Module (Course Syllabus) Catalogue

2023-2024

College/ Institute	**Bachelor's degree**	
Department	**Physiotherapy**	
Module Name	**EVALUATION METHODS AND OUTCOME MEASURES**	
Module Code	EVM404	
Semester	**3rd semester**	
Credits	**8**	
Module type	**Prerequisite** ☐ **Core** ■ **Assist.** ☐	
Weekly hours		
Weekly hours (Theory)	**(2)hr Class**	**(3)hr Workload**
Weekly hours (Practical)	**(4)hr Class**	**(6)hr Workload**
Lecturer (Theory)	**Dr. Mahdi Khaled Qadir**	
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Lecturer (Practical)	**laweenjabbar@epu.edu.iq**	
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Course Book

Course Description	This course provides student with the basic elements of assessment that apply to all body regions. Students will learn the basics of examination and evaluation, critical thinking, and decision making regarding selection of appropriate tests and measures.
Course objectives	At the end of this course the student will be able to build up knowledge necessary to perform integrated and effective physical therapy examination for musculoskeletal system and initiate and perform a thorough physical therapy evaluation for patients suffering from disorders affecting musculoskeletal system. Implement methods to assess individual and collective outcomes of patients/clients with disorders of the musculoskeletal, neuromuscular, cardiovascular-pulmonary .
Student's obligation	Students should prepare their materials. • Lab coat required during lab. • Preparation of seminar, poster, report.
Required Learning Materials	Illustrated lecture. Problem solving Assignments. Group discussion Computer and data show Turnitin software for plagiarism check Anatomical models
Assessment scheme	25% Mid Term (Theory and practical) 8% Quiz 2%class activity 10% Assignment (report, paper, seminar..) 10% Lab activity and Report 5% homework 20% final practical 20% final theory
Specific learning outcome:	**1-** Recall the normal and pathological anatomy of the musculoskeletal system. **2-** Recognize information about the basic principles of correct recording and documentation of patient initial evaluation, SOAP notes, and discharge summary.

	3- Recognize guidelines for application of different measurements and examination procedures of the region to be examined including history taking, physical examination, manual muscle test, joint play, and ROM. **4-** Discuss information related to peripheral nerve integrity of the region to be examined including reflex and sensation testing. **5-** Identify various aspects and guidelines for sensation testing and pain assessment of the region to be examined. **6-** Discuss information related to cranial and peripheral nerve integrity of the region to be examined including reflex testing. **7-** Explain information regarding assessment of fine movement, coordination, and higher function.
Course References:	Handout. **Essential Books (Text Books)** **O'Sullivan, Susan B.** Physical Rehabilitation / Susan B. O'Sullivan, Thomas J. Schmitz, George D. Fulk. - 6th ed. - Philadelphia : F. A. Davis Company, 2014.. **Magee, David J.** Orthopedic Physical Assessment / David J. Magee. - 5th ed. - St. Louis : Saunders Elsevier, 2008. **Quinn, Lori**. Documentation for Rehabilitation : A Guide to Clinical Decision Making / Lori Quinn, James Gordon. - 2nd ed. - Missouri : Saunders Elsevier, 2010.

Course topics (Theory)	**Week**	**Learning Outcome**
Week Number 1: Introduction for patient assessment. Principles of history taking and physical therapy assessment. Principles in recording assessment findings. Principles in assessing ROM, muscle performance, pain, function, and special tests.		
Week Number 2: Review anatomy and pathophysiology of shoulder complex. Shoulder examination. - Inspection guidelines from different views. - Guidelines of Bony and soft tissue palpation. - Guidelines of ROM measurement. Week Number 3: Shoulder examination. - Manual muscle test. - Special tests.		
Week Number 4: Review anatomy and pathophysiology of elbow complex. Elbow examination. - Inspection guidelines from different views. - Guidelines of Bony and soft tissue palpation. - Guidelines of ROM measurement.		

