



## Program Outcomes

At the completion of this course, the student should be –

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PO1.	<b><u>Physiotherapy equipment used in treatment –</u></b> Able to operate and maintain physiotherapy equipment used in treatment of patient, physiotherapy treatment planning (both electrotherapy and exercise therapy) & procedures independently.
PO2.	<b><u>Multidisciplinary Skill's-</u></b> The purpose of this curriculum is to delineate the cognitive, affective and psychomotor skills deemed essential for completion of this program and to perform as a competent physiotherapist who will be able to examine, evaluate, diagnose, plan, execute and document physiotherapy treatment independently or along with the multidisciplinary team.
PO3.	<b><u>Impairments and functional limitations-</u></b> Evaluate patients for impairments and functional limitations and able to execute all routine physiotherapeutic procedures as per the evaluation.
PO4.	<b><u>Physiotherapeutic interventions-</u></b> Able to provide patient education about various physiotherapeutic interventions to the patient and care givers.
PO5.	<b><u>Promotion and improvement of CBR-</u></b> The graduate will function as an active member of professional and community organizations. The graduate will be a service-oriented advocate dedicated to the promotion and improvement of community health.
PO6.	<b><u>Evidence based practice-</u></b> The graduate will utilize critical inquiry and evidence based practice to make clinical decisions essential for autonomous practice.
PO7.	<b><u>Professional Skill's development-</u></b> The graduate will demonstrate lifelong commitment to learning and professional development
PO8.	<b><u>Individual and team work:</u></b> Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.
PO9	<b><u>Communication:</u></b> Communicate effectively with the e community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.
PO10	<b><u>Project management and finance:</u></b> Demonstrate knowledge and understanding and management principles and apply these to one's own work, as a member and leader in a team. Manage projects in multidisciplinary environments.
PO11	<b><u>Life-long learning:</u></b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.







**Mewar university**  
**B.P.T**

### **PROGRAM SPECIFIC OUTCOMES OF BPT**

**PSO-1:** Develop the ability to collect history, perform relevant clinical assessment and frame appropriate electrotherapeutic and exercise therapy management for the patients.

**PSO-2:** Demonstrate clinical decision making ability and provide appropriate patient care.

**PSO-3:** Able to counsel the patients, family, colleagues and students regarding all necessary aspects of physiotherapy treatment protocol.

**PSO-4:** Promote health education and improved quality of life through socially accepted and ethical practice of the profession.

**PSO-5:** Work effectively in various inter professional collaborative settings like hospitals, Rehabilitation Centers, Special Schools, Health and Fitness Centers, Geriatric Centers, Ergonomic Consultant in different Sectors, such as corporate, Private Consultation, Home Care Services, Industrial Sectors, Sports Injuries management.

*Signature*





**Mewar university**  
**B.P.T**

## **Course Outcomes**

### **FIRSTYEAR**

#### **Course -Anatomy: BPT-101**

**CO-1:** Identify and describe the anatomical structures and systems of the human body, including skeletal, muscular, nervous, cardiovascular, respiratory, digestive, urinary, and reproductive systems.

**CO-2:** Explain the interrelationships between anatomical structures and their physiological functions, demonstrating an understanding of how the body systems work together to maintain homeostasis.

**CO-3:** Apply knowledge of human anatomy to analyze and interpret clinical cases, radiographic images, and diagnostic tests in order to identify anatomical abnormalities and their potential impact on overall health.

**CO-4:** Demonstrate proficiency in anatomical terminology, including accurate labeling and description of anatomical structures, both in written and oral communication.

**CO-5:** Apply ethical principles and professional standards when working with human anatomical specimens, respecting the dignity and integrity of the deceased donors and adhering to proper protocols for handling and dissecting cadavers in a laboratory setting.

#### **Course -Anatomy Practical**

**CO-1:** Identify and describe the anatomical structures of the human body accurately.

**CO-2:** Demonstrate proficiency in performing basic anatomical dissections and examinations.

**CO-3:** Analyze the interrelationships between anatomical structures and their functions in various body systems.

**CO-4:** Apply knowledge of human anatomy to interpret and analyze clinical cases and medical imaging.

**CO-5:** Demonstrate effective communication skills in presenting anatomical information and findings during practical examinations or discussions.

*Amber*







## **Mewar university B.P.T**

### **Course-Exercise therapy-1 BPT-102**

**CO-1:** Apply knowledge of human anatomy, physiology, and biomechanics to assess and analyze the functional limitations of patients in need of exercise therapy.

**CO-2:** Demonstrate competence in selecting and implementing appropriate therapeutic exercises and modalities to improve the physical functioning and overall health of patients.

**CO-3:** Evaluate the progress and outcomes of exercise therapy interventions through the use of standardized assessments, measurements, and documentation techniques.

**CO-4:** Incorporate principles of patient education and counseling to effectively communicate exercise prescriptions, safety precautions, and lifestyle modifications to individuals undergoing exercise therapy.

**CO-5:** Collaborate with healthcare professionals and participate in interprofessional teams to provide comprehensive care, make informed decisions, and contribute to the development of exercise therapy plans tailored to the specific needs and goals of patients.

