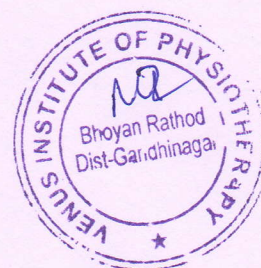


1.1.1 Summary table of course objectives for curricular developed and implemented in the Venus Institute of Physiotherapy, Swarnnim Start-up and Innovation University have relevance to the local, regional, national, and global developmental needs:

Sr. No.	Program	No. of Course Objectives relevance to the local, regional developmental needs	No. of Course Objectives relevance to the national developmental needs	No. of Course Objectives relevance to the global developmental needs
1	Bachelor of Physiotherapy (BPT)	38	107	16
2	Master of Physiotherapy (MPT)	12	25	17





SWARNNIM STARTUP & INNOVATION UNIVERSITY
VENUS INSTITUTE OF PHYSIOTHERAPY

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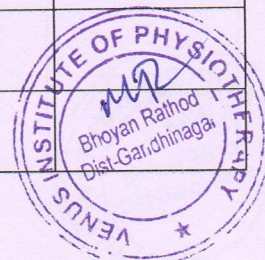
Course Outcome and its relevance to the Local/Regional, National and Global needs					
			Relevance to the		
Course	CO No.	Course Outcomes	Local / Regional	National	Global
1st Year BPT					
Human Anatomy	101.1	Understanding of the anatomical structures and functions of the		✓	
	101.2	Apply anatomical knowledge to understand the underlying mechanisms of various diseases and	✓		
	101.3	Analyze and interpret anatomical images (e.g., X-rays, CT scans,		✓	
	101.4	Demonstrate proficiency in anatomical terminology and			✓
	101.5	Identify and demonstrate the major anatomical regions and structures of	✓		
	101.6	Correlate anatomical structures with physiological functions.		✓	
Human Physiology & Biochemistry	102.1	Understand the physiological functions of various body systems.	✓		
	102.2	Correlate physiological processes with biochemical pathways and their relevance to human health.		✓	
	102.3	Analyze physiological and biochemical data for the normal and abnormal functions of the human		✓	
	102.4	Demonstrate all basic skills of the clinical examinations of CVS, RS, CNS and also skills of recognizing ECG, Spirometry and Hematology		✓	
	102.5	Apply physiological and biochemical principles to understand the effects of physical activity and		✓	
	102.6	Understand the functions and roles of micronutrients and macronutrients, enzymes in humans.		✓	
Fundamentals of Biomedical Physics	103.1	Understand the basic principles of physics as applied to biological	✓		
	103.2	Analyze the biomechanical properties of tissues and organs.	✓		
	103.3	Apply biophysical concepts to understand physiological processes.		✓	
	103.4	Understand the principles of superficial and deep heating		✓	
	103.5	Understand the application of various modalities on models.		✓	

INSTITUTE OF PHYSICS

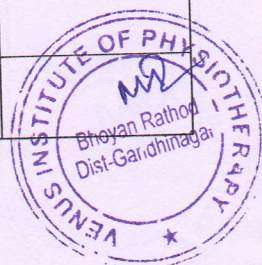
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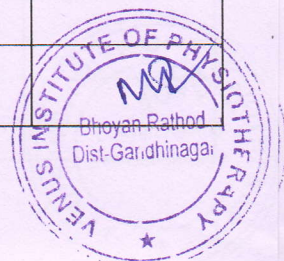
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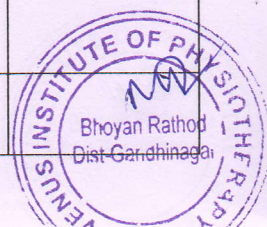
	103.6	Apply biophysical knowledge to use appropriately all the medical			✓
Psychology & Sociology	104.1	Understand the principles and theories of psychology.	✓		
	104.2	Apply psychological concepts to understand human behavior and	✓		
	104.3	Develop an understanding of the psychological & Social factors influencing health and well-being.		✓	
	104.4	Demonstrate an awareness of ethical issues in psychology.		✓	
	104.5	Understand the basic concepts and theories of sociology.		✓	
	104.6	Understand the impact of social factors on individual behaviour and		✓	
Exercise Therapy I and Soft Tissue Manipulation	105.1	Understand exercise therapy techniques to improve physical		✓	
	105.2	Demonstrate various soft tissue manipulation techniques and exercise therapeutics on models.	✓		
	105.3	Evaluate the effectiveness of exercise therapy and soft tissue		✓	
	105.4	Understand individualized exercise therapy programs with clinical		✓	
	105.5	Understand and remember the biomechanics of movement and		✓	
	105.6	Analyze the use of exercise therapy and soft tissue manipulation in various musculoskeletal disorders.			✓
Orientation Program In Startup And Entrepreneurship	21.1	Understand the concepts of innovation and entrepreneurship.	✓		
	21.2	Identify and evaluate opportunities for innovation and entrepreneurship in the healthcare sector.	✓		
	21.3	Develop entrepreneurial skills, such as problem-solving, creativity, and decision-making.		✓	
	21.4	Analyze a business plan for a healthcare-related venture.		✓	
	21.5	Understand the legal and ethical considerations of entrepreneurship.		✓	
	21.6	Understand the importance of network of contacts in the healthcare and business community.			✓
2nd Year BPT					
	201.1	Understand the principles and techniques of pathology and	✓		
	201.2	Identify diseases through microscopic examination.		✓	



