

**9. Minimum Standard Requirement for Bachelor in Physiotherapy (B.P.T) program (Maximum intake of 50/100 students)**

**9.0. The establishment of a Physiotherapy college–**

9.0.1. No person shall establish a Physiotherapy college/institute except after obtaining prior permission from the commission. The following organizations shall be eligible to apply for permission to set up a Physiotherapy college, namely:

1. A Central/ State Government/Union territory;
2. A University and Deemed to be University, or a private institution affiliated with a Government university;
3. An autonomous body of the Central or State Government;
4. A society registered under the Societies Registration Act, 1860 (21 of 1860) or corresponding Acts in States;
5. A public or charitable trust registered under the Trust Act, 1882 (2 of 1882);
6. Companies registered under Company Act may also be allowed to open Physiotherapy colleges.

9.0.2. New Physiotherapy College/institute can be established preferably in colocation with a medical college recognized by the National Medical Commission (NMC). **Notwithstanding, a new Physiotherapy College needs to fulfill the entire essential requirement as prescribed by the norms in this Regulation.** The new Physiotherapy College may share common facilities, faculties and infrastructure with the medical college where feasible/applicable

9.0.3. Note: All existing physiotherapy colleges/institute or a new physiotherapy college will impart physiotherapy education provided that **conditions mentioned in Annexure -2** are fulfilled.

## 9.1. Infrastructural, Functional & Equipment and human resource Requirements:

**Note: The Lab Infrastructure is given for average 50 Student intake, if Higher no. of seats [i.e. 100 intakes] is to be granted than the lab facilities should be doubled in each lab and for every equipment Listed for the given details infrastructure for lab and facilities in the college building.**

### 9.1.1. LAND AND BUILDING –

1. Minimum 10 acres land is required for Physiotherapy College.
  - i. If the college is in the premises of NMC permitted/ recognized medical college, no separate land is required. Besides, **norms for independent building for Physiotherapy College must be fulfilled** as per the requirement mentioned below.
  - ii. In all other cases, the applicant must provide the land details on which the institution will be established for providing Physiotherapy education. The land should be in the name of society/ trust/company applying for the same (sale deed/lease/gift deed etc.).
2. The applicant Institution / Trust should have a separate facility for clinical training as per the curriculum prescribed by the NCAHP from time to time.
3. Adequate parking space and recreational area or open space for students must be ensured as per applicable Government norms.
4. Adequate space for out-patient Physiotherapy department, various laboratories, office space, class rooms, hostel and other ancillary facilities must be available as prescribed by the NCAHP.
5. Minimum exclusive built-up area must be 35,000 sq.ft.
6. Building should be barrier free accessible to persons with disability and as per NBCI guidelines (National Building Code of India).
7. Building must be recorded on the appellate institute name or if the land is under lease agreement, it must be for at least 10 years.
8. Building must have requisite clearances from the respective civic and administrative authorities like- i. Fire NOC, ii. structural stability certificate, iii. land use certificates etc.
9. Building must have CCTV camera for surveillance for every area of common use as can be prescribed.
10. Biometric facility for students and staff, faculty attendance record/documentation

#### 9.1.2. **PHYSIOTHERAPY Department/ O.P.D:**

1. A well-equipped OPD facility in physiotherapy department with instruments of all specialties like Musculoskeletal, Neurology, Cardio respiratory, sports medicine, Women Health and community physiotherapy, among others, should be available at the college premises.
2. Every Physiotherapy college should have its own OPD for adequate training of the students. Student/ patient ratio of 1:5 should be maintained in the hospital.
3. A stand-alone Physiotherapy college can sign MOUs with up to five different hospitals having at least 50 beds each. **This MoU arrangement for OPD would be allowed for a maximum period of five years only**, during which the college must establish its own OPD.
4. An out-patient physiotherapy department at the tie-up facility cannot be considered as an independent physiotherapy OPD/ unit of the college.
5. Besides the physiotherapy OPD at the campus, the institute should also start a community / extension centre in nearby rural /semi urban area.