### **Course -Exercise practical**

**CO-1:** Demonstrate proficiency in conducting assessments and evaluations of patients' physical fitness levels and functional abilities in the context of exercise therapy.

**CO-2:** Apply appropriate exercise techniques and modalities to improve patients' range of motion, muscle strength, endurance, and flexibility.

**CO-3:** Design and implement individualized exercise programs based on patients' specific needs, considering their medical history, current condition, and rehabilitation goals.

**CO-4:** Monitor and evaluate patients' progress during exercise therapy sessions, making necessary adjustments to the program to ensure optimal outcomes.

**CO-5:** Demonstrate effective communication and interpersonal skills while working with patients, providing guidance, motivation, and support to promote adherence to exercise therapy programs and overall wellness.



*Signature*





## **Mewar university B.P.T**

### **Course- Electrotherapy-I Code: BPT-103**

**CO-1:** Identify the fundamental principles of electrotherapy and its application in physiotherapy.

**CO-2:** Demonstrate knowledge of various electrotherapy modalities and their physiological effects on the human body.

**CO-3:** Apply appropriate electrotherapy techniques for pain management and tissue healing.

**CO-4:** Evaluate the indications, contraindications, and safety precautions associated with electrotherapy interventions.

**CO-5:** Design and implement electrotherapy treatment plans based on the assessment of patient needs and desired therapeutic outcomes.

### **Course-Electrotherapy--I practical**

**CO-1:** Apply appropriate electrotherapy techniques: Students will demonstrate the ability to select and apply suitable electrotherapy techniques based on the assessment of a patient's condition, considering factors such as the type of injury, patient comfort, and treatment goals.

**CO-2:** Operate electrotherapy equipment effectively: Students will develop proficiency in operating various electrotherapy equipment, including ultrasound machines, electrical stimulation devices, and heat therapy modalities, ensuring accurate settings and optimal treatment delivery.

**CO-3:** Assess patient response to electrotherapy interventions: Students will learn to evaluate and interpret a patient's response to electrotherapy interventions, including monitoring physiological changes, assessing pain levels, and determining treatment efficacy. They will use this feedback to modify and adjust treatment plans as needed.

**CO-4:** Ensure patient safety during electrotherapy sessions: Students will prioritize patient safety during electrotherapy sessions by implementing appropriate precautions, such as proper electrode placement, monitoring vital signs, and adhering to infection control protocols. They will also identify and respond to any adverse reactions or contraindications promptly.

**CO-5:** Communicate effectively with patients and healthcare professionals: Students will develop effective communication skills to explain electrotherapy procedures to patients, address their concerns, and obtain informed consent. They will also collaborate with other healthcare professionals, providing accurate documentation and sharing relevant information for interdisciplinary patient care.

*Dr. Suman*







## **Mewar university B.P.T**

### **Course-Human Physiology: BPT-104**

**CO-1:** Explain the fundamental principles and concepts of human physiology, including the organization and function of different organ systems.

**CO-2:** Analyze the physiological processes involved in maintaining homeostasis within the human body.

**CO-3:** Apply knowledge of human physiology to identify and analyze abnormalities or dysfunctions in physiological processes.

**CO-4:** Evaluate the impact of lifestyle factors, environmental influences, and diseases on human physiology.

**CO-5:** Demonstrate the ability to critically evaluate scientific research and literature related to human physiology, and effectively communicate physiological concepts to diverse audiences.

### **Course-Human physiology Practical**

**CO-1:** Apply knowledge of human physiology concepts to perform accurate and reliable physiological measurements and experiments.

**CO-2:** Demonstrate proficiency in using laboratory equipment and techniques to collect, analyze, and interpret physiological data.

**CO-3:** Apply ethical principles and safety guidelines while conducting human physiology experiments to ensure the well-being of participants and maintain laboratory integrity.

**CO-4:** Develop skills in accurately recording and documenting experimental procedures, observations, and results in a scientific manner.

**CO-5:** Analyze and critically evaluate physiological data to draw meaningful conclusions and effectively communicate experimental findings through oral and written reports.



*Dr. Senthil*



**Course: Basic physiotherapy BPT-105**

**CO-1:** Apply fundamental knowledge of anatomy, physiology, and biomechanics to assess and analyze the physical conditions of patients in a basic physiotherapy setting.

**CO-2:** Demonstrate proficiency in employing various manual therapy techniques, therapeutic exercises, and modalities for pain management and functional improvement in patients.

**CO-3:** Develop effective communication and interpersonal skills to establish rapport with patients, their families, and other healthcare professionals, while maintaining ethical standards and confidentiality.

**CO-4:** Utilize critical thinking and problem-solving abilities to design appropriate treatment plans, monitor patient progress, and modify interventions as necessary.

**CO-5:** Exhibit an understanding of the principles of patient education and provide clear instructions regarding home exercise programs and preventive measures to promote overall health and well-being.

*Dr. Seema*





**Course: Basic Nursing & computer application BPT-106**

**CO-1:** Demonstrate a comprehensive understanding of the fundamental concepts and principles of basic nursing, including patient care, safety protocols, and infection control measures.

**CO-2:** Apply computer application skills to efficiently manage and organize patient data, perform basic data analysis, and utilize appropriate software tools in a healthcare setting.

