



مركز الاعتماد  
وإضمان الجودة  
ACCREDITATION & QUALITY ASSURANCE CENTER



**The University of Jordan**

**Accreditation & Quality Assurance Center**

**Curriculum for Master Degree**

**Program Name: MSc in Physiotherapy/  
Neuromusculoskeletal  
Comprehensive Track**

1.	School of	Rehabilitation Sciences
2.	Department	Physiotherapy
3.	Program title (Arabic)	ماجستير في العلاج الطبيعي/ الجهاز العصبي و العضلي الهيكلي
4.	Program title (English)	MSc in Physiotherapy/ Neuromusculoskeletal
5.	Track	<b>Comprehensive</b>

	Serial #	Degree	Dep #	Faculty #	Year	Track
Plan Number		8	01	018	2017	C

### First: General Rules & Conditions:

1. This plan conforms to the valid regulations of the programs of graduate studies.
2. Specialties of Admission:
  - I. The First Priority: Bachelor of Science in Physiotherapy.

### Second: Special Conditions: not applicable

### Third: Study Plan: Studying (33) credit hours as follows:

1. Obligatory Courses: (24) credit hours:

Course No.	Course Title	Credit Hrs	Theory	Practical.	Pre/Co-requisite
1801701	Evidence-Based Practice	3	3	-----	
1801702	Current Topics in Neuromusculoskeletal Physiotherapy	3	3	-----	
1801703	Scientific Research Methods	3	3	-----	
1801704	Measuring and Analyzing Health Outcomes	3	3	-----	
1801705	Scientific Writing and Inquiry	3	3	-----	
1801708	Clinical Reasoning in Physiotherapy	3	2	1	

1801709	Advanced Neuromuscular Physiotherapy Practice	3	2	1	
1801710	Advanced Musculoskeletal Physiotherapy Practice	3	2	1	

2. Elective Courses: Studying (9) credit hours from the following:

<b>Course No.</b>	<b>Course Title</b>	<b>Credit Hrs</b>	<b>Theory</b>	<b>Practical.</b>	<b>Pre/Co-requisite</b>
1801706	Neuroscience and Motor Control in Physiotherapy	3	3	-----	
1801707	Exercise Prescription in Chronic Conditions	3	3	-----	
1801711	Management Of Chronic Pain	3	3	-----	
1801712	Applied Biostatistics	3	3	-----	

3. Comprehensive Exam: (0) credit hours. 1801798

4. Arabic Language exam 2501700

### Study Plan

- First Semester

Course No.	Course Name	Credit hours	Pre requisite
1801701	Evidence-Based Practice	3	-
1801702	Current Topics in Neuromusculoskeletal physiotherapy	3	-
1801703	Scientific Research Methods	3	-

- Second Semester

Course No.	Course Name	Credit hours	Pre requisite
1801704	Measuring and Analyzing Health Outcomes	3	
1801710	Advanced Musculoskeletal Physiotherapy Practice	3	-
	Elective 1	3	-

- Third Semester

Course No.	Course Name	Credit hours	Pre requisite
1801708	Clinical Reasoning in physiotherapy	3	-
1801705	Scientific Writing and Inquiry	3	-
	Elective 2	3	-

- Fourth Semester

Course No.	Course Name	Credit hours	Pre requisite
1801709	Advanced Neuromuscular Physiotherapy Practice	3	-
	Elective 3	3	-

### **Courses Descriptions:**

**1801701 Evidence-Based Practice (3 credits):** this course develops in-depth knowledge and skills required to explore evidence-based practice in physiotherapy. Emphasis is placed on the critical appraisal of research evidence and current practice and utilization of best available evidence and good-quality scientific studies in clinical decisions making. Students are expected to critically evaluate current literature and reflect upon their own practice. This course also gives the opportunity to critique literature related to neuro-musculoskeletal physiotherapy practice. Applications will fall within the Physiotherapy Profession Patient/Client Management Model

**1801702 Current Topics in Neuromusculoskeletal Physiotherapy (3 credits):** This course provides an overview of current research and its priorities in Jordan related to neurological and musculoskeletal conditions. A particular emphasis is placed on the ongoing research within the Faculty of Rehabilitation Sciences (UoJ) and other similar schools in Jordan. The course will also relate physiotherapy research in Jordan to the regional and international research trends in rehabilitation. Seminars and lectures will be given by staff members, invited speakers, and enrolled senior students. The course facilitates student learning through seminars, discussion, and coursework.

