

# **Physiotherapy**

## **5.17. Essential Requirements for MPT Institution**

All existing Physiotherapy colleges/ institute will continue to impart Physiotherapy education provided that following conditions are fulfilled: (Also refer Annexure 2 and 3)

### **1. Eligibility**

Any government /Private/ Self Financing Educational Trust/Charitable Trust/Society/Company registered under the relevant Act; applicant will be eligible to apply.

- a. College should be running BPT programme for last 5 years with atleast one batch of BPT students having graduated from the institute.

### **2. Physical infrastructure**

Whole campus should be accessible for persons with disabilities.

### **3. Administrative Office Land and space requirement**

- i. There shall be no separate land required for starting MPT course subject to fulfillment of eligibility criteria to start the MPT program. However, the essential requirements in terms of physical infrastructure, Manpower as given below must be furnished
- a. Rooms for faculty [per specialty]
  - Professor 1
  - Associate professor 1
  - Assistant professor 2
- b. Common room for students
- c. Toilets for men
- d. Toilet for women
- e. Classroom - 02 rooms of 400 sq.ft. (each).
- f. Laboratory - each specialty lab shall have area of 800 sq.ft. area: The laboratories should be provided with the mandatory equipment as specified under equipment requirements of specialties as mentioned in Annexure 2 and 3.
- g. Standalone MPT institute must have Exercise therapy/ Kinesiotherapy Lab and Electrotherapy Lab (with atleast one equipment of each category as mentioned for BPT Program)

### **4. Library**

In addition to books requirement for undergraduate teaching additional adequate reference books to cater to the post graduate studies should be provided. Minimum 5 indexed international journals should be provided for with additional journal in each elective area/specialty. In addition, reference books,

Audio visual facility, Slide projector, Computer, Internet facility is to be provided.

### **5. Clinical Facilities**

If the course is in the premises of NMC permitted/recognized Medical College as constituent college, there is no requirement for attachment of any other hospital or else Memorandum of Understanding for clinical training should be made with specialty hospitals having the specialty of Musculoskeletal/ Trauma Units, Neurology/ Neurosurgery, Cardio Pulmonary unit with intensive care facilities, paediatrics, Community Physiotherapy and Sports unit. In either case each teaching unit shall accommodate 6 PG students only. Both training on in-door as well as outdoor patients should be provided for.

## **6. Human resource requirement Teaching Faculty per speciality**

### **1. Staff Requirement (Faculty to student ratio)**

Professor 1:3

Assoc Prof 1:2

Asst prof 1:2

### **2. Requirement : Professor 1, Associate professor 1, Assistant professor 2**

### **3. Services of visiting faculty can be utilized, but these faculty members will not be counted in the PG teachers and they cannot register candidates**

### **4. Non-teaching staff**

Office superintendent/ assistant 1

Computer operator 1

Lab assistant / demonstrator - BPT 1

## **10. Minimum Equipment requirements for MPT specialties:**

10.0. Fully equipped Electrotherapy Lab, exercise therapy labs are mandatory for master of Physiotherapy programs.

10.1. For each postgraduation specialty of Physiotherapy (MPT) program fully equipped corresponding laboratory is mandatory.

### **1. Neuro-Physiotherapy Laboratory [Minimum One Unit]:**

- i. Neuro-Exercise Unit-
- ii. 4 Channel EMG with nerve-conduction testing facility
- iii. Biofeedback unit with the facility to do quantitative analysis and therapy
- iv. Sensory integration kits
- v. Balance boards
- vi. Gait analyser-
- vii. Balance analyser and balance trainer
- viii. Functional Electrical Stimulator
- ix. Transcranial Magnetic stimulation device
- x. Transcranial Direct current stimulation device
- xi. Mirror therapy
- xii. Unweighing harness system with treadmill
- xiii. Tilt table
- xiv. Dynamometers
- xv. Gait belts
- xvi. Video camera and player (with jog shuttle facility) for movement analysis (desirable)
- xvii. Robotics for upper limb and lower limbs- Desirable
- xviii. Virtual / Augmented reality device (desirable)

**2. Musculoskeletal Physiotherapy Laboratory [Minimum One Unit]**

- i. Dynamometer – myometer
- ii. Electronic goniometry
- iii. Algometer
- iv. Hand Evaluation kit
- v. Biofeedback unit with facility EMG unit with integrated analysis software provided
- vi. Video camera and player (with jog shuttle facility) for movement analysis
- vii. Isokinetic Unit – desirable
- viii. Motion analysis
- ix. Continuous passive motion devices
- x. Shock wave unit
- xi. Spinal Decompression unit
- xii. Attachment with prosthetic orthotic unit

