



Course Syllabus

THE VISION OF THE UNIVERSITY OF JORDAN

A university excelling in pedagogy, research, and innovation and advancing in global standing

THE MISSION OF THE UNIVERSITY OF JORDAN

Providing students with fulfilling learning experiences, conducting knowledge-producing research, and building firm societal ties, within an environment conducive to creativity, innovation, and entrepreneurship: making efficient use of resources and forging fruitful partnerships.

THE VISION OF THE SCHOOL OF REHABILITATION SCIENCES

Leadership in the creation and development of knowledge, and in the preparation of human resources aspiring for excellence regionally and internationally

THE MISSION OF THE SCHOOL OF REHABILITATION SCIENCES

To excel in the preparation and training of model rehabilitation personnel, who participate in the health and community sector, and provide the local and regional community with appropriate rehabilitation services based on needs. Through educational curricula that facilitates the implementation of up to date rehabilitation services based on the best available evidence.

THE VISION OF THE DEPARTMENT OF PHYSIOTHERAPY

To be recognized as an outstanding educational program with high quality faculty members, staff and students

THE MISSION OF THE DEPARTMENT OF PHYSIOTHERAPY

To graduate professionals in the field of physical therapy who are to contribute to the health needs of society through education, scholarly activities

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1	Course title	Tests and Measures	
2	Course number	1811202	
3	Credit hours	1 theory, 1 practical	1 theory, 1 practical
	Contact hours (theory, practical)	1 theory, 4 practical	
4	Prerequisites/corequisites	Anatomy 0502108	
5	Program title	BSc. Physiotherapy	
6	Program code	1801	
7	Awarding institution	The University of Jordan	
8	School	Rehabilitation Sciences	
9	Department	Physiotherapy	
10	Course level	Undergraduate	
11	Year of study and semester (s)	2022/2023 – First semester	
12	Other department (s) involved in teaching the course	NA	
13	Main teaching language	English	
14	Delivery method	<input type="checkbox"/> Face to face learning <input checked="" type="checkbox"/> Blended <input type="checkbox"/> Fully online	
15	Online platforms(s)	<input checked="" type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	Issuing/Revision Date	2.10.2023	

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19 Course Description:

This course focuses on the importance of assessment and measurement in rehabilitation. It provides an overview of the concepts related to assessment, measurement and evaluation in clinical rehabilitation settings. This course is an introduction to the concepts and models of functioning as a central outcome for rehabilitation. The practical aspect of this module will be a practical application of musculoskeletal assessment (assessment of range of motion ROM and manual muscle testing MMT) and the application of the ICF model to clinical scenarios.

20 Course aims and outcomes:

A- Aims:

1. To provide an overview of the process of evaluating the outcomes of interventions in the context of rehabilitation.
2. To be able to interpret the different models of functioning.
3. To be able to interpret and apply the international classification of functioning disability and health (ICF) model to your practice.
4. To be able to identify the outcome measures that are developed to measure functional outcomes.
5. To be able to judge the relevance and appropriateness of certain outcome measures and assessment tools for your practice.
6. To develop the skills required for musculoskeletal assessment.

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

SLOs	SLO (1)	SLO (2)	SLO (3)	SLO (4)	SLO (5)	SLO (6)	SLO (7)	SLO (8)	SLO (9)	SLO (10)	SLO (11)
SLOs of the course											
1. Demonstrate understanding of the international classification of functioning and health and older models of functioning	X										
2. Demonstrate understanding of the importance of measurement in rehabilitation		X									
3. Display understanding of different levels and attributes of measurement		X									
4. Demonstrate comprehensive understanding of psychometric properties of measurement tools		X				X					
5. Apply the International classification of functioning and health to case scenarios in rehabilitation	X										
6. Demonstrate comprehensive knowledge in assessment of joint range of motion and manual muscle testing		X									
7. Implement critical thinking in analyzing clinical case scenarios						X					

8. Adhere to physiotherapy code of conduct in musculoskeletal assessment								X				
9. Display ability to apply musculoskeletal assessment in a safe manner											X	

Program SLOs:

1. Recognize, critically analyze and apply the conceptual frameworks and theoretical models underpinning physiotherapy practice
2. Demonstrate comprehension of background knowledge that informs sound physiotherapy practice
3. Demonstrate the ability to use online resources and technologies in professional development
4. Display a professional commitment to ethical practice by adhering to codes of conduct and moral frameworks that govern the practice of physiotherapy
5. Evaluate the importance of and critically appraise research findings to inform evidence-based practice such that these skills could be utilized in continuing self-development
6. Implement clinical reasoning, reflection, decision-making, and skillful application of physiotherapy techniques to deliver optimum physiotherapy management
7. Adhere to the professional standards of physiotherapy practice in terms of assessment, management, outcome measurement, and documentation
8. Display a willingness to promote healthy lifestyle and convey health messages to clients
9. Value the willingness to exercise autonomy while appreciating the challenges associated with delivering physiotherapy services
10. Display the ability to practice in a safe, effective, non-discriminatory, inter- and multi-disciplinary manner
11. Demonstrate effective oral and written communication with clients, carers, and health professionals

