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

P.T761 Advanced Musculoskeltal Physical Therapy

Second Semester 2023-2024

Course Catalog
3 Credit Hours. The course will include an advanced evaluation and treatment of musculoskeletal conditions involving the spine, upper and lower extremities. The emphasis of this course will be placed on enhancing clinical decision-making skills during the process of patient evaluation and management. within the overall plan of care for the patient.
Teaching Method: On Campus

Text Book	
Title	Clinical Orthopaedic Rehabilitation
Author(s)	S. Brent Brotzman, MD; Robert C. Manske, PT,
Edition	4th Edition
Short Name	Ref # 1
Other Information	Elsevier Mosby, 2018

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref # 2	Musculoskeltal interventions: Techniques for therapeutic exercise	Michael L. Voight, Barbara J. Hoogenboom, William E. Prentice	4th Edition	McCraw-Hill Medical, 2021

Instructor	
Name	**Dr. Zakariya Nawasreh**
Office Location	Medical Building M5, L-4
Office Hours	
Email	zhnawasreh@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Wed : 13:30 - 16:30 Room: M3304

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe normal and abnormal joint mechanics of the spine and extremities [1MS_PLO1_K1]	10%	Frist exam
Describe the histological and gross structure and function of ligaments and articular cartilage of the body joints and the general effects of aging, disease, injury, mobilization, and immobilization on these tissues [1MS_PLO3_K3]	10%	Frist exam
Describe current medical and surgical management of common musculoskeletal conditions involving the spine and extremities. [1MS_PLO3_K3]	15%	Second exam
Classify movement dysfunction and identify impairments, functional limitations and disability experienced by individuals with musculoskeletal dysfunction of the spine and extremities. [1MS_PLO7_C2]	10%	Final exam
Develop clinical skills to evaluate and treat musculoskeletal conditions of the spine and extremities [1MS_PLO6_C1]	15%	Second exam
Integrate clinical skills into the overall plan of care to reduce or eliminate impairments, functional limitations, and disability associated with musculoskeletal conditions [1MS_PLO8_C3]	10%	Final exam
Describe modifications in the rehabilitation program for individuals following selected surgical procedures for the spine and extremities. [1MS_PLO7_C2]	10%	Final exam
Plan an exercise program to enhance the dynamic stability and function of the joints [1MS_PLO9_C4]	10%	Final exam
Describe the use of taping procedures and patellar sleeves and evaluate and prescribe orthotics for common musculoskeletal conditions. [1MS_PLO10_C5]	10%	Final exam

Relationship to Program Student Outcomes (Out of 100%)															
PLO1-K1	PLO2-C3	PLO3-C3	PLO4-S1	PLO5-S2	PLO6-S3	PLO7-S3	PLO8-C3	PLO9-C2	PLO10-C1	MS_PLO1_K1	MS_PLO2_K2	MS_PLO3_K3	MS_PLO4_S1	MS_PLO5_S2	MS_PLO6_C1
										10		25			15

Evaluation	
Assessment Tool	**Weight**
Frist exam	20%
Second exam	30%
Final exam	50%

Policy	
Course Plicy	Jordan University of Science and Technology Faculty of Applied Medical Sciences/ Department of Rehabilitation Sciences Second Semester of 2023-2024 Course Syllabus Course Information Course Title Advanced musculoskeletal physical therapy Course Code P.T 761 Prerequisites -- Course Website Instructor Zakariya H. Nawasreh BPT, MSc, PhD (Coordinator) Mohammad A. Yabroudi, BPT, MSC, PhD Saddam F. Kanaan, PT, CMP, MSc, PhD Office Location M 5, level -4, #25 Office Phone # 7201000 ext. 26937 Office Hours Sun:1:00-3:00 pm Mon: 2:00-4:00 pm; Wedy: 2:00-4:00 pm, Thur: 1:00-3:00 pm; E-mail zhnawasreh@just.edu.jo, Zhn@udel.edu Teaching Assistant(s) N/A Class dates and times Wed: 1:00-4:00 pm Classroom U Course credit This course is three credit hours given three theoretical hours per week Course Description The course will include an advanced evaluation and treatment of musculoskeletal conditions involving the spine, upper, and lower extremities. Emphasis will be placed on enhancing clinical decision-making skills during patient evaluation and management within the overall plan of care for the patient. Textbook Title Clinical Orthopaedic Rehabilitation Author(s) S. Brent Brotzman, MD; Robert C. Manske, PT Publisher Elsevier Mosby Year 2011 Edition Third edition Other references Musculoskeletal Interventions: Techniques for Therapeutic Exercise Michael L. Voight, Barbara J. Hoogenboom, William E. Prentice McCraw-Hill Medical, 4th edition, 2021 Assessment Assessment Expected Due Date Percentage Midterm Exam March 26th, 2020 30% Practical exam TBA 10% Assignment (Presentation) TBA 20% Final Exam TBA 40% Course Objectives Percentage % Describe the gross structure and function of ligaments and articular cartilage of the body joints and identify the normal and abnormal joint mechanics of the spine and extremities 20% Describe current medical and surgical management of common musculoskeletal conditions involving the spine and extremities. 20% Classify movement dysfunction and identify impairments, functional limitations, and disability experienced by individuals with musculoskeletal dysfunction of the spine and extremities. 10% Develop clinical skills to evaluate and treat musculoskeletal conditions of the spine and extremities 20% Describe modifications in the rehabilitation program for individuals following selected surgical procedures and injuries of the spine and extremities 10% Integrate clinical skills into the plan of care to reduce or eliminate impairments, functional limitations, and disability associated with musculoskeletal conditions 10% Plan an exercise program to enhance the dynamic stability and function of the joints by 10% Teaching & Learning Methods ? Lectures and practical Teaching duration: ? 15 Lectures/practicals of 180 minutes/each ? Practical portion will be conducted during class time in the PT lab Useful Resources ? E-learning website: students should check their E-learning accounts. Each student should be responsible for studying the materials, articles, and other resources posted on E-learning. ? JUST University Library. ? Pubmed ? Students are encouraged to discuss any unclear material or information with the instructor, supervisor, and the physical therapists at the facility where they practice. Learning Outcomes: Upon successful completion of this course, students will be able to Reference(s) Handouts Able to perform the clinical examination for musculoskeletal conditions Handouts Understand the differential diagnosis for different musculoskeletal conditions Book and notes Develop a comprehensive and effective treatment plan for musculoskeletal conditions Book, and notes Describe exercise training that improves the strength and function for musculoskeletal conditions Book, and notes Understand the surgical procedures and the physical therapy interventions for musculoskeletal conditions Book, and notes Identify the practice consid

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