



Degree course in Physiotherapy

MAGADH UNIVERSITY

Institute of Physiotherapy

Bodh Gaya – 824 234. Bihar, INDIA

Phone No. 0631 – 2201333



PROSPECTUS

Institute of Physiotherapy

Magadh University
Bodh Gaya – 824 234. Bihar, INDIA
Phone No. 0631 – 2201333
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Website: www.magadhbpt.com

From The Vice Chancellor's Pen



Department of Physiotherapy situated in university H.Q. provides excellent facilities for a health and happy life. It is a well designed BPT job oriented vocational course.

May the department of physiotherapy serve as a prelude to rehabilitate the humanity as selfless citadel of learning and disseminate the spiritual sparks lords Buddha. I hope and trust the department of physiotherapy of our university will registered its supremacy with desired infrastructure and a sense of dedication of faculty members.

Pr (Dr.) Arun Kumar

Vice – Chancellor

Magadh University, (Bodh Gaya)

Director's Message



I have great pleasure and satisfaction in offering you a merit based valuable job oriented BPT four and half years professional course of your choice in the Department of Physiotherapy situated in the university campus of Magadh University, Bodh Gaya. The Department is anodal agency for Physiotherapy courses of the University. It provides excellent faculties, conducive environment, modern infrastructure and stimulating atmosphere with a sense of discipline, dedication & determination which enables you to dream & work hard to achieve your goal.

At BPT, we believe in building better future of our students. I am sure that pursuing you BPT courses through this Department would be one the most exciting & rewarding professional experiences of your life.

Prof. (Dr). K.B. Sharma

Msc., Ph.D., (Gold Medalist)
F.Z.S.I, F.G.A.I., F.N.E.A.

Director

Prof. K.B. Sharma
Dept. of Physiotherapy

THE UNIVERSITY AT A GLANCE



Since the moment of Lord Buddha's Enlightenment under the Bodhi-Tree till the establishment of Magadh University, Bodh Gaya on 1st March, 1962. Magadh region of Bihar has envisaged academic explorations in the forms of "Paraa" and "Aparra" Vidya. Various Gurukuls, Buddha Vihars, Sharanams, Pathshalas, Maqtabs and English medium institutions echo the divinely lit-academic throbs of Magadh down the ages. It was Sarvapalli Radhakrishnan, the then President of India and great Philosopher-scholar of modern age who laid the foundation of the University in August, 1964 as a homage to Lord Buddha and Buddhism. The renewed historian Dr. K.K. Dutta was the founder Vice-Chancellor of this University who had dreamt of disseminating the message of Buddhism by launching new

branches of south Asian Studies in the Department of History. The Departments of Philosophy, Pali, Ancient Indian and Asian Studies as well as Buddhist Studies cater to the need of the vision and consequently this University captivates the attention of the students and scholars of Buddhist Countries. The enrolment of Buddhist monks and foreign scholars in the University provides it an International stature.

The Headquarters of MU is housed in an area of 600 acres of land (at 131mtrs, Altitude; between Latitude 24 degree 41' N & Longitude 85 degree 58'E) and its jurisdiction covers the districts of Patna, Gaya, Nalanda, Nawada, Jehanabad, Aurangabad and Arwal in Bihar (between Latitude 24 degree 30' N & 25 degree 31' N and Longitude 83 degree 58'E & 86 degree 5'E). At present there are 44 Constituent Colleges, 100 Affiliated Colleges, 2 Medical College, 4 Engineering Colleges, 6 Law colleges and 6 Teachers Training Colleges. Two colleges of this University have been accredited with Grade A by "NAAC", It is the largest University in Bihar. It imparts teaching up to UG, PG, Ph.D. levels as well as Post Doctoral Research in the Faculties of Humanities, Social Sciences, Commerce, Science, Management, Engineering, Law, Education, Medicine and Dental Science. Several Vocational and Professional Course like M.B.A, M.C.A, MRRDM, Environmental Science, Hotel, Hospitality and Tourism Management, Bio-Technology, Physiotherapy, journalism and Mass Communication, Academy of Foreign Languages like French, Chinese, Spanish, Japanese, Korean and German and Cultural Co-operation, Library Science, Yoga, Women Education, BCA, BBA, OMSP, TTM, ASPSM, Environment and Water management and Diploma Courses in 19 subjects etc. have added extra feathers in the glorious cap of the academic pursuits of this University. This University has also hosted First Bihar Inter University Cultural Festival- "Tarang" in 2008 which was inaugurated by Her Excellency the President of India Smt. Pratibha Devi Singh Patil on 15 February 2008. On 11 February 2010 the 3rd Bihar Science Conference was inaugurated by ex- President of India Dr. A.P. Abdulkalam at Gaya College, Gaya which is a premier constituent unit of MU headquarters.