**CO-3:** Communicate effectively and professionally with patients, their families, and healthcare team members using appropriate verbal and non-verbal communication techniques.

**CO-4:** Demonstrate critical thinking and problem-solving abilities in nursing practice, incorporating computer applications to enhance decision-making and improve patient outcomes.

**CO-5:** Exhibit ethical and legal awareness in the use of computer applications and maintain confidentiality of patient information while adhering to professional and ethical standards in nursing practice.

**Course -Computer application BPT 106**

**CO-1:** Demonstrate proficiency in using computer applications for various tasks.

**CO-2:** Analyze and evaluate data using spreadsheet applications for effective decision-making.

**CO-3:** Create and deliver multimedia presentations using appropriate software tools.

**CO-4:** Apply programming concepts to develop simple applications and automate routine tasks.

**CO-5:** Utilize database management systems to organize and retrieve information efficiently.



**Course- Biochemistry: BPT-107**

**CO-1:** Apply the fundamental principles of biochemistry to analyze the structure, function, and metabolism of biomolecules.

**CO-2:** Demonstrate a comprehensive understanding of various biochemical pathways and their regulation in physiological and pathological conditions.

**CO-3:** Evaluate the role of enzymes and their kinetics in biochemical reactions, and apply enzymatic concepts to solve practical problems.

**CO-4:** Apply biochemical techniques and instrumentation to isolate, purify, and analyze biomolecules, including nucleic acids, proteins, and carbohydrates.

**CO-5:** Interpret and critically analyze scientific literature in biochemistry, and effectively communicate biochemical concepts and findings through oral and written presentations.

*Anshu*





**Course- English Language && General Awareness-I ELGA-108**

**CO-1:** Demonstrate proficiency in the English language by effectively communicating in spoken and written forms.

**CO-2:** Develop a broad understanding of grammar, vocabulary, and sentence structure to enhance language skills.

**CO-3:** Acquire knowledge and understanding of diverse cultural, social, and historical aspects through the study of English literature and general awareness topics.

**CO-4:** Develop critical thinking skills to analyze and evaluate information from various sources, fostering a well-informed perspective on global issues.

**CO-5:** Apply effective communication strategies and techniques in professional and social contexts, including presentations, debates, and discussions, to engage with others confidently.



SECONDYEAR

Course-Psychology & sociology BPT-201

**CO-1:** Analyze and evaluate psychological and sociological theories and concepts relevant to human behavior and social interactions.

**CO-2:** Apply principles of psychology and sociology to understand and assess the impact of social factors on individual and group behavior in healthcare settings.

**CO-3:** Demonstrate an understanding of the ethical considerations and cultural diversity in the context of psychology and sociology and their implications for patient care.

**CO-4:** Utilize appropriate research methods and tools to collect, analyze, and interpret data related to psychological and sociological aspects of healthcare.

**CO-5:** Develop effective communication and interpersonal skills to establish rapport with patients, families, and healthcare professionals, considering the psychological and social dimensions of healthcare delivery.



### Course- Exercise therapy –IIND BPT-202

**CO-1:** Assess and diagnose musculoskeletal conditions: Students will be able to perform a comprehensive assessment of musculoskeletal conditions in order to accurately diagnose and evaluate patients' physical limitations and impairments.

**CO-2:** Design and implement individualized exercise programs: Students will be able to design and implement exercise programs tailored to the specific needs of patients, considering their musculoskeletal conditions, fitness levels, and rehabilitation goals.

**CO-3:** Apply evidence-based techniques in exercise therapy: Students will demonstrate an understanding of evidence-based practice and apply relevant research findings to inform their exercise therapy interventions, ensuring the use of effective and safe techniques.

**CO-4:** Monitor progress and modify exercise programs: Students will be able to regularly monitor patients' progress during exercise therapy sessions, make necessary modifications to their programs based on the assessment of patient response, and effectively communicate these modifications to patients and other healthcare professionals involved in the care.

**CO-5:** Provide education and advice on exercise and injury prevention: Students will develop the skills to educate patients on the importance of exercise, provide guidance on injury prevention strategies, and promote a healthy lifestyle to optimize overall physical well-being.

### Course- Exercise therapy -2 Practical

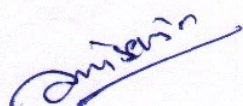
**CO-1:** Apply appropriate techniques of exercise therapy to improve the functional abilities of patients.

**CO-2:** Demonstrate proficiency in the assessment and evaluation of patients' physical conditions to develop personalized exercise therapy plans.

**CO-3:** Implement safe and effective exercise protocols to prevent injuries and promote rehabilitation in patients.

**CO-4:** Analyze and interpret the progress of patients during exercise therapy sessions to make informed adjustments and modifications to treatment plans.

**CO-5:** Collaborate with healthcare professionals and effectively communicate exercise therapy concepts and recommendations to patients and their families, ensuring comprehensive care and understanding of treatment goals.





### **Course-Bio mechanics & kinesiologyBPT-203**

**CO-1:** Apply principles of biomechanics and kinesiology to analyze and evaluate human movement patterns.

**CO-2:** Demonstrate an understanding of the musculoskeletal system and its role in human motion and physical performance.

