



## Introduction

Physical therapy has an established theoretical and scientific base and widespread clinical applications in the restoration, maintenance, and promotion of optimal physical function. As essential participants in the health care delivery system, rehabilitation specialist assume leadership roles in prevention, health maintenance, and programs that promote health, wellness, and fitness; and in professional and community organizations. Physical therapy specialist also plays important roles both in developing standards for practice and in developing health care policy to ensure availability, accessibility, and optimal delivery of health care services. Physical Therapy specialist services have a positive impact on health-related quality of life.

The Master of Science (MSc.) in Physical therapy (MSc. PT) program is designed for graduate students interested in careers in academic and non-academic health and related interdisciplinary fields. The MSc. PT can serve as a stepping stone on the pathway to advanced research training for students planning to pursue a PhD in Rehabilitation Science or related fields.

This program allows students to apply for registration as a physical therapist specialist with the Saudi Health Specialty Council. It is ideal for graduates with related first degrees who

wish to gain both a professional and academic qualification and start a career in this challenging and highly rewarding field. This course is taught with the innovative problem-based learning approach, with an emphasis on practical application of skills and knowledge. Through this balance of theory and practice experience the student will graduate a capable and confident physical therapy or Rehabilitation Specialist.

The values of the Majmaah University constitution are embedded in our curriculum; where patients come first in everything, and include respect and dignity, compassion and working together for patients. Our high-quality teaching and research will have an applied focus. We have established strong links with specialist practice educators to ensure the provision of support and guidance both within the university and in practice.

This program is of two years' duration, during which the students time on the course will be balanced between campus-based study and clinical practice. The course is delivered in a variety of ways, typically via problem-based tutorials, subject specialist resource sessions, skills workshops. Completion of the Project Studies module and the submission of a thesis lead to the Master of Rehabilitation Science award.

## Program overview

Program title	Master of Science in Physical therapy
Title abbreviation	MSc. PT
Program type	Master's degree by coursework and thesis
Status	Proposed to open 1 <sup>st</sup> semester 1439-140H
Administered by	College of Applied Medical Sciences

## PROGRAM DETAILS

Intake Periods	Beginning of year
Attendance Type	Full-time
Credit Hours Required	39

Standard Program Duration	2 years full-time
Time Limit	4 years
Delivery Mode	Internal
Locations	Majmaah University
Program Coordinator (S)	Dr. Ahmad Alanazi
Contact Details for Program Information	Department of Physical therapy and Health Rehabilitation, College of Applied Medical Sciences

## Careers:

Master of Science (MSc.) in Physical Therapy degree ensures graduates are well knowledge and gained the most recent skills in the field of Physical therapy and health rehabilitation. Therefore, they will be able to gain employment in all relevant fields including the following:

- Hospitals and healthcare organizations
- Hospital and medical centers planning organization/industry
- Medical device industry
- Universities
- Consultancy
- Teaching and training
- Research and development
- Pursue PhDs in Physical Therapy & Rehabilitation fields.

Master of Science in Physical Therapy-Program Plan

The Master of Physical therapy program will have four (4) major tracks in the following specialty.

- a. **SPORTS PHYSICAL THERAPY**
- b. **NEUROLOGICAL PHYSICAL THERAPY**
- c. **PEDIATRIC PHYSICAL THERAPY**

#### **d. WOMEN'S HEALTH**

The total credit for each major track will be thirty-nine (39) credits. Each major track will have thirteen (13) course followed by a master's thesis in their respective specialization. The courses will be divided into three categories; general courses (21 Credits), specialization courses (12 Credits) and thesis (6 Credits). List of the courses are given below;

### **General Courses**

---

1. Medical Screening and Differential Diagnosis
2. Professional Issues in Physical therapy
3. Research for Physical therapist
4. Advanced Statistical Procedures
5. Advanced Biomechanics
6. Evidence-Based Practice
7. Research Proposal
8. Advanced Clinical Practice 1
9. Advanced Clinical Practice 2

### **Specialization Courses**

---

#### **a. Sports Physical Therapy**

1. Science of Performance & Injury in Sports
2. Assessment & Treatment of Sports Injury
3. Sports & Exercise Participation
4. Sports & Nutrition

