

<b>Name of the Program</b>	<b>Bachelor of Physiotherapy</b>			<b>Year/ Semester:</b>	<b>IV year/ VII sem</b>
<b>Course Name</b>	<b>Physiotherapy &amp; Ethics</b>	<b>Course Code:</b>	<b>BPT-701</b>	<b>Type:</b>	<b>Theory</b>
<b>Credits</b>	<b>04</b>			<b>Total Sessions Hours:</b>	<b>40 Hours</b>
<b>Evaluation Spread</b>	<b>Internal Continuous Assessment :</b>	<b>30 Marks</b>		<b>End Term Exam:</b>	<b>70 Marks</b>
<b>Type of Course</b>	Compulsory	Core		Creative	✓ Life Skill
<b>Course Objectives</b>	<ol style="list-style-type: none"> <li>The objective of this course is that the student will be able to demonstrate a general understanding of the historical development of physiotherapy, emphasizing the importance of ethical practices within the profession.</li> <li>They should have a brief idea of the physiotherapy as a profession, Malpractice and negligence, Provision of services and, Advertising Legal aspects of the profession.</li> <li>Additionally, with this course the students would explore aspects of hospital administration and personnel management, preparing them for leadership roles in healthcare settings</li> </ol>				
<b>Course Outcomes (CO):</b> <i>After the successful course completion, learners will develop following attributes:</i>					
<b>CO1</b>	Students will gain a comprehensive understanding of the core ethical principles that guide physiotherapy practice, including autonomy, beneficence, non-maleficence, and justice.				
<b>CO2</b>	Students will develop the ability to apply ethical decision-making frameworks in real-world clinical scenarios, ensuring that patient care is both effective and ethically sound.				
<b>CO3</b>	Students will learn about the legal responsibilities of physiotherapists, including understanding relevant laws, regulations, and standards of practice within their jurisdiction.				
<b>CO4</b>	Students will be able to demonstrate the importance of patient-centered care, respecting patients' rights, dignity, and preferences while maintaining professional boundaries.				
<b>CO5</b>	Students will understand the importance of cultural competence in ethical practice, recognizing and respecting the diversity of patients' backgrounds and beliefs in their care.				
<b>Pedagogy</b>	Interactive, discussion-bases, student-centered, presentation.				
<b>Internal Evaluation Mode</b>	Mid-term Examination: 30 Marks Class test: 12 Marks Class participation or any other : 04 Marks Assignments/Project: 04 Marks Attendance: 04 Marks Class Presentation: 04 marks Bed Side behavior or Interaction in Class: 02 marks				

Session Details	Topic	Hours	Mapped CO
Unit 1	<b>History of physiotherapy-</b> Ethical principles in health care, Ethical principles related to physiotherapy, Scope of practice, Enforcing standards in health profession-promoting quality Care, Professional ethics in research, education and patient care delivery, Informed consent issues, Medical ethics and Economics in clinical decision-making	10	CO1 CO2
Unit 2	<b>Confidentiality and Responsibility and IAP Rules and Regulations</b> - Confidentiality and Responsibility, Malpractice and negligence, Provision of services and, Advertising. Legal aspects: Consumer protection act, Legal responsibility of physiotherapist for their action in professional context and understanding liability and obligations in case of medico legal action. IAP - Memorandum of Association & Rules and Regulations	15	CO3 & CO4
Unit 3	<b>Hospital administration and Personnel management</b> – 1.Hospital administration: 2.Personnel management	15	CO3,CO4 & CO5

#### CO-PO and PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	3	3	1	3	3	1	3	3
CO2	-	1	3	3	1	3	2	2	3	3
CO3	-	-	3	3	2	3	3	3	3	3
CO4	-	1	3	3	1	3	3	3	3	3
CO5	1	1	3	3	2	3	3	2	3	3

*Strong contribution-3, Average contribution-2, Low contribution-1,*

#### Suggested Readings:

<b>Text- Books</b>	1. Medical Ethics by C M Francis. 2. George V Lobo – Current Problems in Medical Ethics 3. Consumer Protection Act – 1986, Government of India, New Delhi.
<b>Reference Books</b>	1.Health Services Management, Analysis& Application, Wadsworth Publishing Company, Belmont
<b>Para Text</b>	<b>Unit 1:</b> <a href="https://www.youtube.com/watch?v=xL-3VXs22hA&amp;t=65s">https://www.youtube.com/watch?v=xL-3VXs22hA&amp;t=65s</a> <b>Unit 2:</b> <a href="https://www.youtube.com/watch?v=t1U53BcQVmo">https://www.youtube.com/watch?v=t1U53BcQVmo</a> <b>Unit 3:</b> <a href="https://www.youtube.com/watch?v=ΦπΘΕωβΑζ3Θω">https://www.youtube.com/watch?v=ΦπΘΕωβΑζ3Θω</a>

#### Recapitulation & Examination Pattern

##### Internal Continuous Assessment:

Component	Marks	Pattern
Class test	12	Contains <b>01 long question.</b> Question carries <b>04Marks.</b> <b>02 Short questions.</b> Each question carries <b>02Marks</b> <b>04 multiple choice questions.</b> Each question carries <b>01Marks</b>
Class participation or any other	04	This to be made on activities and instruction given by subject teacher.

