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Department of Physiotherapy & Paramedical Sciences

Malwanchal University, Indore

BACHELOER OF PHYSIOTHERAPY

PROGRAM OUTCOMES	
PO 1	To demonstrate behavioural skills and humanitarian approach while communicating with patients, relatives, society at large and co-professionals To develop healthy Physiotherapist – Patient relationship
PO 2	To demonstrate and relate moral, ethical values and legal aspects concerned with Physiotherapy management
PO 3	To apply and outline pathology of medical conditions in context with Physiotherapy, interpret; use medical communication
PO4	To demonstrate academic skills and knowledge related to understanding the structural and functional of human body and applied anatomy, physiology in physiotherapy practice.
PO5	To apply knowledge of biomechanics of human movement in musculoskeletal, neurological and cardio-respiratory conditions in planning, recommending, and executing Physiotherapy management.
PO6	To outline and implement Physiotherapy management by co-relating assessment and examination skills of clinical subjects like Orthopaedics, General Surgery, Medicine, Neurology, Paediatrics, Dermatology; Gynaecology; Obstetrics, Community Medicine.

PROGRAM SPECIFIC OUTCOMES	
PSO 1	After successful completion the students shall be proficient in making diagnosis and skills of physiotherapy procedure and techniques.
PSO 2	Additionally they expertise in physical medicine and rehabilitation
PSO 3	Responsibility and leadership qualities among each and every student along with advanced professional skills.
PSO 4	As a health professional the students shall have an added responsibility towards the community health issues.
PSO 5	Demonstrate clinical decision making ability and provide appropriate patients care.
PSO 6	Develop the ability to collect history, perform relevant clinical assessment and frame appropriate electrotherapeutic and exercise therapeutic and exercise therapy management for the patients



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Course Outcomes	
Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Human anatomy
Course code	BPT 101
Course learning outcome –	The students will able to understand
CO1	To understand the level of the human body and its application in physiotherapy
CO2	To understand the muscle bones and joint of various regions. Special emphasis to course of blood vessels , structure of vessels , structure of rib cage and its contents
CO3	To understand the functional anatomy of upper extremity , lower extremity, thorax and brain

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Human physiology
Course code	BPT 102
Course learning outcome –	The students will able to understand
CO1	To understand the basis of normal human physiology
CO2	To understand about detail knowledge of nerves system, muscular system, cardiovascular system
CO3	To understand the activities of organs are integrated for maximum efficiency in physical activity and exercise

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Fundamental of physics, biomechanics and biomechanics modalities
Course code	BPT 103
Course learning outcome –	The students will able to understand
CO1	To understand the mechanical and skeletal basis of movements
CO2	To understand about detail knowledge to provide fundamental of muscle, joint functions, role of gravity , force , motion and equilibrium
CO3	Illustrate practical knowledge on levers, pulleys ,elasticity and fundamental derived position of human body ,



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Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Fundamental of medical electronics and principles of electrical modalities
Course code	BPT 104
Course learning outcome – The students will able to understand	
CO1	To understand the basis of electro physical properties of current and its principles
CO2	To understand about detail knowledge to provide basis of electro currents and different types of current used in physiotherapy and their modalities
CO3	To understand the various circuit diagram of electro modalities and about the pathway of electrical supply and output production

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Sociology & Psychology
Course code	BPT 105
Course learning outcome – The students will able to understand	
CO1	To understands the sociological theory to explain social problem and issues within physiotherapy perspective affecting human behaviour
CO2	Understanding the various factor reflecting rehabilitation process necessary for hospital and rehabilitation settings
CO3	Understand the personality traits and learning concept of community within community frame work during rehab process



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BPT 2ND Yr

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Biochemistry and pharmacology
Course code	BPT 201
Course learning outcome – The students will able to understand	
CO1	To understand about the drugs and its uses and adverse effects
CO2	To understand about detail biochemistry cycle and reaction in body
CO3	To understand the dosages of drugs and its side effects. In physiotherapy the reaction of drugs to muscles and joints

Name of the program	Bachelor of Physiotherapy(BPT)
Name of the course	Pathology and Microbiology
Course code	BPT 202
Course learning outcome – The students will able to understand	
CO1	To understand morphology, nutritional requirements, metabolism growth and classification of micro organisms
CO2	To understand the structure and function of cell , bones and joint disease
CO3	To understand patho- physiological disease and associated problems

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Gen surgery/Obs / Gynae/ENT/Ophthal
Course code	BPT 203
Course learning outcome – The students will able to understand	
CO1	To understand about the condition of obs /gynae in which physiotherapy exercise help to betterment of life
CO2	Students able to understand about general surgical procedure and post surgical complications
CO3	Students able to understand various conditions including sinusitis and rhinitis

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	General medicine
Course code	BPT 204
Course learning outcome – The students will able to understand	
CO1	To understand about common medical disease , which would be handling as a physiotherapist
CO2	Students know brief about aetiology, pathology , types and degree of disability
CO3	Students should know about illness and how to achieve cure to patients



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Name of the program	Bachelor of Physiotherapy(BPT)
Name of the course	Orthopaedics
Course code	BPT 205
Course learning outcome – The students will able to understand	
CO1	Students will understand about basic concept of bone and joint infection, bone tumors & TB with their clinical examination, investigation and management.
CO2	Students will understand the aetiology, classification, pathology, clinical features, relevant investigation, complications and surgical management of the fracture
CO3	Learn about the principles, contraindications, indications, complications of different types of techniques used in Orthopaedic Surgery

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Electrotherapy
Course code	BPT 206
Course learning outcome – The students will able to understand	
CO1	Know the principles, technique and effects of electrotherapy as a therapeutic modality in the restoration of physical function in conditions.
CO2	Utilize Contemporary and recent methods and to select the most appropriate method to moderate and alleviate pain for patients
CO3	Know the principles, technique and effects of electrotherapy as a therapeutic modality in the restoration of physical function in condition like nerve injuries. Possess knowledge of all the commonly used electro diagnostic tests like Electromyography, nerve conduction study in relevant conditions.

