

Branch Name:	Bachelor Of Physiotherapy
Program Code:	PT101
Course Title:	Community Health Rehabilitation & Assistive Technologies
Course Code:	2PT1010404
Pre-requisite Course:	Human Anatomy, Human Physiology, Biomedical Physics

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)			Credit	Evaluation Scheme (Marks)					
Lecture	Tutorial	Practical		Theory(T)		Practical(P)		Total Marks	
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	Theory	Practical
01 + 0.5	-	0.5 + 0	2.5 +1	80 (40+40)	20 (10+10)	40	10	100	50

COMMUNITY HEALTH REHABILITATION

COURSE OUTCOMES:

At the end of the course, the candidate will be able to

1. Describe the general concepts about Health, Disease & Physical fitness.
2. Describe policies for the rehabilitation of disabled and Role of Council to promote physiotherapy as a health delivery system.
3. Describe the strategies to assess prevalence & incidence of various conditions responsible for increasing morbidity in the specific community, role of physiotherapy in reducing morbidity, expected clinical & functional recovery, reasons for non-compliance in specific community & environmental solution for the same.
4. Describe the evaluation of disability & planning for prevention & rehabilitation.
5. Describe CBR in urban & rural set up, WHO policies, concept of teamwork, role of multi- purpose health worker.
6. Identify with clinical reasoning the prevailing contextual (environmental & psychosocial, cultural) factors, causing high risk, responsible for various dysfunctions & morbidity related to lifestyle & specific community like women, aged, industrial workers & describe planning strategies of interventional policies to combat such problems.

Subject Contents:-

Sr. No.	Topic	Hours
1	Concepts of community health a) Preventive, promotive, restorative and rehabilitative b) WHO definition of health and disease c) Health delivery system - 3 tier	03
2	2 Disability types a) Physical & Psychological Evaluation, b) Prevention & Legislation related to Persons with Disability (PWD)	03
3.	CBR a) Definition	15

	b) Principles, types (institutional, reach out and community), concepts c) WHO policies d) Principles of Team work of medical practitioner, Physiotherapist e) Occupational Therapist f) Speech & Audiology Therapist g) Prosthetist & Orthotist h) Clinical psychologist i) Vocational counselor and social worker j) Role of Physiotherapy in team k) Concept of multipurpose health worker l) Role of Physiotherapy and strategies in 3 tier Health delivery system m) Communication strategies	
4.	Health Care a) Prevention, Promotion & Restoration b) In peri-pubertal age group c) In women-pregnancy and menopause d) In Geriatrics- neuromusculoskeletal, cardiovascular, pulmonary, metabolic and degenerative conditions e) In Obese / over weight f) In Cardiovascular and Pulmonary conditions g) In Diabetes h) Health promotion for all	05
5.	Women and child care a) Antenatal exercises, Specific Breathing exercises, Relaxation, Postural training, Pelvic floor strengthening exercises with clinical reasoning b) Physiotherapy during labor c) Postnatal exercises program after normal labor / labor with invasive procedures with clinical reasoning d) Menopause – Osteoporosis, Mental health, Physiotherapy management e) Preterm babies f) Adolescent age group g) Nutritional disorders in women and children	10
6.	Geriatrics a) Physiology of aging b) environmental changes and adaptations, balance and falls c) Role of Physiotherapy in geriatric population	10
7.	Physical fitness a) Energy system, b) Indurance c) Aerobic Exercise d) Pacing of activity	05
8.	Ergonomics	05
9.	IQ Testing	01

List of References:

Text Book:

1. Park's Text of Preventive & Social Medicine, K Park- 25th Edition.
2. Basics in Occupational Therapy and Therapeutic Activities , Punithan, Neelima -1st Edition.
3. Physiotherapy Care for Women's Health , Baranitharan, R- 1st Edition.

Reference Books:

1. Physiotherapy in Pregnancy Antenatal, Postnatal and Baby Care, Hiranandani, Malti – 1st Edition.

List of Open Source Software/learning website:

- k-hub.in e library/A single platform for all e resources (K-hub, E Resource)
 - User Name- KB4605VNG
 - Password- BL@69BX!
- knowledgegainer.delnet.in (Delnet, E Resource)
 - User Name-gjspum
 - Password- spu10924

ASSISTIVE TECHNOLOGIES

COURSE OUTCOMES:

At the end of the course, the candidate will be able to

1. Acquire knowledge about biomechanical principles of application of variety of aids & appliances used for ambulation, protection & prevention.
2. Acquire in brief knowledge about various materials used for splints/Orthosis.
3. Prostheses and selection criteria for splints/Orthosis Prosthesis.
4. Acquire the skill of fabrication of simple splints made out of low cost material

Subject Contents:-

Sr. No.	Topic	Hours
1	Introduction and terminology: prosthesis and orthosis	01
2	Classification of orthosis and prostheses	01
3.	Biomechanical principles of orthotic application	02
4.	Biomechanical principles of prosthetic application	02
5.	Orthotic appliances for Hip, Knee, Ankle & foot - Prescription and design & modification	02
6.	Spinal conditions inclusive of fractures, spondylolisthesis, kyphosis, scoliosis etc.	02
7.	Upper limb conditions – splinting prescriptions with principles	02
8	Prosthesis – 04 a) Upper & lower limb; endo skeletal & exo skeletal, b) Hip, knee & foot prosthetic components with k-levels c) Upper limbs: cosmetic restoration, terminal devices (body powered), self help devices (ADL equipments), myoelectric, microprocessor / sensor controlled (externally powered)	04
9	Psychological & Physiological aspects of orthotic and prosthetic application	01
10	Material used in fabrication of Prosthetics & Orthotics briefly	01
11	Mobility aids: Canes, crutches, walking frames, walkers, wheelchairs manual / electrically powered.	01

List of References:

Text Book:

1. Textbook of Rehabilitation, Sundar- 4th Edition.

Reference Books:

1. Assistive Technologies; Principles and Practice by Cook.A.M. & Hussey.S.M. 1st Edition.
2. Disability Evaluation by Demeter.S.L. & Andersson.G.B.I 1st Edition.

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 - User Name- KB4605VNG
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- knowledgegainer.delnet.in (Delnet, E Resource)
 - User Name-gjspum
 - Password- spu10924

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Understand the general concepts about Health, Disease & Physical fitness.	2 Understanding 3 Applying
CLO2	Describe CBR in urban & rural set up, WHO policies, concept of team work, role of multi- purpose health worker.	1 Remembering 2 Understanding 3 Applying.
CLO3	Evaluation of disability & planning for prevention & rehabilitation.	3 Applying 4 analyzing 5 Evaluating
CLO4	Acquire in brief knowledge about various materials used for splints/Orthosis & prostheses and selection criteria for splints/Orthosis & Prostheses.	4 analyzing 5 Evaluating
CLO5	Understand about the biomechanical principles of application of variety of aids & appliances used for ambulation, protection & prevention	1 Remembering 2 Understanding 3 Applying.
CLO6	Demonstrate the skill of fabrication of simple splints made out of low cost material.	4 analyzing 6 Creative

Mapping of CLOs with POs & PSOs

Course Learning Outcomes	Program Outcomes (POs)								Program Specific Outcomes (PSOs)							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8
CLO1	M								M							M
CLO2		M			M					M					M	
CLO3	H		M								L		H			
CLO4	H			M				M				L		M		M
CLO5					L	M				M			H		M	
CLO6			M				L	M								M

H=High M=Medium L=Low