Marks Assignments/Project:	04	Assignment to be made on topics and instruction given by subject teacher
Class Presentation:	04	This to be made on topics and instruction given by subject teacher
Bed Side behavior or Interaction in Class	02	This to be made on activities and instruction given by subject teacher.
Attendance	04	As per policy
<b>Total Marks</b>	<b>30</b>	

<b>Name of the Program</b>	<b>Bachelor of Physiotherapy</b>			<b>Year/ Semester:</b>	<b>IV year/ VII sem</b>
<b>Course Name</b>	<b>Pt in general medical &amp; surgical conditions</b>	<b>Course Code:</b>	<b>BPT-703/ BPP 703</b>	<b>Type:</b>	<b>Theory/ Practical</b>
<b>Credits</b>	<b>05</b>			<b>Total Sessions Hours:</b>	<b>60 Hours</b>
<b>Evaluation Spread</b>	<b>Internal Continuous Assessment :</b>	<b>30 Marks</b>		<b>End Term Exam:</b>	<b>70 Marks</b>
<b>Type of Course</b>	Compulsory	✓ Core		Creative	Life Skill
<b>Course Objectives</b>	<ol style="list-style-type: none"> <li>1. The objective of this course is that the student will be able to acquire knowledge and analyze Cardiovascular, Pulmonary, Skin, ENT and Brain conditions.</li> <li>2. They should have a brief idea of the basic investigative approaches in the medical system and surgical conditions.</li> <li>3. The course aims to equip students with the knowledge and skills to assess, manage, and rehabilitate patients with various medical and surgical conditions</li> <li>4. It covers the role of physiotherapy in pre- and post-operative care, pain management, respiratory care, and mobility restoration. The course also emphasizes evidence-based practices and the development of patient-centered treatment plans.</li> </ol>				
<b>Course Outcomes (CO):</b> <i>After the successful course completion, learners will develop following attributes:</i>					
<b>CO1</b>	Students will gain a deep understanding of the pathophysiology of common medical and surgical conditions, including respiratory, cardiovascular, neurological, musculoskeletal, and integumentary systems.				
<b>CO2</b>	Proficiency in conducting comprehensive assessments of patients with medical or surgical conditions. This includes taking a detailed patient history, performing physical examinations, and using diagnostic tools relevant to physiotherapy.				
<b>CO3</b>	Skills in managing post-operative rehabilitation, including early mobilization, pain management, prevention of complications, and functional recovery.				
<b>CO4</b>	Competence in educating patients and their families about their conditions, the role of physiotherapy, and self-management strategies.				
<b>CO5</b>	The student will be able to access, interpret, and apply current research and clinical guidelines in the management of patients with general medical and surgical conditions.				
<b>Pedagogy</b>	Interactive, discussion-bases, student-centered, presentation.				
<b>Internal Evaluation Mode</b>	Mid-term Examination: 30 Marks Class test: 12 Marks Class participation or any other : 04 Marks Assignments/Project: 04 Marks Attendance: 04 Marks Class Presentation: 04 marks Bed Side behavior or Interaction in Class: 02 marks				

Session Details	Topic	Hours	Mapped CO
Unit 1	1. <b>PT management in liver diseases and Cardio-vascular System -PT management in Nutritional &amp; Metabolic Diseases</b> 2. <b>PT management in Alimentary tract</b> 3. <b>PT management in liver diseases</b> 4. <b>PT management in Diseases of skin</b>	20	CO1 & CO4
Unit 2	1 <b>PT management in Peripheral nerve disorders and Wounds management</b> 5. <b>PT management in Developmental and degenerative syndromes</b> 6. <b>PT management in Peripheral nerve disorders –</b> 7. <b>PT management in Wounds:</b> 8. <b>PT management in Burn and Skin Grafts</b>  <b>Practical- Practice based on exercise for ataxia or frenkles's exercise.</b> <b>Practice based on assessment for M.N.D</b>	20	CO1 CO2 & CO4
Unit 3	9. <b>PT management in Surgical Oncology and ENT conditions</b> 10. <b>PT management in Surgical Oncology</b> 11. <b>PT management in Diseases of the Arteries and Veins</b> 12. <b>PT management in following ENT conditions - Common problems of ear, otitis media, Otosclerosis</b> 13. <b>PT management in following Ophthalmology conditions: ptosis, defects of the external rectus, cataract, refractions, pleoptic exercises.</b>  <b>Practical- Assessment for ENT conditions</b>	20	CO2 CO3& CO5

