

**Baddi University of Emerging Sciences and Technology,
Baddi, Solan (H.P.)**

**SCHOOL OF MEDICAL SCIENCES
(DEPARTMENT OF PHYSIOTHERAPY)**



BACHELOR OF PHYSIOTHERAPY

(4½ YEARS)

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025

Curriculum
Bachelor of Physiotherapy
(4.6 years program)

Background

The need for quality in treatment is a critical component of physiotherapy and requires knowledge and understanding of the basic sciences as well as the interaction between the techniques and procedures used in physiotherapy. In an era of greater complexity of technology and techniques, the role of the physiotherapist (PT) and his/her level of responsibility is continually evolving and expanding. Given the complexity of modern physiotherapy, the recognition of the profession of PT and development of dedicated education programmes specific to that profession must be addressed. Education programmes should provide the PT with the scientific theoretical foundation of the profession and enable them, as practitioners, to be able to synthesize, evaluate and apply their knowledge in a clinical setting.

The aims of the recommended curriculum are to produce PTs who are

- Technically and clinically competent for independent decision making;
- Enable to assess a patient;
- Aware of patient conditions and treatment along with the importance of quality assurance;
- Understand the theoretical basis for evidence based practice;
- Effective members of the multidisciplinary team;
- Prepared to participate in or initiate research into practice;

All aspects of physiotherapy have been considered in the development of this curriculum together with the identification of the roles expected for different levels of physiotherapists based on their qualification and experience. The need for connecting the dots between the education and employment practices has been the road map for devising this curriculum.

Foundation course has also been designed to bring all the students at the same level of understanding with respect to basic healthcare related norms before the start of a career in a healthcare professional course. The foundation course is mandatory for all the allied and healthcare professional courses and for entry level courses also.

BACHELOR OF PHYSIOTHERAPY PROGRAM

PROGRAM OUTCOMES (POs)

The aim of the course is to provide comprehensive, individually focused training that prepares the students for providing a quality physiotherapy care to the patients so that at the end of the course he/she will be able to perform the following:

- PO1: Recognize the role of Physiotherapy in the context of the health needs of the community and National priorities in the health sector.
- PO2: Demonstrate professional and ethical behavior appropriate to atleast the minimum standard expected for a Physiotherapy Graduate.
- PO3: Ability to acquire knowledge on Basic Medical sciences, Human Movement Sciences, Various Medical Conditions and Surgical Treatments to identify Psychological, Social, Economical, Cultural aspects of diseases and its impact on community.
- PO4: Ability to perform a safe, systematic and appropriate physiotherapy assessment for various conditions.
- PO5: Identify, define and Deal with problems of professional practice through logical, analytical and critical thinking.
- PO6: Ability to analyze and interpret physical assessment and diagnosis and set appropriate short and long term goals.
- PO7: Ability to choose, demonstrate intervention safely and document the progression appropriately.
- PO8: Communicate effectively across wide range of professional and personal contexts.
- PO9: An ability to work independently or collaboratively as a part of rehabilitation team.
- PO10: Ability to understand and conduct research activities.
- PO11: Engage in activities that contribute to the betterment of society and behave ethically and responsible in social environment.

PROGRAM SPECIFIC OUTCOMES (PSOs)

Demonstrate sufficient understanding of knowledge in Physiotherapy.

- PSO1: Able to integrate theoretical knowledge with clinical assessment.
- PSO2: Develop the ability to collect history, perform relevant clinical assessment and frame
- PSO3: Appropriate electrotherapeutic and exercise therapy management for the patients.
- PSO4: Demonstrate clinical decision making ability and provide appropriate patient care.
- PSO5: Develop effective communication with patients, family, colleagues and students.

PSO6: Promote health education and improved quality of life through the practice of the profession.

PSO7: To carry out research and publications towards upliftment of the field of Physiotherapy.

PSO8: Actively engage in lifelong learning activities.

PSO9: Work effectively in various inter professional collaborative settings like hospitals, Rehabilitation Centers, Special Schools, Educational Institutions, Health and Fitness Centers, Geriatric Centers, Ergonomic Consultant in Corporate Sectors, Private Consultation, Home Care Services, Industrial Sectors, Sports Management, Fitness Consultant.

