

Program Structure Template

School of Allied Health Sciences Bachelor of Physiotherapy

Batch - (2020-24)

Program Code – SAH0103



- 1. Standard Structure of the Program at University Level
- 1.1 Vision, Mission and Core Values of the University

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience
- 2. Enrichment by educational initiatives that encourage global outlook
- 3. Develop research, support disruptive innovations and accelerate entrepreneurship
- 4. Seeking beyond boundaries

Core Values

- Integrity
- Leadership
- Diversity
- Community



1.2 Vision and Mission of the School

Vision of the School

To steer the School of Allied Health Sciences towards excellence in academics, innovation and entrepreneurship by constant endeavors

Mission of the School

- To create the state of the art facility for quality teaching learning, research & innovation
- 2. To incorporate the contemporary standards in teaching & learning
- 3. To inculcate in the students values of integrity and compassion towards the care of patients and society.

Core Values

- 1. Critical Thinking and Observation
- 2. Analytical Skills
- 3. Creativity
- 4. Skilled professional
- 5. Multidimensional
- 6. Compassion
- 7. Management



1.3 Programme Educational Objectives (PEO)

PEO 1.(Technical Knowledge and Skill): To educate students with the understanding of Physiotherapy, and to build foundation for theories and practical in the areas of Anatomy, Physiology, Biomechanics, Exercise therapy, Electro therapy, Orthopedics, Neurology, Cardiopulmonary, Sports, Research and to develop students' design skills through Good Laboratory Practice.

PEO 2.(Higher Studies and Life-long Learning): To provide students with sufficient breadth and depth in Physiotherapy and related areas. To keep up the high standards, value the recent research and apply the best available evidence to their everyday practice, and to enable for higher studies and lifelong learning programs.

PEO 3. (Societal Context, Ethics and Communication Skills): To make the students think of technical solutions for social needs improving living quality with ethical responsibilities in Industry/Government organizations, and to develop students' communication skills to undertake professional responsibilities & multidisciplinary team works.



1.3.2 Map PEOs with Mission Statements:

PEO Statements	School	School	School
	Mission 1	Mission 2	Mission 3
PEO1:	3	3	3
PEO2:	3	2	2
PEO3:	3	3	3

1. Slight (Low) 2. Moderate (Medium) 3. Substantial (High)



1.3.3 Program Outcomes (PO's)

PO1: Physiotherapy Knowledge.

PO2: Problem analysis

PO3: Design/development of solutions

PO4: Professional Identity

PO5: Physiotherapy and society

PO6 : Basic medical Knowledge

PO7 : Ethics

PO8 : Individual or team work

PO9 : Communication

PO10 : Physiotherapy Patient evaluation & management

PO11 : Life-long Learning



1.3.4 Mapping of Program Outcome Vs Program Educational Objectives

	PEO1	PEO2	PEO3	PEO4	PEO5
PO1	2	3	3	2	3
PO2	2	3	3	2	3
PO3	2	2	3	3	3
PO4	3	3	3	3	2
PO5	3	3	3	3	2
PO6	2	2	3	2	2
PO7	2	2	3	3	3
PO8	3	3	3	3	2
PO9	3	2	3	2	3
PO10	3	3	2	3	3
PO11	2	3	2	2	3

1. Slight (Low)

2. Moderate (Medium)

3. Substantial (High)



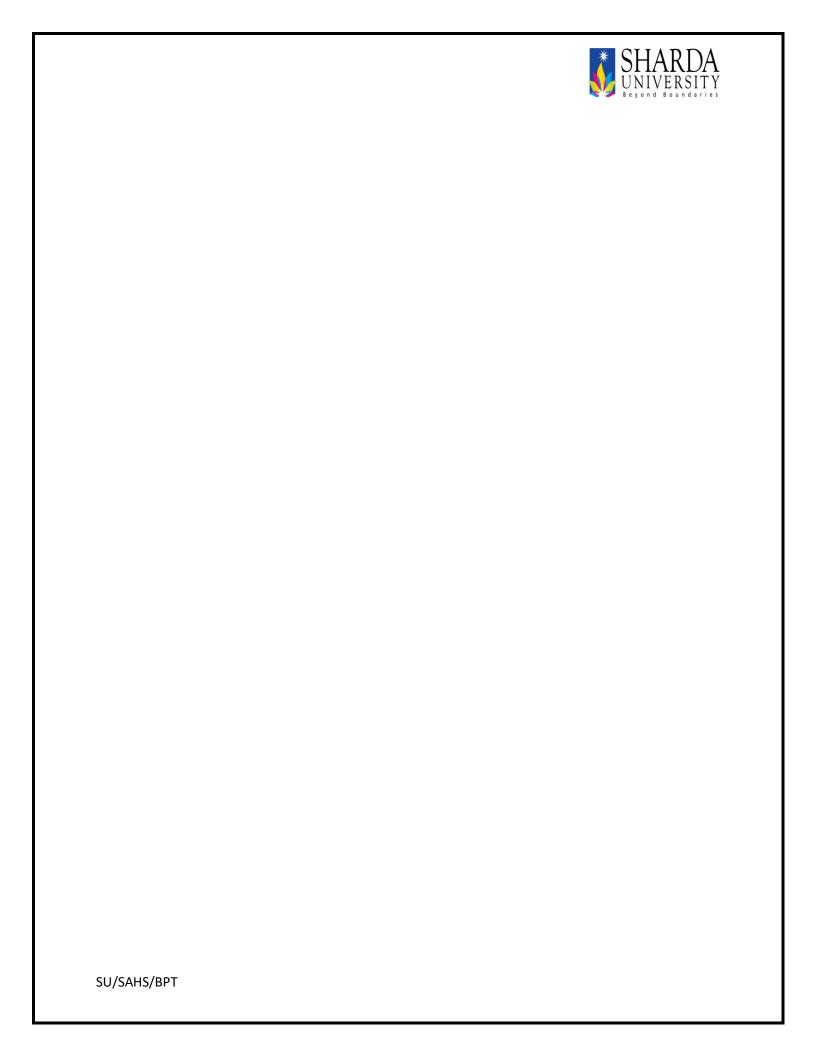
1.3.5 Program Outcome Vs Courses Mapping Table¹

Program Outcome Courses	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11
Sem-1												
Cours101.1	Human Anatomy – I	2	3	2	2	3	2	3	3	3	2	3
Cours101.2	Human Physiology – I	3	3	3	2	3	3	2	2	3	2	2
	2 672	1										
Cours101.3	Biochemistry	2	3	2	2	2	3	3	3	2	3	3
Cours101.4	Sociology& Psychology	3	2	3	3	3	2	3	3	2	2	2
Cours101.5	BasicComputer & Information English Communication And Soft Skills	2	3	2	2	3	2	3	3	3	2	3
Sem-2	Harmon Anatomy, H	2	2	2	2	2	2	2	2	2	2	2
Cours201.1	Human Anatomy – II	3	3	3	2	3	3	2	2	3	2	2
Cours201.2	Human Physiology II	3	3	3	2	3	3	2	2	3	2	2
Cours201.3	Basic Principles of Biomechanics	2	3	2	2	3	2	3	3	3	2	3
Sem-3												
Course 301.1	Pathology&Microbiology	2	2	3	3	3	3	2	2	3	2	3
Course 301.2	Pharmacology	2	3	2	2	3	2	3	3	3	2	3
Course 301.3	Biomechanics & Kinesiology	3	3	3	2	3	3	2	2	3	2	2
Course 301.4	Foundation of Exercise Therapy	2	3	2	2	2	3	3	3	2	3	3
Course 301.5	Clinical Observation	2	3	2	2	2	3	3	3	2	3	3
Sem-4												
Course 401.1	Exercise Therapy	2	3	2	2	3	2	3	3	3	2	3
Course 401.2	Electrotherapy (LMHF & Equipment care)	3	2	3	3	2	3	3	2	2	3	2
Course 401.3	Medical / Physiotherapy Law & Ethics	2	3	2	2	3	2	3	3	3	2	3
Course 401.4	Clinical Education	2	3	2	2	2	3	3	3	2	3	3
Sem-5	Cl. : 10 4 1: 0		-			-						╀
Course 501.1	Clinical Orthopedics & Traumatology	3	2	3	2	3	2	2	3	2	3	2
Course 501.2	General Surgery including burns and plasticsurgery& Obstetrics and Gynecology	2	3	2	2	3	2	3	3	3	2	3
Course 501.3	General Medicine	2	3	2	2	2	3	3	3	2	3	3
Course 501.4	Community Medicine	2	3	2	2	3	2	3	3	3	2	3
Course 501.5	Interpretation of Diagnostic imaging technology	3	3	3	2	3	3	2	2	3	2	2
Course 501.6	Clinical Education	2	3	2	2	2	3	3	3	2	3	3

 $^{^{\}rm 1}$ Cel value will contain the correlation value of respective course with PO.