#### 9.1.3. **HOSPITAL / HOSPITAL ATTACHMENT –**

1. If the college is in the premises of NMC permitted/recognized Medical College, there is no requirement for attachment of any other hospital.
2. In all other cases, Proof of availability of 250 beds own/attached hospital (Government/Private) for clinical training of 50 students shall be furnished (student: Bed ratio of 1:5). The hospital must be within 20 km radius of the College. College must provide mandatory bus service to the students if the hospital is located more than 1 km away from the College. Within 5 years of application of these Rules the colleges must have Own Prescribed Hospital in the college Premises.

3. College can be affiliated to maximum five (05) hospitals having indoor and outdoor facility in the following specialties to have cumulative /total 250 beds for clinical training of 50 students.

| Sl. No.                         | Specialties/ Super specialties                                     |
|---------------------------------|--------------------------------------------------------------------|
| 1                               | Orthopedics/ musculoskeletal departments                           |
| 2                               | Medicine including rheumatology, geriatrics and emergency medicine |
| 3                               | Surgery including plastic surgery and burns                        |
| 4                               | Gynecology and Obstetrics                                          |
| 5                               | Neurology/Neurosurgery                                             |
| 6                               | Pediatrics, pediatric surgery and neonatal ICUs                    |
| 7                               | Respiratory medicine                                               |
| 8                               | Cardiology including critical care and cardiothoracic surgery      |
| 9                               | Oncology and Radiotherapy                                          |
| <b>Total bed strength = 250</b> |                                                                    |

4. Tie up hospitals cannot get attached to more than two colleges. If the affiliated hospital is attached with two colleges, the bed strength must be adequately divided amongst the colleges as per the prescribed student: bed ratio.
5. The affiliated hospital shall provide information regarding any MOU with other colleges, if any.
6. The MOU should mention the available clinical specialties, patient loads, and availability of required equipment for clinical training with names and designations of the faculties responsible for the training in the hospital.
7. **FACULTY:** The college/institute must arrange for physiotherapy faculties for supervision and clinical teaching of students inside the hospital. This can be done either by posting its own physiotherapy faculties in the hospital or making remunerative arrangement for recruiting physiotherapy faculties of the hospital.
8. Hospitals may recruit its faculties of physiotherapy for supervision and clinical training of physiotherapy students and supervision of physiotherapy interns with similar eligibility, pay scales and promotional avenues of physiotherapy institutes.

9.1.4. Space allotment for an annual intake of 50 students of B.P.T.

| Unit name                                                                        | Requirement per unit<br>(in sq. ft) | No. of Units | Total area required (In sq.ft.) |
|----------------------------------------------------------------------------------|-------------------------------------|--------------|---------------------------------|
| 1. Department Office                                                             | 500                                 | 1            | 500                             |
| 2. Director/ Dean/ Principal/ HOD`s Office                                       | 300                                 | 1            | 300                             |
| 3. Professor`s Office                                                            | 200                                 | 2            | 400                             |
| 4. Associate Professor`s office                                                  | 100                                 | 4            | 400                             |
| 5. Assistant Professor`s office                                                  | 50                                  | 8            | 400                             |
| 6. Common room for Staff                                                         | 500                                 | 1            | 500                             |
| 7. Room for visiting faculty                                                     | 300                                 | 1            | 300                             |
| 8. Seminar room/ Mini Auditorium                                                 | 1000                                | 1            | 1000                            |
| 9. Conference Room                                                               | 1500                                | 1            | 1500                            |
| 10. Class Rooms with LCD projector/ smart class rooms with demonstration couches | 1200                                | 4            | 4800                            |
| 11. Students common room [Girls]                                                 | 500                                 | 1            | 500                             |
| 12. Students common room [Boys]                                                  | 500                                 | 1            | 500                             |
| 13. Library with Reading Room                                                    | 2500                                | 1            | 2500                            |
| 14. Discussions /Interaction room                                                | 200                                 | 1            | 200                             |
| 15. Out-door Physiotherapy Department                                            | 2500                                | 1            | 2500                            |
| 16. Therapeutic exercise Room                                                    | 1000                                | 1            | 1000                            |
| <b>Laboratories:</b>                                                             |                                     |              |                                 |
| 17. Anatomy Laboratory                                                           | 1200                                | 1            | 1200                            |
| 18. Physiology Laboratory                                                        | 1200                                | 1            | 1200                            |
| <b>Departments:</b>                                                              |                                     |              |                                 |
| 19. Exercise Therapy/ Therapeutic Exercise/ Kinesiotherapy Department            | 1200                                | 1            | 1200                            |
| 20. Electrotherapy & Electro- diagnosis Department                               | 1200                                | 1            | 1200                            |
| 21. Department of Musculoskeletal & Sports Physiotherapy                         | 1200                                | 1            | 1200                            |
| 22. Department of Neurophysiotherapy                                             | 1200                                | 1            | 1200                            |