The rich cultural heritage of Magadh since pre & Post -vedic period has been enriched by the religious, historical and archaeological spots like Vishnupad and Mangalagauri Temples; Brahmayoni, Ramshila and caves of Banavar Hills; Hot spring of Tapavan and Rajgrih (the Ancient Capital of Magadh Empire); Waterfall of kakolat; Pawapuri (Mahaparinirvan Sthal of the 24th Trithankar of Jainism-Mahavir), the Nalanda and Udantpuri Universities, the birth place of Lorik and Guru Govind Singh; Takht Har Mandir at Patnacity; the largest mosque of Bihar Jama Masjid; the Tombs of Makhdoom Sahab and Peer Mansoor besides the caves of penance of the Saptarishis & other Brahmarishis viz, Kashyap, Atri, Shringi, Lomash, Kapil, Durvasa, Markanday, Patanjali including the Visits of Maharshi Agastya, Lopamudra, Ram, Sita, Lakshman, Krishna, Chaitanya Mahaprabhu, Swami Vivekanand, Tagore, J.C Bose, Gandhi as well as Fa Huien Tsang et al.

CONCEPT OF PHYSIOTHERAPY

Physiotherapy is a professional health care discipline directed primarily towards the prevention or alleviation of movement dysfunction in people. Physiotherapy is one of the fastest developing health sciences. Physiotherapy is the science of healing and art to cure. It promotes optimal health and functions of the human body. It involves the assessment, maintenance, restoration of the physical function and performance of the body, and is strongly recommended for people with degenerative disorder, the physically challenged, sports people and those suffering from neurological disorders. The core skills used by a physiotherapist include manual therapy, mobilization, exercise science and the application of electro physical modalities. It maximizes movement potential through health promotion, preventive health care, treatment and rehabilitation.

A physiotherapist is a university graduate of an accredited physiotherapy program, who is qualified to:

- establish a physical diagnosis and determine a client's movement potential;
- plan and implement physiotherapy treatment programs, using specialized knowledge and skills in exercise prescription and hands-on techniques for the prevention and treatment of movement dysfunction; and;
- Undertakes related professional activities such as research, teaching, administration and consultation.

Movement dysfunction is any alteration in normal body kinetics that limits effective or efficient body performance. Movement dysfunction may be due to pain, congenital, anomalies, disease processes, accident or injury, enforced inactivity, problems secondary to again, or psychological or social stress. The dysfunction may be manifested in actual or potential impairment related to neuromuscular, musculoskeletal, respiratory or cardiovascular system.

SCOPE OF PHYSIOTHERAPY

The profession of Physiotherapy is an integral component of the Canadian health care delivery system. As a part of this system. Physiotherapists work closely with occupational therapist, speech pathologists, nurses, social workers, respiratory technicians, physicians and others.

Physiotherapists treat patients who may not be referred to them by a physician. Following assessment, individual treatment programmes are designed, with the patient's participations where possible. Physiotherapy is an active partnership between patient and therapist.

Physiotherapists have:

- A detailed understanding of how body works.
- Knowledge of disease, injury and the healing process; and
- The ability to distinguish what is normal from abnormal is posture, balance and movement.

Physiotherapist use:

- Skilled “hands on” treatments such as soft tissue mobilization, acupressure and manipulation;
- Laser, ultrasound, magnetic fields, electrical currents acupuncture and ice to relieve pain and assist recovery;
- Individually prescribed exercise programs, relaxation techniques, sophisticated diagnostic and treatment equipment, hydrotherapy and biofeedback; and
- Suitable assistive devices such as walking aids, splints, braces, orthotics, prosthetics and other therapeutic appliances and train patients in their correct use.

SCOPE OF PHYSIOTHERAPY

1. Rehabilitation following joint replacement;
2. Osteoporosis
3. Difficulty recovering from an illness or from surgery
4. Stroke or head injury;
5. And Bladder control problem

Physiotherapists may work in one or any combination of the following specialized areas:

Burns:-

To reduce that risk of deformity during the grafting and healing process. Through daily exercise and hydrotherapy.