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Sem-6									Beyon	d Bounda	ries	
Course 601.1	Physiotherapy in Orthopedics	2	3	2	2	3	2	3	3	3	2	3
Course 601.2	Physiotherapy in General Medicine andGeneral surgery	3	3	3	2	3	3	2	2	3	2	2
Course 601.3	Clinical Neurology & psychiatry	2	3	2	2	2	3	3	3	2	3	3
Course 601.4	Introduction to recent trends in physiotherapy	2	3	2	2	3	2	3	3	3	2	3
Course 601.5 Sem-7	Clinical education	3	2	3	2	2	3	3	2	2	3	3
Course 701.1	Physiotherapy in neurology	2	3	2	2	3	2	3	3	3	2	3
Course 701.2	Biostatistics & Research Methodology	2	3	2	2	3	2	3	3	3	2	3
Course 701.3	Health Promotion & Fitness	3	2	3	2	3	3	3	2	3	2	2
Course 701.4	Clinical Cardio-vascular & Pulmonary	3	2	3	2	3	3	3	2	3	3	2
Course 701.5	Principles of management	2	3	2	2	3	2	3	3	3	2	3
Course 701.6 Sem-8	Clinical Education	2	3	2	2	3	2	3	3	3	2	3
Course 801.1	Physiotherapy in cardiovascular, pulmonary intensive care	2	3	2	3	3	3	2	3	2	2	3
Course 801.2	Community Physiotherapy	2	3	2	3	3	3	2	3	3	2	2
Course 801.3	Clinical reasoning and evidence based physiotherapy	2	3	2	2	3	2	3	3	3	2	3
Course 801.4	Administration & teching skills	3	2	3	2	3	3	2	3	2	2	3
Course 801.5	Research Project	2	3	2	2	3	2	3	3	3	2	3
Course 801.6	1.6 Chinical Education			2	2	3	2	3	3	3	2	3
Internship	Clinical Internship											





1.3.5.2COURSE ARTICULATION MATRIX²

Program Outcome Courses	Course Code	Course Name		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
SEMESTER I														
Theory														
Course 1.1	BPT- 106	Human Anatomy I	CO1	3	3	2	3	3	3	3	2	3	3	2
			CO2	3	2	3	2	3	3	2	3	3	3	3
			CO3	2	3	3	3	2	2	3	3	3	3	3
			CO4	3	3	3	3	2	3	2	3	3	3	3
			CO5	3	3	3	3	2	3	2	3	3	3	3
Course 1.2	BPT-107	Human Physiology I	CO1	3	3	3	3	2	3	2	3	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	2	3	3	3	3	3
			CO4	3	3	2	3	3	3	3	2	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
Course 1.3	BPT- 120	Biochemistry	CO1	3	3	3	3	2	3	2	3	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	2	3	3	3	3	3

² Each course outcome (Based on Blooms Taxanomy-CO1, CO2, CO3, CO4, CO5, and CO6) of the course needs to map with PO. This table evolves once faculty has mapped each course outcomes of their respective course with PO's.



												4	Beyond	Boundarie
			CO4	3	3	2	3	3	3	3	2	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
			CO6	3	3	3	3	2	3	2	3	3	3	3
Course 1.4	BPT- 121	Sociology & Psychology	CO1	3	3	2	3	3	3	3	2	3	3	2
			CO2	3	2	3	2	3	3	2	3	3	3	3
			CO3	2	3	3	3	2	2	3	3	3	3	3
			CO4	3	3	3	3	2	3	2	3	3	3	3
			CO5	3	3	3	3	2	3	2	3	3	3	3
			CO6	3	3	3	3	2	3	2	3	3	3	3
Course 1.5	BPT 122	Basic computer & IEC & soft skills	CO1	3	3	2	3	3	3	3	2	3	3	2
			CO2	3	2	3	2	3	3	2	3	3	3	3
			CO3	2	3	3	3	2	2	3	3	3	3	3
			CO4	3	3	3	3	2	3	2	3	3	3	3
			CO5	3	3	3	3	2	3	2	3	3	3	3
			CO6	3	3	3	3	2	3	2	3	3	3	3
Practical		<u> </u>	· I	· ·		1							l .	u.
Course 1.1.1	BPT- 156	Human Anatomy- I	CO1	3	3	2	3	3	3	3	2	3	3	2
			CO2	3	2	3	2	3	3	2	3	3	3	3
			CO3	2	3	3	3	2	2	3	3	3	3	3
			CO4	3	3	2	3	3	3	3	2	3	3	3

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												<u></u>	Beyond	Boundarie
			CO5	3	3	3	3	3	3	3	3	3	3	3
Course 1.2.2	BPT-157	Human Physiology I	CO1	3	3	3	3	2	3	2	3	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	2	3	3	3	3	3
			CO4	3	3	2	3	3	3	3	2	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
SEMESTER 2			•	•	•	•		•	•		•	•	•	•
Theory														
Course 2.1	BPT 113	Human Anatomy II	CO1	3	3	3	3	3	3	3	3	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO.3	3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO 5	3	3	3	3	3	3	3	3	3	3	3
Course 2.2	BPT 114	Human Physiology II	CO1	3	3	3	3	3	3	3	3	3	3	3
		, ,,,	CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
Course 2.3	BPT 123	Basic Principles Of Biomechanics	CO1	3	3	3	3	3	3	3	3	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
			CO6	3	3	3	3	3	3	3	3	3	3	3
Practical			_	_	_	_	_		_			_		
Course 2.1.1	BPT 153	Human Anatomy II	CO1	3	3	3	3	3	3	3	3	3	3	3

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														nd Boundarie
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO.3	3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO 5	3	3	3	3	3	3	3	3	3	3	3
Course 2.2.2	BPT 154	Human Physiology II	CO1	3	3	3	3	3	3	3	3	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
Course 2.3.3	BPT 159	Basic Principles Of Biomechanics	CO1	3	3	3	3	3	3	3	3	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
			CO6	3	3	3	3	3	3	3	3	3	3	3
SEMESTER 3		l	1	_ I						I				
Theory														
Course 3.1	BPT- 216	Pathology & Microbiology	CO1	2	2	3	2	2	3	2	2	2	2	2
			CO2	3	2	2	3	3	3	3	2	3	2	3
			CO3	2	3	2	2	3	3	3	2	2	2	2
			CO4	3	2	2	3	2	2	2	3	2	2	2
			CO5	2	3	2	3	2	2	3	2	2	2	2
			CO6	3	2	3	2	3	2	3	2	3	2	3
Course 3.2	BPT- 217	Pharmacology	CO.1	2	2	3	2	2	2	2	3	2	3	3

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			CO.2	3	2	2	2	3	3	2	2	2	3	2
			CO.3	3	2	3	2	2	2	2	2	2	3	2
			CO.4	2	2	2	2	3	3	2	3	2	2	2
			CO.5	3	2	3	3	2	2	3	2	2	2	2
			CO.6	2	3	2	2	3	3	2	2	3	3	2
Course 3.3	BPT- 209	Biomechanics & Kinesiology	CO1	3	3	3	3	3	3	3	3	2	3	3
			CO2	2	2	3	3	3	3	3	3	3	3	3
			CO3	3	2	3	3	3	3	3	3	2	2	2
			CO4	3	3	2	2	3	3	3	3	3	3	3
			CO5	3	3	2	2	3	2	3	3	3	3	2
			CO6	3	3	3	2	2	3	2	3	2	3	2
Course 3.4	BPT- 210	Foundation of Exercise Therapy and soft tissue manipulation	CO1	2	3	3	3	3	3	3	3	3	2	2
			CO2	3	3	2	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	2	3	2
			CO5	3	3	2	2	3	2	3	3	3	3	2
			CO6	3	3	3	2	2	3	2	3	2	3	2
Practical		•	•	•	•		•	•	•	•	•	•	•	•
Course 3.3.1	BPT- 259	Biomechanics & Kinesiology	CO1	3	3	3	3	3	3	3	3	2	3	3