| Unit name                                                                   | Requirement per unit (in sq. ft)                                 | No. of Units | Total area required (In sq.ft.) |
|-----------------------------------------------------------------------------|------------------------------------------------------------------|--------------|---------------------------------|
| 23. Department of Cardio-respiratory Physiotherapy                          | 1200                                                             | 1            | 1200                            |
| 24. Department of Community Physiotherapy                                   | 1200                                                             | 1            | 1200                            |
| 25. Department of sports physiotherapy, exercise fitness & analysis         | 1200                                                             | 1            | 1200                            |
| <b>Other Facilities:</b>                                                    |                                                                  |              |                                 |
| 26. Hostel for Girls                                                        | Separate / shared with other institutions of the same management | 1            |                                 |
| 27. Hostel for Boys                                                         |                                                                  | 1            |                                 |
| 28. Play ground out door                                                    |                                                                  |              | Minimum 3000                    |
| 29. Library                                                                 |                                                                  |              |                                 |
| Item                                                                        | Requirement                                                      |              |                                 |
| i. Text Books As per syllabus one copy of Book per 10 students per subject. | 600-700                                                          |              |                                 |
| ii. Reference books                                                         | 300 Advanced Books As per requirement                            |              |                                 |
| iii. Journals                                                               | At least four international and four national journal            |              |                                 |
| iv. Subscription to electronic data base / e-journals                       | Required                                                         |              |                                 |
| v. Mandatory Internet facility Access to e-library Equipment                | Minimum 15 computer terminals for 60 students                    |              |                                 |

#### 9.1.5. Teaching Department:

Following departments should be available at the commencement of First year BPT:

1. Department of Kinesiotherapy and Exercise Therapy
2. Department of Electrotherapy and Electro-Diagnosis

Following departments should be available at the commencement of Third year:

3. Department of Musculoskeletal Sciences Physiotherapy
4. Department of Neurosciences Physiotherapy
5. Department of Cardio-Pulmonary Physiotherapy

6. Department of Physiotherapy in Community Health

7. Department of Paediatrics

8. Department of sports physiotherapy

**9. Other Facilities:**

i. Ladies common room with attached wash area

ii. Boys common room with attached wash area

iii. Canteen facility for students and staff

iv. Water Cooler/safe drinking water facility

v. Internet facility inside campus (Office/Principal Room/Staff Room)

vi. Cycle \ Motorcycle \ Car Parking

**Note that as per 8.1.: The Lab Infrastructure is given for average 50 Student intake, if Higher no. of seats [i.e. 100 intakes] is to be granted than the lab facilities should be doubled in each lab and for every equipment Listed for the given details infrastructure for lab and facilities in the college building.**

**9.1.6. Laboratories (equipment for Fifty students)**

**1. Anatomy**

| S. No. | Components                                                                                                                                                                                                                                      | Laboratory                  |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1.     | Dissection facility                                                                                                                                                                                                                             | Minimum 2 cadavers          |
| 2.     | Disarticulated bone set including spine set                                                                                                                                                                                                     | Minimum 5 sets              |
| 3.     | Specimen/model for soft parts [ heart, lung, brain, spinal cord, lower limb, upper limb, spine, GI system, male and female urogenital system]                                                                                                   | Minimum 2 sets              |
| 4.     | Anatomy Software and Virtual Anatomy Models computer with internet connection along with multimedia projector and screen. PC should be installed with software and virtual anatomy models for teaching musculoskeletal and neurological anatomy | Updated version of software |