21. Topic Outline and Schedule:

Week	Lecture/ practical	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1.1	Introduction to module	-----	Online	MS teams	Synchronous	N/A	N/A
	1.2	Principles and methods of measurement	2,6,8,9	Face to face	N/A	Synchronous	Practical exam	Clarkson, 2021
2	2.1	The importance of assessment and measurement in health care	2	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	2.2	Shoulder ROM	2,6,8,9	Blended	E-learning MS teams	Synchronous	Practical exam	Clarkson, 2021
3	3.1	The concept of assessment, measurement, and evaluation in healthcare	2	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	3.2	Shoulder MMT	2,6,8,9	Blended	E-learning MS teams	Synchronous	Practical exam	Clarkson, 2021

4	4.1	Improvement of functioning (the outcome of rehabilitation)	1,2	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	4.2	Elbow and forearm ROM and MMT	2,6,8,9	Blended	E-learning MS teams	Synchronous	Practical exam	Clarkson, 2021
5	5.1	Introduction to the models of functioning	1,2	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	5.2	Wrist ROM and MMT	2,6,8,9	Blended	E-learning MS teams	Synchronous	Practical exam	Clarkson, 2021
6	6.1	The ICF	1,5,7	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	6.2	Hip ROM	2,6,8,9	Blended	E-learning MS teams	Synchronous	Practical exam	Clarkson, 2021
7	7.1	ICF application	1,5,7	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	7.2	Midterm practical exam						
8	8.1	Midterm theory exam						
9	9.1	Qualitative versus quantitative attributes	1,3	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	9.2	Hip MMT	2,6,8,9	Blended	E-learning MS teams	Synchronous	Practical exam	Clarkson, 2021
10	10.1	Levels of measurement	1,3	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	10.2	Knee ROM & MMT	2,6,8,9	Blended	E-learning MS teams	Synchronous	Practical exam	Clarkson, 2021
11	11.1	Levels of measurement application	1,3	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	11.2	Ankle and foot ROM & MMT	2,6,8,9	Blended	E-learning MS teams	Synchronous	Practical exam	Clarkson, 2021
12	12.1	The concept of validity	2,4	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	12.2	Neck ROM & MMT	2,6,8,9	Blended	E-learning MS teams	Synchronous	Practical exam	Clarkson, 2021
Monday 25.12.2022 Christmas holiday								
13	13.1	The concept of reliability and responsiveness	2,4	Online	MS teams	Synchronous	Theoretical exam	Selected articles
	13.2	Trunk ROM & MMT	2,6,8,9	Face to face	N/A	N/A	Practical exam	Clarkson, 2021
Monday 1.1.2023 New year's holiday								
14	Final practical exam							

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Midterm theory	30%	Week 1-7 theory	1-7, 11	Week 8	Face to face



Midterm Practical (grading criteria in Appendix 1)	20%	Week 1-6 practical	12, 15-21	Week 7	Face to face
Quiz	10%	Week 10			Online
Final theory	20%	All topic - theory	1-11, 13, 14	To be announced by registration	Face to face
Final practical (grading criteria in Appendix 1)	20%	All topics - practical	12, 15-21	Week 15	Face to face

23 Course Requirements

For the theoretical part you will need access to a display device (computer, laptop, tablet or your mobile phone), internet connection and access to the e-learning system and Microsoft Teams.

Please ensure to check the e-learning website and the teams page regularly to prepare all lab material and download the reading materials uploaded for each session.

The practical session content videos will be uploaded on the e-learning system and on the course teams page a week before the session, so make sure to watch the videos, go through the book chapter and come to the lab prepared. This is your responsibility, and the practical session time is dedicated for practice only.

For each lab and clinical session, you should have:

- A tape measure (each student should have one).
- A goniometer (each student should have one).
- A note taking pad, pen, highlighter and a marker (each student should have one).
- A small sanitizer, and your own towel.

Your dress code is light loose clothing that allows for free movement such as training suits or scrubs. Males and females will be separated during practical application so make sure that you are dressed in a way that allows access to different body parts (shorts and vests).

24 Course Policies:

A- - Attendance policies:

- Students are expected to be on time.
- Repeated tardiness or leaving early will not be accepted.
- Students who miss class (or any portion of class) are responsible for the content. All classes will be recorded and uploaded on Microsoft Stream. It is the student's responsibility to review the material of classes they missed.
- Attendance will be taken every class throughout the semester.
- Absence of more than 15% of all the number of classes (which is equivalent to 2 lectures and 2 labs) requires that the student provides an official excuse to the instructor and the dean.
- If the excuse was accepted the student is required to withdraw from the module.

- If the excuse was rejected the student will fail the module and mark of zero will be assigned according to the regulations of The University of Jordan.