Consultation:-

To act as a consultant to schools. Government, charities, industries and other organizations within the public and private sectors.

Geriatrics:-

To help the elderly achieve independence by teaching them how to help themselves and use equipment to give more mobility.

Home care:-

To help patients manage at home, especially after being discharged from a hospital of rehabilitation centre.

Neurology:-

To help patients achieve normal movement following an injury to the nervous system such as a stroke, multiple sclerosis, Parkinson's Disease or head injury. Treatment includes exercises, hydrotherapy, gait training, pain relief, muscle strengthening and joint mobility exercise.

Orthopedics:-

To treat and prevent joint sprains, muscle strains, neck and back complaints and to restore function following fractures and surgery. Orthopedics is also concerned with correcting and preventing postural dysfunction and muscular imbalance, and arthritis. Treatment may involve special exercise, mobilization, manipulation, stress management and relaxation techniques.

SCOPE OF PHYSIOTHERAPY

Pediatrics:-

To treat children's congenital defects such as cerebral palsy, muscular dystrophy, cystic fibrosis or mental challenges. Also to assess and treat children following injury or disease. Physiotherapy consult and teach parents and caregivers skills and methods to treat children.

Research:-

To develop and evaluate new and current physiotherapy techniques.

Respirology:-

To treat children and adult suffering from asthma, bronchitis, emphysema, pneumonia, and other lung condition. Respirology is also important for patients on general surgical wards, in intensive care units and in coronary care units.

Sports physiotherapy:-

To treat and prevent injuries by providing physiotherapy coverage at international, national provincial and some local sports events.

Other:-

- To reach pre-natal and post natal programs.
- To rehabilitate heart attack patients.
- To provide post surgical care and prosthetic training
- To assess and improve motor coordination of patients with impaired sight or hearing.
- To teach skiing riding, swimming and wheelchair sports to the disabled.
- To plan, organize and direct treatment and physical activity programs for psychiatric patients.

EMPLOYMENT

Professional roles:-

Professional roles have been developed for each of the basic elements of the profession-clinical practice, research and education.

- Clinical practice includes many types of physiotherapeutic care – preventive, rehabilitative and maintenance.
- Research is undertaken to try to find ways of improving the quality of care and stimulating development in all aspects of the physiotherapy profession.
- Education is an essential component of the profession at several levels-underground and graduate university programs as well as continuing education programs.

Physiotherapists work in:-

- Private clinics
- Hospitals
- Rehabilitation center
- Long term care
- Home care programs
- School
- Child development center
- Public health units
- Industry

Physiotherapists work with a broad variety of physical problem, especially those associated with the neuromuscular musculoskeletal cardiovascular and respiratory system. They may work along, with physiotherapy colleagues or teams with other care professional teams.

These are examples of the areas physiotherapists work in:

- **Outpatients-** Treating spinal and joint preambles accident and sports injuries.
- **Intensive care units-** keeping limbs mobile and chests clear
- **Women's health-** Ante-and post natal care advice, exercise and posture, managing continence and post-genealogical operations.
- **Care of Elderly** – Maintaining mobility and independence, rehabilitation after fall, treatment of arthritis, Parkinson's disease, chest conditions.
- **Neurology** – Helping people restore normal movement and function in stroke multiple sclerosis and other conditions.
- **Orthopedics and Trauma** – Restoring mobility after hip and knee replacements and spinal operations, treating patients after accidents.

EMPLOYMENT

EMPLOYMENT CONT...

- **Mental illness-** taking classes in relaxation and body awareness, improving confidence and self-esteem through exercise.
- **People with Learning Difficulties-** using sport and recreation to develop people, assessing and providing specialist footwear, seating and equipment.
- **Occupational Health** - treating employees in small to large organizations and companies, looking at work habits to prevent physical problem such as repetitive strain injury.
- **Terminally ill (palliative care)** - working in the community or in hospices, treating patients with cancer and AIDS.
- **pediatrics** - treating sick and injured children, those with severe mental and physical handicaps, and conditions like cerebral palsy and spina bifida
- **Community** - treating a wide variety of patients at home and give advice carers.
- **private sector** - working independently in private practice, clinic, hospitals, and Gp surgeries treating a wide range of condition
- **Education and Health promotion** - teaching people about many conditions and lifestyle choices
This may include back care, ergonomics taking exercise classes and cardiac rehabilitation groups.
- **Sport Clinics** - treating injuries in sportsmen and women advising on recovering fitness and avoiding repeated injury.
- **Voluntary organization** - advising and consulting for organization supporting and caring for people with multiple sclerosis and Parkinson's disease.