**CO-3:** Utilize appropriate tools and techniques to measure and assess movement variables, such as force, torque, range of motion, and muscle activation.

**CO-4:** Apply biomechanical and kinesiological principles to design and implement effective rehabilitation and exercise programs for individuals with musculoskeletal impairments or injuries.

**CO-5:** Critically analyze and interpret research studies in the field of biomechanics and kinesiology to inform evidence-based practice in physical therapy.

### **Course-Bio mechanics & kinesiology Practical**

**CO-1:** Demonstrate an understanding of the principles and concepts of biomechanics and kinesiology in relation to human movement.

**CO-2:** Apply theoretical knowledge of biomechanics and kinesiology to analyze and assess human movement patterns and postures.

**CO-3:** Utilize appropriate techniques and instrumentation to measure and evaluate various biomechanical parameters during functional activities.

**CO-4:** Design and implement exercise interventions based on biomechanical and kinesiological principles to improve performance and prevent injuries.

**CO-5:** Communicate effectively and professionally, both orally and in written form, regarding biomechanical and kinesiological concepts, assessments, and interventions.



### **Course- Electrotherapy II: BPT-204**

**CO-1:** Apply theoretical knowledge of electrotherapy principles and techniques to assess and treat patients with musculoskeletal and neurological disorders.

**CO-2:** Demonstrate proficiency in the operation and utilization of electrotherapy equipment and devices for therapeutic interventions.

**CO-3:** Analyze and evaluate patient conditions to select appropriate electrotherapy modalities and parameters for effective treatment outcomes.

**CO-4:** Demonstrate effective communication skills in educating patients about electrotherapy procedures, their benefits, and potential risks.

**CO-5:** Apply critical thinking and problem-solving skills to assess patient responses, modify treatment plans, and ensure optimal outcomes in electrotherapy interventions.

### **Course- Electrotherapy II Practical**

**CO-1:** Demonstrate proficiency in the application of various electrotherapy modalities.

**CO-2:** Analyze patient conditions and develop appropriate electrotherapy treatment plans.

**CO-3:** Apply critical thinking skills to assess the effectiveness of electrotherapy interventions.

**CO-4:** Utilize proper safety protocols and ethical considerations when administering electrotherapy treatments.

**CO-5:** Effectively communicate with patients and healthcare professionals about electrotherapy procedures, outcomes, and potential risks.



**Course- Pharmacology BPT-205**

**CO-1:** Identify and comprehend the basic principles and concepts of pharmacology, including drug classifications, mechanisms of action, and pharmacokinetics.

**CO-2:** Analyze the pharmacological effects of various drugs on the human body, including their therapeutic uses and potential adverse reactions.

**CO-3:** Apply the principles of pharmacology to make informed decisions regarding drug selection, dosage calculation, and administration routes in the context of physical therapy interventions.

**CO-4:** Evaluate the interactions between different drugs, as well as drug interactions with various physiological and pathological conditions, to ensure safe and effective patient care.

**CO-5:** Demonstrate ethical and professional behavior in the practice of pharmacology, adhering to legal and regulatory standards while maintaining patient confidentiality and promoting patient education regarding medication management.



### **Course - Pathology & Microbiology BPT-206**

**CO-1:** Demonstrate knowledge of the fundamental concepts and principles of microbiology and pathology.

**CO-2:** Analyze the role of microorganisms in causing diseases and understand the pathological processes involved.

**CO-3:** Apply appropriate laboratory techniques to identify and analyze microorganisms and pathological specimens.

**CO-4:** Evaluate the impact of microbial infections and pathological conditions on the human body, considering factors such as symptoms, complications, and treatment options.

**CO-5:** Develop effective strategies for preventing and controlling the spread of infections, and understand the significance of immunology in managing microbial diseases.

### **Course- English Language & General Awareness-II ELGA-207**

**CO-1:** Demonstrate effective written and oral communication skills in the English language.

**CO-2:** Analyze and interpret a variety of texts, including literary, academic, and informational materials.

**CO-3:** Acquire knowledge and understanding of diverse cultural, historical, and social issues through the study of English language and general awareness.

**CO-4:** Apply critical thinking and problem-solving skills to evaluate information, make informed judgments, and articulate viewpoints.

**CO-5:** Demonstrate awareness of current events and global issues, and engage in discussions on topics related to general awareness. ng & understanding.



*Anten*



## PT – CLINICALOBSERVATION\*

**CO-1:** Recognize and describe the physical signs and symptoms commonly observed in patients during clinical examination.

**CO-2:** Apply appropriate techniques to accurately measure and record vital signs, such as blood pressure, heart rate, respiratory rate, and temperature, during patient observation.

**CO-3:** Analyze and interpret patient behavior, communication, and non-verbal cues to gather relevant information for clinical decision-making.

**CO-4:** Demonstrate the ability to observe and assess patients' range of motion, muscle strength, and functional abilities to assist in the development of appropriate treatment plans.

**CO-5:** Document accurate and concise observations of patients' conditions, progress, and responses to interventions using appropriate medical terminology and formats.

## EXAMINATION

\*There will be no university examination.