## 2. Physiology

| S. No. | Components                                                                   | Laboratory    |
|--------|------------------------------------------------------------------------------|---------------|
| 1.     | Microscope oil immersion with single and double demonstration eye piece      | Ten           |
| 2.     | Westergren's pipette for E.S.R. on stand (with space pipette)                | Minimum Fifty |
| 3.     | Wintrobe's pipette for ESR and PCV with stand                                | Minimum Fifty |
| 4.     | Hemoglobin-meter                                                             | Minimum Fifty |
| 5.     | Hemocytometer                                                                | Five          |
| 6.     | Tuning fork time marker                                                      | Two           |
| 7.     | Sphygmomanometer (mercury and digital)                                       | Ten each      |
| 8.     | Stethoscopes                                                                 | Ten           |
| 9.     | Stethoscopes for demonstration with multiple earpieces (desirable)           | Five          |
| 10.    | Polygraphs                                                                   | One           |
| 11.    | Spirometer                                                                   | Twenty        |
| 12.    | Gas analysis apparatus. Halden's student type                                | One           |
| 13.    | Van Slyke's apparatus manometric                                             | One           |
| 14.    | Shenington Starling kymograph (electrically driven)                          | Two           |
| 15.    | Gas analyser automatic for CO <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> | One           |
| 16.    | Basal metabolism apparatus                                                   | One           |
| 17.    | Mosso's Ergograph                                                            | Five          |
| 18.    | Clinical thermometer                                                         | Twenty        |
| 19.    | Compass aesthesiometer                                                       | One           |
| 20.    | Thermo-aesthesiometer                                                        | One           |
| 21.    | Algometer                                                                    | One           |
| 22.    | Knee hammer                                                                  | Twenty five   |
| 23.    | Bicycle Ergometer                                                            | Two           |
| 24.    | Schematic eye                                                                | One           |
| 25.    | Newtons color wheel                                                          | One           |
| 26.    | Tuning fork to test hearing 32-10000 cps(sets-100.256.512Hz)                 | One           |
| 27.    | Dynamometer                                                                  | One           |
| 28.    | Perimeter with charts (Lister"s)                                             | One           |
| 29.    | Color perception lantern Edridge green                                       | One           |

3. **Exercise therapy/ Kinesiotherapy/ Gymnasium**

| S. No. | Name of Instruments                                                           | Laboratory     | OPD          |
|--------|-------------------------------------------------------------------------------|----------------|--------------|
| 1.     | Parallel bar                                                                  | One            | One          |
| 2.     | Wall bar                                                                      | One            | One          |
| 3.     | Suspension frame with apparatus                                               | Four           | One          |
| 4.     | Ergocycles                                                                    | One            | One          |
| 5.     | Blood pressure apparatus                                                      | Ten            | Two          |
| 6.     | Large full size mirrors                                                       | one            | One          |
| 7.     | Wrist roller/exercise                                                         | One            | One          |
| 8.     | Stepper                                                                       | One            | One          |
| 9.     | Shoulder wheel                                                                | One            | One          |
| 10.    | Walker with adjustable heights                                                | Five           | Two          |
| 11.    | Walker with adjustable heights with castor                                    | Two            | One          |
| 12.    | Axillary and elbow crutches (adjustable)                                      | 10 Pairs each  | 2 Pairs each |
| 13.    | Tripod stick, quadripod adjustable                                            | Ten each       | Two each     |
| 14.    | Aluminum sticks                                                               | Ten            | Two          |
| 15.    | Vestibular balls – 26", 30", 34"                                              | Two each       | One each     |
| 16.    | Delorme shoes with weights                                                    | Six Pairs      | One Pair     |
| 17.    | Staircase and slope                                                           | One            | One          |
| 18.    | Tilt table                                                                    | One            | One          |
| 19.    | Goniometers – 180, 360                                                        | Ten each       | One each     |
| 20.    | Digital goniometres                                                           | Five           | One          |
| 21.    | Inclinometer                                                                  | Five           | One          |
| 22.    | Spinal goniometer                                                             | One            | One          |
| 23.    | Reflex Hammers                                                                | Ten            | One          |
| 24.    | Quadriceps table with weights                                                 | One            | One          |
| 25.    | Equilibrium board both adult and pediatric                                    | One each       | One each     |
| 26.    | Exercise mats                                                                 | Six            | Four         |
| 27.    | Dumbbells, weight cuffs, sandbags, springs of different weights and strengths | Four sets each | One set each |
| 28.    | Rope & Pulley set                                                             | Twenty         | Five         |
| 29.    | Progressive resistance station /Multi- Gym                                    | One            | One          |