REGULATIONS AND SYLLABUS

Baddi University of Emerging Sciences and Technology, Baddi School of Physiotherapy

ORDINANCE

BACHELOR OF PHYSIOTHERAPY (B.P.T. COURSE)

1. Duration of course

The duration of bachelor of physiotherapy course shall be of four and half academic years including six months compulsory rotating internship as under:

- | | |
|-------------------------------|----------|
| a) First Professional B.P.T. | 1 year |
| b) Second Professional B.P.T. | 1 year |
| c) Third Professional B.P.T. | 1 year |
| d) Fourth Professional B.P.T. | 1 year |
| e) Internship | 6 months |

Maximum duration of the program

The candidate should complete the Bachelor of Physiotherapy (BPT) course within a period of 8 years from the date of joining in the course.

2. Admission of the course

- 2.1 The admission of the B.P.T. course shall be made on the terms & conditions prescribed in the notification issued by the Government of Himachal Pradesh & University from time to time.
- 2.2 English shall be the medium of instruction for study and examination of the Bachelor of Physiotherapy degree course.

3. Eligibility

- 3.1 A candidate who has attained the age of 17 years or more on 31st December of the year of admission.
- 3.2 Has passed one of the following examinations: -
- Senior secondary certificate examination (10+2) of Himachal Pradesh board of school or equivalent examination with a minimum of 50% marks in the aggregate in the subjects of Physics, chemistry, biology and English taken together and has obtained 50% marks in physics, chemistry, biology both at qualifying and competitive examinations. In case of SC/ ST candidates the marks obtained should be read as 40% both at qualifying and competitive examinations.

4. Examinations

- 4.1 The examination shall be held twice in a year, one regular in the month of July/august and the other supplementary examination in the month of January/February or on such dates as may be fixed by the Vice- Chancellor.
- 4.2 The date(s) fixed for the receipt of the admission forms and fees for examinations without and with late fee, as fixed by Vice- Chancellor shall be notified by the Controller of Examinations.
- 4.3 First B.P.T. examination will be held at the end of academic year, second at the end of second academic year, third at the end of third academic year and fourth or final (B.P.T.) examination at the end of Fourth academic year.
- 4.4 A person who has passed the 2nd B.P.T. examination of this University shall be eligible to join 3rd BPT class. However, a candidate who has failed in one or more subjects in the 2nd BPT examination for the first time may be allowed to attend the 3rd year of BPT class but will not be allowed to appear in the 3rd BPT examination till he/she passes in all the subjects of 2nd BPT examination as regular or ex- student.
- 4.5 A person who has passed the 3rd BPT examination of this university shall be eligible to join 4th or final year of BPT class. However, a candidate who has failed in one or more subjects in the 3rd BPT examination for the first time may be allowed to attend the 4th year of BPT class but will not be allowed to appear in the fourth BPT examination till he/she passes in all the subjects of 3rd BPT examination as regular or ex-student.
- 4.6 A person is failing in theory he/she has to give theory exam only and if fails in practical than he/she has to give practical exam only.

5. First Professional B.P.T. Examination:

The first professional B.P.T. Examination shall be open to a person who-

- (a) Has been enrolled for one academic year preceding the examination to this university.
- (b) Has his/her name submitted to the University with the following certificates:-
 - i) Of having attended separately in theory and practical/ clinical not less than 75 percent of the lectures delivered and practicals conducted in each of the subjects prescribed for the examination.
 - ii) Of having secured at least 35% marks of the total marks fixed for internal assessment in each subjects, separately in order to be eligible to appear in all university examination.
 - iii) Of good moral character.

Note:

1) Internal assessment should be submitted to the Controller of Examination at least two weeks before the commencement of theory examinations.

The re-appear/Fail students may be re-assessed, if they so desire, next time for the purpose of improvement of internal assessment, otherwise their previous score of assessment will be carried forward.

2) If a candidate fulfils the condition laid down in clause 5(b) (i) and (ii) above for one or more subject (s) he/she may be allowed to take the examination in such subject (s) in which he/she fulfils the requirements.