													Beyond	Boundarie
			CO2	2	2	3	3	3	3	3	3	3	3	3
			CO3	3	2	3	3	3	3	3	3	2	2	2
			CO4	3	3	2	2	3	3	3	3	3	3	3
			CO5	3	3	2	2	3	2	3	3	3	3	2
			CO6	3	3	3	2	2	3	2	3	2	3	2
Course 3.4.2	BPT- 260	Foundation of Exercise Therapy and soft tissue manipulation	CO1	2	3	3	3	3	3	3	3	3	2	2
			CO2	3	3	2	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	2	3	2
			CO5	3	3	2	2	3	2	3	3	3	3	2
			CO6	3	3	3	2	2	3	2	3	2	3	2
SEMESTER 4			1	- 1	•	1	1	•	1	1	1	1	•	•
Theory														
Course 4.1	BPT 219	Exercise Therapy	CO1	3	3	3	2	3	3	2	3	3	3	2
			CO2	2	3	3	3	3	2	3	2	3	3	3
			CO3	3	3	3	3	3	3	3	3	2	3	2
			CO4	2	3	3	3	2	3	2	3	3	3	3
			CO5	3	3	2	3	3	3	3	3	3	3	3
Course 4.2	BPT 220	Electrotherapy	CO1	2	3	2		3	3	2	3	3	3	3

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			CO2	3	3	2	3	3	3	3	3	3	3	3
			CO3	3	3	2	3	3	3	3	3	3	3	3
			CO4	3	2		3	3	3	3	3	3	3	3
			CO5	3	2	3	3	3	2	3	3	3	3	3
Course 4.3	BPT 218	Medical / Physiotherapy Law & Ethics	CO1	2	2	3	3	2	2	2	2	2	2	2
			CO2	2	3	2	2	2	2	2	2	2	2	2
			CO3	2	2	2	3	2	3	2	2	2	2	2
			CO4	3	2	2	3	2	2	2	2	2	2	2
			CO5	3	2	2	2	2	2	2	2	2	2	2
Practical			1	-1	- 1	- 1	•	1	1	1	-1	-1	•	•
Course 4.1.1	BPT 264	Exercise Therapy	CO1	3	3	3	2	3	3	2	3	3	3	2
			CO2	2	3	3	3	3	2	3	2	3	3	3
			CO3	3	3	3	3	3	3	3	3	2	3	2
			CO4	2	3	3	3	2	3	2	3	3	3	3
			CO5	3	3	2	3	3	3	3	3	3	3	3
Course 4.2.1	BPT 265	Electrotherapy	CO1	2	3	2		3	3	2	3	3	3	3
			CO2	3	3	2	3	3	3	3	3	3	3	3
			CO3	3	3	2	3	3	3	3	3	3	3	3
			CO4	3	2		3	3	3	3	3	3	3	3



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			CO5	3	2	3	3	3	2	3	3	3	3	3
SEMESTER 5			<u> </u>	1	1	1	1	_1	1	1	1		1	
Theory														
Course 5.1	BPT- 308	General Medicine including Paediatrics & Pshychiatry	CO1	3	3	3	2	2	3	3	3	3	3	3
			CO2	2	3	3	3	3	3	3	3	3	2	3
			CO3	2	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	2	3	3	3	3	3	3	3	3
			CO5	3	3	2	3	3	3	3	3	3	3	3
Course 5.2	BPT- 309	General Surgery including burns and plasticsurgery& Obstetrics and Gynecology	CO1	3	3	2	2	3	3	3	3	3	2	3
			CO2	2	3	3	3	3	2	3	3	3	3	3
			CO3	3	3	2	2	2	2	2	2	2	2	3
			CO4	3	3	3	3	3	2	2	3	2	2	3
			CO5	3	3	2	3	3	2	3	3	3	3	3
Course 5.3	BPT- 310	Clinical Orthopedics & Traumatology	CO1	3	3	3	2	2	3	3	3	3	3	3
			CO2	2	3	3	3	3	3	3	3	3	2	3
			CO3	2	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	2	3	3	3	3	3	3	3	3



														d Boundarie
			CO5	3	3	3	3	3	3	3	3	3	3	3
Course 5.4	BPT- 311	Community Medicine	CO1	3	3	3	3	3	2	3	3	3	2	3
			CO2	3	3	3	3	3	3	2	3	3	3	3
			CO3	3	3	3	2	3	3	3	3	3	3	3
			CO4	2	3	3	3	3	3	3	3	3	3	3
			CO5	3	2	3	3	3	3	3	3	2	3	3
Course 5.5	BPT- 312	Interpretation of Diagnostic imaging technology	CO1	3	3	3	3	3	2	3	3	3	2	3
			CO2	3	3	3	3	3	3	2	3	3	3	3
			CO3	3	3	3	2	3	3	3	3	3	3	3
			CO4	2	3	3	3	3	3	3	3	3	3	3
			CO5	3	2	3	3	3	3	3	3	2	3	3
Practical														
Course 5.1.1	BPT- 358	General Medicine including Paediatrics & Pshychiatry	CO1	3	3	3	2	2	3	3	3	3	3	3
			CO2	2	3	3	3	3	3	3	3	3	2	3
			CO3	2	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	2	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
Course 5.2.2	BPT- 359	General Surgery including burns	CO1	3	3	2	2	3	3	3	3	3	2	3

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	UNIVERSITY Beyond Boundaries

					1	1	1					~	Beyon	d Boundarie
		and plasticsurgery& Obstetrics and Gynecology												
			CO2	2	3	3	3	3	2	3	3	3	3	3
			CO3	3	3	2	2	2	2	2	2	2	2	3
			CO4	3	3	3	3	3	2	2	3	2	2	3
			CO5	3	3	2	3	3	2	3	3	3	3	3
Course 5.3.3	BPT- 350	Clinical Orthopedics & Traumatology	CO1	3	3	3	2	2	3	3	3	3	3	3
			CO2	2	3	3	3	3	3	3	3	3	2	3
			CO3	2	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	2	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
Course 5.4.4	BPT- 351	Community Medicine	CO1	3	3	3	3	3	2	3	3	3	2	3
			CO2	3	3	3	3	3	3	2	3	3	3	3
			CO3	3	3	3	2	3	3	3	3	3	3	3
			CO4	2	3	3	3	3	3	3	3	3	3	3
			CO5	3	2	3	3	3	3	3	3	2	3	3
Course 5.5.5	BPT- 352	Interpretation of Diagnostic imaging technology	CO1	3	3	3	3	3	2	3	3	3	2	3
			CO2	3	3	3	3	3	3	2	3	3	3	3

*	SHARDA	١
	UNIVERSITY	ľ

												~~	Beyond	Boundarie
			CO3	3	3	3	2	3	3	3	3	3	3	3
			CO4	2	3	3	3	3	3	3	3	3	3	3
			CO5	3	2	3	3	3	3	3	3	2	3	3
SEMESTER 6		I					<u> </u>							
Theory														
Course 6.1	BPT- 313	Physiotherapy in Orthopedics and Sports	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	2	3	3
Course 6.2	BPT- 314	Physiotherapy in General Medicine & General surgery	CO1	3	3	3	3	3	3	3	2	3	3	3
		General surgery	CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	2	3	3
Course 6.3	BPT- 315	Clinical Neurology & psychiatry	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3



						,		,				<u></u>	Beyon	d Boundarie
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
Course 6.4	BPT- 316	Introduction to recent trends in physiotherapy	CO1	3	3	3	3	3	2	3	3	3	2	3
			CO2	3	3	3	3	3	3	2	3	3	3	3
			CO3	3	3	3	2	3	3	3	3	3	3	3
			CO4	2	3	3	3	3	3	3	3	3	3	3
			CO5	3	2	3	3	3	3	3	3	2	3	3
Practical						<u> </u>		<u> </u>						
Course 6.1.1	BPT- 362	Physiotherapy in Orthopedics and Sports	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	2	3	3
Course 6.2.2	BPT- 363	Physiotherapy in General Medicine & General surgery	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	2	3	3



												-	Beyond	Boundarie
Course 6.3.3	BPT- 365	Clinical Neurology & psychiatry	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
SEMESTER 7		1		L			-L	·L	l	I	L	L	L	
THeory														
Course 7.1	BPT- 460	Physiotherapy In Neurology &Psychosomati c Disorder	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
Course 7.2	BPT- 462	Biostatistics & Research Methodology	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
			CO6	3	3	3	3	3	3	3	3	3	3	3
Course 7.3	BPT-	Health	CO1	3	3	3	3	3	3	3	2	3	3	3



