
Other Information	2009							
	Instructor							
Name	Dr. Mikhled Maayah							
Office Location	Head of Department Office							
Office Hours								
Email	mikhledm@just.edu.jo							
	Class Schedule & Room							
Room: M4201								
	Prerequisites							
Line Number	Course Name P	rerequisite Type						
1112030	P.T203 Musculoskeletal Anatomy (Lab)	rerequisite / Study						
102261 MED226 Neuroscience (1) Prerequisite / Study								
	Tentative List of Topics Covered							
Weeks	Торіс	References						
Week 1	Course Introduction and X-rays ABCS	From Ref 1						
Week 2	X-rays for Cervical spine	From Ref 1						
Week 3	X-rays Lumber spine	From Ref 1						
Week 4	X-rays Shoulder joint	From Ref 1						
Week 5	X-rays or outdot joint X-rays for wrist & Hand	From Ref 1						
Week 6	X-rays Pelvic and knee joint	From Ref 1						
Week 7	X rays ? Leg, Ankle, Foot	From Ref 1						
Week 8 Weeks 9, 10	MRI Introduction and MRI for Brain (lateral view) Brain MRI for Sagittal, Frontal, and Superior views	From Ref 1						
Weeks 11, 12	MRI for Spine, pelvic, Knee and foot	From Ref 1						
Week 13	NCS and EMG	From Ref 1						

Weeks 14, 15	Weeks 14, 15 Brain Mapping						
Mapping of Course Outcomes to	o Program Outcomes and NQF Outcomes		rse Outcome eight (Out of 100%)	Assessment method			
Develop a comprehensive vocabul physical therapy practice. [1PLO1		25%					
Differentiate between normal anato clinical presentations. [1PLO1 -K1]		25%					
Interpret normal anatomical structures and elucidate pathological findings evident in MRI imaging, as well as other electrophysiological and 25% hemodynamic imaging techniques, within the context of physical therapy assessment and treatment planning. [1PLO4-K4] [1L7S2]							
Integrate foundational knowledge of medical imaging with differential diagnosis principles to analyze and apply diagnostic findings in clinical 25% scenarios, promoting effective decision-making and patient-centered care. [1PLO1 -K1] [1L7C4]							

	Relationship to Program Student Outcomes (Out of 100%)															
PLO1 -K1	PLO8- C1	PLO9- C2	PLO5- S1	PLO2- K2	PLO3- K3	PLO6- S2	PLO4- K4	PLO10- C3	PLO7- S3	MS_PLO1	MS_PLO2	MS_PLO3	MS_PLO4	MS_PLO5	MS_PLO6	MS_PLO7
75							25									

Relationship to NQF Outcomes (Out of 100%)							
L7K1	L7S1	L7S2	L7C4				
25	25	25	25				

	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 the lecture, leaving a lecture before 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 in cases of cheating and/or plagiarism.
Attendance and Absences	No points will be counted for attendance in this class; however, attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in the lecture sessions. It is imperative to attend all classes! 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 are entitled to 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 e- mail or during office hours.

Date Printed: 2024-02-12