(c) The first Professional B.P.T. Examination shall be in the subjects as per syllabus and candidate shall be required to pass all the subjects:-

- i) There shall be provision of internal assessment of 10% marks in each subjects of B.P.T. course in theory and practical, separately.
- ii) Each theory paper shall be of three hours duration.
- iii) The minimum number of marks to pass the examination shall be 50% in theory including internal assessment and 50% in practical/ clinical including internal assessment in each subject.
- iv) A candidate securing 75% or above marks in any of the subjects shall be declared to have passed with distinction in that subject provided he has passed the examination in first attempt.
- v) A candidate who fails in one or more subjects in his/her 1st attempt, shall be permitted to attend classes in 2nd prof B.P.T. course. However, he/she must pass first Prof B.P.T. examination at least one term (6 months) before he/ she is allowed to appear in the second Prof B.P.T. examination.
- vi) A candidate who passes in one or more subjects shall be exempted from appearing in these subjects at a subsequent examination, but the candidate must pass the examination in a maximum of six attempts, failing which he/she shall have to appear in all the subjects of the examination.
- vii) However, those candidates who clear all the subjects of 1st Professional B.P.T. course in 6th attempt shall be promoted to 2nd Prof B.P.T. course after the declaration of the result, and thereafter they shall have to complete the period of one academic year of study in order to become eligible to appear in 2nd Prof B.P.T. examination.

6. Second Professional B.P.T. Examination:

The Second professional B.P.T. Examination shall be open to a person who-

- (a) Has been enrolled for one academic year preceding the examination to this university.
- (b) Has previously passed the First Prof B.P.T. examination of this university or an examination of any other recognized University/ Institution in India considered equivalent for the purpose by the University.

(c) Has his/her name submitted to the university with the following certificates:-

- i) Of having attended separately in theory and practical/ clinical not less than 75 percent of the lectures delivered and practical conducted in each of the subjects of second professional B.P.T. course prescribed for the examination.
- ii) Of having secured at least 35% marks of the total marks fixed for internal assessment in each subjects, separately in order to be eligible to appear in all university examination.
- iii) Of good moral character.

Note:

1) Internal assessment should be submitted to the Controller of Examination at least two weeks before the commencement of theory examinations.

The re-appear/Fail students may be re-assessed, if they so desire, next time for the purpose of improvement of internal assessment, otherwise their previous score of assessment will be carried forward.

2) If a candidate fulfils the condition laid down in clause 6 (c) (i) and (ii) above for one or more subject (s) he/she may be allowed to take the examination in such subject (s) in which he/she fulfils the requirements.

(d) The Second Professional B.P.T. Examination shall be held one year after first professional B.P.T. Examination and the candidate is required to pass the subjects as per syllabus :-

- i) There shall be provision of internal assessment of 10% marks in each subjects of B.P.T. course in theory and practical, separately.
- ii) Each theory paper shall be of three hours duration.
- iii) The minimum number of marks to pass the examination shall be 50% in theory including internal assessment and 50% in practical/ clinical including internal assessment in each subject.
- iv) A candidate securing 75% or above marks in any of the subjects shall be declared to have passed with distinction in that subject provided he has passed the examination in first attempt.
- v) A candidate who passes in one or more subjects shall be exempted from appearing in these subjects at a subsequent examination, but the candidate must pass the examination in a maximum of six attempts, failing which he/she shall have to appear in all the subjects of the examination.

Providing that the candidate, who fails in one or more subjects in his/her 1st attempt, shall be permitted to attend classes in 3rd Prof B.P.T. course. However, he/she must pass second Prof B.P.T. examination at least one term (6 months) before he/ she is allowed to appear in the third Prof B.P.T. examination.

7. Third Professional B.P.T. Examination:

The Third professional B.P.T. Examination shall be open to a person who-

- (a) Has been enrolled for one academic year preceding the examination to this university.