#### CO-PO and PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	3	3	3	1	2	1	-	2
CO2	3	3	3	3	3	1	3	1	-	2
CO3	2	3	3	2	2	1	3	-	-	2
CO4	1	1	3	3	1	-	3	1	2	1
CO5	1	1	2	-	3	-	2	-	-	3

*Strong contribution-3, Average contribution-2, Low contribution-1,*

#### Suggested Readings:

<b>Text- Books</b>	Cash's Text book of General Medicine and Surgical conditions for Physiotherapists
<b>Reference Books</b>	1. Cash's Text book of General Medicine and Surgical conditions for Physiotherapists

<b>Para Text</b>	<b>Unit 1</b> <a href="https://www.youtube.com/watch?v=pt_MgB6t49g">https://www.youtube.com/watch?v=pt_MgB6t49g</a> <b>Unit 2:</b> <a href="https://www.youtube.com/watch?v=EwAQL5R-0f4">https://www.youtube.com/watch?v=EwAQL5R-0f4</a> <b>Unit 3:</b> <a href="https://www.youtube.com/watch?v=of4GDj7x2k">https://www.youtube.com/watch?v=of4GDj7x2k</a>
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### Recapitulation & Examination Pattern

#### Internal Continuous Assessment:

Component	Marks	Pattern
Class test	12	Contains <b>01 long question</b> . Question carries <b>04Marks</b> . <b>02 Short questions</b> . Each question carries <b>02Marks</b> <b>04 multiple choice questions</b> . Each question carries <b>01Marks</b>
Class participation or any other	04	This to be made on activities and instruction given by subject teacher.
Marks Assignments/Project:	04	Assignment to be made on topics and instruction given by subject teacher
Class Presentation:	04	This to be made on topics and instruction given by subject teacher
Bed Side behavior or Interaction in Class	02	This to be made on activities and instruction given by subject teacher.
Attendance	04	As per policy
<b>Total Marks</b>	<b>30</b>	

<b>Name of the Program</b>	<b>Bachelor of Physiotherapy</b>			<b>Year/Semester:</b>	IV year/VII sem
<b>Course Name</b>	<b>PT In Pediatric Conditions</b>	<b>Course Code:</b>	<b>BPT 703/BPP703</b>	<b>Type: 7th Sem</b>	<b>Theory &amp; Practical</b>
<b>Credits</b>	<b>05</b>			<b>Total Sessions Hours:</b>	<b>60 Hours</b>
<b>Evaluation Spread</b>	<b>Internal Continuous Assessment:</b>		<b>30 Marks</b>	<b>End Term Exam:</b>	<b>70 Marks</b>
<b>Type of Course</b>	Compulsory	✓ Core		Creative	Life Skill
<b>Course Objectives</b>	<ol style="list-style-type: none"> <li>1. The objective of this course is to provide the students with an in depth knowledge about normal growth and developmental milestones in children, including motor, sensory, cognitive and social development.</li> <li>2. Students will develop the understanding of the anatomical and physiological differences between children and adults that impact physiotherapy approaches.</li> <li>3. Students will develop the skills to perform comprehensive assessments of pediatric patients and use of standardized outcome measures.</li> <li>4. Students will learn the pathophysiology, clinical manifestations, and progression of common pediatric conditions that require physiotherapy intervention.</li> </ol>				
<b>Course Outcomes(CO):</b> <i>After the successful course completion ,learners will develop following attributes:</i>					
<b>CO1</b>	To understand about General & Physiotherapy assessment in Pediatric conditions with Physiotherapy Management.				
<b>CO2</b>	Student should be able to understand the normal development of child along with associated abnormalities, developmental disorders, movement disorders with physiotherapy management				
<b>CO3</b>	Student should be able to understand Physiotherapy management in brain damage, developmental disorders, rheumatic heart disease and understanding the detection of abnormalities in neurodevelopment process.				
<b>CO4</b>	Student should be able to understand the physiotherapy management in Poliomyelitis, spinal dysraphism, hydrocephalus, meningitis, encephalitis muscular dystrophies & chorea.				
<b>Pedagogy</b>	Interactive, discussion-based, student-centered, presentation.				
<b>Internal Evaluation Mode</b>	Mid-term Examination: 30 Marks Class test: 12 Marks Class participation or any other : 04 Marks Assignments/Project: 04 Marks Attendance: 04 Marks Class Presentation: 04 Bed Side behavior or Interaction in Class: 02				
<b>Session Details</b>	<b>Topic</b>	<b>Hours</b>	<b>MappedCO</b>		
<b>Unit1</b>	<b>Assessment of pediatric patient</b> Bedside assessment of pediatric patients in IPD Clinical assessment and examination of pediatric patients with all the special tests and assessment scales <b>Neurodevelopment &amp; associated abnormalities</b> Developmental milestones, Reflexes, Reactions, Tone, Movement, Motor & Mental age, Posture, Balance &	12	CO1		