EXISTING INFRASTRUCTURE

ABOUT DEPARTMENT OF PHYSIOTHERAPY

The Department of Physiotherapy was established on the campus of the Magadh University in June 2007 under a vision of introducing the professional courses keeping in view the needs of the his society. This is the first University Dept. in Bihar and Jharkhand.

Magadh University campus is spread over 600 acres of land covered with green trees and vast lawns. The Central part has a large Administrative Office, Post office and the branch of Central Bank of India with core banking facilities. There is also State Bank of India ATM and other facilities available here. The Northern Campus has the Mannul Magadh Univesity Library that has books and manuscripts. The entire department in the faculties of Humanities and some of the departments the faculties of Social Sciences, Department of Physiotherapy, Academy of Foreign Languages, College of Hotel, Hospitality and Tourism Management and the Faculty of Commerce and Applied Economics are located in this part of the campus. A grand Stadium is also coming up. The student's Centre with a fully equipped Gymnasium and other facilities, quarters for teachers and employees are situated in this area. The Southern Campus has the faculty of Science, the University Press, and a Health Centre that has a 3 Doctors round the clock, a Central School and quarters for Professors and Officers and other staff members and a Guest House. The Eastern part of the campus has 7 Hostels for boys and a hostel for girls. The University provides the facilities for full and proper development of the body and mind.

The entire campus has Wi-Fi coverage making internet facility available round the clock in the Institute and hostels.

Classrooms:-

The Department has well ventilated and well equipped air conditioned classrooms with all modern facilities an audio visual aids like LCD Projectors, P.A. System, Overhead Projectors, etc. that provide the best ambience for teaching and learning activities.

Library:-

The primary repository of learning and knowledge at Department of Physiotherapy is the library with over 1200 books on physiotherapy, medical subjects and related areas beside many newspapers, magazines, national and international periodicals and journals. More books are regularly added. To cultivate values and competitiveness amongst the students, the library has wide arrays of books on social issues, aptitude and attitude building. The air conditioned library provides comfortable environment for prolonged reading sessions. Library attendance is mandatory for students and planned in their academic schedule. To cater for the needs of the students photocopy facilities is also available.

Exercise therapy Lab:-

This lab has various exercise therapy gadgets like shoulder wheel , finger ladder, wall bar, parallel bar, suspension apparatus, Swiss balls, pronation supination board, wrist roller ,hand gym kit board, wrist exerciser, therapy bands, wobble board etc. This lab enables the students to practice the techniques on models before applying them on patients.

EXISTING INFRASTRUCTURE

Electrotherapy Lab:-

This lab has various Electrotherapy equipments like Shortwave Diathermy, Ultrasound, Mechanical traction, Multi stimulators, Paraffin wax bath, Hydro collator packs, infra red lamp, Ultra violet lamp etc for students to practice. The lab is spacious with good student equipment ratio.

Physiology Lab:-

This lab has microscopes, reflex hammers, B.P apparatus Stethoscopes, Spiro meter etc for carrying out the practical's of hematology, respiratory system, cardiovascular system & nervous system.

Anatomy Lab:-

This lab provides the students with state of the art models charts, skeleton & specimens to practice the minute details of anatomy. Lab has ample number of bones for students to observe & practice. The lab is having anatomy museum of human body parts.

Computer Lab:-

The Department has latest computers with good student terminal ratio. All the legal software is provided with internet, scanning, and printing facilities to help the students for their curriculum and projects.

Physiotherapy OPD:-

There is a Physiotherapy OPD for the students. The students initially observe the assessment, diagnosis, and treatment of the patients. Later they carry out the treatment under the guidance of the teachers. This training for the students inculcates in them the ethics and the confidence to deal with patients. The OPD is well equipped with the latest equipments & modalities of Indian and imported varieties.

Medical Facility:-

A well equipped health centre is running in the campus round the clock. In case of any medical problem, the students are given medical aid in the hostel or sent to centre by security personal.

Hostel Facility

Separate hostels for boys & girls in the vicinity of campus with modern mess facilities.

Security Arrangements:-

Whole University campus is guarded by trained security personal. Special arrangements are provided to girls hostels round the clock.