- (b) Has previously passed the second Prof B.P.T. examination of this university or an examination of any other recognized University/ Institution in India considered equivalent for the purpose by the University.
- (c) Has his/her name submitted to the University with the following certificates:-
- Of having attended separately in theory and practical/ clinical not less than 75 percent of the lectures delivered and practical conducted in each of the subjects of Third professional B.P.T. course prescribed for the examination.
 - Of having secured at least 35% marks of the total marks fixed for internal assessment in each subjects, separately in order to be eligible to appear in all university examination
 - Of good moral character.

Note:

- Internal assessment should be submitted to the Controller of Examination at least two weeks before the commencement of theory examinations.

The re-appear/Fail students may be re-assessed, if they so desire, next time for the purpose of improvement of internal assessment, otherwise their previous score of assessment will be carried forward.

- If a candidate fulfils the condition laid down in clause 7 (c) (i) and (ii) above for one or more subject (s) he/she may be allowed to take the examination in such subject (s) in which he/she fulfils the requirements.
- (d) The Third Professional B.P.T. Examination shall be held one year after second professional B.P.T. Examination and the candidate is required to pass the subjects as per syllabus :-
- There shall be provision of internal assessment of 10% marks in each subjects of B.P.T. course in theory and practical, separately.
 - Each theory paper shall be of three hours duration.
 - The minimum number of marks to pass the examination shall be 50% in theory including internal assessment and 50% in practical/ clinical including internal assessment in each subject.
 - A candidate securing 75% or above marks in any of the subjects shall be declared to have passed with distinction in that subject provided he has passed the examination in first attempt.
 - A candidate who passes in one or more subjects shall be exempted from appearing in these subjects at a subsequent examination, but the candidate must pass the examination in a maximum of six attempts, failing which he/she shall have to appear in all the subjects of the examination.

Providing that the candidate who fails in one or more subjects in his/her 1st attempt, shall be permitted to attend classes of final Prof B.P.T. course. However, he/she must pass Third Prof B.P.T. examination at least one term (6 months) before he/ she is allowed to appear in the third Prof B.P.T. examination.

8. Final Professional B.P.T. Examination:

The Final professional B.P.T. Examination shall be open to a person who-

- (a) Has been enrolled for one academic year preceding the examination to this university.
- (b) Has previously passed the third Prof B.P.T. examination of this university or an examination of any other recognized University/ Institution in India considered equivalent for the purpose by the University.
- (c) Has his/her name submitted to the university college with the following certificates:-
 - i) Of having attended separately in theory and practical/ clinical not less than 75 percent of the lectures delivered and practical conducted in each of the subjects of final professional B.P.T. course prescribed for the examination.
 - ii) Of having secured at least 35% marks of the total marks fixed for internal assessment in each subjects, separately in order to be eligible to appear in all university examination.
 - iii) Of good moral character.

Note:

- 1) Internal assessment should be submitted to the Controller of Examination at least two weeks before the commencement of theory examinations. All the colleges shall adopt uniform criteria for internal assessment for which a record of each student shall be maintained in each department, which should be made available for inspection by the student concerned as well as university authorities.

The re-appear/Fail students may be re-assessed, if they so desire, next time for the purpose of improvement of internal assessment, otherwise their previous score of assessment will be carried forward.

- 2) If a candidate fulfils the condition laid down in clause 8 (c) (i) and (ii) above for one or more subject (s) he/she may be allowed to take the examination in such subject (s) in which he/she fulfils the requirements.
- (d) The Final Professional B.P.T. Examination shall be held one year after third professional B.P.T. Examination and the candidate is required to pass the subjects as per syllabus :-
 - i) There shall be provision of internal assessment of 10% marks in each subjects of B.P.T. course in theory and practical, separately.
 - ii) Each theory paper shall be of three hours duration.
 - iii) The minimum number of marks to pass the examination shall be 50% in theory including internal assessment and 50% in practical/ clinical including internal assessment in each subject.
 - iv) A candidate securing 75% or above marks in any of the subjects shall be declared to have passed with distinction in that subject provided he has passed the examination in first attempt.
 - v) A candidate who passes in one or more subjects shall be exempted from appearing in these subjects at a subsequent examination, but the candidate must pass the examination in a maximum of six attempts, failing which he/she shall have to appear in all the subjects of the examination.

