Form: Course Syllabus		
	Form Number	EXC-01-02-02A
	Issue Number and Date	2/3/24/2022/2963 05/12/2022
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1.	**Course Title**	Tests and measures
2.	**Course Number**	1811202
3.	**Credit Hours (Theory, Practical)**	1 theory, 1 practical
	Contact Hours (Theory, Practical)	1 theory, 4 practical
4.	**Prerequisites/ Corequisites**	Anatomy 0502108
5.	**Program Title**	B.Sc. in Physiotherapy
6.	**Program Code**	1801
7.	**School/ Center**	Rehabilitation Sciences
8.	**Department**	Physiotherapy
9.	**Course Level**	Undergraduate
10.	**Year of Study and Semester (s)**	2024/2025 – First semester
11.	**Other Department(s) Involved in Teaching the Course**	NA
12.	**Main Learning Language**	English
13.	**Learning Types**	☐Face to face learning ✓Blended ☐Fully online
14.	**Online Platforms(s)**	✓Moodle ✓Microsoft Teams
15.	**Issuing Date**	2.10.2024
16.	**Revision Date**	2.10.2024

17. Course Coordinator:

Name: Jennifer Muhaidat Contact hours: Monday & Wednesday 1:30-2:30

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18. Other Instructors:

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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. Program Intended Learning Outcomes: (To be used in designing the matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program)

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 professional

21. Course Intended Learning Outcomes: (Upon completion of the course, the student will be able to achieve the following intended learning outcomes)

1. Describe the concept of measurement, assessment and evaluation
2. Explain the different models of human function with a special focus on the International Classification of Functioning and Health (ICF)

3. Discuss different attributes of measurement
4. Discuss different levels of measurement
5. Discuss the psychometric properties of measurement tools
6. Analyze clinical case scenarios using the ICF model
7. Apply musculoskeletal assessment safely and accurately
8. Adhere to physiotherapy code of conduct in musculoskeletal assessment

Course ILOs	The learning levels to be achieved					
	Remembering	Understanding	Applying	Analysing	evaluating	Creating
CL1		✓				
CL2		✓				
CL3		✓				
CL4		✓				
CL5		✓				
CL6			✓			
CL7				✓		
CL8			✓			
CL9					✓	

22. The matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program:

SLOs / SLOs of the course	SLO (1)	SLO (2)	SLO (3)	SLO (4)	SLO (5)	SLO (6)	SLO (7)	SLO (8)	SLO (9)	SLO (10)	SLO (11)
1. Describe the concept of measurement, assessment and evaluation in rehabilitation		✓									
2. Explain the different models of human function with a special focus on the International	✓										

Classification of Functioning and Health (ICF)											
3. Discuss different attributes of measurement		✓									
4. Discuss different levels of measurement		✓									
5. Discuss the psychometric properties of measurement tools		✓									
6. Analyze clinical case scenarios using the ICF model						✓					
7. Apply musculoskeletal assessment safely and accurately										✓	
8. Adhere to physiotherapy code of conduct in musculoskeletal assessment							✓				

23. Topic Outline and Schedule:

Week	Lecture	Topic	ILO/s Linked to the Topic	Learning Types (Face to Face/ Blended/ Fully Online)	Platform Used	Synchronous / Asynchronous Lecturing	Evaluation Methods	Learning Resources
1	1.1	Introduction to module	---	Online	E-learning	Asynchronous	Theoretical exam	Fawcett & Cox (2021)
	1.2	Principles and methods of measurement	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)
2	2.1	The importance of assessment and measurement in health care	CL 1	Online	E-learning	Asynchronous	Theoretical exam	Fawcett & Cox (2021)
	2.2	Shoulder ROM	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)
3	3.1	The concept of assessment, measurement, and evaluation in healthcare	CL 1	Online	E-learning	Asynchronous	Theoretical exam	Fawcett & Cox (2021)
	3.2	Shoulder MMT	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)

