

Add: Academics: Doctoral(Ph.D.)Programme:

Syllabus For Faculty of Physiotherapy.

Faculty of Physiotherapy	
Sr. No.	Title
1.	Research Methodology
2.	Ethics & Legality, Codes of conduct of Indian association of Physical therapy, Maharashtra OTPT Council and World Confederation of Physical therapy [W.C.P.T.], Role of W.H.O. & WCPT.
3.	Basics of Physiotherapy including Electrotherapy and Kinesiotherapy.
4.	Structure, function, Biomechanics & Patho-mechanics of musculoskeletal dysfunctions of the upper & lower quadrant.
5.	Manual Therapy techniques: McKenzie's ,Maitland's ,Cyriax's Mulligan's, positional release techniques, Taping techniques (Kinesio and McCollel)- peripheral & spinal joint dysfunction, Myofascial release techniques, Muscle energy techniques, Neurodynamics & neural tissue mobilizations.
6.	Assistive Devices used for stability and mobility to enhance function.
7.	Hand Rehabilitation.
8.	Assessment & Advances in functional diagnostic procedures of musculoskeletal dysfunctions of the upper & lower quadrant for eg: Special test.
9.	Pt Management Of Spinal Disorders.
10.	Pt Management Of Fractures Of Upper And Lower Extremity.
11.	Pt Management Of Amputation.
12.	Pt Management Of Orthopedic Diseases (Cold Orthopedic).
13.	Pt Management Of Common Sports Injuries,Soft Tissue Injuries & Reconstructive Surgeries, Congenital Malformations.
14.	Palliative care in Pain.
15.	Pre-operative & postoperative Physiotherapy management of traumatic & non-traumatic disorders.
16.	Motor Control & Motor Learning.
17.	Plasticity & Neurotherapeutic Skills.

18.	Principles of Assessment & basic Electro diagnostic investigations & Interpretation.
19.	PT Management of CNS dysfunctions: Stroke (Hemiplegia), Cerebellar dysfunction (Sensory & motor Ataxia), Parkinson's Disease etc.
20.	PT Management of PNS dysfunctions (traumatic & non traumatic), Peripheral Nerve Lesions, GBS (Poly-neuropathy) etc.
21.	PT Management of Infectious disorders of nervous system – Meningitis, Encephalitis, Polio Myelitis, Transverse Myelitis, Tabes dorsalis , Leprosy etc.
22.	PT Management of Spinal Cord dysfunctions (Traumatic & Non traumatic), Spinal Cord Lesions, Syringomyelia etc.
23.	PT Management of Acquired brain injury; trauma and pathology (Space Occupying Lesion etc.
24.	PT Management of Paediatric Congenital and Acquired Conditions: Cerebral Palsy Spina Bifida, Hydrocephalus, Down's Syndrome , Spinal Muscular Atrophy, DMD etc.
25.	Palliative care in Paediatric Rehabilitation
26.	PT management of Cardio-vascular diseases: Systemic Hypertension, Ischemic Heart Disease, Myocardial Infarction, Congenital Heart Disease, Valvular Heart Disease - Congenital & Acquired, Congestive Cardiac Failure, Cardiac Arrest, Arrhythmias, Infective Endocarditis Shock etc.
27.	Interpretation of ECG Normal & variation due to ischemia & infarction (Angiography)
28.	PT management of post Cardiac Surgeries
29.	PT management of Respiratory Diseases: Bronchial Asthma, Chronic Obstructive Airways Disease, Brochiectasis, Pneumonia, Pulmonary Tuberculosis, Pleural Effusion, Empyema & Lung Abscess, Pneumothorax & hydropneumothorax , Heamopneumothorax, Pulmonary Oedema, Interstitial Lung Disease, Occupational Lung Disease, Cystic Fibrosis, Pulmonary embolism, Cor Pulmonale, Malignancy of Lungs & Pleura
30.	PT management of Pulmonary Surgeries
31.	Palliative care in Pulmonary Rehabilitation
32.	PT management of General Medical and Surgical Conditions: Diabetes Obesity, HIV, General Surgery, Mastectomy, Modified & Radical Mastectomy,

	Abdominal surgery etc.
33.	Chest Physiotherapy techniques: Breathing Exercises, Spirometry, ACBT, Autogenic Drainage, Postural Drainage, Chest Mobility Exercises, , Coughing and Huffing technique, Forced expiratory techniques, Suctioning techniques Relaxation & Positioning technique, Splinting, Respiratory PNF techniques Bed mobility exercises, Bed transfers, Use of Therapeutic Respiratory PEP devices (Therapep Acapella, Flutter, RC Cornett), Endotracheal Suctioning, Nasopharyngeal, Modified Postural drainage. Intermittent positive pressure breathing techniques
34.	Oxygen Therapy & Oxygen delivery Devices: Introduction to Oxygen therapy, its Effects, Use, Indications and Contraindications of Oxygen therapy Oxygen delivery devices(Nasal prangs, Facial mask, Venturi mask) Concentrators, hyperbaric oxygen therapy.
35.	Health Promotion & CBR: W.H.O definition of health and disease, Health delivery system, Disaster Management, International classification of functioning (ICF).
36.	Women's Health: Physiotherapeutic interventions in Gynecologic and Obstetric conditions, common surgical procedures in Gynecologic and Obstetric conditions, physical fitness in women etc.
37.	Geriatrics: Physiotherapy management of geriatric conditions (Neurological) Musculoskeletal, Cardiovascular, Respirator, Metabolic), physiology of ageing, physiotherapy management in Common surgical procedures in geriatric etc.
38.	The Palliative care approach to care for the chronically ill and frail elderly.
39.	Industrial health: Assessment of Industrial workers (workplace based assessment, Ergonomic etc.), physiotherapeutic intervention in Industrial health, ergonomic Advised, role of PT in industrial disaster management etc.
40.	Principles Of Bioengineering: Classification of Aids & appliances, biomechanical principles of Appliances, temporary splints including Cock up [dorsal/volar, outrigger], opponence splint, foot drop splint, facial splint, mallet Finger Splint, C bar for 1st web space of hand, Anterior and posterior guard splints for gait training, prosthesis, orthosis etc.