| S. No.                                                                    | Name of Instruments                       | Laboratory | OPD       |
|---------------------------------------------------------------------------|-------------------------------------------|------------|-----------|
| 30.                                                                       | Bolster 3 sizes                           | One each   | One each  |
| 31.                                                                       | Rowing machine                            | One        | One       |
| 32.                                                                       | Ankle exerciser                           | One        | One       |
| 33.                                                                       | Wedge                                     | Two        | One       |
| 34.                                                                       | Medicine balls                            | Ten        | Three     |
| 35.                                                                       | Resistive bands Different colors          | Ten each   | Five each |
| 36.                                                                       | Finger ladder                             | One        | One       |
| 37.                                                                       | Skates                                    | Six        | Two       |
| 38.                                                                       | Pedo cycle                                | One        | One       |
| 39.                                                                       | Wheel chairs with detachable arm rest     | Five       | Two       |
| 40.                                                                       | Wooden Plinth                             | Six        | Three     |
| <b>b) Exercise therapy &amp; Kinesiotherapy (For 3rd &amp; 4th Year):</b> |                                           |            |           |
| 41.                                                                       | Hand dynamo meter                         | One        | One       |
| 42.                                                                       | Skin fold caliper                         | One        | One       |
| 43.                                                                       | Body composition analyzer                 | One        |           |
| 44.                                                                       | Weighing scale                            | One        | One       |
| 45.                                                                       | Stadiometer (Height Measuring scale)      | One        | One       |
| 46.                                                                       | Computerized Treadmill                    | One        | One       |
| 47.                                                                       | Sensory assessment kit)                   | One        | One       |
| 48.                                                                       | Pain assessment instrument (PPT-Algometer | Four       | One       |
| 49.                                                                       | Hydrotherapy Unit                         | One        | One       |

#### 4. Electro Therapy & Electrodiagnosis Lab (For 1st & 2nd Year)

| S. No.                                                                      | Name Of Instruments                                             | Laboratory | OPD |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------|------------|-----|
| 1.                                                                          | Short wave diathermy                                            | Four       | Two |
| 2.                                                                          | Microwave Diathermy                                             | One        | One |
| 3.                                                                          | Pulse Diathermy (PEME)                                          | Two        | One |
| 4.                                                                          | Diagnostic stimulator                                           | Four       | Two |
| 5.                                                                          | Ultrasound therapy unit 1 & 3 MHz                               | Four       | Two |
| 6.                                                                          | Paraffin wax bath unit                                          | Two        | One |
| 7.                                                                          | Infrared lamp- Luminous & non-luminous                          | Four       | Two |
| 8.                                                                          | Cold pack unit / refrigerator with cryo pack of different sizes | One        | One |
| 9.                                                                          | Hot pack unit/ hydro collator unit with 6 packs                 | Two        | One |
| 10.                                                                         | Laser Unit                                                      | Three      | One |
| 11.                                                                         | Interferential Theory Unit                                      | Three      | Two |
| 12.                                                                         | Trans Cutaneous Nerve Stimulator (TENS)                         | Three      | Two |
| <b>Electro Therapy &amp; Electro diagnosis Lab (For 3rd &amp; 4th Year)</b> |                                                                 |            |     |
| 13.                                                                         | E.M.G./N.C.V                                                    | One        | One |
| 14.                                                                         | Diagnostic stimulator                                           | Two        | Two |
| 15.                                                                         | EMG Biofeedback unit                                            | One        | One |
| 16.                                                                         | Extracorporeal shock wave therapy                               | One        | One |
| 17.                                                                         | Combination therapy                                             | One        | One |

### 5. Department of Musculoskeletal & Sports Physiotherapy

| S. No. | Name Of Instruments                        | Lab [min] | OPD [min] |
|--------|--------------------------------------------|-----------|-----------|
| 1.     | Wheel chair with detachable arm rest       | 1         | 1         |
| 2.     | Cambered wheel chair                       | 1         | 1         |
| 3.     | Crutch axillary                            | 5         | 5         |
| 4.     | elbow crutch                               | 5         | 5         |
| 5.     | Walking stick with adjustable height       | 5         | 5         |
| 6.     | Tripod /terapod walking stick              | 5         | 5         |
| 7.     | Set of orthosis and splints for upper limb | 10        | 10        |
| 8.     | Set of orthosis and splints for lower limb | 10        | 10        |
| 9.     | Set of orthosis and splints for spine      | 10        | 10        |
| 10.    | Treatment couch                            | 10        | 10        |
| 11.    | Pillows                                    | 10        | 10        |
| 12.    | Tilt table                                 | 1         | 1         |
| 13.    | Articulated bone set                       | 1         | 1         |
| 14.    | articulated spine model                    | 3         | 3         |
| 15.    | balance board                              | 1         | 2         |