**3. Cardio-Pulmonary Laboratory-[Minimum One Unit]-**

- i. Treadmill / Bicycle Ergo meter with facility for TMT
- ii. Spiro meter Portable
- iii. Pulmonary function test unit
- iv. Suction apparatus
- v. Peak Flow meters
- vi. Pulse Oximeters
- vii. Mannequin for CPR training
- viii. Flutter
- ix. Fat fold caliper 6
- x. BiPAP/CPAP – desirable
- xi. Body Composition analyzer- desirable
- xii. Energy Consumption analyzer – desirable
- xiii. Couches pillows bed sheets chairs

**4. Pediatric physiotherapy Laboratory-[Minimum One Unit ]**

- i. Well-equipped Play room
- ii. Sensory Integration Room
- iii. Swiss balls
- iv. Positioning devices
- v. Attachment to a CHC is a must, attachment to a pediatric cardio and ortho hospitals
- vi. Ball pool
- vii. Mannequin for pediatric CPR training
- viii. Audio-Visual room
- ix. Accessibility to a mobile Physiotherapy Unit is desirable Attachment with prosthetic orthotic unit
- x. Couches pillows bed sheets chairs

**5. Sports Physiotherapy Laboratory-[Minimum One Unit]**

- i. Fitness measurement instrumentation
- ii. Access to advanced sports center/gymnasium
- iii. Hydrotherapy pool for underwater treadmill /bicycle
- iv. Sauna bath
- v. Medicine ball/ Swiss balls Thera bands
- vi. Equipment for arthrometric measurements
- vii. Body composition analyzer
- viii. Mannequin for CPR training
- ix. Biofeedback unit with facility EMG unit with integrated analysis software provided
- x. Video camera and player (with jog shuttle facility) for movement analysis desirable
- xi. Isokinetic Unit – desirable
- xii. Equipment for Motion analysis – desirable
- xiii. Tie up with a recognized sports academy/ center

**6. Obstetrics and Gynecology Physiotherapy: [Minimum One Unit Each]**

- i. Mirror
- ii. Ultrasound machine
- iii. TENS
- iv. IFT
- v. Electrical stimulator with vaginal electrode
- vi. Perineometer
- vii. Vaginal cones with different weights
- viii. Pressure biofeedback
- ix. Medicine ball/ Swiss balls
- x. Dumbbells set/TheraBand's/Thera tubes
- xi. Weighing machine
- xii. Low mats/Chairs

**7. Oncological Physiotherapy [Minimum One Unit Each]**

- i. Pneumatic compression therapy unit with accessories for both upper and lower limbs (2)
- ii. EMG Bio feed back Unit (1)
- iii. Muscle stimulator (1)
- iv. Interferential Therapy Unit (1)
- v. Attachment with tertiary care oncological hospital.

**8. Community Physiotherapy**

- i. Attachment to a PHC is a must
- ii. Accessibility to a mobile Physiotherapy Unit
- iii. Basic Rehabilitation set up in college building.

#### 10.2. Library:

1. In addition to books requirement for undergraduate teaching additional adequate reference books to cater to the post graduate studies should be provided. Minimum 5 indexed international journals should be provided for with additional journal in each elective area/specialty. In addition, reference books,
2. Audio visual facility, Slide projector,
3. Computer, Internet facility is to be provided.

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#### 10.4. Human resource requirement Teaching Faculty

1. **Staff Requirement (Faculty to student ratio)**

|            |     |
|------------|-----|
| Professor  | 1:3 |
| Assoc Prof | 1:2 |
| Asst prof  | 1:2 |
2. Teaching Faculty per specialization for a minimum intake of 5 students per year (Total 10 students for the program):
  - i. Professor 1
  - ii. Associate professor 1
  - iii. Assistant professor 2
3. Services of visiting faculty can be utilized, but these faculty members will not be counted in the PG teachers and they cannot register candidates
4. **Non teaching staff**

|                                         |   |
|-----------------------------------------|---|
| i. Office superintendent/ assistant     | 1 |
| ii. Computer operator                   | 1 |
| iii. Lab assistant / demonstrator - BPT | 1 |

### 10.5. Essential Requirements for MPT Institution

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- a. Rooms for faculty [per specialty]

|           |   |
|-----------|---|
| Professor | 1 |
|-----------|---|

|                     |   |
|---------------------|---|
| Associate professor | 1 |
|---------------------|---|

|                     |   |
|---------------------|---|
| Assistant professor | 2 |
|---------------------|---|

- b. Common room for students

- c. Toilets for men

- d. Toilet for women

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