



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Rehabilitation Sciences
Second Semester 2013-2014
Course Syllabus

Course Information	
Course Title	Musculoskeletal Assessment
Course Code	OT 246
Prerequisites	None
Instructor	Qussai Obiedat, MS, OTR
Office Location	Faculty of Applied Medical Sciences, 2nd Floor
E-mail	qmobiedat4@just.edu.jo
Course credit	2 credit hours, 1 theory (1 hours per week), 1 practical (2 hours per week)
Course Website	http://elearning.just.edu.jo/
Course Description	
This course will focus upon the clinical evaluation of the musculoskeletal system, involving the cervical 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 analyzing and integrating the clinical finding. The course consists of lecture and laboratory sessions.	

Textbook	
Title	Occupational Therapy for Physical Dysfunction
Author(s)	Mary V. Radomski; Catherine A. Trombly Latham
Publisher	Lippincott Williams & Wilkins
Year	2008
Edition	6 th edition
Book Website	None
Other references	Hand outs & lecture notes

Assessment	Percentage
Midterm Exam	30%
Lab Work	20%
Midterm Practical exam	10%
Final practical exam	20%
Final Exam	20%

Course Objectives	Percentage
1. Describe functional anatomy and biomechanics of the musculoskeletal system as it relates to evaluation of musculoskeletal.	10%
2. Classify movement dysfunction and identify impairments, activity limitations and participation restrictions experienced by individuals with musculoskeletal dysfunction conditions.	10%
3. Use manual therapy skills to evaluate musculoskeletal conditions (Muscle testing, ROM).	10%
4. Understanding the concept of musculoskeletal examination.	10%
5. Understanding the principle of manual muscle grading system	10%
6. Understand the concept of joint restrictions.	10%
7. Understand the principle of the Goniometer and joint range of motion measurement.	10%
8. Understanding the position for muscle testing and the goniometry.	5%
9. Understand the factors that affect muscle strength.	10%
10. Identify the types of restrictions that affect joint range of motion.	10%
11. Understand the patterns of range of motion restriction.	5%

Teaching & Learning Methods
The theoretical part of the course is given in the form of one hour every week. The practical side consists of one laboratory session every week. Each laboratory exercise will start by a brief review of the theoretical side and then is followed by a practical demonstration of the laboratory side by a senior instructor. Students will then perform the laboratory work as assigned in the laboratory program. • Power point presentation using a computer, data show and screen. • Class discussion Teaching duration: • One hour lecture will be given weekly • Two hours lab weekly

Useful Resources
University library, internet, CDC

Additional Notes
Attendance policy: ▪ Students are expected to attend more than 90% of all lectures. ▪ All absences will be entered electronically into the University site ▪ If absence is more than 10% student will be banned from the course after electronic notification from the university through student e-mail. Expected workload: Students are expected to take every effort to ensure satisfactory learning of the material given. Feedback: Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is

forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean. Questions about the material covered in the lecture, notes on the content of the course, its teaching and assessment methods can be also sent by e-mail to the following address: g_obiedat@yahoo.com

Week	Topics	Chapter in Textbook (handouts)
1	General Overview of the Musculoskeletal System	handouts
2	Principles of Range of Motion	CH 5
3	Measuring Shoulder joint Range of Motion	CH 5
4	Measuring Elbow, wrist and hand Range of Motion	CH 5
5	Principles of Manual muscle testing	CH 5
6	Principles of Manual muscle testing	CH 5
7	Shoulder	handouts
8	Midterm exam	
9	Elbow	handouts
10	Wrist and hand	handouts
11	Hip	handouts
12	Knee	handouts
13	Foot and Ankle	handouts
14	Trunk and Spine	handouts
15	Lumbosacral spine	handouts
16	Review	

Lab schedule	
Week	Topics
1	No Labs
2	Types of Joints
3	Shoulder Goniometry
4	Elbow + Forearm + Hand Goniometry
5	Fingers + Thumb Goniometry
6	Quiz in Goniometry
7	Principles of MMT + Shoulder MMT
8	Shoulder MMT
9	Midterm Practical Exam
10	Elbow + Forearm + Wrist MMT
11	Fingers MMT + Power Grip + Pinch Grip
12	Quiz in MMT
13	Review
14	Final Practical Exam