## 6. Department of Neuro - Physiotherapy

| S. No. | Name of Instruments              | Lab [min] | OPD [min] |
|--------|----------------------------------|-----------|-----------|
| 1.     | Suspension frame                 | 1         | 1         |
| 2.     | Wheel chair                      | 1         | 2         |
| 3.     | Parallel bar                     | 1         | 1         |
| 4.     | Stair case                       | 1         | 1         |
| 5.     | Sensory testing kit monofilament | 1         | 1         |
| 6.     | Reflex Hammer                    | 1         | 2         |
| 7.     | Balance board                    | 1         | 1         |
| 8.     | Pillows                          | 10        | 10        |
| 9.     | Transfer board                   | 1         | 1         |
| 10.    | Wheel chair                      | 1         | 2         |
| 11.    | Crutches                         | 10        | 10        |
| 12.    | Mat                              | 5         | 5         |
| 13.    | Gym ball                         | 2         | 5         |
| 14.    | bolsters                         | 2         | 5         |
| 15.    | Wedge                            | 5         | 5         |

## 7. Department of Cardio-respiratory Physiotherapy

| S. No. | Name of Instruments                                     | Lab [min]  | OPD [min]  |
|--------|---------------------------------------------------------|------------|------------|
| 1.     | Hand held Doppler and venogram                          | One        | 1          |
| 2.     | Motorized Treadmill with inclination control            | One        | 1          |
| 3.     | Cardio-pulmonary exercise testing Unit                  | One        | 1          |
| 4.     | Nebulizer                                               | Four       | One        |
| 5.     | Peak Flow Meter                                         | One        | One        |
| 6.     | Inspiratory Muscle trainer                              | Five       | Five       |
| 7.     | Portable Oxygen Cylinder with accessories               | One        | One        |
| 8.     | Non invasive ventilation (BiPAP, CPAP, Auto PAP)        | One        | 1          |
| 9.     | Ambu bag                                                | Two        | 1          |
| 10.    | Mechanical vibrator                                     | Four       | 1          |
| 11.    | Arm Ergometer                                           | One        | 1          |
| 12.    | Suction Devices- Electronic and foot operated           | Two each   | One each   |
| 13.    | Pulmonary Function Testing (PFT) System                 | One        | 1          |
| 14.    | Endotracheal tube, Tracheostomy tube of different sizes | One each   |            |
| 15.    | Suction catheter of different sizes                     | 5 each     | 2 each     |
| 16.    | Couch for postural drainer                              | Four       | 2          |
| 17.    | Pillows                                                 | Ten        | 10         |
| 18.    | Pedometer                                               | One        | 1          |
| 19.    | Pulmonary function test Machine                         | One        | 1          |
| 20.    | Incentive Spirometer (Volume and Flow each)             | Three each | Three each |

### 8. Department of Community Physiotherapy

| S. No. | Name of Instruments                                                       | Lab [min] | OPD [min] |
|--------|---------------------------------------------------------------------------|-----------|-----------|
| 1.     | Weighing machine                                                          | Two       | 1         |
| 2.     | Baby weighing machine                                                     | Two       | 1         |
| 3.     | Skin fold caliper                                                         | 4 sets    | 5         |
| 4.     | Goniometer                                                                | 4 sets    | 5         |
| 5.     | Height measuring stand                                                    | Two       | 5         |
| 6.     | Vehicle for transport of students / interns and staff to community visits | One       |           |
| 7.     | Multimedia projector with screen                                          | Two       | 1         |
| 8.     | Portable Public address system                                            | Two       | 1         |
| 9.     | First aid kit                                                             | Four sets | 4         |
| 10.    | Body Composition Analyzer                                                 | Two       | 2         |
| 11.    | Portable couch                                                            | Four      | 4         |
| 12.    | Portable table                                                            | Four      | 4         |
| 13.    | Portable chair                                                            | Four      | 4         |

