

Msc 2nd Part

Physical Medicine and Rehabilitation

✓ **Course Aims:**

The broad aims of the course are:

- 1- To supply fellows with the basic and advanced knowledge of physical and rehabilitation medicine
- 2- To provide a useful, and productive training experience for our candidates through a three year commitment to the study of basis and principles as well as up to-date science of physical medicine and rehabilitation.
- 3- To provide fellows with the skills required to perform as well-trained independent specialist for patients needing medical rehabilitation or physical therapy.
- 4- Prepare the fellow to be an active member of a health care team and be responsible for longitudinal patient management with primary decision-making.

✓ **Course content: 105 Lectures**

Module	Subjects	Teaching hours
(1) 2 credit hours (30 teaching hours)	Clinical evaluation.	2hrs
	Vocational evaluation and rehabilitation.	2hrs
	Psychological aspects of rehabilitation.	2hrs
	Functional outcome assessment, self care evaluation and management.	2hrs
	Electrodiagnosis	2hrs

	Electrophysiological studies of muscles in normal and pathological	8 hrs
	Nerve conduction studies.	10 hrs
	Neuromuscular junction studies.	2hrs
(2) 2 credit hours (30 teaching hours)	Heat therapy	2hrs
	Cold therapy	2hrs
	Hydrotherapy	2hrs
	Laser	2hrs
	Electromagnetic therapy	2hrs
	Electro-stimulation	2hrs
	Traction	2hrs
	Manipulations	2hrs
	Therapeutic exercise	2hrs
	Massage	2hrs
	Adaptive systems and devices for the disabled	2hrs
	Upper limb orthosis & prosthesis	2hrs
	Lower limb orthosis & prosthesis.	2hrs
	Spinal orthosis	2hrs
	Transfers and wheelchairs Walking aids.	2hrs
	Rehabilitation of arthritis	2hrs

(3) 3 credit hours
(45 teaching hours)

Rehabilitation of pain	2hrs
Rehabilitation of stroke	3hrs
Rehabilitation of spinal cord injuries	3hrs
Rehabilitation of multiple sclerosis	2hrs
Neurogenic bladder and bowel.	2hrs
Rehabilitation of Spasticity.	3hrs
Rehabilitation of orthopedic and traumatic conditions.	2hrs
Rehabilitation of sport injuries.	2hrs
Rehabilitation of scoliosis.	2hrs
Rehabilitation of amputee.	2hrs
Rehabilitation after joint replacement therapy	2hrs
Gait training.	3hrs
Rehabilitation of osteoporosis.	2hrs
Rehabilitation of cardiac patients	2hrs
Pulmonary Rehabilitation	2hrs
Rehabilitation of vascular diseases and diabetic foot.	3hrs
Immobilization syndrome	2hrs
Rehabilitation of burn.	2hrs

Rehabilitation of gynecological & obstetric disorders.	2hrs
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✓ **Clinical training for MSc students: 195 hours for 6 months**

Topic	Teaching hours
Practice clinical evaluation of patients in rehabilitation setting	3 hrs
Perform functional outcome and ADLs assessment	2 hrs
Electrophysiological studies of muscles in normal and pathological	24 hrs
Nerve conduction studies.	30 hrs
Neuromuscular junction studies.	6 hrs
Apply and evaluate treatment with Heat therapy	6 hrs
Apply and evaluate treatment with Cold therapy	2 hrs
Apply and evaluate treatment with Hydrotherapy	4hrs
Apply and evaluate treatment with Laser	4hrs
Apply and evaluate treatment with Electromagnetic therapy	2hrs
Apply and evaluate treatment with Electro-stimulation	6hrs
Apply and evaluate treatment with Traction	4hrs
Perform and evaluate treatment by Manipulations	4hrs
Apply and evaluate treatment with Therapeutic exercise	4hrs

Apply and evaluate treatment with Massage	4hrs
Apply, adapt to the patient and evaluate Upper limb orthosis & prosthesis	8 hrs
Apply, adapt to the patient and evaluate Lower limb orthosis & prosthesis.	8 hrs
Apply, adapt to the patient and evaluate Spinal orthosis	8 hrs
Construct, apply and evaluate Rehabilitation of arthritis	4hrs
Construct, apply and evaluate Rehabilitation of pain	4hrs
Construct, apply and evaluate Rehabilitation of stroke	4hrs
Construct, apply and evaluate Rehabilitation of spinal cord injuries	4hrs
Construct, apply and evaluate Rehabilitation of multiple sclerosis	2 hrs
Construct, apply and evaluate Neurogenic bladder and bowel.	4hrs
Construct, apply and evaluate Rehabilitation of Spasticity.	4hrs
Construct, apply and evaluate Rehabilitation of orthopedic and traumatic conditions.	4hrs
Construct, apply and evaluate Rehabilitation of sport injuries.	4hrs
Construct, apply and evaluate Rehabilitation of scoliosis.	4hrs
Construct, apply and evaluate Rehabilitation of amputee.	4hrs
Construct, apply and evaluate Rehabilitation after joint replacement therapy	4hrs

Practice and evaluate Gait training.	4hrs
Construct, apply and evaluate Rehabilitation of osteoporosis.	4hrs
Construct, apply and evaluate Rehabilitation of cardiac patients	4hrs
Construct, apply and evaluate Pulmonary Rehabilitation	4hrs
Construct, apply and evaluate Rehabilitation of vascular diseases and diabetic foot.	4hrs