	463	Promotion, Fitness											bey on t	Boundarie
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
Course 7.4	BPT- 464	Clinical Cardio- vascular & Pulmonary	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
Course 7.5	BPT- 465	Principles of management	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
Practical				l	L .	ı	1	I	1		-1	- I	ı	<u> </u>
Course 7.1.1	BPT- 441	Physiotherapy In Neurology &Psychosomati c Disorder	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3



												~	🎾 Beyond	Boundarie
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
Course 7.3.2	BPT- 442	Health Promotion, Fitness	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
Course 7.4.3	BPT- 443	Clinical Cardio- vascular & Pulmonary	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
Course 7.6.4	BPT 444	Clinical Education	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
SEMESTER 8			1	1	1	1	ı		1	1	1	I	1	1



Theory												•	- 5 c y 5 m u	Boundarie
Course 8.1	BPT466	Physiotherapy in cardiovascular , pulmonary intensive care	CO1	3	3	3	3	3	3	3	3	3	3	3
			CO2	3	3	3	3	2	3	3	3	2	3	3
			CO3	2	2	3	2	3	3	2	2	3	2	2
			CO4	3	3	3	3	2	2	2	3	2	3	3
			CO5	3	3	2	3	2	3	3	3	3	2	2
Course 8.2	BPT467	Community Physiotherapy	CO1	3	3	3	3	3	3	2	3	3	3	3
			CO2	3	3	3	3	2	3	3	2	2	3	3
			CO3	2	2	3	3	3	3	2	3	3	2	2
			CO4	3	3	3	3	2	2	3	3	2	3	3
			CO5	2	3	3	2	3	3	3	3	2	2	2
Course 8.3	BPT468	Clinical reasoning and evidence based physiotherapy	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
Course 8.4	BPT 469	Administratio n & teaching	CO1	3	3	3	3	3	3	3	2	3	3	3



												~~	Beyond	Boundarie
		skills												
			CO2	3	2	3	2	2	3	2	3	2	3	3
			CO3	3	3	2	3	3	2	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
Practical														
Course 8.1.1	BPT444	Physiotherapy in cardiovascular , pulmonary intensive care	CO1	3	3	3	3	3	3	3	3	3	3	3
		intensive care	CO2	3	3	3	3	2	3	3	3	2	3	3
			CO3	2	2	3	2	3	3	2	2	3	2	2
			CO4	3	3	3	3	2	2	2	3	2	3	3
			CO5	3	3	2	3	2	3	3	3	3	2	2
Course 8.2.2	BPT445	Community Physiotherapy	CO1	3	3	3	3	3	3	2	3	3	3	3
			CO2	3	3	3	3	2	3	3	2	2	3	3
			CO3	2	2	3	3	3	3	2	3	3	2	2
			CO4	3	3	3	3	2	2	3	3	2	3	3
			CO5	2	3	3	2	3	3	3	3	2	2	2
Course 8.3.3	BPT446	Clinical reasoning and evidence	CO1	3	3	3	3	3	3	3	2	3	3	3



													Beyond	Boundarie
		based physiotherapy												
			CO2	3	3	3	3	3	3	3	3	2	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
Course 8.4.4	BPT 447	Administratio n & teching skills	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	2	3	2	2	3	2	3	2	3	3
			CO3	3	3	2	3	3	2	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
Course 8.5.5	BPT 443	Clinical Education	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	2	3
Course 8.6.6	BPT 444	Clinical Education	CO1	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	2	3
			CO4	3	3	3	3	3	3	3	3	3	3	3



1. Slight (Low)

2. Moderate (Medium)

3. Substantial (High)



Program Structure Template BPT Program Structure School of Allied Health Sciences Program:BPT

Program code: - SAH0103 Batch: 2020-2024 TERM: I

S.	Paper ID	Subject	Subjects]	Teaching 1	Load		Core/Elective	Type of Course ³ :
No.		Code		L	Т	P	Credits	Pre-Requisite/ Co Requisite	1. CC 2. AECC 3. SEC 4. DSE
THE	ORY SUBJ	ECTS							
1.	35001	BPT 106	Human Anatomy – I	4	1	0	5	Core	CC
2.	35002	BPT 107	Human Physiology – I	4	1	0	5	Core	CC
3.	35261	BPT 120	Biochemistry	4	0	0	4	Core	CC
4.	35262	BPT 121	Psychology & Sociology	4	0	0	0	Core	SEC
5.	35263	BPT 122	Basic computer & Information English Communication and soft skills	3	0	0	3	Pre-requisite	SEC
Practi	ical/Viva-V	oce/Jury							
6.	35008	BPT 156	Human Anatomy-1	0	0	4	2	Core	DSC
•	35009	BPT 157	Human Physiology -1	0	0	2	1	Core	SEC
			TOTAL CREDITS				24		

³ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Program Structure Template BPT Program Structure School of Allied Health Sciences

Program:BPT

Program code: - SAH0103 Batch: 2020-2024

TERM: II

S.	Paper ID	Subject	Subjects	Т	eaching l	Load		Core/Elective	Type of Course ⁴ :
No.		Code		L	T	P	Credits		1. CC 2. AECC 3. SEC 4. DSE
THEC	ORY SUBJ	ECTS							
1.	35048	BPT 113	Human Anatomy- II	5	1	0	6	Core	CC
2.	35049	BPT 114	Human Physiology -II	5	1	0	6	Core	DSC
3.	35384	BPT 123	Basic principles of Biomechanics	5	1	0	6	Core	CC
4.		OPE	Open Elective	2	0	0	2	Elective	SEC
Practio	cal/Viva-Voo	ce/Jury							
1.	35054	BPT 153	Human Anatomy-2			4	2	Core	CC
2.	35055	BPT 154	Human Physiology -2			4	2	Core	CC
3.	35056	BPT 159	Basic principles of Biomechanics			3	1	Core	CC
			TOTAL CREDITS				25		

⁴ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Program code: - SAH0103 Batch: 2020-2024 TERM: III

S.	Paper ID	Subject	Subjects	Teaching Load L T P		Load		Core/Elective	Type of Course ⁵ :
No.		Code		L	Т	P	Credits	Pre-Requisite/ Co Requisite	5. CC 6. AECC 7. SEC 8. DSE
THE	ORY SUBJI	ECTS							
1.	35275	BPT 216	Pathology& Microbiology	6	0	0	6	Core	CC
2.	35276	BPT 217	Pharmacology	4	0	0	4	Core	DSC
3.	35154	BPT 209	Biomechanics & Kinesiology	4	1	0	5	Core	CC
4.	35155	BPT 210	Foundation of Exercise Therapy	4	1	0	5	Core	SEC
Praction	cal/Viva-Voc	ce/Jury							
1.	35158	BPT 259	Biomechanics & Kinesiology			4	2	Core	CC
2.	35159	BPT 260	Foundation of Exercise Therapy			4	2	Core	CC
3.	35157	BPT 003	Clinical observation			5	2	Core	CC
			TOTAL CREDITS				26		

⁵ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Program code: - SAH0103 Batch: 2020-2024 TERM: IV

S.	Paper ID	Subject	Subjects	Teaching Load L T P		Load		Core/Elective	Type of Course ⁶ :
No.		Code		L	Т	P	Credits	Co Requisite	9. CC 10. AECC 11. SEC 12. DSE
THE	ORY SUBJ	ECTS				l			
1.	35385	BPT 219	Exercise Therapy	6	1	-	7	Core	CC
2.	35386	BPT 220	Electrotherapy	6	1	_	7	Core	DSC
3.	35383	BPT 218	Medical/ Physiotherapy Law and Ethics	3	1	_	4	Core	CC
4.		OPE	Open Elective	2	ı	-	2	Elective	SEC
Praction	cal/Viva-Voo	ce/Jury							
1.	35387	BPT 264	Exercise Therapy	-	-	6	3	Core	CC
2.	35388	BPT 265	Electrotherapy	-	-	6	3	Core	CC
3.	35389	BPT 266	Clinical Observation	-	-	6	3	Core	CC
			TOTAL CREDITS				29		

⁶ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Program code: - SAH0103 Batch: 2020-2024 TERM: V