4	4.1	Improvement of functioning (the outcome of rehabilitation)	CL 2	Online	E-learning	Asynchronous	Theoretical exam	Fawcett & Cox (2021)
	4.2	Elbow and forearm ROM and MMT	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)
5	5.1	Introduction to the models of functioning	CL 1	Online	E-learning	Asynchronous	Theoretical exam	Fawcett & Cox (2021)
	5.2	Wrist ROM and MMT	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)
6	6.1	The ICF	CL 2, CL 6	Online	E-learning	Asynchronous	Theoretical exam	WHO ICF learning tool
	6.2	Hip ROM	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)
7	7.1	ICF application	CL 2, CL 6	Online	E-learning	Asynchronous		WHO ICF learning tool
	7.2	**Midterm practical**	**Face to face**					
8	8.1	**Midterm theory**	**Face to face**					
9	9.1	Qualitative versus quantitative attributes	CL 3	Online	E-learning	Asynchronous	Theoretical exam/ Quiz	Fawcett & Cox (2021)
	9.2	Hip MMT	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)
10	10.1	Levels of measurement	CL 4	Online	E-learning	Asynchronous	Theoretical exam/ Quiz	Fawcett & Cox (2021)
	10.2	Knee ROM & MMT	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)
11	11.1	Levels of measurement application	CL 4	Online	E-learning	Asynchronous	Theoretical exam / Quiz	Fawcett & Cox (2021)
	11.2	Ankle and foot ROM & MMT	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)
12	12.1	The concept of validity	CL 5	Online	E-learning	Asynchronous	Theoretical exam	Fawcett & Cox (2021)
	12.2	Neck ROM & MMT	CL 7,	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)

			CL 8					
13	13.1	The concept of reliability and responsiveness	CL 5	Online	E-learning	Asynchronous	Theoretical exam	Fawcett & Cox (2021)
	13.2	Trunk ROM & MMT	CL 7, CL 8	Face to face	MS teams	Synchronous	Practical exam	Clarkson (2021)
14	14.1	**Final practical**		**Face to face**				

24. Evaluation Methods:

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

Evaluation Activity	Mark	Topic(s)	ILO/s Linked to the Evaluation activity	Period (Week)	Platform
Midterm theory exam	30%	Week 1-7	CL1, CL2, CL6	Week 8	Face to face
Midterm practical exam	20%	Week 1-6	CL7, CL8	Week 7	Face to face
Quiz	10%	Week 9-11	CL3, CL4	Week 12	Face to face
Final theory	20%	Week 1-13	CL1-CL6	To be announced by the registrar	Face to face
Final practical exam	20%	Week 1-13	CL7, CL8	Week 14	Face to face

25. 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).

26. 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. Online classes will be recorded and uploaded on Microsoft Teams. It is the student's responsibility to review the material of classes they missed.
- Attendance will be taken on every class throughout the semester.
- Absence of more than 15% of all the number of classes (which is equivalent to 2 lectures and 2 practical sessions) 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 course.
- If the excuse was rejected, the student will not be allowed to sit for the final exam 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 in the regulations of the University of Jordan (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.
- Late submission of assignments will result in deduction of 2 points for each day of delay.
- 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, and misbehavior:

- Students are expected to observe all University guidelines pertaining to academic misconduct.
- Any work submitted by a student for academic credit must be the student's own work. Submission of work taken directly from another source (e.g., book, journal, internet, or another student work) will be considered plagiarism and the student/group will get a zero grade on that homework. In addition, if copying occurred, both the student who copied the work and the student who gave material to be copied (if applicable) will receive a zero for the assignment.
- All submitted work will be checked for the use of Artificial Intelligence resources. Usage of such resources should not exceed the percentage set in the homework guidelines.
- Students are expected to do work required for homework on their own. Asking other instructors at the University, staff, or other students to assist in or do any part of the assignment will negatively affect their grade on that assignment. The course instructor is the person the student needs to talk to if she/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 assignments 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.

27. References:

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

- Fawcett and Cox, 2021. Principles of assessment and outcome measurement for allied health professionals: practice, research and development. Wiley Blackwell
- Clarkson, 2021. Musculoskeletal assessment: Joint range of motion, muscle testing and function. A research-based practical guide. 4th Edition. Wolters Kluwer.

- Articles posted by the course coordinator.
- https://www.icf-elearning.com/
- Practical videos

B- Recommended books, materials, and media:

- Stokes, 2010. Rehabilitation outcome measures, 1st ed. Churchill Livingstone, Elsevier
- 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

28. Additional information:

- This course is a blended course with the theoretical part being taught asynchronously online via Microsoft Teams and the practical part being taught face to face 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 face to face 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 the Instructor or the Course Coordinator: Jennifer Muhaidat	Signature: JM	Date: 2.10.2024
Name of the Head of Quality Assurance Committee/ Department … Mayis Aldughmi …….	Signature: …MD…..……	Date: 24/10/2024
Name of the Head of Department … Mayis Aldughmi …….	Signature: …MD…..……	Date: 24/10/2024
Name of the Head of Quality Assurance Committee/ School or Center …… Prof. Kamal Hadidi	Signature: KAH ……..	Date: 24/10/2024
Dean: Prof. Kamal Hadidi	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			