

# **THE INDIAN ASSOCIATION OF PHYSIOTHERAPISTS**



**MINIMUM STANDARDS REQUIRED FOR  
THE CONDUCT OF BACHELORES DEGREE  
PROGRAMME IN PHYSICAL THERAPY**

# **Indian Association of Physiotherapists**

## **Minimum Standards Required for The Conduct of Bachelors Degree programme in Physical Therapy**

1. Duration - It should be a full-time course of minimum 4 years plus minimum six months compulsory internship & abbreviation of nomenclature as B.P.Th, or B.P.T.
2. Course Objectives – On completion of the course of study having successfully passed the examination, the candidate would be able to achieve a satisfactory level of efficiency :-
  - A. to detect & evaluate, Anatomical patho-physiological and psychosomatic impairments resulting in physical dysfunction in various age groups, occupations & arrive at appropriate diagnosis.
  - B. to understand the rationale and basic investigative approach to the medical system & surgical intervention regimens; & accordingly plan & implement specific Physiotherapy measures effectively.
  - C. to be able to select strategies for cure & care; adopt restorative & rehabilitative measures for maximum possible independence of a client at home, work place & in the community.
  - D. to maintain healthy relationship & co-partnership with various professionals in the health delivery system in the primary interest of a client.
  - E. to ensure quality assurance & motivate the client & her/his family for desirable client compliance.
  - F. to develop communication skills for the purpose of transfer of suitable technique to be used creatively at various states of treatment, compatible with psychological status of the beneficiary.
  - G. to promote health in general in Geriatrics, Women's health, Industrial Medicine as well as at competitive level, such as sports, keeping in mind National health policies.
  - H. to practice professional autonomy & ethical principles with referral as well as first contact clients in conformity with ethical code for Physiotherapists.
3. The institution should have **Government and University Permission** for conducting such a course
4. **IN-TAKE capacity** – The I-B.P.T course should have an intake of 40.
5. **Eligibility for admission** - the candidate should have passed the qualifying XII STD/HSC examination (or equivalent) having English as a subject and a minimum of 50% marks, in Science with Physics, Chemistry, Biology as mandatory subjects.
6. Attachment to M.C.I. recognized medical college is desirable.
7. **Head of the Physiotherapy College / Dept** should be a **qualified Physiotherapist** as Director or Principal with experience equivalent to Professor. In the absence of this the senior most teacher with physiotherapy qualification can be designated as acting principal. **She/He** should be a member of IAP.
8. **Core subjects** should include following 6 Departments  
At the Pre/Para Clinical level the departments are
  - (a) Dept. of Movement Sciences, which include the following sections Biomechanics, Kinesiotherapeutics
  - (b) Dept. of Electro-Therapeutics which will include the following sections Medical physics/ Fundamentals of Electrotherapy, Electrotherapy and Actionotherapy Electro-Physiological skills  
**At the III year BPT the following clinical department shall be provided for**
  - (c) Dept. of Musculoskeletal & Sports Physical therapy
  - (d) Department of Neuro-Physio therapeutics includes adult and pediatrics
  - (e) Department of cardio-respiratory Physio Therapeutics Exercise Fitness and Analysis.

- (f) Department of Community Physio Therapy – which will have following sections.  
 (i) Women’s health (ii) Ergonomics (iii) Health Promotion (iv) Geriatrics.

A total of 6 department with a minimum of 2 teachers in each department is mandatory. Each department should be headed by a faculty member not less than the designation of an Asst. professor. It will total to 13 faculties in the following pattern.

Professor	1	Assistant Professor	4
Associate	2	Lecturer	6

9. (A) Pay Scales : Teachers should be paid the U.G.C grants as applicable to the Dental/Medical faculty and also include NON-PRACTICING allowance.  
 (B) All the INTERNS should be paid stipend.

10. Staffing Pattern at each Year

At the commencement of the course in the core subject of physiotherapy

(a) I B.P.T	Associate Professor	one post
	Assistant Prof.	one post
	Lecturer	one post
(b) II B.P.T	Professor	one post
	Associate Prof.	one post
	Lecturer	three posts
(c) III B.P.T	Professor	one post
	Associate Prof	one post
	Assistant Prof	two posts
	Lecturer	four posts
(d) IV B.P.T	Professor	
	Associate Prof.	two posts
	Assistant Prof.	three posts
	Lecturers	six posts

**Total teaching staff at the end of 4 years**

In addition adequate physiotherapy staff/tutor in physiotherapy should be appointed as per the Clinical workload of the physiotherapy Dept., having staff to Patient ratio as 1:15