S.	Paper ID	Subject	Subjects	T	eaching	Load		Core/Elective	Type of Course ⁷ :
No.		Code		L	Т	P	Credits	Pre-Requisite/ Co Requisite	13. CC 14. AECC 15. SEC 16. DSE
THE	ORY SUBJI	ECTS						L	
1.	35264	BPT 308	General Medicine including Paediatric and Psychiatry	3	0	-	3	Core	CC
2.	35265	BPT 309	General Surgery including burns and plastic surgery& Obstetrics and Gynecology	3	0	-	3	Core	CC
3.	35266	BPT 310	Clinical Orthopaedics and Traumatology	3	0	-	3	Core	CC
4.	35267	BPT 311	Community Medicine	4	0	0	4	Core	CC
5.	35268	BPT 312	Interpretation of Diagnostic imaging technology	2	0	-	2	Core	CC
		OPE	Open elective	2	0	0	2	Elective	
Praction	cal/Viva-Voc	ce/Jury							
1.	35269	BPT 350	Clinical Orthopedics&Traumatology			2	1	Core	CC
2	35274	BPT 359	General Surgery including burns and plastic surgery& Obstetrics and Gynecology			2	1	Core	CC
3	35273	BPT 358	General Medicine	0	0	2	1	Core	CC

⁷ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses

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		IVE		

4	35270	BPT 351	Community Medicine			2	1	Core	CC
5	35271	BPT 352	Interpretation of Diagnostic imaging technology			2	1	Core	CC
6.	35272	BPT 353	Clinical Education			8	4	Core	CC
	TOTAL CREDITS								



Program code: - SAH0103 Batch: 2020-2024 TERM: VI

S.	Paper ID	Subject	Subjects	T	eaching	Load		Core/Elective	Type of Course ⁸ :
No.		Code		L	Т	P	Credits	Pre-Requisite/ Co Requisite	17. CC 18. AECC 19. SEC 20. DSE
THEORY SUBJECTS									
1.	35375	BPT 312	Physiotherapy in Orthopedics& sports	5	0	0	5	Core	CC
2.	35376	BPT 313	Physiotherapy in General Medicine and General surgery	5	0	0	5	Core	DSC
3.	35377	BPT 314	Clinical Neurology & Psychiatry	3	0	0	3	Core	CC
4.	35378	BPT 315	Introduction to recent trends in Physiotherapy	1	0	0	1	Core	SEC
5.		OPE	Open elective	2	0	0	2	Elective	SEC
Practical/Viva-Voce/Jury									
1.	35379	BPT 360	Physiotherapy in Orthopedics& sports			4	2	Core	CC
2	35380	BPT 361	Physiotherapy in General Medicine and General surgery			4	2	Core	CC
3	35381	BPT 362	Clinical Neurology & Neurosurgery			3	1	Core	CC
4	35382	BPT 363	Clinical Education			12	6	Core	CC

⁸ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



TOTAL CREDITS	27	

BPT Program Structure School of Allied Health Sciences Program:BPT

Program code: - SAH0103 Batch: 2020-2024 TERM: VII

S.	Paper ID	Subject	Subjects	T	eaching l	Load		Core/Elective	Type of Course ⁹ :
No.		Code		L	Т	P	Credits	Co Requisite	21. CC 22. AECC 23. SEC 24. DSE
THEC	ORY SUBJ	ECTS		•					
1.	35442	BPT 460	Physiotherapy in Neurology	5	0		5	Core	CC
2.	35443	BPT 462	Biostatistics & Research Methodology	4	0	-	4	Core	DSC
3.	35444	BPT 463	Health Promotion and Fitness	1	0	-	1	Core	CC
4.	35445	BPT 464	Clinical cardiovascular & pulmonary	3	0	-	3	Core	SEC
5.	35446	BPT 465	Principles of Management, Critique inquiry, casepresentation and discussion	1	0	-	1	Core	SEC

⁹ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Practio	cal/Viva-Vo	ce/Jury								
1.	35447	BPT 441	Physiotherapy in Neurology & psychosomatic disorder	-	-	4	2	Core	DSC	
2	35448	BPT 442	Health Promotion and Fitness			2	1			
3	35449	BPT 443	Clinical cardiovascular & pulmonary			2	1			
4	4 35450 BPT 444 Clinical Education 12 6									
	TOTAL CREDITS 24									



School of Allied Health Sciences Program:BPT

Program code: - SAH0103 Batch: 2020-2024

TERM: VIII

S.	Paper ID	Subject	Subjects	T	eaching	Load		Core/Elective	Type of Course ¹⁰ :
No.		Code		L	Т	P	Credits		25. CC 26. AECC 27. SEC 28. DSE
THE	ORY SUBJ	ECTS				J	1	l	
1.		BPT 466	Physiotherapy in cardiovascular, pulmonary &intensive care	5	0		5	Core	CC
2.		BPT 467	Community Physiotherapy	4	0		4	Core	DSC
3.		BPT 468	Clinical reasoning & Evidence based physiotherapy	1	0		1	Core	CC
4.		BPT 469	Administration and Teaching Skills	1	0		1	Core	SEC
5.		OPE	Open elective	2	0		2	Core	SEC
Practi	cal/Viva-Voc	ce/Jury							
1.		BPT 445	Physiotherapy in cardiovascular, pulmonary &intensive care	-	-	4	2	Core	DSC
2		BPT 446	Community Physiotherapy	-	-	4	2	Core	CC
3		BPT 447	Clinical reasoning & Evidence based physiotherapy			2	1	Core	CC
4		BPT 448	Administration and Teaching Skills			2	1	Core	CC
		BPT 450	Research Project			4	2	Core	CC

¹⁰ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



	BPT 449	Clinical Education		12	6	CC
		TOTAL CREDITS			27	



Table 1. Evaluation Scheme for BPT I Term University examination

S.	Paper	Subject	Subjects	CA	MSE	ESE	Total marks
No.	ID	Code					
THEOD	T CLID II	E CITEC					
THEOR	Y SUBJI	ECTS					
1	35001	BPT 106	Human Anatomy – I	30	20	50	100
2	35002	BPT 107	Human Physiology – I	30	20	50	100
3	35261	BPT 120	Biochemistry	30	20	50	100
4	35262	BPT 121	Psychology & Sociology	30	20	50	100
5	35263	BPT 122	Basic computer & Information English Communication and soft skills	50	-	-	Not for ETE
PRACT	ICAL SU	JBJECTS					
1	35008	BPT 156	Human Anatomy-1	60	-	40	100
2	35009	BPT 157	Human Physiology -1	60	-	40	100



Table 2. Evaluation Scheme for BPT II Term University examination

S. No.	Paper ID	Subject Code	Subjects	CA	MSE	ESE	Total marks
110.		Couc					
THEOR	Y SUBJI	ECTS					
1	35048	BPT 113	Human Anatomy-II	30	20	50	100
2	35049	BPT 114	Human Physiology -II	30	20	50	100
3	35384	BPT 123	Basic principles of Biomechanics	30	20	50	100
4		OPE	Open Elective	-	-	-	-
PRACT	ICAL SU	BJECTS					
1	35054	BPT 153	Human Anatomy-2	60	-	40	100
2	35055	BPT 154	Human Physiology -2	60	-	40	100
3	35056	BPT 159	Basic principles of Biomechanics	60	-	40	100



Table 3. Evaluation Scheme for BPT III Term University examination

S. No.	Paper ID	Subject Code	Subjects	CA	MSE	ESE	Total marks
1100		2000					
THEOR	Y SUBJI	ECTS		1			
1	35275	BPT 216	Pathology& Microbiology	30	20	50	100
2	35276	BPT 217	Pharmacology	30	20	50	100
3	35154	BPT 209	Biomechanics & Kinesiology	30	20	50	100
4	35155	BPT 210	Foundation of Exercise Therapy	30	20	50	100
PRACT	ICAL SU	BJECTS					
1	35158	BPT 259	Biomechanics & Kinesiology	60	-	40	100
2	35159	BPT 260	Foundation of Exercise Therapy	60	-	40	100
3	35157	BPT 003	Clinical observation	100	-	-	Not for ESE