	Locomotion, identification of Primary & Secondary dysfunction													
<b>Unit2</b>	<b>PT management in Brain damage and Developmental disorders</b> -Cerebral palsy -Hydrocephalus -Autism -Down's syndrome -Spinabifida -Syringomyelia <b>Respiratory tract disorders -</b> URI, LRI, bronchiolitis, asthma, TB. <b>Rheumatic heart disease &amp; Childhood rheumatism</b> -SABE -Congenital heart disease - ASD, VSD, PDA.								15	CO2				
<b>Unit3</b>	<b>PT management in infections</b> Physiotherapy in Poliomyelitis, spinal dysraphism, meningitis & encephalitis with reference to sensory care, motor training, bladder training, prevention & treatment of deformities, balance training, orthotic & adaptive devices. <b>Muscular dystrophies &amp; movement disorders</b> Plan & implement appropriate treatment for muscular dystrophies / atrophies, chorea with reference to strengthening exercises, stretching, splinting, recreation, home adaptations, school, lifting techniques, prolongation of ambulation, wheel-chair modification & adaptive devices.								13	CO3				
<b>Practical</b>	1. Practical based on bedside assessment and managements in neurological pediatric conditions 2. Demonstration of pediatric exercise and rehabilitative equipments 3. Testing of neonatal reflexes 4. Testing of tone and movements 5. Testing of different milestones 6. Practical based on assessment for providing splints 7. Practical based on lifting techniques 8. Practical based on special techniques of physiotherapy management in pediatric								20 Hours					
<b>CO-POandPSOMapping</b>														
<b>CO</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>	<b>PSO5</b>	<b>PSO6</b>
CO1	3	-	2	1	1	1	3	3	-	-	-	-	-	-
CO2	3	2	2	3	3	2	2	3	-	-	-	-	-	-
CO3	3	3	3	3	3	3	2	3	-	-	-	-	-	-
CO4	3	3	3	3	3	2	1	3	-	-	-	-	-	-
<i>Strongcontribution-3, Averagecontribution-2, Lowcontribution-1,</i>														
<b>SuggestedReadings:</b>														
<b>ReferenceBooks</b>	1. Tidy's Physiotherapy 2. Cash Textbook of Neurology													



### 3. Physical Rehabilitation Assessment and Treatment – O’Sullivan Schmitz

#### ParaText

1. <https://youtu.be/g4HdXxz25pw?si=8d4tPZyH4dyvPoUH>
2. <https://youtu.be/QQzfhX4JYtg?si=IOmSw7xBG-9GNx2R>
3. <https://youtu.be/F7EiFDd4Jdk?si=Xpl-Cy6jmv0RoR8l>
4. <https://youtu.be/vqln6kOBNQY?si=W7rDmZMlryOMFMkJ>
5. <https://youtu.be/rHYk1sYsge0?si=BduqhownZi84sfKm>
6. [https://youtu.be/Ka5s-RFbNsw?si=W31J\\_4xVY13uShlw](https://youtu.be/Ka5s-RFbNsw?si=W31J_4xVY13uShlw)
7. <https://youtu.be/17plANccWy8?si=cUEao4Lodm8oayR9>

#### Recapitulation & Examination Pattern

##### Internal Continuous Assessment:

Component	Marks	Pattern
Class test	12	Contains <b>01 long question.</b> question carries <b>04Marks.</b> <b>02 Short questions.</b> Each question carries <b>02Marks</b> <b>04 multiple choice questions.</b> Each question carries <b>01Marks</b>
Class participation or any other	04	This to be made on activities and instruction given by subject teacher.
Marks Assignments/Project:	04	Assignment to be made on topics and instruction given by subject teacher
Class Presentation:	04	This to be made on topics and instruction given by subject teacher
Bed Side behavior or Interaction in Class	02	This to be made on activities and instruction given by subject teacher.
Attendance	04	As per policy
<b>Total Marks</b>	<b>30</b>	