FACULTY STRUCTURE

Our Teaching Staff

- Dr. Anand Priyadarshi
- Dr. Panday Rohit kumar sinha
- Dr. Neeraj Singh Ujjain
- Dr. Purnima Kumari
- Dr. R.Mandira Moorthy
- Dr. M.Anuradha

Visiting Faculty

- Dr. B.P Nalin
- Dr. Manoj Kumar
- Dr. Mahesh Choudhary
- Prof. Jawed Ashraf
- Dr. A.P Sharma
- Dr. B.K Sinha
- Dr. Sarfraz Ali
- Dr. Purushotam Poddar
- Dr. Priyanshu Kumar
- Dr. Santosh
- Dr. Azizur Rab
- Dr. Ganesh
- Dr. Abhay
- Dr. Manoranjan Kumar Singh
- Dr. Birendra choudhary
- Dr. R.K Narayan
- Mr. Umesh Chandra
- Mr. Anirudh
- Dr. Rajesh Kmar
- Dr. B.P Gupta

DURATION OF THE COURSE

Course of Studies at a Glance

The university approved syllabus for the course is on par with that of the best Physiotherapy Department of India.

Bachelor in Physiotherapy

(4 ½ years program including 6 months of rotator internship)

FIRST YEAR (BPT)

SUBJECTS	HOURS
❖ Anatomy	160
❖ Physiology	160
❖ Psychology & Sociology	160
❖ Fundamentals of Biomechanics & Exercise Therapy	120
❖ Principals of bioelectrical modalities	120
❖ Biochemistry	040

SECOND YEAR (BPT)

SUBJECTS	HOURS
❖ Pathology & Microbiology	080
❖ Pharmacology	080
❖ Medicine & Pediatrics	080
❖ General Surgery	160
❖ Electrotherapy	160

THIRD YEAR (BPT)

SUBJECTS	HOURS
❖ Neurology including Psychiatry	080
❖ Orthopedics	080
❖ Obstetrics & Gynecology	040
❖ Applied Biomechanics & Kinesiology	120
❖ Physiotherapeutic in neurology	160
❖ Physiotherapeutic in orthopedics	160

DURATION OF THE COURSE

FOURTH YEAR (BPT)

SUBJECTS	HOURS
❖ Community Rehabilitation & Disability Prevention	080
❖ Research Methodology & Biostatics	080
❖ Physiotherapeutic in General & Cardio thoracic	160
❖ Physiotherapeutic in Sports	160

Total Session Details:

Theory	2520 hours
Practical	2960 hours
Internship	1260 hours
Total curricular	6740 hours

Duration of Course

The department offers four-year Bachelor in Physiotherapy course in line with the guidelines of Indian Association of Physiotherapist. The course is followed by a six-month internship in recognized hospitals.

Examination

University examination will be conducted at the end of the each academic year.

FEE STRUCTURE

Fee Structure:

The fee for the course will be payable at the beginning of each year.

First Year Rupees 56,000/- *

Second year Rupees 50,000/- **

Third Year Rupees 50,000/- **

Fourth Year Rupees 50,000/- **

Note:

*including course fee Rs. 45000 + refundable security deposit Rs. 5000 + examination fee Rs. 3000 + activities fee Rs. 2000 + placement fee Rs. 1000

**includes course fee Rs. 45000 + examination fee Rs. 3000 + activities fee Rs. 2000

All payment will be received by bank draft or banker's cheque in favor of **Director, institute of Physiotherapy** payable at **Bodh Gaya**.

Intake Capacity

There are **40** seats available this year. The reservation policy of the government of India is strictly followed.

Eligibility and selection procedure

The aspiring students (Biology Stream) should have passed 10 + 2 or its equivalent with 45% marks in P.C.B should have passed in English.

Upper Age limit

- General n/a
- OBC n/a
- SC/ST n/a

APPLY FOR ADMISSION

How to apply

The prospectus and application form can be obtained by sending a bank draft of Rs. 850/- drawn in favour of **“Director, Institute Of Physiotherapy”, M.U. Bodh Gaya**

Payable at **Bodh Gaya/ Gaya** Or in cash payment of Rs. 800/- at the institute M.U. Campus.

Or

Download admission form from our website fill the admission form very carefully. Completed admission form in all respects with a bank draft of Rs. 800/- drawn in favour of **“Director, Institute Of Physiotherapy”, M.U. Bodh Gaya** and copies of certificates should be sent directly to the

Director

Department of Physiotherapy

Magadh University

Bodh Gaya – 824 234, (Bihar)

So as to reach on or before the due date notified in the advertisement.

