



**DES'S BRIJLAL JINDAL COLLEGE OF
PHYSIOTHERAPY, PUNE**

Program specific learning outcomes



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FRAMEWORK OF THE CURRICULUM

COURSE DURATION: Four years and Six months of Internship.

I B.P.Th.

- a. Deals with the basic foundation in medical as well as physiotherapy subjects. The foundation of human body structure & function & energy utilization is achieved by studying the subjects Human Anatomy, Physiology, and Biochemistry.
- b. Students knowledge of Physics i.e. –Mechanics, Electricity, Water , Sound & Light is recalled to apply it on human body in understanding movements and the various physiotherapeutic modalities under the subject of Fundamentals of Electrotherapy & Fundamentals of Kinesiology & Kinesiotherapy.

II B.P.Th.

- a. Deals with understanding of altered physiology by studying pathology & Microbiology.
- b. The students get oriented to various Pharmacotherapeutic agents used along with their effects by studying Pharmacology.
- c. The students will study about normal and altered human mind & behavior by studying Psychology & Psychiatry. They will also learn skills required for effective communication with the patients and care givers.
- d. Students will acquire the knowledge of Biomechanics as applicable to human body in the context of Kinetics & kinematics of Joints, Movements & Daily activities under subject of Kinesiology and shall acquire knowledge and learn various physiotherapeutic skills on models in subject of Kinesiotherapy.
- e. In the subject of Electrotherapeutics, students will acquire knowledge and learn application & uses of various electrotherapeutic modalities on models.

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III B.P.Th.

- a. Students acquire knowledge of all the clinical subjects like Orthopaedics, General Surgery, Medicine, Neurology, Paediatrics, Dermatology & Gynecology & Obstetrics, Community Medicine and Sociology.
- b. Students will acquire knowledge about the principles of International Classification of Functioning (I.C.F.) and its applicability in context to movement dysfunctions.
- c. Students will learn the physiotherapeutic evaluation skills including electrodiagnosis on patients to arrive at a Functional/Physical Diagnosis in Neuromuscular, Cardiovascular & Respiratory dysfunction. They will also acquire knowledge of various specialized manual therapy and neurodevelopmental techniques and practice these skills on models under the subject of functional diagnosis and physiotherapeutic skills.

IV B.P.Th.

- a. Students will revise, recall and integrate the knowledge of previous years to evaluate, functionally diagnose, plan and execute short and long term management of various musculoskeletal, neurological & cardiovascular-respiratory dysfunctions in hospital and community settings.
- b. Students also acquire knowledge pertaining to health promotion & disease prevention throughout lifespan in the community. They will also be able to analyse, prevent and treat problems associated with various industries in community physiotherapy.
- c. Students will also acquire knowledge about biomechanical principles & application of variety of aids & appliances used for ambulation, protection & prevention by studying Bioengineering.
- d. Professional Practice and ethics as a subject will be studied in continuum from first year, so students will acquire the knowledge of ethical code of professional practice, as well as its moral & legal aspects. The principles of Hospital Administration, Management & Marketing will be studied separately.
- e. Students will also acquire knowledge of Research Methodology and Biostatistics and apply the knowledge in project work in community physiotherapy.

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INTERNSHIP

- a. A period of 6 months (26 weeks) of continuous clinical practice to enhance the clinical reasoning, judgment, programme planning, intervention, evaluation of intervention, follow up and referral skills of all the dysfunctions and impairments learnt throughout the curriculum of four years.
- b. Those candidates declared to have passed the final year examination in all subjects shall be eligible for internship.
- c. Internship shall be done in a teaching hospital recognized by the University. A degree certificate shall be awarded ONLY on successful completion of six months of internship.
- d. The Internship will be rotatory and shall cover clinical branches concerned with Physiotherapy such as Orthopaedics, Cardiovascular & Respiratory including ICU, Neurology & Neurosurgery Paediatrics, General Medicine, Surgery, Obstetrics and Gynecology both inpatient and outpatient services.
- e. Successful Completion: The student must maintain a logbook. On completion of each posting, the same will have to be certified by the faculty in charge of the posting for both attendance as well as work done. On completion of all the postings, the duly completed logbook will be submitted to the Principal/Head of program to be considered as having successfully completed the internship program.

MPT

Aim

The Master of Physiotherapy (specialty) Programme is directed towards rendering training in Specialty Clinical fields to enhance professional competence in order to fulfill requirement for Physiotherapy Education and Practice.

Specialties offered:

1. Musculoskeletal Physiotherapy
2. Neurophysiotherapy
3. Cardiovascular and Respiratory Physiotherapy
4. Community Physiotherapy

Duration:

Master of Physiotherapy (specialty) shall be a full time course with duration of three academic years.

Goal of the M.P.Th (Specialty) Programme:

The goal of training of post-graduate candidate in the respective specialty is to enable him / her to function as a consultant in the respective physiotherapy specialty. This requires a thorough

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knowledge of the fundamental and recent advances. He/she should be able to make logical / clinical decisions regarding patient management & adopt interventions of choice independently. During this period, he/she will be expected to acquire skills in teaching technology & gain experience in research

methodology. He/she should practice Physiotherapy in respective Specialty, maintaining the highest regards for ethical aspects.

The programme shall focus on clinical reasoning, problem solving and measurement of treatment outcome, emphasizing on the recent diagnostic & therapeutic trends in the concerned specialty. On successful completion of M.P.Th. programme, the Physiotherapist professional will be able to take up teaching assignments independently for undergraduate teaching programme. He / She will be able to prepare project proposal with selected research design and interpret the evaluated outcome measures (using sound data processing techniques and statistical methods). She will be able to practice in his / her specialty area with advanced knowledge and skills.

Objectives of the Programme: -

At the end of the course, the candidate shall be able to:

- Acquire in-depth knowledge of structure and function of human body related to the respective branch of specialty.
- Acquire the in-depth knowledge of movement dysfunction of human body, cause thereof, & of principles underlying the use of physiotherapeutic interventions, for restoring movement dysfunction towards normalcy.
- Demonstrate ability to critically appraise recent physiotherapeutic and related literature from journals & adopt diagnostic & therapeutic procedures based on it.
- Demonstrate skill in Physical & Functional diagnosis pertaining to patient under care.
- Demonstrate ability to make clinical decision (based on evaluation) regarding Physiotherapy strategy techniques and select appropriate outcome measures based on the comprehensive knowledge of specialty.
- Demonstrate an expertise in evidence-based skill in the management disorders including movement dysfunction in concerned specialty.
- Demonstrate an expertise in health promotion, early identification and intervention for quality restoration of function.
- Planning and implementation of treatment programme adequately and appropriately for all clinical conditions common as well as rare related to respective specialty in acute and chronic stage, in intensive care, indoor, outdoor and institutional care, independent practice, on fields of sports and community and during disaster situations.
- Demonstrate proficiency in creating awareness using newer technology, at various levels in community for healthcare & professional awareness.
- Demonstrate proficiency in planning and executing Physiotherapy services.
- Demonstrate leadership, managerial, administrative & communication skills.

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- Demonstrate the knowledge of legislation applicable to compensation for functional disability, welfare schemes & rights of the disabled, laws related to industrial workers & disabled & appropriate certification.
- Demonstrate proficiency in classroom and clinical teaching using newer and appropriate technology.
- Demonstrate proficiency in conducting a professional scientific research, documentations & presentations at various levels.

A. Dhale

PRINCIPAL

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