□ Manual muscle test. □ Special tests. □ Special tests.		
Week Number 5: Review anatomy and pathophysiology of wrist and Hand. Wrist and Hand examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. □ Manual muscle test.		
Week Number 6: Review anatomy and pathophysiology of Cervical spine and TMJ. Cervical spine and TMJ examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement.		
Week Number 7: Written exam. Review anatomy and pathophysiology of Cervical spine and TMJ. Cervical spine and TMJ examination. □ Manual muscle test. □ Special tests		
Week Number 8: Review anatomy and pathophysiology of Hip region. Hip examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. □ Manual muscle test. □ Special tests.		
Week Number 9: Review anatomy and pathophysiology of Knee region. Knee examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. □ Manual muscle test. □ Special tests.		
Week Number 10: Problem Solving of Simulated Case Review anatomy and pathophysiology of Ankle and Foot. Ankle and Foot examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation □ Guidelines of ROM measurement □ Manual muscle test		

□ Special tests.		
Week Number 11: Review anatomy and pathophysiology of Lumbar Spine and SI Joint. Lumbar Spine and SI Joint examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. □ Manual muscle test. □ Special tests.		
Week Number 12: Sensory and Pain examination. Deep tendon reflex testing (peripheral integrity).		
Practical Topics	**Week**	**Learning Outcome**
Week Number 1: Introduction for patient assessment. Principles of history taking and physical therapy assessment. Principles in recording assessment findings. Principles in assessing ROM, muscle performance, pain, function, and special tests.		
Week Number 2: Shoulder examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. Week Number 3: Shoulder examination. □ Manual muscle test. □ Special tests.		
Week Number 4: Elbow examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. □ Manual muscle test. □ Special tests. □ Special tests.		
Week Number 5: Wrist and Hand examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. □ Manual muscle test.		
Week Number 6: Cervical spine and TMJ examination.		

□ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement.		
Week Number 7: Cervical spine and TMJ examination. □ Manual muscle test. □ Special tests		
Week Number 8: Hip examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. □ Manual muscle test. □ Special tests.		
Week Number 9: Knee examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. □ Manual muscle test. □ Special tests.		
Week Number 10: Ankle and Foot examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation □ Guidelines of ROM measurement □ Manual muscle test □ Special tests.		
Week Number 11: Lumbar Spine and SI Joint examination. □ Inspection guidelines from different views. □ Guidelines of Bony and soft tissue palpation. □ Guidelines of ROM measurement. □ Manual muscle test. □ Special tests.		
Week Number 12: Sensory and Pain examination. Deep tendon reflex testing (peripheral integrity).		
Week Number 1: Introduction for patient assessment. Principles of history taking and physical therapy assessment. Principles in recording assessment findings. Principles in assessing ROM, muscle performance, pain, function, and special tests.		

Questions Example Design

Q1: Encircle one answer (SCQ):

1. **Assessment is a key ……. required of all physiotherapist:**
   a. Review skill
   b. Clinical skill
   c. Communicational skill
   d. Treatment skill
2. **All the following are regarded as red flags of back pain except:**
   a. Recent physical trauma
   b. Unable to weight bear
   c. Age greater than 50 years
   d. Pain related to movement or position
   e. Saddle anesthesia

Q2: Case scenario: **carefully read the case scenario then answer the question**

Question: use ICF classification for assessment plan for this patient.

Q3: Matching : (30 marks)

A	Answer		B	
A	Bony block to movement			history and background.
B	Empty feel to movement			observation.
C	VAS			individual structures (range of movement, strength).
D	Springy block to movement			an accurate account of findings.
E	*Listen* –			what the person complains
F	*Look* –			what can be measured or tested
G	*Test* –			the patient's symptoms appear without any obvious cause.
H	Symptoms			How long has the patient experienced the symptoms?
I	Signs			comprises hyperextension of the hips, an anterior pelvic tilt and anterior displacement of the pelvis.
J	*Record* –			in the posterior aspect of the trunk and, particularly, adjacent to the spine may indicate areas of hypermobility or instability of that motion segment.
K	Insidious onset			consists of a posterior pelvic tilt and a flattening of the lumbar lordosis, extension of the hip joints, flexion of the upper thoracic spine and straightening of the lower thoracic spine.
L	Chronicity			arthritic joint
M	Sway back			Infection, active inflammation or a tumour
N	Creases			Pain scale
O	Flat back			a torn meniscus blocking knee

Extra notes:
External Evaluator