Pathology & Microbiology	201.3	Correlate pathologic findings with clinical manifestations.		✓	
	201.4	Understand the pathogenesis of various diseases.		✓	
	201.5	Understand microorganisms & the structures, functions and metabolisms in human health and		✓	
	201.6	Understand the role of microorganisms in human health			✓
Pharmacology	202.1	Understand the principles of		✓	
	202.2	Classify drugs based on their therapeutic actions and mechanisms		✓	
	202.3	Evaluate the safety and efficacy of		✓	
	202.4	Apply pharmacological knowledge to patient care and treatment		✓	
	202.5	Understand the pharmacokinetics and pharmacodynamics of drugs.		✓	
	202.6	Understanding of drug interactions and adverse effects.			✓
Exercise Therapy II	203.1	Understand advanced exercise therapy techniques to improve physical function and rehabilitation.		✓	
	203.2	Demonstrate various exercise therapy techniques used for various		✓	
	203.3	Understand the progress to assess and evaluate of patients undergoing exercise therapy.	✓		
	203.4	Understand the biomechanics of movement in various populations.	✓		
	203.5	Analyze the use of exercise therapy principles in the management of		✓	
	203.6	Collaborate with other healthcare professionals to provide.		✓	
Biomechanics & Kinesiology	204.1	Understand the principles of biomechanics and kinesiology.	✓		
	204.2	Analyze human movement using biomechanical techniques.	✓		
	204.3	Evaluate the biomechanical factors contributing to pathology, injury and dysfunction.		✓	
	204.4	Apply biomechanical principles to the design of exercise programs and rehabilitation interventions.		✓	
	204.5	Understand the role of biomechanics in sports performance.		✓	
	204.6	Analyze biomechanical variants and analysis with clinical reasoning.		✓	
	205.1	Understand the principles and theories of psychiatry.		✓	

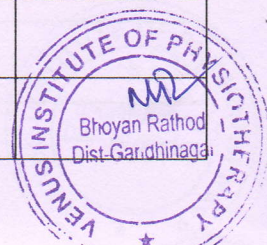


Psychiatry	205.2	Understand various mental health disorders with reasoning.	✓		
	205.3	Apply psychiatric knowledge to the management of patients with mental health conditions.		✓	
	205.4	Understand the role of psychosocial factors in mental health.		✓	
	205.5	Understand the importance of psychosocial issues in the various		✓	
	205.6	Demonstrate an awareness of ethical issues in psychiatry.	✓		
Electrotherapy	206.1	Understand the principles of	✓		
	206.2	Apply various electrotherapy modalities to treat different	✓		
	206.3	Assess and evaluate the effectiveness of electrotherapy.		✓	
	206.4	Understand the biophysical effects of electrical currents on tissues.		✓	
	206.5	Analyze the usage of appropriate electrotherapy parameters for different conditions.		✓	
	206.6	Demonstrate proficiency in the use of electrotherapy equipment.		✓	
Community Medicine	207.1	Understand the principles of community medicine.		✓	
	207.2	Understand the health needs of a community for all age groups,	✓		
	207.3	Know about the natural resources, ecosystem, biodiversity and its conservation, environmental protection in community health	✓		
	207.4	Evaluate the effectiveness of community health interventions.	✓		
	207.5	Understand the role of public health in disease prevention and control.		✓	
	207.6	Understand the importance to Collaborate with community partners to address health issues.		✓	
Intermediate & Advanced Program in Entrepreneurship	21.1	Demonstrate advanced entrepreneurial skills and	✓		
	21.2	Understand how to implement a comprehensive business plan.		✓	
	21.3	Understand how to Raise capital and secure funding for entrepreneurial		✓	
	21.4	Understand how to Manage and grow a business enterprise.		✓	
	21.5	Understand the legal and financial aspects of entrepreneurship.		✓	
	21.6	Network with other entrepreneurs and industry professionals.		✓	