Table 4. Evaluation Scheme for BPT IV Term University examination

S. No.	Paper ID	Subject Code	Subjects	CA	MSE	ESE	Total marks
THEOR	Y SUBJI	ECTS					
1	35385	BPT 219	Exercise Therapy	30	20	50	100
2	35386	BPT 220	Electrotherapy	30	20	50	100
3	35383	BPT 218	Medical/ Physiotherapy Law and Ethics	30	20	50	100
4		OPE	Open Elective	-	1	-	-
PRACT	ICAL SU	BJECTS					
1	35387	BPT 264	Exercise Therapy	60	-	40	100
2	35388	BPT 265	Electrotherapy	60	-	40	100
3	35389	BPT 266	Clinical Observation	100	-	-	Not for ESE



Table 5 . Evaluation Scheme for BPT V Term University examination

S. No.	Paper ID	Subject Code	Subjects	CA	MSE	ESE	Total marks
THEOR	Y SUBJE	CTS					
1	35264	BPT 308	General Medicine including paediatrics and Psychiatry	30	20	50	100
2	35265	BPT 309	General Surgery including burns and plastic surgery& Obstetrics and Gynecology	30	20	50	100
3	35266	BPT 310	Clinical Orthopaedics & Traumatology	30	20	50	100
4	35267	BPT 311	Community Medicine	30	20	50	100
5	35268	BPT 312	Interpretation of Diagnostic imaging technology	30	20	50	100
PRACT	ICAL SUI	BJECTS					
1	35273	BPT 358	General Medicine including paediatrics and Psychiatry	60	-	40	100
2	35274	BPT 359	General Surgery including burns and plastic surgery& Obstetrics and Gynecology	60	-	40	100
3	35269	BPT 350	Clinical Orthopaedics & Traumatology	60	-	40	100
4	35270	BPT 351	Community Medicine	60	-	40	100
5	35271	BPT 352	Interpretation of Diagnostic imaging technology	60	-	40	100
6	35272	BPT 353	Clinical Education	100	-	-	Not for ESE



Table 6. Evaluation Scheme for BPT VI Term University examination

S. No.	Paper ID	Subject Code	Subjects	CA	MSE	ESE	Total marks
THEOR	Y SUBJE	CTS					
1	35375	BPT 312	Physiotherapy in Orthopedics& sports	30	20	50	100
2	35376	BPT 313	Physiotherapy in General Medicine and Generalsurgery	30	20	50	100
3	35377	BPT 314	Clinical Neurology & Psychiatry	30	20	50	100
4	35378	BPT 315	Introduction to recent trends in Physiotherapy	100	-	-	Not for ESE
5		OPE	Open Elective	-	-	-	-
PRACT	ICAL SUI	BJECTS					
1	35379	BPT 360	Physiotherapy in Orthopedics& sports	60	-	40	100
2	35380	BPT 361	Physiotherapy in General Medicine and General surgery	60	-	40	100
3	35381	BPT 362	Clinical Neurology & Neurosurgery	60	-	40	100
4	35382	BPT 363	Clinical Education	100	-	-	Not for ESE



Table 7. Evaluation Scheme for BPT VII Term University examination

S. No.	Paper ID	Subject Code	Subjects	CA	MSE	ESE	Total marks
THEOR	Y SUBJE	CTS					
1	35442	BPT 460	Physiotherapy in Neurology & psychosomatic disorder	30	20	50	100
2	35443	BPT 462	Biostatistics & Research Methodology	30	20	50	100
3	35444	BPT 463	Health Promotion and Fitness	30	20	50	100
4	35445	BPT 464	Clinical cardiovascular & pulmonary	30	20	50	100
5	35446	BPT 465	Principles of Management, Critique inquiry, casepresentation and discussion	30	20	50	100
PRACT	ICAL SUI	BJECTS					
1	35447	BPT 441	Physiotherapy in Neurology & psychosomatic disorder	60	-	40	100
2	35448	BPT 442	Health Promotion and Fitness	60	-	40	100
3	35449	BPT 443	Clinical cardiovascular & pulmonary	60	-	40	100
4	35450	BPT 444	Clinical Education	100	-	-	Not for ESE



Table 8. Evaluation Scheme for BPT VIIITerm University examination

S. No.	Paper ID	Subject Code	Subjects	CA	MSE	ESE	Total marks
THEOR	 RY SUBJE	CTS					
1		BPT 466	Physiotherapy in cardiovascular, pulmonary &intensive care	30	20	50	100
2		BPT 467	Community Physiotherapy	30	20	50	100
3		BPT 468	Clinical reasoning & Evidence based physiotherapy	30	20	50	100
4		BPT 469	Administration and Teaching Skills	30	20	50	100
5		OPE	Open elective	-	-	-	-
PRACT	TICAL SUI	BJECTS					
1		BPT 445	Physiotherapy in cardiovascular, pulmonary &intensive care	60	-	40	100
2		BPT 446	Community Physiotherapy	60	-	40	100
3		BPT 447	Clinical reasoning & Evidence based physiotherapy	60	-	40	100
4		BPT 448	Administration and Teaching Skills	60	-	40	100
5		BPT 450	Research Project	100	-	-	Not for ESE
6		BPT 449	Clinical Education	100	-	-	Not for ESE



NOTE:

- 1. Value added courses are mandatory for each student of odd semester (list enclosed in Annexure I) and non-graded.
- 2. Open elective course is mandatory for each student of even semester (list of approved open elective courses offered by the university as enclosed in Annexure 2). The course will be run in audit mode and students will have to pass it.



C. Course Templates



FIRST SEMESTER

Sc	hool: School Of Allie	d Health Sciences Batch: 2	020-24
Pr	ogram: Bachelors Of	Current Academic Year: 2020-2021	
Pł	ysiotherapy(BPT)		
Bı	ranch: Physiotherapy	Semester: I	
1	Course Code	BPT 106	
2	Course Title	HUMAN ANATOMY –I	
3	Credits	5	
4	Contact Hours (L-T-P)	4-1-0	
	Course Type	Compulsory	
5	Course Objective	 The student will be able to demonstrate knowledge anatomy as needed for the study and practice of phy and occupational therapy. In addition the student will be able to fulfill with 75 accuracy (as measured written & oral internal evalution following objectives of the course. 	ysiotherapy 5%
6	Course Outcomes	CO1: To identify the microscopic structures of various tissues and organs in the human body and correlate the structure with the functions. CO2: To understand the basic principles of embryology including genetic inheritance and stages involved in development of the organs and systems from the time of conceptions till birth. CO3: To understand the bones, joints, muscles, vascular nerve supply of upper limb. CO4: To know about basic anatomical knowledge of boundaries and contents of thoracic cavity. CO5: To understand the bones, joints, muscles, vascular nerve supply of head and neck.	of or and
7	Course Description	It is designed to provide students with the workingknowledge of the structure of the human body which is essential foundation for their clinical studies.	
8	Outline syllabus		CO Mapping
	Unit 1	General anatomy	
	A	Introduction, Skeleton, Joints, Muscles	CO1, CO2

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				Beyond Boundar
В	Cardio systen	•	, Lymphatic system, Nervous	CO1,CO2
С	Skin a		ective tissue, ligaments and	CO1,CO2
Unit 2		extremity		
A			on, nerve supply and actions.	CO1, CO3
В		ogy: Clavicles, Sc s, Metacarpals, Ph	apula, Humerus, Radius, Ulna, nalanges.	CO1, CO3
С	Soft pa back of forearr vessels	arts: Breast, pector f arm, cubital foss m, palm, dorsum c a and lymphatic dr	ral region, axilla, front of arm, a, front of forearm, back of of hand, muscles, nerves, blood rainage of upper extremity	CO1, CO3
Unit 3		extremity Joints		
A	Should	ler girdle, shoulde	r joint, elbow joints,	CO1,CO3
В	Radiou	ılnar joint, wrist jo	oint and joints of the hand.	CO1,CO3
С	Arches	of hand, skin of t	he palm and dorsum of hand.	CO1,CO3
Unit 4	Thorax			
A		–Vascular System ts Pericardium.	Mediastinum: Divisions and	CO2,CO4
В	Thorac conduc heart; the boo	CO2,CO4		
С	and lunnerve segment Diaphropenin Interco	ngs: position, part supply; Lungs – en nts. agm: Origin, inse gs in the diaphrag	Accessory muscles of respiration:	CO2,CO4
Unit 5	Head a	nd Neck		
A	Osteol	ogy: Mandible and	d bones of the skull.	CO1,CO5
В	Soft pa nerve a the nec	CO1,CO5		
С	Thyroi	d gland, salivary g	ll, nose, ears and tongue gland nt with muscles of mastication	CO1,CO5
Mode of examination		y/Jury/Practical/		
Weightage	CA	MTE	ETE	
Distribution	30%	20%	50%	
			<u>l</u>	