### **Neurological Physical Therapy**

---

5. Motor control in Health & Disease
6. Clinical Neurosciences for Rehabilitation
7. Neurological Rehabilitation
8. Falls and Balance Dysfunction

## Pediatric Physical Therapy

---

9. Pediatric Musculoskeletal PT
10. Pediatric Cardiorespiratory PT
11. Pediatric Neurological Physical therapy
12. Disability & Development

## Women's Health

---

13. Women Through Life Stages
14. Assessment & Treatment in Women's Health
15. Pelvic Floor Musculoskeletal Rehabilitation
16. Maternal and Child Health

## Thesis

---

Semester wise details of the courses are provided in table 1 & 2, and course descriptions are provided in separate table for all the courses.

**Table 2: Master of Science in Physical Therapy-Detailed Program Plan**

ماجستير العلوم في العلاج الطبيعي - خطة برنامج مفصل

First Year_Semester-I (Level-1)							
Course Code	Course Title	Distribution of Credit Hours				Prerequisite	Co-Requirement
		T	P	Tr	CrH		
PHT610	Medical Screening and Differential Diagnosis	1	1	0	2		
PHT611	Professional Issues in Physical therapy	2	0	0	2		
PHT612	Research for Physical therapist	2	0	0	2		PHT611
PHT613	Advanced Statistical Procedures	1	1	0	2		PHT612
PHT614	Advanced Biomechanics	2	1	0	3		PHT610
<b>Sum</b>		<b>8</b>	<b>3</b>	<b>0</b>	<b>11</b>		
First Year_Semester-II (Level-2)							
Course Code	Course Title	Distribution of Credit Hours				Prerequisite	Co-Requirement
		T	P	Tr	CrH		
<b>Specialty Major Course 1</b>							
PHT620	Science of Performance & Injury in Sports					PHT610	
PHT621	Motor Control in Health & Disease	2	1	0	3	PHT610	
PHT622	Pediatric Musculoskeletal Physical therapy					PHT610	
PHT623	Women Through Life Stages					PHT610	
<b>Specialty Major Course 2</b>							
PHT624	Assessment & Treatment of Sports Injury					PHT610	PHT620
PHT625	Clinical Neurosciences for Rehabilitation	2	1	0	3	PHT610	PHT621
PHT626	Pediatric Cardiorespiratory Physical therapy					PHT610	PHT622
PHT627	Assessment & Treatment in Women's Health					PHT610	PHT623
PHT628	Evidence-Based Practice	2	0	0	2	PHT612	
PHT629	Advanced Clinical Practice 1	0	0	3	3	PHT611	
<b>Sum</b>		<b>6</b>	<b>2</b>	<b>3</b>	<b>11</b>		
Second Year_Semester-I (Level-3)							
Course Code	Course Title	Distribution of Credit Hours				Prerequisite	Co-Requirement
		T	P	Tr	CrH		
<b>Specialty Major Course 3</b>							
PHT630	Sports & Exercise Participation					PHT624	
PHT631	Neurological Rehabilitation	2	1	0	3	PHT625	
PHT632	Paediatric Neurological Physical therapy					PHT626	
PHT633	Pelvic Floor Musculoskeletal Rehabilitation					PHT627	
<b>Specialty Major Course 4</b>							
PHT634	Sports & Nutrition					PHT624	PHT630
PHT635	Falls and Balance Dysfunction	2	1	0	3	PHT625	PHT631
PHT636	Disability & Development					PHT626	PHT632
PHT637	Maternal and Child Health					PHT627	PHT633
PHT638	Research Proposal	2	0	0	2	PHT628	
PHT639	Advanced Clinical Practice 2	0	0	3	3	PHT629	
<b>Sum</b>		<b>6</b>	<b>2</b>	<b>3</b>	<b>11</b>		
Second Year_Semester-II (Level-4)							
Course Code	Course Title	Distribution of Credit Hours				Prerequisite	Co-Requirement
		T	P	Tr	CrH		
PHT240	Thesis	6	0	0	6	PHT638	
<b>Sum</b>		<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>		

Keys: T- Theory, P-Practical/Lab, Tr-Training/Clinical & CrH-Credit Hours

## Teaching and Assessment

---

### Teaching

- Lectures
- Presentations, seminars and workshops
- Demonstrations
- Guided laboratory sessions
- Individual and group exercises
- Research project

### Assessment

- Coursework
- Oral presentations and posters
- Written examinations and quizzes
- Written assignments, reports and thesis

## Entry Requirements

---

The initial enrolment for the Master of Science in Physical therapy (MSc. Physical Therapy) program is done once a year at the beginning of each academic year. The students apply through the deanship of student's admission and registration website. Based on their eligibility and availability of seats, the students are then assigned to respective departments. Eight (8) students in each major track will be accepted in MSc. Physical Therapy program every year. Same numbers will be admitted at male and female section.

