GANPAT UNIVERSITY										
FACULTY OF HEALTH AND ALLIED SCIENCES										
Program	**Bachelor of Physiotherapy (BPT)**					**Branch**				
Year	**4**					**Version**	1.0.0.0			
Effective from the Academic year		2025-26		**Effective for the batches admitted from**						2022-23
Course Code	BPT404	**Course Name**		**Community Health & Rehabilitation +Assistive technologies**						
Teaching Scheme Per Year				**Examination Scheme**						
	Th	**Pr**	**Total**	**Marks**	**Internal**	**External**	**Total**	**Duration**	**Internal**	**External**
Hours	38+19	19+0	57+19	Theory	20 (10+10)	80 (40+40)	100	Theory	3hrs	3hrs
Credit	2.5 +1			Practical	20	80	100	Practical	3hrs	3hrs
Prerequisite	Nil									

COURSE OBJECTIVES	
1	To understand and explain foundational concepts of community health, including preventive, promotive, curative, and rehabilitative care, along with the organization and function of health delivery systems.
2	To assess, plan, and implement physiotherapy interventions for diverse age groups and population segments (e.g., women, geriatrics, individuals with obesity or chronic illnesses), with emphasis on health promotion and functional independence.
3	To demonstrate clinical reasoning in the management of women's and child health conditions by applying physiotherapy principles in antenatal, postnatal, menopausal, and pediatric care.
4	To integrate and apply principles of physical fitness and ergonomics in community-based rehabilitation, including understanding of energy systems, endurance development, and aerobic conditioning.
5	To identify, classify, and apply assistive technologies—including orthoses, prostheses, splints, and adaptive devices—based on biomechanical principles and individual patient needs.
6	To describe and evaluate various materials used for orthoses, prostheses, and splints, and apply selection criteria to ensure appropriate prescription and functional outcomes.

THEORY & PRACTICAL SYLLABUS

Unit	Content	Hrs. (Th+Pr)
1	**Concepts of community health** 1.1 Preventive, promotive, restorative and rehabilitative 1.2 WHO definition of health and disease 1.3 Health delivery system - 3 tier	**3** (3+0)
2	**Disability types** 2.1 Physical & Psychological Evaluation, 2.2 Prevention & Legislation related to Persons with Disability (PWD)	**8** (6+2)
3	**CBR** 3.1 Definition 3.2 Principles, types (institutional, reach out and community), concepts 3.3 WHO policies 3.4 Principles of Team work of medical practitioner, Physiotherapist 3.5 Occupational Therapist 3.6 Speech & Audiology Therapist 3.7 Prosthetist & Orthotist 3.8 Clinical psychologist 3.9 Vocational counsellor and social worker 3.10 Role of Physiotherapy in team 3.11 Concept of multipurpose health worker 3.12 Role of Physiotherapy and strategies in 3 tier Health delivery system 3.13 Communication strategies	**6** (6+0)
4	**Health Care** 4.1 Prevention, Promotion & Restoration 4.2 In peri-pubertal age group 4.3 In women-pregnancy and menopause 4.4 In Geriatrics- neuro	**7** (5+2)

	4.5 Musculoskeletal, cardiovascular, pulmonary, metabolic and degenerative conditions 4.6 In Obese / over weight 4.6 In Cardiovascular and Pulmonary conditions 4.7 In Diabetes 4.8 Health promotion for all	
5	**Women and child care** 5.1 Antenatal exercises, Specific Breathing exercises, Relaxation, Postural training, Pelvic floor strengthening exercises with clinical reasoning 5.2 Physiotherapy during labor 5.3 Postnatal exercises program after normal labor / labor with invasive procedures with clinical reasoning 5.4 Menopause -Osteoporosis, Mental health, Physiotherapy management 5.5 Preterm babies 5.6 Adolescent age group 5.7 Nutritional disorders in women and children	**13** (7+6)
6	**Geriatrics** 6.1 Physiology of aging 6.2 Environmental changes and adaptations, balance and falls 6.3 Role of Physiotherapy in geriatric population	**12** (6+6)
7	**Physical fitness** 7.1 Energy system 7.2 Endurance 7.3 Aerobic Exercise 7.4 Pacing of activity	**6** (3+3)
8	**Ergonomics**	**2**
	Total	**57**

THEORY SYLLABUS: Assistive technologies

Unit	Content	Hrs. (Th)
1	Assistive Technologies 1.1 Robotics and Gaming in rehabilitation	**3**
2	Classification of orthosis and prostheses	**3**
3	Bio-mechanical principles of orthotic application	**2**
4	Bio-mechanical principles of prosthetic application	**2**
5	Orthotic appliances for Hip, Knee, Ankle& foot - Prescription and design & modification	**2**
6	Spinal conditions inclusive of fractures, spondylolisthesis, kyphosis, scoliosis etc.	**2**
7	Upper limb conditions – splinting prescriptions with principles	**3**
8	Prosthesis – 8.1 Upper & lower limb; endo skeletal & exo skeletal, 8.2 Hip, knee & foot prosthetic components with k-levels 8.3 Upper limbs: cosmetic restoration, terminal devices (body powered), self-help devices (ADL equipment's), myoelectric, microprocessor / sensor controlled (externally powered) 8.4 Adaptive devices	**2**
	Total	**19**

COURSE OUTCOME	
CO1	To gain an understanding of general concepts of health, disease, and physical fitness.
CO2	To be able to describe rehabilitation policies and the role of councils in promoting physiotherapy in healthcare.
CO3	To develop strategies for assessing community morbidity and applying physiotherapy to improve recovery and compliance.
CO4	To gain knowledge for evaluating disability and planning effective prevention and rehabilitation.
CO5	To understand CBR models in urban and rural settings, WHO policies, teamwork, and the role of health workers.
CO6	To be able to identify contextual risk factors and plan physiotherapy interventions for vulnerable groups like women, elderly, and industrial workers.

COURSE ARTICULATION MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	1	1	-	-	-	-	-	-
CO2	1	2	-	-	-	-	1	-
CO3	1	1	1	1	-	-	-	1
CO4	1	2	1	-	-	-	-	-
CO5	1	2	1	-	-	-	-	-
CO6	-	-	1	1	-	-	-	-

"-" No correlation "1" Low "2" Moderate "3" High

STRUCTURE OF QUESTION PAPER- Theory

Duration: 3 Hours (Passing marks – 40)

Section – I (40 marks)	Que. 1 Multiple Choice Question	6 x 01 = 06	All Mandatory
	Que. 2 Very Short Answer	2 x 02 = 04	(Any 2 out of 3)
	Que. 3 Short Answer	4 x 05 = 20	(Any 4 out of 5)
	Que. 4 Long Answer	1 x 10 = 10	(Any 1 out of 2)
Section – II (40 marks)	Que. 5 Multiple Choice Question	6 x 01 = 06	All Mandatory
	Que. 6 Very Short Answer	2 x 02 = 04	(Any 2 out of 3)
	Que. 7 Short Answer	4 x 05 = 20	(Any 4 out of 5)
	Que. 8 Long Answer	1 x 10 = 10	(Any 1 out of 2)

BOOKS RECOMMENDED

Textbooks

1	Textbook of Rehabilitation-S sunder, 4th Edition, Jaypee Publication
2	Physiotherapy in Community Health Rehabilitation-Waqar Naqvi, 2nd Edition, Jaypee Publication
3	Parks Textbook of Preventive & Social Medicine K Park ,27th Edition Bhanot Publication
4	Short Textbook of prosthetics & orthotics R Chinnathurai Jaypee Publication