Text book/s*	1.	B D Chaurasia's Human Anatomy.	
	2.	Inderbir Singh- Textbook of Anatomy.	
	3.	Textbook of Anatomy with color Atlas-	
		Inderbir Singh.	
	4.	Richard S. Snell- Clinical Anatomy.	
Other References	1.	Kieth L Moorie, Clinically Oriented Anatomy.	
	2.	A K Datta, Essentials Of Human Anatomy:	
		Thorax And Abdomen	
	3.	Inderbir Singh, Human Osteology.	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	2	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	2	3	3	3	3	3
CO201.5	3	3	3	3	3	2	3	3	3	3	3

- 1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

So	chool: School Of	Allied 1	Health Sciences	Batch: 2020-24
Pı	rogram: Bachelor	s of	Current Academic Year: 2020-2021	
Pl	hysiotherapy(BPT	<u>(</u>)		
B	ranch: Physiother	apy	Semester: I	
1	Course Code		BPT 107	
2	Course Title		HUMAN PHYSIOLOGY – I	
3	Credits		5	
4	Contact Hours		4-1-0	
	(L-T-P)			
	Course Type	Compu	ılsory	



5			Beyond Bound
	Course	The objective of this course is that after lectures, der	
_	Objective	practical and clinics the student will be able to demo	onstrate an
-		understanding of elementary human physiology	
6	Course	CO1: Understand the cell physiology in detail including	ng the
	Outcomes	transport mechanism of human body and blood and	body
		fluid distribution and composition.	
		CO2: Understand interaction and integration of dif	fferent
		organ systems in health and diseases special nerve-r	
		physiology.	nasere
		CO3: Understand the functional mechanisms	s of
		cardiovascular system, student should be able to tell	about
		the conducting system of heart, cardiac muscle, c	
		output along with the calculation and handling of equi	
			pinent
		e.g. measurement of blood pressure	1 . 1
		CO4: Describe the physiology of respiratory system	
		include mechanics of breathing, spirometry, transp	ort of
		gases and the common disorders of respiratory system.	
		CO5: Demonstrate in depth knowledge of digestiv	e and
		endocrine system.	
7	Course	The course is designed to assist the students to a	cquire
	Description	knowledge of the normal human Physiology of various	body
		systems and understand the alternation in physiolo	gy in
		disease and practice of Physiotherapy as applicable for	
		systemic disorder	
8	Outline syllabus	1 -	CO
			Monning
	Unit 1		Mapping
	UIIIt I	General & Nerve Muscle Physiology	Mapping
	A	General & Nerve Muscle Physiology Intercellular communication & body fluids, membrane	CO1, CO2
		Intercellular communication & body fluids, membrane potential.	
		Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological	
		Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions.	
		Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological	
		Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions.	CO1, CO2
	A B	Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions. Degeneration and Regeneration in Peripheral Nerves. Homeostasis, Transport across cell membrane, NMJ.	CO1, CO2
	A	Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions. Degeneration and Regeneration in Peripheral Nerves.	CO1, CO2
	A B	Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions. Degeneration and Regeneration in Peripheral Nerves. Homeostasis, Transport across cell membrane, NMJ. Structure & function of cell organelles, skeletal muscle &	CO1, CO2
	A B	Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions. Degeneration and Regeneration in Peripheral Nerves. Homeostasis, Transport across cell membrane, NMJ. Structure & function of cell organelles, skeletal muscle & smooth muscle. Difference between skeletal, smooth &	CO1, CO2
	A B C	Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions. Degeneration and Regeneration in Peripheral Nerves. Homeostasis, Transport across cell membrane, NMJ. Structure & function of cell organelles, skeletal muscle & smooth muscle. Difference between skeletal, smooth & cardiac muscle.	CO1, CO2
	A B C	Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions. Degeneration and Regeneration in Peripheral Nerves. Homeostasis, Transport across cell membrane, NMJ. Structure & function of cell organelles, skeletal muscle & smooth muscle. Difference between skeletal, smooth & cardiac muscle. Blood Composition & functions of blood, plasma proteins,leucocytes, platelets, Blood coagulation&	CO1, CO2 CO1,CO2 CO1,CO2
	A B C	Intercellular communication & body fluids, membrane potential. Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions. Degeneration and Regeneration in Peripheral Nerves. Homeostasis, Transport across cell membrane, NMJ. Structure & function of cell organelles, skeletal muscle & smooth muscle. Difference between skeletal, smooth & cardiac muscle. Blood Composition & functions of blood, plasma	CO1, CO2 CO1,CO2 CO1,CO2



В	Haemoglobin, Erythrocytes, Anaemia & jaund	lice,	CO1, CO3
С	Blood groups & immunity	CO1,CO3	
Unit 3	Cardiovascular System		
A	Cardiac Muscle, physiological anatomy of the general principles of circulation & CVRM.	CO1,CO3	
В	Cardiac Cycle, Cardiac Output, Blood Pressur	e.	CO1, CO3
С	Heart Sounds, ECG, Heart Rate, Hypertension	& Shock.	CO1,CO3
Unit 4	The Respiratory System		
A	Physiological anatomy of respiratory system & of respiration.	z Mechanics	CO1,CO4
В	Transport of Gases & Regulation of respiration	n	CO1,CO4
С	Hypoxia, Physiology of Exercise & High Altit	ude.	CO1,CO4
Unit 5	Digestive System		
A	Physiological anatomy of GIT, Saliva, Stomac Liver & Gall Bladder.	CO2,C05	
В	Small Intestine & Large Intestine,		CO2,C05
С	Digestion and Absorption in GIT.		CO2,C05
Mode of examination	Theory/Jury/Practical/Viva		
Weightage	CA MTE ETE		
Distribution	30% 20% 50%		
Text book/s*	 Sembulingum, K., Essentials of Physiology Dr. S.C. Choudhary, Concise medical plants. Dr. C.C. Chatterjee., Human physiolog Ganong, Review of Medical Physiology Samson Wright's Applied Physiology Guyon & Halls, Medical Physiology 		
Other References	 Sam san writes applied physiology had Cyril a keeleericB.Neil Best and Taylor's physiological basic practice- C.H. Best aetal Medical physiology Dr. A.C. Gutton Medical Physiology William FooGano 	of Medical Review of	



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	2	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	2	3	3	2	3	3	3	2
CO201.5	3	3	3	3	3	3	3	3	3	3	3

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

School: School Of Allied Health Sciences Batch: 2020-24					
Program:	Current Academic Year: 2020-2021				
Bachelors of					
Physiotherapy(B					
PT)					
Branch:	Semester: I				
Physiotherapy					



1	Course Code	BPT 120
2	Course Title	BIOCHEMISTRY
3	Credits	4
4	Contact Hours (L-T-P)	4-0-0
	Course Type	Compulsory
5	Course Objective	The students will be able to understand the biochemical change of the various elements of the body at cellular level and extra cellular level.
6	Objective Course Outcomes	elements of the body at cellular level and extra cellular level. CO1:The graduate should be able to identify the different types of biomolecules (carbohydrate, lipid and amino acid), to understand the chemistry of various types of biomolecules in maintaining the health and evaluate the role of their deficiency in developing clinical conditions after the completion of the course. CO2: The graduate should be able to know the importance of different types of enzymes concerned with carbohydrate, lipid and protein digestion along with the importance of their estimation in different clinical conditions, and to understand the chemistry of nucleic acids (DNA and RNA) and their application in determining the genetic diseases after the completion of the course. CO3: The graduate should be able to differentiate and know the importance of different pathways concerned with carbohydrate, lipid and protein metabolism along with their application in different physical and clinical conditions after the completion of the course. CO4: The graduate should be able to understand the importance of nutrition and calorific values of different types of food products, able to explain the energy expenditure in various types of physical activities, understand the role of vitamins and minerals in health and diseases after the completion of a course. CO5: The graduate should be able to differentiate different types of cell organelles, understand the mechanism of muscle contraction and importance of various connective tissue proteins after the completion of a course.
		CO6: The graduate should be able to understand the action of different types of hormone in human body, importance of maintenance of acid base balance and normal level of different blood constituents and apply his or her knowledge to identify the clinical condition after the completion of a course
7	Course	The course describe structures & functions of cell in brief; normal