9. General conditions

9.1 The examiners shall be appointed by the university on the recommendation of the board of studies.

Provided that

- i) From the list of panel of examiner (External & Internal) for both Practical examination and Theory Examination. The evaluation of answer books is done by External & Internal Examiner which will be under the direction of the Vice- Chancellor
- ii) The senior most teachers in a subject who has taught the students for at least six months shall be appointed internal examiner. No person below the rank of Assistant Professor in the subject of Degree level institution shall be appointed as an internal Examiner. External examiner shall be appointed only having 5 or more than 5 years' experience from the teaching staff of Physiotherapy College outside the University
- iii) The university may get each paper/ part set from External and Internal Examiner.
- iv) The practical examination shall be conducted jointly by the internal examiner of the respective institution and the external examiner for that institute.
- v) The award list duly signed by both the examiners would be submitted to the Controller of Examinations immediately after the conduct of examination. A copy of the result of practical examination would be kept by the Internal Examiner for six months for reference and record.
- vi) In order to maintain secrecy the evaluation of answer books shall be got evaluated by putting fictitious roll numbers thereon- spot evaluation (table marking) or any other method under the direction of the Vice- Chancellor.

9.2 The internal assessment shall be determined by the Head of the Department concerned based on the student's class work, home work, house examination records and participation in co-curricular activities and the same duly countersigned by the Dean shall be submitted to the Controller of Examination at least two weeks before the commencement of the examination.

10. Declaration of Result

The Controller of Examinations shall publish the result after the examination. The candidates shall be issued Detailed Marks Certificate through their Department. The degree of Bachelor of Physiotherapy (B.P.T.) shall be awarded by the university on successful completion of six months compulsory rotator internship, duly certified by the Dean of the School of Physiotherapy.

11. Grace Marks

The grace marks up to a maximum of five marks (during full course) may be awarded at the discretion of the university to a student who has failed only in one subject but has passed in all other subjects.

12. Clinical Training

All the candidates shall complete 300 teaching hours in Clinical Training during the course.

13. Compulsory Internship

13.1 All the students after passing Final Prof. B.P.T. examination shall go in for six months compulsory rotatory internship of minimum 960 hrs (calculated based on 8hrs per day, if 120 working days in 6 month span) in the following departments in their College/ Institution:-

i) Physiotherapy Out- Patient Department	1 month
ii) Orthopaedics	1 month
iii) Neurology & Neuro Surgery including ICU	1 month
iv) Cardiology & Cardiothoracic Surgery	1 month
v) General Medicine & General Surgery	1 month
vi) Community based Rehabilitation/ Geriatrics	1 month

13.2 After completion of internship the concerned Dean will certify that the student has satisfactory completed internship. Thereafter the student will be awarded the degree of Bachelor of Physiotherapy (B.P.T.)

13.3 Under some exceptional circumstances a student may be permitted to complete his internship in another Government Hospital/Privet Hospital/Government & Privet Medical college Hospital/Institute were ever in India with a No Objection certificate issued by the department or University.

13.4 All the students shall start their internship within 15 days from the declaration of result. Under exceptional circumstances, if a student cannot do so, he will have to take special permission of the university on the recommendations of the Dean.

14. Vacation

The head of institutions may **declare 45 days** of vacation in an academic year to the student without year back. The period of vacation can be decided by head of institution.

15. General

Notwithstanding the integrated nature of this course which is spread over more than one academic year, the Ordinance in force at the time a student joins the course shall held good only for the examination held during or at the end of the academic year and nothing in this Ordinance shall be deemed to debar the university from amending the Ordinance and the amended Ordinance, if any shall apply to all students, whether old or new.

