

**PACIFIC MEDICAL UNIVERSITY**  
**PhD Syllabus for Entrance Examination**  
**(PHYSIOTHERAPY)**

**PRINCIPLES OF PHYSIOTHERAPY**

1. DEVELOPMENT OF PHYSIOTHERAPY
2. ETHICAL ISSUES IN PRACTICE OF PHYSIOTHERAPY
3. HISTORY TAKING, ASSESSMENT, TEST AND DOCUMENTATION
4. SCALES AND TEST

**BASICS OF ANATOMY PHYSIOLOGY, EXERCISE THERAPY AND ELECTROTHERAPY**

1. MUSCULO-SKELETAL, CARDIOVASCULAR AND NEURO ANATOMY
2. BASICS PHYSICS AND TECHNIQUES OF EXERCISE THERAPY
3. YOGA AND MASSAGE THERAPY |
4. ELECTRICAL FUNDAMENTAL
5. BASIC STRUCTURE AND INDICATION, CONTRAINDICATION OF ALL MODALITIES

**CLINICAL SPECIALITY**

**MUSCULOSKELETAL REHABILITATION**

1. FRACTURE DISLOCATION AND AMPUTATION
2. PHYSIOTHERAPY MANAGEMENT IN ARTHROPLASTY , IMPLANT AND SOFT TISSUE REPAIR
3. PHYSIOTHERAPY MANAGEMENT OF LOCOMOTOR DISORDER
4. PT MANAGEMENT OF SPORTS INJURIES
5. REHABILITATION OF PAEDIATRIC CONDITION
6. USES OF SPECIAL TECHNIQUES ( MANUAL THERAPY, PILATES MER TAPING IASTM)
7. ELECTRO DIAGNOSIS

**CARDIO-RESP REHABILITATION**

1. CLINICAL ASSESSMENT, RATIONAL OF LABOURATORY INVESTIGATIONS AND DIFFERENTIAL DIAGNOSIS
2. EVALUATION OF RESPIRATORY DYSFUNCTION, LUNG FUNCTION TESTS- ANALYSIS OF BLOOD, GASES, X-RAY CHEST
3. EVALUATION CARDIC DYSFUNCTION ( ECG, HOLTER MONITORING ETC. )

4. RISK FACTORS AND PREVENTIVE MEASURES IN CARDIO-RESP CONDITIONS
5. CARDIO- RESP EMERGENICES AND MANAGEMENT PRINCIPLES
6. INTENSIVE CARE UNIT
7. CARDIO-RESPIRATORY RESUSCITATION
8. PHYSIOTHERAPY MANAGEMENT FOR COMMON CONDITIONS IN ICU, MEDICAL SURGICAL CONDITION, Copp,
9. REHABILITATION OF CONSERVATIVE AND POST OPERATIVE CARDIAC CONDITION
10. PULMONARY REHABILITATION

#### **NEUROLOGICAL CONDITIONS**

1. PRINCIPAL OF CLINICAL NEURO DIAGNOSIS AND INVESTIGATIONS
2. VARIOUS EVALUATION SCALES AND ASSESSMENT METHODS USED IN NEUROLOGICAL REHABILITATION.
3. THEORIES OF MOTOR CONTROL AND MOTOR LEARNING.
4. NEURO PHYSIOLOGICAL FUNCTION AND PERCEPTION TESTING
5. TREATMENT APPROACHES IN NEUROLOGICAL CONDITION (BOBATH, NDT, ROODS APPROACH, PNF, MFR)
6. REHABILITATION PROGRAM IN TRAUMATIC BRAIN INJURY AND SC INJURY.
7. AIDS AND APLLIANCES IN NEUROLOGICAL DISORDER

#### **COMMUNITY REHABILITATION**

1. BASIC CONCEPT AND FOUNDATIONS OF REHABILITATION
2. HEALTH AND ILLNESS
3. CONCEPT OF CBR AND IBR
4. PERSON WITH DISABILITY ACT
5. SCOPE OF COMMUNITY REHAB PROGRAM
6. GERIATRIC REHAB
7. OCCUPATIONAL HEALTH AND HAZARDS
8. WOMEN HEALTH

#### **PEDIATRICS REHABILITAION**

1. MOTOR DEVELOPMENT
2. DEVELOPENTAL SCREENING
3. CARDIORESPIRATORY ASSESSMENT OF NEONATES AND INFANTS

4. GROWTH AND DEVELOPMENT OF CHILD
5. MANAGEMENT OF CONGENITAL LOCOMOTOR AND MOTOR LEARNING PROCESS
6. REHAB IN PEDIATRIC SURGERIES