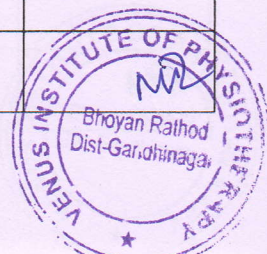


3rd Year BPT

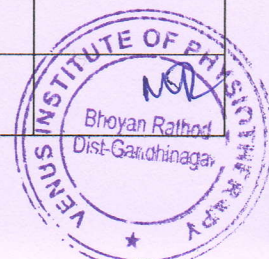
Medicine-1 (General Medicine, Cardio- Respiratory Medicine, and Dermatology)	301.1	Understanding of general medicine, cardiology, respiratory medicine, and dermatology.		✓	
	301.2	Diagnose and manage various medical conditions in these		✓	
	301.3	Apply clinical reasoning and problem-solving skills to treatment			✓
	301.4	Understand the appropriate management for patient in ICU.		✓	
	301.5	Communicate effectively with patients and their families.	✓		
	301.6	Interpret chest X-ray, PFT, Blood Investigation for various medical		✓	
Medicine-2 (Neurology and Pediatrics & Obstetrics and Gynecology)	302.1	Understanding of various issues/diseases in neurology, pediatrics, surgery, obstetrics, and		✓	
	302.2	Diagnose and manage various medical and surgical conditions with		✓	
	302.3	Understand various surgical procedures required to treat diseases.		✓	
	302.4	Understand prenatal and postnatal care management and post-menopausal problem management.		✓	
	302.5	Understand the management of pediatric conditions and care for	✓		
	302.6	Collaborate with other healthcare professionals to provide	✓		
(General Surgery, Plastic Surgery, Neuro- Surgery & Cardio Thoracic Surgery) & Obstetrics and Gynaecology	303.1	Understand the various surgeries stepwise performed for abdominal, thoracic, neurological, and		✓	
	303.2	Describe the effect and complications of anesthesia used for		✓	
	303.3	Understand the surgical management of wound, ulcer, and		✓	
	303.4	Understand various obstetric and gynecological conditions with antenatal and postnatal care.		✓	
	303.5	Analyze various differential diagnosis techniques with reasoning.			✓
	303.6	Communicate effectively with patient and caregivers	✓		
Orthopaedic (Traumatic and Non- Traumatic)	304.1	Understanding of various orthopaedic conditions (Traumatic	✓		
	304.2	Diagnose and manage traumatic and non-traumatic orthopaedic injuries.		✓	
	304.3	Interpret X-ray of spine and limb with clinical findings.		✓	
	304.4	Discuss the treatment of congenital and acquired orthopaedic conditions.		✓	



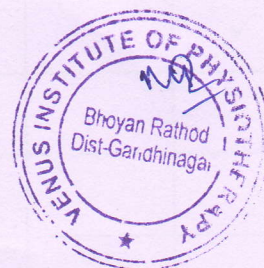
	304.5	Apply biomechanical principles to orthopaedic care.		✓	
	304.6	Analyze various diagnostics procedures used for treatment of			✓
Physical and Functional Diagnosis	305.1	Understand and demonstrate skills of physical examinations and functional assessments of patients.		✓	
	305.2	Interpret diagnostic tests and		✓	
	305.3	Analyze a differential diagnosis for various conditions with clinical		✓	
	305.4	Analyze physiological and biomechanical bases of movement dysfunctions and apply to functional		✓	
	305.5	Communicate effectively with patients and caregivers related to	✓		
	305.6	Demonstrate the case taking abilities, document the same, and understand the diagnosis.		✓	
Expert Program in Entrepreneurship and IPR	22.1	Understand advanced entrepreneurial skills and	✓		
	22.2	Formulate a comprehensive business		✓	
	22.3	Analyze how to raise capital and secure funding for entrepreneurial		✓	
	22.4	Understand the legal and financial aspects of entrepreneurship and intellectual property rights (IPR).		✓	
	22.5	Understand the importance of networking with other entrepreneurs and industry professionals for	✓		
Final Year BPT					
Physiotherapy in Neurological Conditions	401.1	Understand the principles of neurorehabilitation and management of neurological conditions.		✓	
	401.2	Demonstrate physiotherapy techniques to manage neurological		✓	
	401.3	Assess and evaluate patients with neurological disorders and make		✓	
	401.4	Develop individualized rehabilitation programs for			✓
	401.5	Collaborate with other healthcare professionals in the management of neurological conditions.	✓		
	401.6	Demonstrate proficiency in neurodiagnostic tests.			✓
	402.1	Understand the biomechanics of musculoskeletal function.		✓	
	402.2	Demonstrate physiotherapy techniques to manage		✓	