### 9. Skill lab

| Sl. No. | Name of Instruments                         | Lab [min] |
|---------|---------------------------------------------|-----------|
| 1       | Couch                                       | Ten       |
| 2       | Mannequin for CPR                           | One       |
| 3       | Bandages tapes                              | Five sets |
| 4       | Therabands                                  | 5 sets    |
| 5       | Bed having facility for propping up patient | Two       |
| 6       | Spine board                                 | Two       |
| 7       | Bolsters                                    | Four      |
| 8       | Mat                                         | Four      |
| 9       | Gym ball                                    | 1 set     |

## **10. Physiotherapy Out Patient Department (PT-OPD)**

### **1. Infrastructure requirements**

- i. Reception area
- ii. Waiting hall with adequate sitting arrangements
- iii. Consultation rooms
- iv. Ancillary area: space for storage of records, reagents, consumables, stationary etc including eating area for staff shall be available in accordance with the workload
- v. Electrotherapy unit: six chambers for different modalities
- vi. Separate space for Cryotherapy unit, Wax Bath and Hydrocollator
- vii. Two consultation chambers with examination couches
- viii. Exercise Therapy unit
- ix. Minimum one consultation room (8 ftX8 ft at least),
- x. Treatment rooms or cabins (three of 10ftX10ft each)
- xi. Gymnasium for exercise training (25 ft X 20 ft)
- xii. Adequate space for the Parallel bars, Gait training and Floor or mat exercises.
- xiii. Hydrotherapy/ aquatherapy unit: It should be placed in the separate chamber of the size as per the equipment specifications. For example, if Hubbard's equipment is used, it requires a chamber of not less than 15ftX15ft along with the facility of changing room and wash room.
- xiv. The centre should have essential facilities like washbasins, wash rooms, drinking water etc.
- xv. Furniture and Fixtures for all the department (as per need)
  - a. Table
  - b. Chairs
  - c. Patient examination revolving stool
  - d. Examination Table or couch
  - e. Blind Screens/ curtains
  - f. Step-up stool
  - g. Storage Cabinet for records etc.
  - h. Biomedical Waste disposal bins

xvi. List of Essential Equipment

- a. Stethoscope - 1
- b. Thermometer Digital - 1
- c. Torch (flash lights) - 1
- d. Sphygmomanometer (B.P. Apparatus) Digital - 1
- e. Weighing machine - 1

xvii. Fire extinguisher (as per the norms)

9.1.7. Human Resource Requirements

1. **Physiotherapy FACULTY [core]:** Minimum basic qualification and teaching experience required for teachers

| SI No. | DESIGNATION                                  | QUALIFICATION & EXPERIENCE                                                                                                                                                                                                                                     | PUBLICATION                            | PAY SCALE        |
|--------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------|
| i.     | Assistant Professor                          | Bachelor Degree in Physiotherapy (B.P.T./B.Th./P./B.P.Th.), Masters in Physiotherapy (M./P.Th/ M.Sc. P.T/M.PT.) with at least 55% marks (or an equivalent grade in a point scale wherever grading system is followed) from recognized University               | Essential 02 publications [in total]   | As per UGC norms |
| ii     | Associate Professor                          | Master in Physiotherapy (M.P.T./ M.P.Th./M.Sc. P.T.) with Five years total experience as Assistant Professor (out of which minimum 2 yrs as Senior AP preferably) Ph. D. in any discipline in Physiotherapy recognized by U.G.C.                               | Essential 05 publications [in total]   | As per UGC norms |
| iii    | Professor                                    | Masters in Physiotherapy (M.P.T. / M.P.Th./ M.Th.P. / M.Sc. P.T.) with ten years total experience including five years' experience as Associate Professor (Physiotherapy) With Ph.D. in any discipline in Physiotherapy recognized by U.G.C.                   | Essential 08 publications [in total]   | As per UGC norms |
| iv     | Dean                                         | Masters in Physiotherapy (M.P.T./ M.Th.P./M.Pth./M.Sc. P.T.) with ten years total experience, with Ph.D. including five years' experience as Professor (Physiotherapy). Senior- most Professor shall be the Principal / Director / Dean recognized by the UGC. | Very good academic and research record | As per UGC norms |
| v      | Tutors/ Demonstrator (non-academic position) | BPT Degree of Indian University or an equivalent qualification with at least two year experience [Full time Regular mode only]                                                                                                                                 |                                        |                  |