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Exercise Therapy
Course code	BPT 207
Course learning outcome – The students will able to understand	
CO1	Student able to understand fundamental starting position and derived position and also able to utilize these specific positions for specific exercises.
CO2	Students must know about the different types of Equipment used in the exercise therapy lab with their correct positioning & precaution, also explain uses & benefits of the equipment.
CO3	Student able to learn the posture and various types of gait in order to enhance normal walking pattern which is used in ADL.



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BPT 3RD YR

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Neurology, Neurosurgery , Cardio thoracic, and surgery
Course code	BPT 301
Course learning outcome – The students will able to understand	
CO1	To understand about cardio thoracic conditions and about the surgical procedure so that physiotherapy can give to patients
CO2	Students know about neurological conditions and the treatment plans
CO3	Students should know about illness and how to achieve cure to patients

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Physiotherapeutic 1 (physiotherapy In ortho)
Course code	BPT 302
Course learning outcome – The students will able to understand	
CO1	To understand about the condition of orthopaedics and about the fracture and its types
CO2	Students know about detail assessment of evaluation of the injury
CO3	To know about physiotherapy treatment protocol and post surgery treatment plans in physiotherapy

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Physiotherapeutic 2 (physiotherapy in neurology and neurosurgery)
Course code	BPT 303
Course learning outcome – The students will able to understand	
CO1	To understand about the condition of neurology and demonstration , practical and clinical aspects of patient
CO2	Students know about disability due to neurological dysfunction and physiotherapy assessment and treatment protocol
CO3	To know about physiotherapy treatment protocol and post surgery treatment plans in physiotherapy various skills to restore neurological functions



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Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Physical Evaluation
Course code	BPT 304
Course learning outcome – The students will able to understand	
CO1	To Understand the use of appropriate tools or instruments of assessment in Musculoskeletal, Neurological and Cardio-vascular conditions
CO2	Perform assessment of measures of body structures and functions related to motor control affecting activity and participation, quality of life and independence.
CO3	Follow the principles of appropriate handling technique that is draping, hand placement, body part positioning, manual techniques, lifting and transfer techniques.

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Biomechanics & Bioengineering
Course code	BPT 305
Course learning outcome – The students will able to understand	
CO1	Acquire knowledge about biomechanical principles, of application of variety of aids & appliances used for ambulation, protection & prevention
CO2	Acquire knowledge about various material used for splints / Orthosis & prosthesis--selection criteria.
CO3	To know Acquire the knowledge of axis and planes, forces acting at various joints. The knowledge of muscle and joint work in activities of daily living. To Understand the kinetics and kinematics of Spine, Extremities, Temporo Mandibular joint, Thoracic cage CO5- Acquire the knowledge of Musculo skeletal movements during normal Gait and Activities of Daily Living



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BPT 4TH YR

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Physical diagnosis and prescription
Course code	BPT 401
Course learning outcome – The students will able to understand	
CO1	To understand about concepts of evaluation
CO2	Students know about the prescription writing and proper evaluation of disease
CO3	To know about evaluation , principles and techniques of physiotherapy management

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Physiotherapy in cardio thoracic condition
Course code	BPT 402
Course learning outcome – The students will able to understand	
CO1	To understand about cardio respiratory dysfunction
CO2	Students know about cardio thoracic condition and its physiotherapy treatment to enhance breathing
CO3	To know about detail disease and assessment and cardiac and pulmonary rehabilitation

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Sports physiotherapy
Course code	BPT 403
Course learning outcome – The students will able to understand	
CO1	To understand about the sports injuries and about the sports
CO2	Students know about on-field and off-field assessment and its rehabilitation protocol
CO3	To know about treatment protocol and various treatment methods used in physiotherapy

Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Community Medicine, Community PT, Field visits & PT Visits
Course code	BPT 404
Course learning outcome – The students will able to understand	
CO1	Know National & International Definition of Health, Role of Socio-Economic & Cultural Environment in Health & Disease.
CO2	Understand Epidemiology of socio-economical & cultural issues - related to morbidity
CO3	Identify with clinical reasoning the prevailing contextual (e.g. environmental and psycho-social cultural} factors, causing high risk responsible for various dysfunctions and morbidity related to sedentary life style and specific community like women, children, aged as well as industrial workers and describe planning strategies of interventional policies to combat such problems.



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Name of the program	Bachelor of physiotherapy(BPT)
Name of the course	Rehabilitation Therapy & Biostatistics
Course code	BPT 405
Course learning outcome – The students will able to understand	
CO1	Acquire skills for the evaluation of disability and planning for prevention and rehabilitation. Gain knowledge of the basic concepts of Biostatistics & its need for professional practice & research.
CO2	Describe an Over - view- a] Ethnography & Anthropology b] Design & Methodology of an Experiment or Survey c] Demography & vital statistics d] Sampling & interpretation of Data
CO3	To know about treatment protocol and various treatment methods used in physiotherapy rehabilitation in different conditions