Physiotherapy in Musculoskeletal Conditions	402.3	Assess and evaluate patients with musculoskeletal conditions and make functional diagnosis with		✓	
	402.4	Develop individualized rehabilitation programs for			✓
	402.5	Collaborate with orthopedic surgeons and other healthcare	✓		
	402.6	Demonstrate proficiency in musculoskeletal assessment		✓	
Physiotherapy in Cardio-Respiratory Conditions	403.1	Understand the physiology of the cardiovascular and respiratory systems and the various diseases		✓	
	403.2	Demonstrate physiotherapy techniques to manage cardio-		✓	
	403.3	Assess and evaluate patients with cardio-respiratory disorders.		✓	
	403.4	Analyze individualized rehabilitation programs for patients		✓	
	403.5	Understand the multidisciplinary approach for the treatment and	✓		
	403.6	Demonstrate proficiency in cardio-respiratory assessment techniques.			✓
Physiotherapy in Medical and Surgical Conditions	404.1	Apply physiotherapy techniques to manage a variety of medical and		✓	
	404.2	Assess and evaluate patients with medical and surgical conditions.		✓	
	404.3	Develop individualized rehabilitation programs for patients			✓
	404.4	Understand the principles of wound care and tissue healing.		✓	
	404.5	Collaborate with physicians and surgeons in the management of medical and surgical conditions.	✓		
	404.6	Demonstrate proficiency in post-operative rehabilitation techniques.		✓	
Physiotherapy in Rehabilitation and Allied Therapeutics	405.1	Understand the principles of rehabilitation and its role in patient		✓	
	405.2	Apply physiotherapy techniques in conjunction with other allied health		✓	
	405.3	Coordinate rehabilitation programs involving multiple healthcare	✓		
	405.4	Understand and analyze the applications of orthosis and		✓	
	405.5	Demonstrate proficiency in rehabilitation techniques and		✓	
	405.6	Analyze various functional scales used for the assessment & diagnosis		✓	
	406.1	Understand the principles of biostatistics and research		✓	

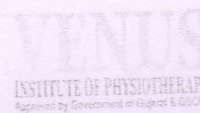


Biostatistics and Research Methodology	406.2	Collect, analyze, and interpret data using statistical methods.	✓		
	406.3	Understand the basics of Review of literature, research studies.		✓	
	406.4	Evaluate the validity and reliability of research findings and evidence		✓	
	406.5	Apply research methods to clinical			✓
	406.6	Demonstrate proficiency in			✓
Start-Up Project	23.1	Develop entrepreneurial skills and competencies.		✓	
	23.2	Create a business plan for a physiotherapy-related venture.		✓	
	23.3	Understand methods of Raise capital and secure funding for the venture.		✓	
	23.4	Demonstrate methods/plans to manage and grow the business.		✓	
	23.5	Understand the legal and financial aspects of entrepreneurship.		✓	
	23.6	Conduct a Project related to startup / Entrepreneurship.	✓		
		Total	38	107	16