B- Absences from exams and submitting assignments on time:

- The instructor will not do any make-up exams.
- Exceptions for make-up exams and late submission of class assignments will be made on a case-by-case basis for true personal emergencies that are described as accepted by the regulations of UJ (e.g., documented medical, personal, or family emergency).
- It is the student's responsibility to contact the instructor within 24 hours of the original exam time to schedule a make-up exam
- Makeup for the final exam may be arranged according to the regulations of The University of Jordan.

C- Health and safety procedures:

- Make sure to have sanitization measures ready for each lab.
- Use proper body mechanics to avoid any work-related strains or stress.
- Students will not be in direct contact with patients during this course.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

- Students are expected to observe all University guidelines pertaining to academic misconduct.
- Any act of cheating or attempts to cheat during practical and theory exams will be reported to the assistant dean for student affairs and investigated accordingly.
- Students are expected to do work required for homework on their own. Asking other instructors at JU, staff, or other students to assist in or do any part of the assignment for them will negatively affect their grade on that assignment. The course instructor is the person the student needs to talk to if s/he has any difficulties pertaining to an assignment or project and is strongly encouraged to schedule an appointment with the instructor if such difficulties arise during the semester.
- Course materials prepared by the instructor, together with the content of all lectures and review sessions presented by the instructor are the property of the instructor. Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited.
- Any forms of academic misconduct will be handled according to the University of Jordan guidelines.

E- Grading policy:

- Grading for this course will be determined based upon the accumulation of points for variety of course work and exams.
- All work will be evaluated on completeness, organization, clarity of information, and the integration and application of the material.

F- Available university services that support achievement in the course:

- The University of Jordan provides many services to support social, health, and mental well-being of students in general and students with disabilities in specific. Students are advised to visit the Deanship of Students Affairs to learn more about those services.
- If you are a student with a disability for which you may request accommodations, please notify the instructor as soon as possible (email is acceptable) so the appropriate accommodations for this course can be made. Also, notify the staff of Services for Student with Disabilities (Deanship of Students Affairs) as soon as possible.



- The University of Jordan provides internet access for students who request such services. Please contact the Assistant Dean for Student Affairs for such requests.

25 References:

A- Required book (s), assigned reading and audio-visuals:

- Clarkson, 2021. Musculoskeletal assessment: Joint motion and muscle testing. Fourth Edition. Lippincott Williams and Wilkins.
- Articles and teaching materials provided by lecturer through the e-learning website.
- Practical session videos must be reviewed prior to the lab.

Recommended books, materials, and media:

- Stokes, 2010. Rehabilitation outcome measures, 1st ed. Churchill Livingstone, Elsevier
- Fawcett 2007. Principles of Assessment and Outcome Measurement for Occupational Therapists and Physiotherapists: *Theory, Skills and Application*. John Wiley and sons.
- Trombly, C. A., Radomski, M. V., Trombly, C. A., & Radomski. (2002). Occupational therapy for physical dysfunction.
- Enderby, 2013. Therapy outcome measures for rehabilitation professionals: speech and language therapy, physiotherapy, occupational therapy, 2nd edition. John Wiley and sons

26 Additional information:

- This course is a blended course with the theoretical part being taught synchronously online via Microsoft Teams and the practical part being taught onsite at the university
- It is the student's responsibility to ensure access to the e-learning system and to the Microsoft Teams tests and measures group at the beginning of the course and inform the course coordinator of any issues related to that.
- The practical part is blended with videos of the techniques available on the e-learning website. These need to be viewed by the students prior to each week's face-to-face session.
- This course builds on the knowledge that you have obtained in the **Anatomy of the extremities** course. This means that you need to ensure that you review the anatomy of muscles, joints, and nerve supply and that your knowledge is sufficient.
- If you require any further information, make sure to e-mail the instructors and arrange for a meeting during the announced office hours.

Name of Course Coordinator: Jennifer Muhaidat Signature: <i>Jennifer Muhaidat</i> Date: 2.10.2023
Head of Curriculum Committee/Department: Dr. Ibrahim Tobasi Signature: Ibrahim Tobasi-
Head of Department: Dr. Ibrahim Tobasi Signature: Ibrahim Tobasi
Head of Curriculum Committee/Faculty: ---Prof. Kamal A. Hadidi----- Signature: ---KAH-----
Dean: ---Prof. Kamal A. Hadidi----- Signature: ---KAH

Appendix 1

Practical assessment rubric

The midterm and final practical exams will be divided into two parts. You will enter the exam in groups of two. Each student will pick two questions: one ROM and one MMT question. You will be asked to assess your colleague on both parts, and you will have a total of six minutes to complete the exam. You will be assessed using the criteria below.

Criteria	Comprehensive (2)	Adequate - some missing components (1)	Inadequate - significantly missing components (0)
Professionalism (10)			
Dress code			
Communication			
Autonomous practice			
Availability of tools			
Goniometer - tape			
Time \management			
ROM (12)			
Position of patient			
Position of therapist			
Placement of goniometer or tape measure			
Stabilization			
Movement			
Explanation of results			
MMT (10)			
Position of patient			
Position of therapist			



Stabilization			
Grading			
Muscles			
Total out of 32 convert to 20			