<b>Name of the Program</b>	<b>Bachelor of Physiotherapy</b>			<b>Year/ Semester:</b>	<b>IV year/ VII sem</b>
<b>Course Name</b>	<b>PT in Sports</b>	<b>Course Code:</b>	<b>BPT 704/ BPP 704</b>	<b>Type:</b>	<b>Theory+ Practical</b>
<b>Credits</b>	<b>05</b>			<b>Total Sessions Hours:</b>	<b>60 Hours</b>
<b>Evaluation Spread</b>	<b>Internal Continuous Assessment:</b>	<b>30 Marks</b>		<b>End Term Exam:</b>	<b>70 Marks</b>
<b>Type of Course</b>	Compulsory	✓ Core		Creative	Life Skill
<b>Course Objectives</b>	Students will learn about evaluation, examination and management of different sports conditions also implementation of evidence based practical approach.				
<b>Course Outcomes (CO):</b> <i>After the successful course completion, learners will develop following attributes:</i>					
<b>Course Outcome (CO)</b>	<b>Attributes</b>				
<b>CO1</b>	Students will acquire knowledge about Pre-exercise evaluation, Physiological effects of exercise on different systems of human body.				
<b>CO2</b>	Student will be able to manage physiotherapy management of different upper limb soft tissues injuries.				
<b>CO3</b>	Student able to evaluate functional muscular strength and design the various rehabilitation protocols for different sports conditions.				
<b>CO4</b>	Student will understand about Principles of injury prevention & training Rehabilitation of sports injuries in Special age groups.				
<b>Pedagogy</b>	Interactive, discussion-bases, student-centered, presentation.				
<b>Internal Evaluation Mode</b>	Mid-term Examination: 30 Marks Class test: 12 Marks Class participation or any other : 04 Marks Assignments/Project: 04 Marks Attendance: 04 Marks Class Presentation: 04 Bed Side behavior or Interaction in Class: 02				
<b>Session Details</b>	<b>Topic</b>			<b>Hours</b>	<b>Mapped CO</b>
<b>Unit 1</b>	<b>1. Pre-exercise evaluation, Physiological effects of exercise on body systems</b> Pre-exercise evaluation, Diet and nutrition Measurement of fitness components and sports skills - Measurement of muscular strength, Measurement of muscular endurance, Measurement of flexibility, Determination exercise endurance, Physiological effects of exercise on body systems - Muscular system, Endocrine system, Cardio-respiratory system, Nervous system			10	CO1

<b>Unit 2</b>	<b>Physiotherapy in soft tissue injuries of spine &amp; face</b> <b>Head &amp; face</b> – maxillofacial injuries, helmet compression syndrome. Soft Tissue Injuries - Define terms such as sprains, strains, contusion, tendinitis, rupture, tenosynovitis, tendinosis, bursitis. <b>Spine</b> – PIVD, Kissing spine, cervical whiplash injuries, Facet joint syndrome, SI joint dysfunction.	5	CO2
<b>Unit 3</b>	<b>Physiotherapy in soft tissue injuries of the upper limb &amp; lower limb</b> <b>Shoulder</b> – instability, rotator cuff injury, biceps tendonitis and rupture, pectoralis major rupture, scapular dyskinesis and acromio-clavicular joint injuries, <b>Elbow</b> – tennis elbow, golfer's elbow, Wrist and hand – carpal tunnel syndrome, gamekeeper's thumb. <b>Hip</b> – muscle strain, piriformis syndrome, ITB syndrome, osteitis pubis, <b>Knee</b> – menisci, cruciate, collateral, osteochondritis, Chondromalacia patellae, biceps femoris tendonitis, swimmers knee, patello-femoral pain syndrome, <b>Leg &amp; ankle</b> – shin splint, achillis tendonitis & rupture, TA bursitis, ankle sprain, plantar fasciitis, turf toe syndrome,	15	CO3
<b>Unit 4</b>	<b>Principles of injury prevention. Principles of training &amp; Rehabilitation in sports injuries</b> • <b>Sports in Special age groups:</b> Female athletic triad, Younger athlete- Musculoskeletal problems, management, children with chronic illness and nutrition. Older athlete- Physiological changes with aging, benefits, risks of exercise in elderly. exercise prescription guidelines For elderly.	10	CO4
<b>Practical</b>	Pre-exercise evaluation Measurement of fitness components and sports skills. First Aid, Emergency medical skills and On field Management. Special Physiotherapy Technique used in management of Sports Rehabilitation Tests of neural tension. Special Manual Therapy for different Sports Injuries.	20	

#### CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	2		2		2		1	3
CO2	2				1			2	1	3
CO3	1	2		3			1			
CO4				1		2		3		2