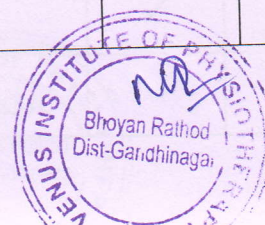




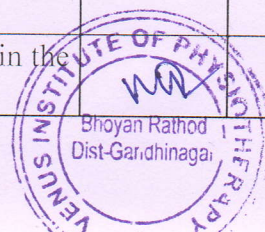
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Course Outcome and its relevance to the Local/Regional, National and Global needs					
			Relevance to the		
Course	CO No.	Course Outcomes	Local / Regional	National	Global
1st Year MPT					
Basic Sciences Part-I	101.1	Understand the history and principles of physiotherapy education and practice.		✓	
	101.2	Demonstrate an understanding of the principles of work and exercise physiology.		✓	
	101.3	Apply electrophysiological techniques to assess and diagnose neuro-muscular disorders.	✓		
	101.4	Analyze human movement using biomechanical principles	✓		
	101.5	Evaluate the impact of exercise on physiological functions.	✓		
	101.6	Correlate biomechanical factors with musculoskeletal disorders.			✓
Basic Science Part- II	102.1	Apply research methodology and biostatistics to physiotherapy research.		✓	
	102.2	Utilize educational technology in physiotherapy practice.		✓	
	102.3	Demonstrate an understanding of ethical principles and administrative procedures in physiotherapy.		✓	
	102.4	Evaluate the effectiveness of educational interventions in physiotherapy.			✓
	102.5	Develop and implement evidence-based physiotherapy practices			✓
	102.6	Understand the role of technology in physiotherapy education and practice.			✓
Advanced Physiothera- peutics (Clinical Applied & Allied Therapeutic s, Medical & Surgical)	103.1	Understand the principles of evidence-based practice in physiotherapy		✓	
	103.2	Understand the advanced physiotherapy techniques to manage various clinical conditions		✓	
	103.3	Demonstrate proficiency in applied and allied therapeutic management for various dysfunctions		✓	
	103.4	Analyze the effectiveness of physiotherapy interventions in various Musculoskeletal and neurological conditions			✓
	103.5	Understand and demonstrate various manual Therapy techniques used in Physiotherapy managements			✓



	103.6	Analyze and implement individualized rehabilitation programs for patients with medical and surgical conditions			✓
Non- Elective Case and Micro- Teaching	104.1	Develop clinical skills and competencies.		✓	
	104.2	Apply theoretical knowledge to clinical practice.		✓	
	104.3	Interact effectively with patients and their families.	✓		
	104.4	Analyze the treatment protocols with clinical reasoning and interdisciplinary approach		✓	
	104.5	Demonstrate Professionalism and ethical behavior in clinical settings			✓
	104.6	Evaluate the effectiveness of clinical interventions with Prognosis			✓
2nd Year MPT					
Physical & Functional Diagnosis – Part – I & II	201.1	Understand comprehensive physical examinations and functional assessments on Patients.	✓		
	201.2	Demonstrate various physical examinations and functional assessments on Patients		✓	
	201.3	Interpret diagnostic tests and procedures		✓	
	201.4	Apply various functional tests on patients and analyze functional diagnosis with evidences		✓	
	201.5	Develop a differential diagnosis for various conditions		✓	
	201.6	Communicate effectively with patients and other health care professionals			✓
Elective: I Basics, Assessment, and Evaluation	202.1	Demonstrate a deep understanding of fundamental concepts In physiotherapy			✓
	202.2	Apply advanced assessment techniques to evaluate patient function		✓	
	202.3	Develop and implement effective evaluation strategies	✓		
	202.4	Analyze and interpret assessment data	✓		
	202.5	Communicate assessment findings effectively to the patients and care givers as well as to the other relevant departments	✓		
	202.6	Utilize assessment results to inform treatment planning with evidences			✓
Elective: Clinical Conditions & Physiothera peutic Intervention s	203.1	Understand the underlying pathophysiology and management of selected clinical conditions.	✓		
	203.2	Demonstrate expertise in the assessment and evaluation of patients with particular conditions.		✓	
	203.3	Develop and implement tailored rehabilitation programs for specific conditions.		✓	
	203.4	Apply specialized physiotherapy techniques to manage specific clinical conditions.		✓	
	203.5	Collaborate with other health care professionals in the treatment of specific conditions.			✓



	203.6	Evaluate the effectiveness of physiotherapy interventions for specific conditions.			✓
Dissertation	204.1	Conduct independent research on a physiotherapy related topic.	✓		
	204.2	Develop a research question and hypothesis.		✓	
	204.3	Design and conduct a research study effectively		✓	
	204.4	Collect, analyze, and interpret data.		✓	
	204.5	Write a comprehensive dissertation.			✓
	204.6	Present research findings effectively with its future scope and limitations		✓	
Non – Elective Case + Elective Case (Separate for Each Elective); Viva Voce	205.1	Demonstrate clinical skills and competencies.		✓	
	205.2	Apply theoretical knowledge to clinical practice.		✓	
	205.3	Interact effectively with patients and their families.	✓		
	205.4	Apply treatment protocols considering evidence based knowledge with clinical reasoning			✓
	205.5	Demonstrate professionalism and ethical behavior in clinical settings.			✓
	205.6	Evaluate the effectiveness of clinical interventions with Prognosis	✓		
		Total	12	25	17