11. Mandatory staff for Pre clinical/ a clinical / Clinical & Allied subjects. The teachers for the various subjects in Pre clinical/Part clinical and clinical subjects should be appointed on a part time basis.
12. Mandatory Clinical Facility - Attachment with minimum 250 bedded hospital, with an indoor and outdoor facility with physiotherapy exposure in the areas such as Orthopaedics, Surgery, including Plastic surgery, Burns & Gynaec. Obst; Medicline including Rheumatology & Neurology; Paediatrics; Respiratory Medicine including critical care; Radiology; Cardiothoracic & Neuro-Surgery, & etc. as per syllabus. A well equipped OPD facility in physiotherapy should be available at the college premises. It is recommended that a student/patient ratio of 1:5 be maintained.
13. Non-Teaching Staff: (full time)
- |                  |                             |     |
|------------------|-----------------------------|-----|
| (a) Office staff | (i) Steno-Typist            | one |
|                  | (ii) Clerk                  | one |
|                  | (iii) Registration Assitant | one |

- |                  |  |     |
|------------------|--|-----|
| (b) Labour staff | (i) Laboratory Assistant   | one |
|                  | (ii) Attendant   | one |
|                  | (iii) Ward boys / Ayah-as<br>per the Physiotherapy<br>clinical work load | one |
|                  | (vi) Sweeper   | one |
| (c) Transport    | (i) Driver   | one |
|                  | (ii) Attendant   | one |

14. Mandatory Laboratories – For the commencement of I.B.P.T. Course – following labs must be established or have access to equivalent facilities.

**(A) For the commencement of I.B.P.T. course :** following labs must be established or have access to equivalent facilities :-

- (a) **ANATOMY:** Should be a well equipped lab of minimum 1000 sq. ft area, having adequate number of dissected specimen, mannequins, / models, and museum as per the requirement of the syllabus, Dissection is recommended.
- (b) **PHYSIOLOGY:** area should be minimum 1000 sq.ft, with adequate facility provided for experiments and demonstrations as per the requirement of the syllabus-e.g.-blood studies, nerve-muscles studies, spirometry, exercise physiology etc.,

At the department leave each department should be equipped with the following

Couches - 8, Stool - 8, Staff table and chair - 1

- (c) **THERAPEUTIC GYMNASIUM:** Area should to minimum 500 sq.ft, preferably with wooden flooring, built in storage space, and minimum 10 cubicles, each equipped with an examination couch having head and foot raise facility and adequate wedges, pillows and bolsters for stabilization of the patient.

**Equipment :** 1. parallel bar - one; 2. wall bar-one, 3. Suspension apparatus - one 4. Ergo-cycles one; 5. Blood pressure app. - four; 6. Large full size mirrors-one; 7. Mechanical Cervical & lumbar traction units-one each; 8. adequate number measure tapes; weights, pulleys, dumbbells [steel as well as wooden], floor mattresses of 1" thickness, a volley ball, a medicine ball of 2kg, sand bags of variable weights.

- (d) **ELECTRO THERAPY :** LAB-area should be minimum 500 sq.ft., with a provision of a central voltage stabilizer, 15 cubicles, each installed with a wooden couch, mains three point switch of 5 and 15 amp., and electric call bell. **EQUIPMENT** - 1. Hydro-collator-hot pack unit, having capacity of holding minimum 12 packs; 2. Hydro-collator-cold pack unit having capacity of holding 10 packs; 3. Paraffin wax bath-hospital model; 4. Simple nebulizer-one; 5. multi-tester-2 units; 6. Oscilloscope-one; 7. S.W.D. Ultrasound, Electrical stimulator, Ultra-violet lamp, infra-red lamp one each.

**(B) For the commencement of II B.P.T course: -following labs must be established -**

- (a) **UPGRADATION OF THERAPEUTIC GYMNASIUM** - it should add following equipment.
1. Jumbo Mat of 4" thickness-four, 2. Walkers-with adjustable height, and with casters, 3. Axillary and elbow crutches with adjustable height-three pairs each, 4. walking sticks-with adjustable height-three pairs, 5. Tilt—Table-one, 6. Goniometers-360 and 180 degrees respectively, 6 pieces each, 7. spinal goniometer-one, 8. De'lorne's shoes-two pairs. 9. Vestibular

ball-24" and 34" size respectively-one piece each, 10. equilibrium board-one adult and one pediatric.

(b) **UPGRADATION OF ELECTRO THERAPY LAB** - It should add following equipment-EQUIPMENT

1. S.W.D-pulsed - one units, each equipped with standard flexible electrodes - 2 pairs, rigid electrodes-one small and one large size respectively, one butterfly electrode, 2. Diagnostic Electrical stimulators - four units, each provided with constant current of 0.1 to 20m Amp current intensity, interrupted table models, 3. interferential unit-1mHz frequency - two units, 4. U.V.R. lamp-a/b/c rays-one, 5. He-Ne-Laser-one, 6. TENS unit - two, 7. whirlpool unit, 8. Ultrasound therapy unit-three Desirable items, 9. Biofeedback unit-one, 10. Electronic traction unit-one, 11. Ultrasound combination with therapeutic currents.