*Strong contribution-3, Average contribution-2, Low contribution-1,*

#### Suggested Readings:

##### Reference Books-

1. Prentice, William E., Rehabilitation Techniques in Sports Medicine, St. Louis: McGraw Hill Publishing Company.
2. Gray, Gary W., Lower Extremity Functional Profile, 1st Edition, Adrian, MI: Wynn Marketing.
3. Prentice, W., "Therapeutic Modalities for Allied Health Professionals" McGraw Hill.
4. Norkin & White: Measurement of Joint Motion - A Guide to Goniometry - F.A Davis.
5. Dvir: Isokinetics: Muscle Testing, Interpretation and Clinical Applications, W.B. Saunders.

e-Learning Source:	<ol style="list-style-type: none"> <li>1. <a href="https://www.researchgate.net/publication/278786039_'Shin_Splints'_-_Medial_Tibial_Stress_Syndrome_A_Review_of_the_Literature">https://www.researchgate.net/publication/278786039_'Shin_Splints'_-_Medial_Tibial_Stress_Syndrome_A_Review_of_the_Literature</a></li> <li>2. <a href="https://www.researchgate.net/publication/7535422_Sports_massage_A_comprehensive_review">https://www.researchgate.net/publication/7535422_Sports_massage_A_comprehensive_review</a></li> <li>3. <a href="https://www.weber.edu/wsuiimages/employee_wellness/Resistance%20Training.pdf">https://www.weber.edu/wsuiimages/employee_wellness/Resistance%20Training.pdf</a></li> </ol>
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<b>Recapitulation &amp; Examination Pattern</b>		
<b>Internal Continuous Assessment:</b>		
<b>Component</b>	<b>Marks</b>	<b>Pattern</b>
Class Test	12	Contains <b>01 long question</b> . Question carries <b>04Marks</b> . <b>02 Short questions</b> . Each question carries <b>02Marks</b> <b>04 multiple choice questions</b> . Each question carries <b>01Marks</b>
Class participation or any other	04	This to be made on activities and instruction given by subject teacher.
Marks Assignments/Project:	04	Assignment to be made on topics and instruction given by subject teacher
Class Presentation:	04	This to be made on topics and instruction given by subject teacher
Bed Side behavior or Interaction in Class	02	This to be made on activities and instruction given by subject teacher.
Attendance	04	As per policy
<b>Total Marks</b>	<b>30</b>	

Name of the Program	BPT			Year/ Semester:	IV year/VII sem
Course Name	COMMUNITY BASED REHABILITATION	Course Code:	BPT 705	Type:	Theory
Credits	04			Total Sessions Hours:	40 Hours
Evaluation Spread	Internal Continuous Assessment	30 Marks		End Term Exam:	70 Marks
Type of Course	Compulsory	• Core		Creative	Life Skills
Course Objectives	1. Incorporate evidence based practice into clinical decisions of patient care and Management.				
<b>Course Outcomes (CO):</b> After the successful course completion, learners will develop following attributes:					
CO1	Understand CBR Framework				
CO2	Design and Implement Programs				
CO3	Conduct Needs Assessments				
CO4	Collaborate and Advocate				
CO5	Evaluate and Ensure Sustainability				
Pedagogy	Interactive, discussion-bases, student-centered, presentation.				
Internal Evaluation Mode	Mid-term Examination: 30 Marks Class test: 12 Marks Class participation or any other : 04 Marks Assignments/Project: 04 Marks Attendance: 04 Marks Class Presentation: 04 Bed Side behavior or Interaction in Class: 02				
Session Details	Topic			Hours	Mapped CO
UNIT 1	<b>Introduction to Community Based Rehabilitation</b> a. <b>Community:</b> Definition of Community, Multiplicity of Communities, The Community based approach, Community Entry strategies, CBR and Community development, Community initiated versus community oriented programme, Community participation and mobilization <b>Introduction to Community Based Rehabilitation:</b> b. Definition, Historical review, Concept of c. CBR, Need for CBR, Difference between Institution based and Community based			14	CO1