*D. Singh*





### THIRDYEAR

#### Course- Clinical Orthopedic BPT-301

**CO-1:** Identify and analyze common musculoskeletal conditions and disorders, demonstrating a comprehensive understanding of their etiology, pathology, and clinical manifestations.

**CO-2:** Apply appropriate diagnostic techniques and procedures to evaluate orthopedic conditions, utilizing various imaging modalities, clinical assessments, and patient history to formulate an accurate diagnosis.

**CO-3:** Design and implement effective treatment plans for orthopedic patients, incorporating evidence-based therapeutic interventions, manual techniques, and rehabilitation protocols to promote optimal recovery and functional outcomes.

**CO-4:** Demonstrate proficiency in the application of orthopedic surgical techniques, including pre-operative planning, intra-operative procedures, and post-operative management, ensuring patient safety and successful surgical outcomes.

**CO-5:** Evaluate and apply principles of orthotics and prosthetics, selecting and customizing appropriate orthotic devices and prostheses for patients with musculoskeletal impairments, and providing necessary education and support for their effective use.

#### Course- Clinical Neurology & Psychiatry BPT-302

**CO-1:** Apply knowledge of clinical neurology and psychiatry to assess and diagnose neurological and psychiatric conditions in patients.

**CO-2:** Demonstrate proficiency in conducting a comprehensive neurological and psychiatric examination, including history-taking, physical examination, and relevant diagnostic tests.

**CO-3:** Develop treatment plans for patients with neurological and psychiatric disorders, incorporating evidence-based interventions and considering individual patient needs.

**CO-4:** Evaluate the effectiveness of various therapeutic modalities used in the management of neurological and psychiatric conditions, and make appropriate modifications when necessary.

**CO-5:** Demonstrate an understanding of ethical and legal considerations in the practice of clinical neurology and psychiatry, and apply professional guidelines and standards to ensure patient safety and confidentiality.



**Course - General Medicine, Pediatrics: BPT-303**

**CO-1:** Apply comprehensive knowledge of general medicine principles to diagnose and manage common medical conditions in patients across different age groups.

**CO-2:** Evaluate the physical, emotional, and developmental aspects of children to provide appropriate medical care and treatment in the field of pediatrics.

**CO-3:** Demonstrate proficiency in conducting thorough medical examinations, interpreting diagnostic tests, and formulating accurate diagnoses for patients in general medicine and pediatrics.

**CO-4:** Develop effective communication and interpersonal skills to establish rapport with patients, families, and healthcare professionals, fostering a patient-centered approach in the practice of general medicine and pediatrics.

**CO-5:** Apply ethical and professional standards in medical decision-making, adhering to legal regulations and guidelines while providing compassionate and culturally sensitive care to diverse populations in general medicine and pediatrics.

**Course - General Surgery (includes cardio thoracic, vascular & Neurosurgery, obst& gynae, E.N.T & Ophthalmology BPT-304**

**CO-1:** Demonstrate a comprehensive understanding of the principles, theories, and techniques of general surgery, including cardio-thoracic, vascular & neurosurgery, obstetrics & gynecology, ENT, and ophthalmology.

**CO-2:** Apply critical thinking and problem-solving skills to assess, diagnose, and treat various surgical conditions in patients across different age groups and populations.

**CO-3:** Perform surgical procedures safely and effectively, following established protocols and utilizing appropriate surgical instruments, equipment, and technologies.

**CO-4:** Communicate and collaborate effectively with interdisciplinary healthcare teams, patients, and their families to provide comprehensive and patient-centered surgical care.

**CO-5:** Demonstrate professionalism, ethical behavior, and a commitment to lifelong learning and professional development in the field of general surgery, staying updated with current research and advancements in surgical techniques and practices.



*Amisat*



### **Course - Community Rehabilitation & Disability Prevention BPT-305**

**CO-1:** Apply knowledge of community rehabilitation and disability prevention principles to assess the needs of individuals with disabilities and develop appropriate intervention plans.

**CO-2:** Demonstrate competence in using various assessment tools and techniques to evaluate the functional abilities and limitations of individuals with disabilities.

**CO-3:** Design and implement community-based rehabilitation programs that promote social inclusion and enhance the quality of life for individuals with disabilities.

**CO-4:** Collaborate effectively with multidisciplinary teams and community stakeholders to facilitate the integration of individuals with disabilities into society.

**CO-5:** Advocate for the rights and inclusion of individuals with disabilities by promoting awareness, education, and policy development at the community level.

### **Course- English Language && General Awareness-III ELGA-306**

**CO-1:** Demonstrate proficient communication skills in the English language, both written and spoken, to effectively convey ideas, opinions, and information.

**CO-2:** Develop an understanding of various literary genres, literary devices, and critical analysis techniques to interpret and appreciate English literature.

**CO-3:** Acquire knowledge of current events, general awareness, and social issues to engage in meaningful discussions and contribute to societal awareness.

**CO-4:** Enhance critical thinking skills to analyze and evaluate information from diverse sources and apply it to real-world contexts.

**CO-5:** Develop intercultural competence by understanding and respecting cultural differences, fostering inclusive communication, and promoting cross-cultural understanding in a global context.



**THIRDYEAR**

**PT- CLINICALS**

**CO-1:** Demonstrate competency in conducting a comprehensive patient assessment by collecting and analyzing relevant medical history, conducting physical examinations, and utilizing appropriate diagnostic tools and tests.