16. Guidelines for Paper Setting:

Theory Paper:

- 1) Duration of all papers including subsidiary subjects shall be 03 hours.
- 2) Maximum marks shall be as given in examination Scheme.
- 3) Question papers will be set as per the following guidelines:

For Subjects Max Marks: 100 (80 Summative + 20 Formative)

S.No.	Type of Question	Part	Total No. of Question	No. of Question to be attempted	Marks for each question	Total marks
1.	Short Questions	A	10	10	2	20
2.	<i>Long Essay type</i>	B	7	5	12	60
Grand Total						80

For Subjects Max Marks: 50 (40 Summative + 10 Formative)

S.No.	Type of Question	Part	Total No. of Question	No. of Question to be attempted	Marks for each question	Total marks
1.	Short Questions	A	5	5	2	10
2.	<i>Long Essay type</i>	B	5	3	10	30
Grand Total						40

Note:

- The question paper will be moderated by committee (constituted by Dean) who are proficient in the subject in the office of controller of examination. The moderation will be done to assure that no question is out of syllabus and there is no mistake in the question and the committee will amend/correct the paper accordingly.
- For Subjects Max Marks: 100 (80 Summative + 20 Formative) for final examination and for 1st, 2nd and 3rd sessional exam Follow as the BUEST Examination Ordinance and regulation

17. INTERNAL ASSESSMENT

Theory: Criteria for Continued Evaluation of Internal Assessment by Teacher Scoring for Total 20 Marks

1. Performance in Sessional Examinations 1st, 2nd & 3rd (Average best of 2 Sessional Exams) as the BUEST Examination Ordinance and regulation = 10 Marks
2. Assignments/class test = 05 Marks
3. Attendance = 05 Marks

Practical: Criteria for Continued Evaluation of Internal Assessment by Teacher Scoring for Total 20 Marks

- 1) Performance in laboratory based practical Examinations 1st, 2nd & 3rd (Average best of 2 Sessional Exams) as the BUEST Examination Ordinance and regulation = 10 Marks
- 2) Assignments/class test = 05 Marks
- 3) Attendance = 05 Marks

Theory: Criteria for Continued Evaluation of Internal Assessment by Teacher Scoring for Total 10 Marks

- 1) Performance in Sessional Examinations – 1st, 2nd & 3rd (Average best of 2 Sessional Exams) as the BUEST Examination Ordinance and regulation = 5 Marks

- 2) Assignments/class test = 2.5 Marks
- 3) Attendance= 2.5 Marks

Practical: Criteria for Continued Evaluation of Internal Assessment by Teacher Scoring for Total 10 Marks

- 1. Performance in laboratory based practical Examinations –1st, 2nd & 3rd (Average best of 2 Sessional Exams) as the BUEST Examination Ordinance and regulation = 5 Marks
- 2. Assignments/class test = 2.5 Marks
Attendance= 2.5 Marks

Foundation course - Internal Assessment

Criteria for Continued Evaluation of Internal examination by Teacher Scoring for Total 50 and 100 Marks.

S.No.	50 Marks	100 Marks
1	Assignments = 20 Marks	Assignments = 40 Marks
2	Class test= 10 Marks	Class test= 10 Marks
3	Quiz =10 Marks	Quiz =10 Marks
4	Practical Skills= 5 Marks	Practical Skills= 35 Marks
5	Attendance= 5 Marks	Attendance= 5 Marks

Note: Marks distribution for Attendance in % age

Marks distribution for Attendance in % age	
95<= Attendance=100	5 marks
90<= Attendance<95	4marks
85<= Attendance<90	3 marks
80<= Attendance<85	2 marks
75<= Attendance<<80	1 mark

School of Physiotherapy, Baddi University of Emerging Sciences and Technology
Bachelor of Physiotherapy (4½ Years)
SCHEME OF EXAMINATIONS

Curriculum Outline

First year		Hours			
Sl. No.	Course Titles	Theory	Practical	Total	Weekly class hours
BPT-101	Human Anatomy	120	165	285	9
BPT-102	Human Physiology	120	75	195	6
BPT-103	Biochemistry	60	-	60	2
BPT-104	Electrotherapy -I	100	100	200	9
BPT-105	Exercisetherapy-I	100	100	200	9
Foundation course - Internal examination					
BPT-108	Introduction to Healthcare Delivery System in India	30	-	30	2
BPT-107	Basic computer and information science	-	30	30	1
BPT-106	English, Communication and soft skills	30	-	30	1
BPT-109	Clinical Observation-I		10	10	1
PBL/Assignment/ICT learning				20	1
Community orientation and clinical visit				20	1
Total		560	480	1080	42