



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Physical Therapy Department

P.T221 Musculoskeletal Assessment - JNQF Level: 7

First Semester 2023-2024

Course Catalog

1 Credit Hours. This course focuses upon the clinical evaluation of the musculoskeletal system, involving the cervical, thoracic and Lumbar regions, the upper and lower extremities. Emphases will be placed on manual therapy assessment of the musculoskeletal system for enhancing the clinical decision-making rationale by analysing and integrating the clinical finding.

Text Book

Title	Muscle Testing: Techniques of Manual Examination
Author(s)	Helen Hislop and Jacqueline Montgomery
Edition	18th Edition
Short Name	Ref#1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	Musculoskeletal Assessment Joint Motion and Muscle Testing	Hazel M. Clarkson	23rd Edition	
Ref#3	Musculoskeletal Examination	Jeffrey M. Gross, Joseph Fetto, and Elaine Rosen	30th Edition	

Instructor

Name	Dr. Mohammad Etoom
Office Location	-

Office Hours	Sun : 08:00 - 08:30 Mon : 08:00 - 12:00 Tue : 08:00 - 08:30 Tue : 15:30 - 16:30 Thu : 08:00 - 09:00
Email	msetoom@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Tue : 11:30 - 12:30 Room: NB53

Prerequisites		
Line Number	Course Name	Prerequisite Type
1112030	P.T203 Musculoskeletal Anatomy (Lab)	Pre./Con.

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Course Introduction	From Ref#1
Weeks 2, 3, 4	Shoulder complex	From Ref#1 , From Ref#2 , From Ref#3
Week 5	Elbow joint	From Ref#1
Week 6	Wrist and hand	From Ref#2
Weeks 7, 8	Hip Joint	From Ref#2 , From Ref#3
Week 9	Knee Joint	From Ref#1
Week 10	Ankle Joint	From Ref#2
Weeks 11, 12	Cervical Spine	From Ref#3
Weeks 13, 14	Thoracic Spine	From Ref#1
Week 15	Lumber Spine	From Ref#1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe functional anatomy and biomechanics of the musculoskeletal system as it relates to evaluation of musculoskeletal [1PLO1] [1L7K1]	10%	

Classify movement dysfunction and identify impairments, activity limitations and participation restrictions experienced by individuals with musculoskeletal dysfunction conditions [1PLO7] [1L7S2]	10%	
Use manual therapy skills to evaluate musculoskeletal conditions (Muscle testing, ROM, arthrokinematic, Osteokinematic and flexibility, open packed position and closes packed positions, capsular pattern of restrictions). [1PLO7] [1L7C4]	20%	
Understanding the principle of manual muscle grading system. [1PLO7] [1L7K1]	20%	
Apply Goniometer and joint range of motion measurement. [1PLO7] [1L7S1, 1L7S2]	20%	
Identify the types of restrictions that affect joint range of motion. [1PLO1] [1L7K1]	10%	
Utilize the positions for muscle testing and the goniometry [1PLO7, 1PLO9] [1L7C2, 1L7C4]	10%	

Relationship to Program Student Outcomes (Out of 100%)									
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
20						75		5	

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7C2	L7C4
40	10	20	5	25

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