**CO-2:** Apply evidence-based therapeutic interventions and techniques to treat patients with various musculoskeletal, neurological, cardiopulmonary, and other physical conditions, aiming to improve their functional abilities and overall well-being.

**CO-3:** Develop effective communication and interpersonal skills to establish a rapport with patients, their families, and interdisciplinary healthcare teams, ensuring collaborative patient-centered care and effective coordination.

**CO-4:** Apply critical thinking and problem-solving skills to evaluate patient progress, interpret assessment findings, and modify treatment plans accordingly, aiming to achieve optimal therapeutic outcomes and promote patient independence.

**CO-5:** Demonstrate professional ethics and adhere to legal and ethical standards in physiotherapy practice, while maintaining patient confidentiality and respecting cultural diversity, ensuring the provision of safe, compassionate, and culturally sensitive care.

**EXAMINATION**

\*There will be no university examination.





**FOURTH YEAR**

**Course-Physiotherapeutic in Orthopedics BPT-401**

**CO-1:** Demonstrate a comprehensive understanding of the principles and techniques of physiotherapy in orthopedics, including knowledge of anatomy, biomechanics, and patho-physiology relevant to musculoskeletal conditions.

**CO-2:** Apply evidence-based practice to assess, plan, and implement physiotherapeutic interventions for various orthopedic conditions, considering individual patient needs and clinical guidelines.

**CO-3:** Utilize appropriate assessment tools and techniques to evaluate the functional limitations and impairments of patients with orthopedic conditions, and develop personalized treatment plans based on the assessment findings.

**CO-4:** Effectively communicate and collaborate with patients, their families, and multidisciplinary healthcare teams to provide holistic care, educate patients about self-management strategies, and ensure optimal treatment outcomes.

**CO-5:** Demonstrate ethical and professional behavior, adhere to legal and regulatory standards, and maintain professional development through continuous learning and engagement in research to enhance the quality of physiotherapeutic care in orthopedics.

*Signature*





**Course-Physiotherapeutic in Neurology Course Code: BPT-402**

**CO-1:** Evaluate and analyze the underlying principles and theories related to physiotherapeutic interventions in neurology.

**CO-2:** Apply knowledge and understanding of neurological conditions to assess and diagnose patients accurately.

**CO-3:** Design and implement appropriate physiotherapeutic treatment plans for patients with neurological disorders, considering their individual needs and goals.

**CO-4:** Utilize a range of specialized techniques and modalities to facilitate the recovery and functional improvement of patients with neurological conditions.

**CO-5:** Collaborate effectively with multidisciplinary healthcare teams to provide comprehensive care and rehabilitation services to patients with neurological disorders.

*Dr. Anshu*





**Course-Physiotherapeutic in General & CardiothoracicBPT-403**

**CO-1:** Demonstrate an understanding of the fundamental principles and concepts of physiotherapy in general and cardiothoracic conditions.

**CO-2:** Apply appropriate assessment techniques to evaluate and diagnose cardiothoracic conditions in patients.

**CO-3:** Design and implement effective physiotherapeutic interventions for patients with cardiothoracic conditions, considering their individual needs and goals.

**CO-4:** Utilize various therapeutic modalities, exercises, and techniques to promote cardiovascular and respiratory health and improve the functional abilities of patients.

**CO-5:** Evaluate the effectiveness of physiotherapeutic interventions and modify treatment plans accordingly to optimize patient outcomes in cardiothoracic rehabilitation.



### **Course-Physiotherapeutic in Sports: BPT-404**

**CO-1:** Evaluate and analyze the underlying principles and theories related to physiotherapeutic interventions in neurology.

**CO-2:** Apply knowledge and understanding of neurological conditions to assess and diagnose patients accurately.

**CO-3:** Design and implement appropriate physiotherapeutic treatment plans for patients with neurological disorders, considering their individual needs and goals.

**CO-4:** Utilize a range of specialized techniques and modalities to facilitate the recovery and functional improvement of patients with neurological conditions.

**CO-5:** Collaborate effectively with multidisciplinary healthcare teams to provide comprehensive care and rehabilitation services to patients with neurological disorders.

### **Course- Research, Methodology & Biostatistics BPT-405**

**CO-1:** Demonstrate an understanding of research design principles and methods in the field of Biophysical Therapy (BPT).

**CO-2:** Apply appropriate statistical techniques to analyze and interpret data related to Biophysical Therapy research.

**CO-3:** Evaluate and critique published research studies in Biophysical Therapy, identifying strengths, limitations, and areas for further investigation.

**CO-4:** Formulate research questions and develop research proposals using appropriate methodologies and ethical considerations in the context of Biophysical Therapy.

**CO-5:** Communicate research findings effectively through written reports and oral presentations in accordance with professional standards in the field of Biophysical Therapy.



## PROJECTWORK\*

Course Code: BPT-406

**CO-1:** Demonstrate the ability to analyze and evaluate the needs of patients in different clinical settings to determine appropriate physiotherapy interventions.

**CO-2:** Design and implement effective treatment plans and rehabilitation programs for individuals with various musculoskeletal, neurological, and cardiopulmonary conditions, incorporating evidence-based practices and considering patient preferences and goals.