**1801703 Scientific Research Methods (3 credits):** this course will advance student's knowledge of design and research methods commonly used to inform physiotherapy practice. A focus of the course is on research training in different research methods used to explore aspects of interdisciplinary rehabilitation. Nature of scientific inquiry, hierarchy of evidence, and different research design and application of statistical techniques are also addressed. Students will have the opportunities to critically appraise qualitative and quantitative research methods and designs in Neuromusculoskeletal physiotherapy.

**1801704 Measuring and Analyzing Health Outcomes (3 credits):** this course provides theoretical and practical basis for measurement in rehabilitation research and practice. Specifically, the design of the course will provide students with the basic knowledge of health outcomes measure and practical skills in selecting appropriate measures for their own research. Psychometric characteristics of standardized tests of body functions, activities, and participation will be introduced. In addition, the course addresses measurement theory, scale development and related statistics, approaches and instruments used to evaluate outcomes in research and practice

**1801705 Scientific Writing and Inquiry (3 credits):** this course provides theoretical tools and practical skills for scientific writing in medical sciences. Students will learn how to organize, document, and practice presenting their data for different audiences. They will also recognize the ethics of medical writing, and decipher publishing procedures for different journals

**1801706 Neuroscience and Motor Control in Physiotherapy (3 credits):** This course enables students to deepen their understanding of the application of the anatomical, biomechanical,

physiological and pathophysiological bases underpinning either musculoskeletal or neuromuscular rehabilitation. The course will start by providing an overview of basic anatomy of motor system, current understanding of how movement is controlled by the brain and how motor skills are learned and relearned. The course will introduce different models of motor control and how they inform physical rehabilitation practice. Particular emphasis is placed on the mechanisms involved in the functional recovery after nervous system injuries and disease in relation to rehabilitation practice.

**1801707 Exercise Prescription in Chronic Conditions (3 credits):** This course aims to introduce students to the knowledge-based, clinical and practical skills necessary for the prescription and application of exercise as a preventive and therapeutic medium. A particular emphasis will be placed on planned and strategic management of the chronic patient group in an exercise prescription setting; the course will look at a number of relevant chronic medical conditions, assess the influence of the condition on the exercising individual, provide research evidence to verify what is being discussed, and lay out a practical approach to exercising with specific chronic conditions.

**1801708 Clinical reasoning in Physiotherapy (3 credits):** This course aims to provide students with theoretical and practice-based knowledge on the nature of clinical reasoning and the process of clinical decision making in physiotherapy practice. A focus of the course will be on the place of interests and motivations in shaping the behavior and decisions of therapists and patients in relation to collaborative decision making, patient-centered care, multidisciplinary decision making, shared decisions making, language, communication, and decision aids that involve clients. Students will be required to apply clinical reasoning skills to a range of conditions using case studies to inform clinical decision-making. They will select and evaluate an actual patient to practice clinical reasoning on and provide justification on their decisions and how that reflected on practice

**1801709 Advanced Neuromuscular Physiotherapy Practice (3 credits):** This course is developed to help students develop their advanced knowledge of the underlying pathophysiology of common neurological conditions across life span; and use that knowledge to inform their advanced clinical practice. The course will provide students with an in depth understanding of the advanced science underpinning impaired motor control, and its clinical context, focusing on the study and treatment of movement disorders

**1801710 Advanced Musculoskeletal Physiotherapy Practice (3 credits):** this course critically evaluates the assessment and management of the complexity of musculoskeletal dysfunction of the body to enable evidence-based management this is achieved through a focus on the development of clinical reasoning and clinical expertise. Each region of the body is considered critically by integrating all approaches to manipulative physiotherapy.

**1801711 Management of Chronic Pain (3 credits):** This course will introduce students to the evolving concept and complex nature of pain, in particular chronic pain. The course will start by reviewing and outlining the current concepts and theories regarding mechanisms involved in the experience of pain. Then, the course will provide students with the essential skills required to evaluate and manage chronic pain. Emphasis is placed on critical analysis of theoretical frameworks and paradigms underlying current pain management practice, the implications for future developments in pain research, and management of the pain-related issues embedded in patient care for common conditions such as paraplegia, Parkinson disease, low back pain, and osteoarthritis.

**1801712 Applied Biostatistics (3 credits):** this course provides students with the essential theoretical and practical skills required to understand and employ common statistical procedures utilized in health research. It will expose students to advanced statistical approaches in the health sciences including univariate and multivariate statistical procedures. Students will have the opportunity to practice the usage of statistical packages and software(s) in advanced analysis and modeling