- a. **Superannuation age for teaching faculty shall be 65 years**
- b. These qualifications are applicable for future recruitment. The case of teachers who are already holding teaching posts and have more than 10 years teaching experience will continue to hold their post in their respective institution.
- c. Existing Experienced teachers having more than 10 years of teaching experience may be considered for promotion to Assistant Professor, subject to fulfillment of essential qualification of Assistant Professor.
- d. There shall be only three designations in respect of teachers in universities and colleges, namely, Assistant Professors, Associate Professors and Professors. However, the senior most professor will be eligible for Dean / Director.
- e. Notwithstanding anything contained in these Regulations, any appointment made prior to this recommendation of the Commission shall be protected. Existing faculty in associate professors and professors designation shall be given a time frame of five academic years to pursue a PhD qualification from the notification.
- f. The post of Demonstrator/tutor will be considered as non-academic teaching faculty positions.

**2. Teachers of Pre, Para and Clinical/ Medical Subjects\*:**

- a. Anatomy, Physiology, Biochemistry, Pathology, Microbiology, Pharmacology Orthopedics, General Medicine, General Surgery, Neurology, Neurosurgery, Prosthetics and Orthotics, Pediatrics, Geriatrics, Obstetrics and gynecology, Cardiology, Cardiac surgery, Plastic surgery- MD/MS/ M.Sc./ PhD/ DM/ M.Ch. in respective specialty.
- b. Psychology & Sociology, Biostatistics – post graduate with 55% marks in respective subject
- c. English, Computer Applications: post graduate with 55% marks in respective subject

\*Staff for pre-clinical/paraclinical, clinical/Medical Subjects can be appointed on fulltime or part time basis.

### 3. Staffing Pattern – Teaching & Non-Teaching Staff

- i. It is recommended that a core faculty and student ratio of 1:3 for PG and for UG 1:10 to be followed.

|                                                             | 50 seats                                                          | 51-100 Seats                                                       |
|-------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|
| iii. Before the start of 1 <sup>st</sup> year of BPT course | Professor – 1, Assoc. Prof. –2, Asst. Prof. – 3, Demonstrator –6  | Professor-1, Assoc. Prof.-2, Asst. Prof.-4, Demonstrator-10        |
| iv. Before the start of 2nd year of BPT course              | Professor – 1, Assoc. Prof. –2, Asst. Prof. – 5, Demonstrator –8  | Professor – 2, Assoc. Prof. –3, Asst. Prof. – 8, Demonstrator –6   |
| v. Before the start of 3rd year of BPT course               | Professor – 2, Assoc. Prof. –3, Asst. Prof. – 5, Demonstrator –9  | Professor – 3, Assoc. Prof. –5, Asst. Prof. – 10, Demonstrator –15 |
| vi. Before the start of 4th year of BPT course              | Professor – 2, Assoc. Prof. –4, Asst. Prof. – 6, Demonstrator –10 | Professor – 4, Assoc. Prof. –8, Asst. Prof. – 12, Demonstrator –20 |

ii. **Minimum Teaching Workload of Faculty:**

- Professor– 8 hrs. per week
- Associate Professor – 12 hrs. per week
- Assistant professor – 18 hrs. per week

- iii. **Adjunct and Visiting Faculty:** Institutions may appoint additional Faculty Members from abroad with equivalent qualifications as Adjunct or Visiting Faculty on part time basis

iv. **Non-teaching Staff for institution having fifty (50) seats**

| Sr. No | Post                       | Numbers                |
|--------|----------------------------|------------------------|
| a.     | Physiotherapists           | 6                      |
| b.     | Librarian                  | 1                      |
| c.     | Asst. Librarian            | 1                      |
| d.     | Office Superintendent      | 1                      |
| e.     | Accountant                 | 1                      |
| f.     | Office Assistant Clerk/DEO | 1                      |
| g.     | Lab Attendants             | 8                      |
| h.     | Peon/Sweepers/Cleaners     | as per the requirement |