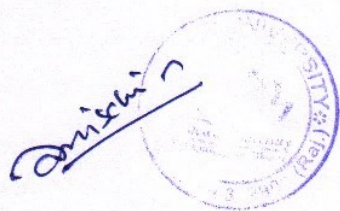
**CO-3:** Apply appropriate assessment techniques and diagnostic tools to evaluate the physical functioning, range of motion, strength, and flexibility of patients, and interpret the findings to develop comprehensive physiotherapy plans.

**CO-4:** Utilize various therapeutic modalities, exercise techniques, manual therapy, and assistive devices to provide appropriate interventions for pain management, functional improvement, and restoration of physical abilities in patients.

**CO-5:** Demonstrate effective communication and interpersonal skills while working as part of a multidisciplinary team, maintaining professional ethics and respecting the cultural diversity and individual needs of patients and their families

## EXAMINATION

\*There will be no university examination. Students will be assessed on the basis of Viva on his/her project work and the awards so secured by them will be sent to University.







**Mewar university**  
**BACHELORS OF PHYSIOTHERAPY**  
**PT- CLINICALS\***

At the end of the course the students will be able to: -

**CO-1.**Assessment diagnosis, goal formulation, treatment plan formulation, and execution of therapeutic skills.

**CO-2.**The student will be doing specific case studies allotted by their teacher/guide. Subjectis for Case Presentations and evaluations. The students will be able to learn about history of physiotherapy profession.

**CO-3.** The students will be able to understand about the ethical principles applied in the health care profession.

**CO-4.** 2. The student will be posted in the department of Physiotherapy & he/she will earn the assessment, diagnosis, & physiotherapy treatment of patients visiting the department.

**CO-5.** The students will be able to learn about the laws and legal concepts .Ex. – Consumer Protection Act and Protection from mal practice claims.

**EXAMINATION**

\*There will be no university examination. The students will be awarded marks on the basis of his/her attendance & Performance during clinical postings in the department of Physiotherapy.







Mewar university  
**MASTERS OF PHYSIOTHERAPY (MPT)**

**PROGRAM OUTCOMES**

Program Outcome: At the completion of this Program, the student should be	
<b>PO1.</b>	<b><u>Physiotherapy teaching assignments Approach -</u></b> Able to practice and assess patient independently & on successful completion of M.P.T programme, the Physiotherapist professional will be able to take up physiotherapy teaching assignments independently for undergraduate teaching programme.
<b>PO2.</b>	<b><u>Evidence based practice in PMR-</u></b> Able to execute all routine physiotherapeutic procedures with evidence based practice.
<b>PO3.</b>	<b><u>Multidisciplinary physiotherapy Skill's Approach-</u></b> Able to be a prominent member of the multidisciplinary physiotherapy team and treat all the conditions which need physiotherapeutic procedures.
<b>PO4.</b>	<b><u>Patient care &amp; evidence based practices-</u></b> Able to provide adequate knowledge about the treatment procedures and its benefit.
<b>PO5.</b>	<b><u>Transformation gain the updating knowledge about Profession-</u></b> Able to transfer knowledge and skills to students as well young professionals.
<b>PO6.</b>	<b><u>Self care Management on CBR Based Center-</u></b> Able to perform independent physiotherapy assessment and treatment for patients.
<b>PO7.</b>	<b><u>Research, Dissertation, skill enchasing Approach-</u></b> Able to undertake independent research in the field of physiotherapy.
<b>PO8.</b>	<b><u>Learn multidisciplinary practice skills-</u></b> After successful completion, the students shall be proficient in making diagnosis and skills of physiotherapy procedure and techniques.
<b>PO9.</b>	<b><u>Evidence based practices-</u></b> Able to execute all routine physiotherapeutic procedures with evidence based practice & They expertise in advanced clinical intervention techniques based on evidence based practices.
<b>PO10.</b>	<b><u>Evaluated outcome measures –</u></b> 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).







Mewar university  
**MASTERS OF PHYSIOTHERAPY (MPT)**

**PROGRAM SPECIFIC OUTCOMES**

- PSO1-** Such professionals explore the latest research corners in the field of physical medicine and rehabilitation.
- PSO2-** They expertise in advanced clinical intervention techniques based on evidence based practices.
- PSO3-** After successful completion, the students shall be proficient in making diagnosis and skills of physiotherapy procedure and techniques.
- PSO4-** As a health professional the students shall have an added responsibility towards the community health issues.
- PSO5 -** Develop skills as a self Directed learner, recognize continuing educational needs, use appropriate learning resources, and critically analyze relevant published literature in order to practice evidence Based physiotherapy.

*Dr. Ishu*







## **COURSE OUT COMES**

### **Course: Basic Human Science**

**CO-1:** Demonstrate an understanding of the fundamental principles of human anatomy and physiology relevant to physical therapy practice.

**CO-2:** Analyze the basic concepts of biomechanics and their application in assessing and improving human movement and function.

**CO-3:** Explain the physiological responses of the human body to exercise and physical activity, and its implications for designing safe and effective rehabilitation programs.

