



**BHARATI VIDYAPEETH**  
(Deemed to be University)  
**SCHOOL OF PHYSIOTHERAPY**

Pune- Satara Road, Dhankawadi, Pune 411043

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**FYBPTTh Course Outcomes**

**1. Human Anatomy:**

- Understand the structure and organization of the human body, including major organs, systems, and anatomical regions.
- Identify and describe the different anatomical structures, such as bones, muscles, nerves, blood vessels, fascia, ligaments and joints.
- Demonstrate knowledge of anatomical terminology and its application.
- Develop skills in anatomical dissection, visualization, and identification of anatomical structures.
- Relate anatomical knowledge to clinical applications in physiotherapy practice.

**2. Human Physiology:**

- Understand the normal functioning of the human body and its various systems.
- Describe the physiological processes involved in different bodily functions, such as Cellular morphology, Composition of blood, cardiovascular, respiratory, musculoskeletal, digestive, endocrine, excretory, nervous systems and exercise physiology.
- Explain the mechanisms of homeostasis and the regulation of physiological processes.
- Understand the integration and coordination of different organ systems in maintaining overall health and function.
- Relate physiological principles to clinical scenarios and their relevance to physiotherapy interventions.

**3. Biochemistry:**

- Understand the basic principles and concepts of biochemistry.
- Describe the structure and function of biomolecules, such as proteins, carbohydrates, lipids, nucleic acids, minerals and vitamins.
- Explain the biochemical pathways involved in energy production, metabolism, and cellular processes.
- Understand the role of enzymes and their regulation in biochemical reactions.
- Relate biochemistry to physiological processes and their implications for health and disease.
- Understand the biochemical markers for diagnosis of various diseases and conditions.

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#### **4. Fundamentals of Kinesiology & Kinesiotherapy:**

- Understand the principles and concepts of kinesiology, which involves the study of human movement.
- Understand the principles of human movement and biomechanics. .
- Understand the principles and concepts of joint kinematics and kinetics to assess and explain movements.
- Demonstrate knowledge of anatomical structures, joint mechanics, and musculoskeletal function related to movement.
- Apply the principles of biomechanics to analyse human movement & posture
- Identify and describe different types of movements, muscle actions, and joint actions.
- Analyze and evaluate complex movements and postures using advanced kinesiological concepts.
- Relate the understanding of kinesiology to the assessment and treatment of movement-related dysfunctions in physiotherapy practice.

#### **5. Fundamentals of Electrotherapy:**

- Understand the principles and production of electrotherapy modalities in physiotherapy practice.
- Understand the physiological and therapeutic effects of electrotherapy modalities like high frequency, medium and low frequency modalities and actinotherapy.
- Explain physiological, therapeutic effects, indications, contraindications application of superficial thermal agents.
- Develop skills in the safe and effective use of electrotherapy modalities for pain management, tissue healing, and rehabilitation purposes.





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**II BPTb**  
**COURSE OUTCOME**

**1. Kinesiology:**

- Understand the principles of human movement and biomechanics in greater depth.
- Analyse and evaluate complex movements and postures using advanced kinesiology concepts.
- Apply knowledge of joint kinematics and kinetics to assess and explain movement impairments.
- Utilize kinesiology principles to develop appropriate treatment plans for movement dysfunctions.
- Demonstrate advanced skills in functional assessment and movement analysis.

**2. Kinesiotherapy:**

- Understand the principles and applications of Kinesiotherapy in physiotherapy practice.
- Demonstrate proficiency in instructing and guiding patients in correct exercise techniques.
- Apply appropriate therapeutic exercises to improve strength, flexibility, coordination, and functional mobility.
- Demonstrate knowledge of different therapeutic exercises and techniques used in Kinesiotherapy.
- Expand knowledge of therapeutic exercises and techniques used in Kinesiotherapy.
- Apply evidence-based practices in Kinesiotherapy to promote functional recovery and rehabilitation.

**3. Electrotherapy:**

- Develop an in-depth understanding of different electrotherapy modalities and their physiological effects.
- Evaluate and select appropriate electrotherapy modalities based on patient assessment and treatment goals.
- Safely and effectively administer electrotherapy modalities while considering contraindications and precautions.
- Monitor patients' responses to electrotherapy interventions and adjust parameters as needed.

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- Integrate electrotherapy with other treatment modalities to optimize patient outcomes.

#### **4. Pharmacology:**

- Understand the basic principles of pharmacology, including drug classifications, mechanisms of action, and pharmacokinetics.
- Identify commonly used drugs relevant to physiotherapy practice and their indications, contraindications, and adverse effects.
- Apply pharmacological knowledge to assess and manage pain, inflammation, and other relevant conditions encountered in physiotherapy practice.
- Recognize potential drug interactions and their implications for physiotherapy interventions.
- Demonstrate an understanding of the role of pharmacotherapy in the broader context of patient care and interdisciplinary collaboration.

#### **5. Pathology:**

- Develop knowledge of the general principles of pathology, including cellular responses to injury, inflammation, and tissue repair.
- Identify and describe the pathophysiological processes associated with various diseases and conditions.
- Understand the pathological basis of common musculoskeletal, cardiovascular, respiratory, and neurological disorders.
- Apply pathological knowledge to interpret diagnostic tests and imaging reports relevant to physiotherapy practice.
- Relate pathophysiological mechanisms to the selection and adaptation of physiotherapy interventions.

#### **6. Microbiology:**

- Understand the fundamental concepts of microbiology, including the classification, morphology, and physiology of microorganisms.
- Identify common pathogenic microorganisms and their associated diseases.
- Explain the modes of transmission, prevention, and control of infectious diseases.
- Apply knowledge of microbiology to implement infection control measures in physiotherapy practice.
- Recognize the importance of microbiological considerations in wound care, hygiene, and patient management.

#### **7. Psychology:**

- Understand the basic principles and theories of psychology and their application in healthcare settings.
- Recognize and describe psychological factors influencing patient behaviour, motivation, and adherence to treatment.
- Apply communication and interpersonal skills to effectively interact with peers, considering their psychological and emotional needs.



- Identify and employ strategies for patient education, counselling, and behaviour modification to facilitate optimal treatment outcomes.

#### **8. Environmental Sciences:**

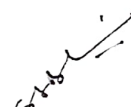
- Develop an understanding of environmental factors that can impact health and well-being.
- Identify and evaluate environmental hazards and their effects on human health.
- Apply principles of environmental sustainability and occupational health in physiotherapy practice.
- Recognize and address the impact of environmental factors on rehabilitation, patient safety, and accessibility.
- Demonstrate awareness of environmental legislation and policies relevant to healthcare settings.

#### **9. Computer Application:**

- Develop proficiency in using computer software and applications relevant to physiotherapy practice.
- Utilize computer technology to retrieve, manage, and analyse health-related data and information.
- Demonstrate competence in electronic medical record keeping, documentation, and information security.
- Apply computer applications for data visualization, research, and evidence-based practice in physiotherapy.
- Understand and adhere to ethical and legal considerations related to the use of computer technology in healthcare.

#### **10. ETHICS**

- Understand Concepts of morality, Ethics & Legality-rules of professional conduct & their Medico-legal & moral implications-The need of Council Act for Physiotherapy.
- Acquire knowledge of Functioning of the World Confederation of Physical therapy [W.C.P.T.] & its various branches-Special Interest groups.
- Apply rules of professional conduct, medico legal and moral implications while acquiring knowledge of patient handling.

  
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