	<p>d. Rehabilitation, Objectives of CBR, Scope of CBR, Members of CBR team, Models of CBR</p> <p>e. <b>Principles of Community based Rehabilitation.</b> W.H.O.'s policies-about rural health</p> <p>f. Care concept of primary /tertiary health centers-district hospitals etc-Role of P.T.-Principles of a</p> <p>g. team work of Medical person/P.T./O.T. audiologist/speech therapist /P.&amp;O./vocational guide</p> <p>h. in C.B.R. of physically handicapped person , Agencies involved in rehabilitation of physical</p> <p>i. handicapped - Legislation for physically handicapped. Concept of multipurpose health worker.</p> <p>j. Role of family members in the rehabilitation of a physically handicapped.</p> <p>k. <b>Planning and management of CBR Programmes,</b> CBR Programmed planning and management,Ownership and Governance, Decentralization and CBR, Management of CBR, Programmed sustainability, Communication and Coordination, Community participation, mobilization and awareness, CBR programme influence on promoting and developing public policies.</p>		
UNIT 2	<p><b>CBR Programmes</b></p> <p>a. <b>Disability:</b> Definition of Impairment, Handicap and Disability, Difference between impairment, handicap and disability, Causes of disability, Types of disability, Prevention of disability, Disability in developed countries, Disability in developing countries. Disability Surveys: Demography. Screening: Early detection of disabilities and developmental disorders, Prevention of disabilities- Types and levels. Disability Evaluation Introduction.</p> <p>b. <b>Role of Government in CBR:</b> Laws, Policies, Programmes, Human Rights Policy, Present rehabilitation services, Legal aspects of rehabilitation</p> <p>c. <b>Role of Social work in CBR:</b> Definition of social work, Methods of social work, History of social work, Role of social worker in rehabilitation.</p> <p>d. <b>Role of voluntary Organizations in CBR:</b> Charitable Organizations, Voluntary health agencies National level and International NGO's, Multilateral and Bilateral agencies. International Health Organizations: WHO, UNICEF, UNDP, UNFPA, FAO, ILO, World bank, USAID, SIDA, DANIDA, Rockefeller, Ford foundation, CARE, RED CROSS.</p>	13	CO2 CO3

<b>UNIT 3</b>	<b>Screening and rehabilitation of pediatrics disorders in the community</b>	<b>13</b>	<b>CO5</b>
	a. <b>National District Level Rehabilitation Programme:</b> Primary rehabilitation unit, Regional training center, District rehabilitation center, Primary Health center, Village rehabilitation Worker, Anganwadi worker.		<b>CO2</b>
	b. <b>Role of Physiotherapy in CBR:</b> Screening for disabilities, Prescribing exercise programme, Prescribing and devising low cost locally available assistive aids, Modifications physical and architectural barriers for disabled, Disability prevention, Strategies to improve ADL, Rehabilitation programmes for various neuromusculoskeletal and cardiothoracic disabilities.		<b>CO4</b>
	c. <b>Screening and rehabilitation of pediatric disorders in the community:</b> Early detection of high-risk babies, Maternal nutrition and education, Rehabilitation of Cerebral Palsy, Polio, Down's syndrome, Muscular Dystrophies etc., Prevention and rehabilitation of mental retardation And Behavioral disorders, Immunization programmes, early intervention in high risk babies, Genetic counseling.		<b>CO3</b>
	d. <b>Extension services and mobile units:</b> Introduction, Need, Camp approach.		
e. <b>Vocational training in rehabilitation:</b> Introduction, Need, Vocational evaluation, Vocational rehabilitation services.			

**CO-PO and PSO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	-	-	-	3	3	2	-	-	-	1
CO2	-	-	-	-	1	1	-	-	-	1
CO3	-	-	-	3	1	2	-	-	-	1
CO4	-	-	-	-	1	1	-	-	-	2
CO5	-	-	-	3	2	2	-	-	-	1

*Strong contribution-3, Average contribution-2, Low contribution-1,*

**Suggested Readings:**

<b>Text- Books</b>	1. Textbook of rehabilitation – Sunder
<b>Reference Books</b>	1. Rehabilitation Medicine by Howard A Rusk. 2. Rehabilitation Medicine by Joel A De Lisa.
<b>Para Text</b>	• <a href="https://www.youtube.com/watch?v=IW85btn4XnA">https://www.youtube.com/watch?v=IW85btn4XnA</a>

**Recapitulation & Examination Pattern**

**Internal Continuous Assessment:**

Component	Marks	Pattern
Class Test	12	Contains <b>01 long question.</b> Question carries <b>04Marks.</b> <b>02 Short questions.</b> Each question carries <b>02Marks</b> <b>04 multiple choice questions.</b> Each question carries <b>01Marks</b>
Class participation or any other	04	This to be made on activities and instruction given by subject

		teacher.
Marks Assignments/Project:	04	Assignment to be made on topics and instruction given by subject teacher
Class Presentation:	04	This to be made on topics and instruction given by subject teacher
Bed Side behavior or Interaction in Class	02	This to be made on activities and instruction given by subject teacher.
Attendance	04	As per policy
<b>Total Marks</b>	<b>30</b>	