**CO-4:** Discuss the principles of motor control and motor learning and their role in the development and refinement of movement skills in patients undergoing physical therapy.

**CO-5:** Identify the key factors influencing human growth and development across the lifespan and apply this knowledge in the context of patient care and treatment planning.

### **Course: Biomechanics and kinesiology**

**CO-1:** Identify and analyze the principles of biomechanics and kinesiology in human movement.

**CO-2:** Apply knowledge of biomechanics and kinesiology to evaluate and assess movement patterns and biomechanical factors affecting human performance.

**CO-3:** Demonstrate the ability to analyze and interpret data related to biomechanics and kinesiology to make informed decisions and recommendations for injury prevention and performance enhancement.

**CO-4:** Design and implement appropriate biomechanical interventions and exercise programs based on an understanding of human movement mechanics and kinesiological principles.

**CO-5:** Communicate effectively, both orally and in writing, the concepts and applications of biomechanics and kinesiology in a professional and ethical manner.







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**MASTERS OF PHYSIOTHERAPY (MPT)**

**Course: Physical and Functional Diagnosis & Recent Advances in Physiotherapy**

**CO-1:** Apply comprehensive knowledge of physical and functional diagnosis techniques in assessing the health status of patients within the scope of physiotherapy practice.

**CO-2:** Evaluate and interpret clinical data, including medical history, physical examination findings, and diagnostic test results, to formulate accurate diagnoses and prognosis for patients in the field of physiotherapy.

**CO-3:** Demonstrate proficiency in utilizing advanced physiotherapy assessment tools, technologies, and recent advancements to improve the accuracy and effectiveness of diagnosis and treatment plans.

**CO-4:** Design and implement evidence-based intervention strategies tailored to individual patient needs, considering their physical and functional impairments, in order to optimize their recovery and functional outcomes.

**CO-5:** Critically evaluate and analyze recent research, advancements, and trends in physiotherapy practice, and incorporate this knowledge into clinical decision-making and treatment planning processes.







**Course: Research Methodology with evidence based practice and biostatistics**

**CO-1:** Demonstrate a comprehensive understanding of research methodology principles and their application in the field of evidence-based practice and biostatistics in the context of MPT program at Mewar University.

**CO-2:** Analyze and critically evaluate various research designs and methods used in healthcare research to enhance evidence-based decision-making and promote effective patient care.

**CO-3:** Apply appropriate statistical techniques and software tools to analyze and interpret data gathered during research studies, ensuring accurate representation and valid conclusions.

**CO-4:** Design and develop research proposals and protocols, including ethical considerations, data collection procedures, and appropriate sampling methods, to address specific research questions in the field of physical therapy.

**CO-5:** Communicate research findings effectively through written reports and oral presentations, adhering to academic and professional standards, and contributing to the advancement of evidence-based practice and biostatistics in the field of physical therapy.

**Course: Pedagogy and Management**

**CO-1:** Identify and analyze key theories and principles of pedagogy and management in the field of education.

**CO-2:** Apply effective instructional strategies and teaching methodologies to engage learners and enhance their learning experiences.

**CO-3:** Develop and implement appropriate assessment methods to evaluate student learning and provide constructive feedback.

**CO-4:** Design and manage inclusive and learner-centered classroom environments that promote diversity, equity, and student well-being.

**CO-5:** Demonstrate effective communication and collaboration skills with students, colleagues, and stakeholders to foster a positive learning community.







Mewar university  
**MASTERS OF PHYSIOTHERAPY (MPT)**

**Course outcome –Specialization**

**MPT IN ORTHOPEDICS**

**SECOND YEAR**

**Course- Musculoskeletal Injuries**

**CO-1:** Identify and analyze various types of musculoskeletal injuries, including fractures, sprains, strains, and dislocations.

**CO-2:** Evaluate the extent and severity of musculoskeletal injuries using appropriate diagnostic techniques and tools, such as imaging studies and clinical assessments.

**CO-3:** Develop comprehensive treatment plans for musculoskeletal injuries based on the principles of evidence-based practice, considering the specific needs and goals of individual patients.

**CO-4:** Apply various therapeutic interventions and techniques to promote the healing and rehabilitation of musculoskeletal injuries, including manual therapy, therapeutic exercises, and modalities.

**CO-5:** Assess the effectiveness of treatment interventions for musculoskeletal injuries through regular monitoring and evaluation of patient progress, making necessary adjustments to optimize outcomes.

**Course - Women Health, Geriatric and Hand Rehabilitation**

**CO-1:** Analyze the unique healthcare needs and challenges faced by women, geriatric individuals, and patients requiring hand rehabilitation.

**CO-2:** Evaluate and apply evidence-based approaches and therapeutic interventions specific to women's health, geriatric care, and hand rehabilitation.

**CO-3:** Demonstrate proficiency in assessing, diagnosing, and developing individualized treatment plans for women, geriatric patients, and individuals requiring hand rehabilitation.

**CO-4:** Implement effective communication and counseling strategies to educate women, geriatric individuals, and patients undergoing hand rehabilitation on self-care techniques, prevention, and management of specific conditions.

**CO-5:** Apply ethical and professional principles while providing comprehensive healthcare services to women, geriatric patients, and individuals in need of hand rehabilitation.