(C) **For the commencement of III B.P.T course The department of Musculoskeletal and sports Physiotherapy and Dept of Neuro Physiotherapeutics must be established. At the Dept of Musculoskeletal and sports Physiotherapy**

Lab - Of the 8 couches 2 adjustable ones must be provided for. Equipment - Goniometer, Measure tapes, Taping material, Compression bandages, gonimeters and pelvic inclinometer weight cuffs, physio-balls, hand dynamometer unit must be provided for. At the Dept of Neuro-Physiotherapeutics.

Lab- Of the 8 couches 4 low ones must be provided for. Equipemt - Jumbo mats 4", regular mats, Mirror- pediatric area and adult area, physio-ball, sensory rehab unit, wedges, bolster, Biofeedback unit, diagnostic stimulator.

15. Space-It recommended to have a separate building for Physio Therapy training and clinical services, having adequate scope for expansion. It is recommended that, such building should have O.P.D. set up and Physiotherapy laboratories and the Office / College. Such building should preferably be situated within the Medical college or/and hospital premises in case the hospital / medical college is far way, then it should be within accessible distance and a college van should be exclusively provided for the B.P.T. students.

(a) **SPACE FOR ADMINISTRATION**

- (i) Principal/Professor's office 500 sq.ft.
- (ii) Vice principal's office 250 sq.ft
- (iii) Associate Professor's Office 400 sq. ft.
- (iv) Asst. Prof./Lecturer's office 450 sq. ft

(b) **SPACE FOR TEACHING**

- (v) Class rooms total four each one per academic batch to accommodate 40 students 500 sq ft each.
- (vi) Class rooms - 2 small ones 250 sq.ft each

(c) **LABORATORY-TOTAL AREA 2500 sq.ft. includes total 5 labs**

(d) **LIBRARY 1000 sq.ft.**

16. **Departmental Library** – it should provide adequate number of text books, Reference books, Journals, in the core subjects, medical subjects and Allied subjects – In addition there should be an Audio-visual aids, Medline facility, Mandatory Journals are – APTA, CSP, Australian, Canadian, Archives of Physical medicine, Desirable – Journals – Applied Physiology, year – book of sports medicine.

17. Hostel facility-Adequate hostel facility should be available for students [separate for Girls and Boys] it should be available for the local candidates during the residency posting if any.

18. **Sports/Gymkhana** - Adequate sports facility for indoor and outdoor sports should be provided - A well equipped gymnasium is recommended.

19. **Staff quarter** - It is desirable to provide staff quarters for the Principal/HOD of the Physiotherapy Dept.

20. **Qualification of the staff**

- (a) PROFESSOR-Bachelor Degree in Physiotherapy with MPT/M.P.Th/M.Sc. P.T and or higher qualification like M.Phil, Ph.D, etc; [under the faculty of medicine or Allied health]; with a total of 9 years teaching experience Senior most Prof. Shall be the Principal. /Professor-Director. In the absence of the professor senior most physiotherapy faculty will hold the post of acting principal.
- (b) ASSOCIATE PROFESSOR / READER-Bachelor Degree in Physiotherapy with MPT/M.P.Th/ M.Sc., PT /Ph.D. or equivalent, with full time 2 years experience as an Asst prof. in the core subjects.
- (c) ASSISTANT PROFESSOR/SR LECTURER - Bachelor Degree in Physiotherapy with MPT/ M.P.Th/M.Sc. 3 years full time experience as Lecturer in Physiotherapy or a PhD. The candidate desirable of heading a dept must have worked in the core subject area during the lecturer tenure.
- (d) LECTURER - Bachelors Degree in Physiotherapy with MPT/M.P.Th, M.Sc. [PT]
- (e) TUTOR - student pursuing M.P.T

These qualifications are applicable for all future recruitments. 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 institutions.

21. **Evaluation** - Eligibility for being appointed as an examiner for theory and practical examinations. At Pre-clinical level a teaching faculty in the department of physiotherapy in the cadre of a lecturer and above with a minimum of 3 years teaching experience can be considered.

At clinical year a teaching faculty in the department of physiotherapy in the cadre of Asst. Professor with a minimum of 5 years of teaching experience is to be considered.

**Paper-setter / Moderator.**

A teacher in Physiotherapy with a teaching experience of 5 years in the post of a Professor or with a teaching experience of 10 years in physiotherapy.

22. **Transcript** - The four years full time training programme with minimum 26 weeks compulsory Internship should include the following.

- (A) The total programme [excluding Internship] should have minimum 5600 training hours [excluding vacation], having 30% weight age given to supervised clinical training Each academic year should include minimum 35 weeks of training per annum.

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