## General Requirements for Admission

---

The following are admission requirements stipulated for the admission for the Master of Science in Physical therapy:

- The program is available to male and female students.
- Candidates must be a Saudi or an official grant for higher education if he is a non-Saudi\*.

- Candidates must have bachelor's degrees from Saudi Arabian universities or equivalent bachelor's degree from a wide variety of international universities. International qualifications for Saudi citizens must be certified and equivalent from Saudi ministry of education and must be attested for non-Saudi citizens from Saudi embassies / cultural missions. \*
- Provide at least two recommendation letters for admissions who have already taught. \*
- Employer's consent to study if he / she is employed. \*
- Full time study of the master's program. \*
- Have good morals and conduct and be medically fit. \*
- Candidates must be submitted within the specified times of the Deanship and no applications shall be accepted after the specified date, whatever the reasons. \*
- Candidates are required to attach the general abilities test to the university graduates, provided that the degree is not less than 70 degrees. \*

\* The unified regulations for postgraduate studies in Saudi universities and their executive regulations at the Majmaah University (Article 13).

## Academic requirements

- Accept the students who have received very good during bachelor's degree, and the Deanship of Graduate Studies may, on the recommendation of the department council and the approval of the college council, accept the students who have received a good assessment. In some programs determined by the University Council, provided that the student's average in all cases for specialization courses during the bachelor's degree not less than very good \*.
- Obtaining the professional classifications from the Saudi Commission for Health Specialists, Classified as a specialist.
- Passing the interview\ written test done by the department.
- The unified regulations for postgraduate studies in Saudi universities and their executive regulations at the Majmaah University (Article 15).



## English language requirements

---

- English language proficiency is required for candidates who have not graduated from countries that use English as a first language. All candidates must provide IELTS with a minimum score 4.5, or equivalent score for TOEFL test (IBT, CBT, or PBT) and Standardized Test for English Proficiency (STEP). All the English tests will not be accepted after two years of the obtaining date.

## DEPARTMENT FACILITIES

# Electrotherapy lab



### Objectives of the Lab

1. Learn to use the equipment in a standard operating procedure.
2. Conduct thorough assessment.
3. Assess risk and harm and identify red flags.
4. Operate the machine effectively and efficiently.
5. Design treatment protocol suitable for the patient.
6. Create a research proposal based on the facilities available.

# Therapeutics and Measurements Lab



## Objectives of the Lab

1. Assess risk and benefit of exercises.
2. Use equipment to design an exercise.
3. Use appropriate tool to design a progressive resisted exercise.
4. Select appropriate equipment to target a specific muscle group.
5. Create a research proposal based on the facilities available.

# Pediatrics Lab



## Objectives of the Lab

1. Use equipment in the lab to assess and treat pediatric patient.
2. Plan a treatment as per the age of child
3. Use playful but meaningful activities in the rehabilitation program
4. Apply sensory integration and constrain induced movement therapy.
5. Create a research proposal based on the facilities available.

# Cardio respiratory Lab



## Objectives of the Lab

1. Learn to use equipment to deliver an effective cardiopulmonary rehabilitation.
2. Learn to operate ventilator machine
3. Teach breathing exercises to patient with exercise
4. Assess the improvement in ventilation capacity
5. Critically analyse a cardiovascular problem to identify possible treatment options.
6. Create a research proposal based on the facilities available.

# Biomechanics Lab



## Objectives of the Lab

1. Learn to use gait analysis lab for research purposes
2. Learn to measure kinetic and kinematic joint movements
3. Learn to document and calibrate gait lab equipment's
4. Learn to detect artifacts during measurements.