## BACHELOR OF PHYSIOTHERAPY

Era University, Lucknow

Course Outline: 2024-2025

<b>Name of the Program</b>	<b>Bachelor of Physiotherapy</b>			<b>Year/ Semester:</b>	<b>IV year/VII sem</b>
<b>Course Name</b>	<b>Bioengineering</b>	<b>Course Code:</b>	<b>BPT 706/ BPP 706</b>	<b>Type:</b>	<b>Theory/ Practical</b>
<b>Credits</b>	<b>05</b>			<b>Total Sessions Hours:</b>	<b>60 Hours</b>
<b>Evaluation Spread</b>	<b>Internal Continuous Assessment:</b>	<b>30 Marks</b>		<b>End Term Exam:</b>	<b>70 Marks</b>
<b>Type of Course</b>	Compulsory	✓ Core		Creative	Life Skill
<b>Course Objectives</b>	The objectives of this course is that students will learn problem solving skills using bioengineering principles and apply bioengineering to real world problems and projects. Students will learn in improving human health and quality of life through bioengineering advancements. This course aims to gain knowledge and skills to assess, manage and rehabilitate patients.				
<b>Course Outcomes (CO):</b> <i>After the successful course completion, learners will develop following attributes:</i>					
<b>CO1</b>	Students will understand about bioengineering tools, equipments, implants and biomaterials.				
<b>CO2</b>	Student will understand about different medical devices, prosthesis, orthosis.				
<b>CO3</b>	Students will understand on how to enhance mobility and independency for individuals with disabilities.				
<b>Pedagogy</b>	Interactive, discussion-bases, student-centered, presentation.				
<b>Internal Evaluation Mode</b>	Mid-term Examination: 30 Marks Class test: 12 Marks Class participation or any other : 04 Marks Assignments/Project: 04 Marks Attendance: 04 Marks Class Presentation: 04 Bed Side behavior or Interaction in Class: 02				
<b>Session Details</b>	<b>Topic</b>			<b>Hours</b>	<b>Mapped CO</b>

<p><b>Unit 1</b></p>	<p><b>Introduction to bio-engineering and Classification of Aids &amp; Appliances.</b></p> <p><b>Introduction to surgical anatomy and various pathological deviations with respect to brace fitting.</b></p> <p><b>Classification of Aids &amp; Appliances</b></p> <p><b>-Biomechanical principles in designing of appliances,</b>  <b>-Assessment procedures for static and dynamic alignment of Aids &amp; Appliances</b></p>	<p>20</p>	<p>CO1</p>
<p><b>Unit 2</b></p>	<p><b>Rationale of prescribing Prosthetic and Orthotic devices: Types of Prosthetic and Orthotic devices - Splints /Orthoses for spine and upper &amp; Lower extremities/ Prostheses for Upper and Lower limbs including;-</b></p> <p><b>I. cock up [dorsal/volar,</b></p> <p><b>II. Outrigger,</b></p> <p><b>III. Opponens splint</b></p> <p><b>IV. Anterior and posterior guard splints,</b></p> <p><b>V. Foot drop splint</b></p> <p><b>VI. Facial splint</b></p> <p><b>VII. Mallet Finger Splint</b></p> <p><b>VIII. C bar for 1st web space of hand</b></p>	<p>20</p>	<p>CO2</p>
<p><b>Unit 3</b></p>	<p><b>Prescription of Walking aids and wheel chairs</b></p> <p>Project- Following temporary splints to be fabricated by using P.O.P/ aluminum strips /sheets /wires / rubber bands / rexin / Orfitetc</p> <p>Walking aids and wheel chairs: prescription, usage advice, and follow-up.</p>	<p>20</p>	<p>CO3</p>

<b>CO-PO and PSO Mapping</b>										
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	3	3	2	1	2	-	-	3
CO2	3	2	3	3	3	-	2	2	-	2
CO3	3	3	3	3	2	-	3			
Strong contribution-3, Average contribution-2, Low contribution-1,										
<b>Suggested Readings:</b>										
<b>Text- Books</b>	Physical rehabilitation by S. Sunder									
<b>Reference Books</b>	1. Atlas of Orthotics - AAOS 2. Orthotics and Prosthetic in Rehab – Lusardi									
<b>Para Text</b>	<b>Unit 1:</b> <a href="https://youtu.be/VmHBADXeCy8">https://youtu.be/VmHBADXeCy8</a> <b>Unit 2:</b> <a href="https://youtu.be/qw_m-gteuSY?feature=shared">https://youtu.be/qw_m-gteuSY?feature=shared</a> <b>Unit 3:</b> <a href="https://youtu.be/8qL1XjfkEnk?feature=shared">https://youtu.be/8qL1XjfkEnk?feature=shared</a>									
<b>Recapitulation &amp; Examination Pattern</b>										
<b>Internal Continuous Assessment:</b>										
<b>Component</b>	<b>Marks</b>	<b>Pattern</b>								
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<b>Total Marks</b>	<b>30</b>									