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	T		eyond Boundarie
	Description	functions of different components of food, Enzymes, define B metabolic rate & factors affecting the same [in brief], with special reference to obesity; nutritional aspects of	asal
		carbohydrates, lipids, proteins & vitamins & their metabolism reference to obesity; define enzymes, discuss in brief, factors enzyme activity; describe in details biochemical aspects of mu	affecting
		contraction.	
8	Outline syllabu		CO Mapping
	Unit 1		
	A	Nutrition –Introduction, Importance of nutrition, Calorific values, Respiratory quotient–Definition, and its significance Energy requirement of a person-Basal metabolic rate: Definition, Normal values, factor affecting BMR Special dynamic action of food. Physical activities- Energy expenditure for various activities. Calculation of energy requirement of a person Balanced diet	CO1, CO2
	В	Recommended dietary allowances Role of carbohydrates in diet: Digestible carbohydrates and dietary fibers Role of lipids in diet	CO1, CO2
	С	Role of proteins in diet: Quality of proteins - Biological value, net protein utilization, Nutritional aspects of proteins-essential and non- essential amino acids. Nitrogen balance Nutritional disorders.	CO1, CO2
	Unit 2		
	A	Carbohydrate Chemistry—Definition, general classification with examples, Glycosidic bond Structures, composition, sources, properties and functions of Monosaccharides, Disaccharides, Oligosaccharides and Polysaccharides. Glycosaminoglycan (mucopolysaccharides)	CO1,CO3
	В	Lipid Chemistry—Definition, general classification Definition, classification, properties and functions of Fatty acids, Triacylglycerol, Phospholipids, Cholesterol Essential fatty acids and their importance Lipoproteins: Definition, classification, properties, Sources and function Ketone bodies	CO2, CO3
	С	Amino acid chemistry: Definition, Classification, Peptide bonds Peptides: Definition, Biologically important peptides Protein chemistry: Definition, Classification, Functions of proteins	CO2,CO3
	Unit 3		
	A	Enzymes –Definition, Active site, Cofactor(Coenzyme, Activator), Proenzyme Classification with examples, Factors effecting enzyme activity, Enzyme inhibition and significance,	CO2,CO4

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		eyond Boundarie:
	Isoenzymes, Diagnostic enzymology (clinical significance of enzymes)	
В	Nucleotide and Nucleic acid Chemistry-Nucleotide composition, functions of free nucleotides in body. Nucleic acid (DNA and RNA) chemistry: Difference between DNA and RNA, Structure of DNA (Watson and Crick model), Functions of DNA. Structure and functions of tRNA, rRNA, mRNA.	CO2,C04
С	Digestion and Absorption- General characteristics of digestion and absorption, Digestion and absorption of carbohydrates,proteinsandlipids. Disorders of digestion and absorption n – Lactose intolerance.	CO2,C04
Unit 4		
A	Carbohydrate Metabolism-Introduction, Glycolysis—Aerobic, Anaerobic Citric acid cycle, Substrate level phosphorylation. Glycogen metabolism — Glycogenesis, Glycogenolysis, Metabolic disorders glycogen, Gluconeogenesis, Cori cycle Hormonal regulation of glucose, Glycosuria, Diabetes mellitus.	CO3,CO4
В	Lipid Metabolism-Introduction to lipid metabolism, Lipolysis, Oxidation of fatty acids-oxidation of fatty acids, Lipogenesis - Denovosynthesis of fatty acids, chain elongation, desaturation, triacylglycerol synthesis, fat metabolism in adipose tissues Ketone body metabolism: Ketone body formation (ketogenesis), utilization (ketolysis), ketosis, Rothera'stest. Cholesterol metabolism: synthesis, degradation, cholesterol transport Hypercholesterolemia and its effects (atherosclerosis and coronary heart diseases) Hypocholesterolemic agents, Common hyperlipoproteinemia, Fatty liver	CO3,CO4
С	Amino acid and Protein Metabolism- Catabolism of amino acids - Introduction, transamination, deamination, Fate of ammonia, transport of ammonia, Urea cycle Specialized products formed from amino acids-from glycine, arginine, methionine, phenylalanine and tyrosine.	CO3,CO4
Unit 5		
A	Vitamins-Definition, classification according to solubility, Individual vitamins- Sources, Coenzyme forms, functions, RDA, digestion, absorption and transport, deficiency and toxicity. Minerals- Definition, Sources, RDA, Digestion, absorption, transport, excretion, functions, disorder of Individual minerals - Calcium, phosphate, iron, Magnesium, fluoride, selenium, molybdenum, copper. Phosphate, calcium and iron in detail.	CO4,C06
В	Cell Biology-Introduction, Cell structure, Cell membrane	CO4,C06



				▼	eyond Boundaries
	С	organel Muscle process Biocher connect associa Hormor hormor messen Acid-B of the b in acid Clinica constitu	les and their functi Contraction-Contr of muscle contract mistry of Connectivative tissue proteins: ted disorders. Glyc ne Action-Definition are action. Receptors gers and cell function ase balance-Acids, ody, bicarbonate be base balance, Acid I Biochemistry- not tents, relevance of	bases and buffers, pH. Buffer systems uffer system Role of lungs and kidneys base imbalance. rmal levels of blood and urine blood and urine levels of glucose, urea, m, phosphates, ph and bicarbonates.	CO4,C06
	Mode of examination	Theory	//Jury/Practical/V	iva	
	Weightage	CA	MTE	ETE	
	Distribution	30%	20%	50%	
	Text book/s*	1. Bio	chemstry by U. S	Satyanarayana II Edition.	
		2. Tex	xt Book of Bioche	emstry by D.M. Vasudevan and	
			ekumari S. IV Ed		
		3. Tex	ktbook of Medica	l Biochemistry-S.K.Das Gupta.	
				ted Reviews Biochemistry.	
		_	=	Biochemstry by Murry et.a1.26	
			ition		
	Other	1. All	pert Lehininger, P	Principles of biochemistry 1993	
	References	2. Jan	nes M Orten, Hur	nan biochemistry	
		3. Lu	bert Strayer, Bioc	hemistry	
		4. The	omas M Devlin, I	Bio chemistry with clinical	
		cor	realation		
_					

Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	2	3	3	2	3	3	2	3	3	2
CO201.2	3	3	2	3	3	2	3	3	2	3	3
CO201.3	3	3	3	3	2	3	3	2	3	3	2
CO201.4	3	3	3	3	3	2	3	3	2	3	3
CO201.5	3	3	3	3	3	2	3	3	2	3	3

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CO201.6	3	3	3	3	3	2	3	3	2	3	3

1-Slight (Low) 2-Moderate (Medium)3-Substantial (High)

	chool: School of llied Health Sciences	Batch : 2020-24				
-	rogram: Bachelors of	Current Academic Year: 2020-2021				
Pł	ysiotherapy					
	ranch:	Semester: I				
Pł	nysiotherapy					
1	Course Code	BPT 121				
2	Course Title	SOCIOLOGY & PSYCHOLOGY				
3	Credits	4				
4	Contact Hours (L-T-P)	4-0-0				
	Course Type	DSE				
5	Course Objective	1. The objective of the course is that after lectures, the students				
	J	will be able to demonstrate an understanding of the role of				
		socio-cultural factors as determinants of health and behaviour in				
		health and sickness. They will be able to relate this to				
		-				
		therapeutic situations in the practice of physiotherapy.				
		2. The student will be able to recognize and help with the				
		psychological factors involved in disability, pain,				
		disfigurement, unconscious patients, chronic illness, death,				
		bereavement and medical surgical patients/conditions. They				
		should also understand the elementary principles of behaviour				
		for applying in the therapeutic environment. In addition, the				
		students will be able to show their proficiency based on written				
		and internal evaluation.				
6	Course Outcomes	CO1: Understand the role of family and community in the				
		development of behaviours.				
		CO2: Develop a holistic outlook toward the structure of society and				
		community resources, understand the significance of social				
		interactions in the process of rehabilitation.				
		CO3: Identify the subtle influence of culture in the development of				
		human personality, the role of beliefs and values as determinants of individual and group behaviours.				
		CO4: Psychosocial assessment of patients in various developmental				
		stages.				
		CO5: Concept of stress and its relationship to health, sickness and				
		one's profession.				
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			Beyond Boundarie					
		CO6: Ego defense mechanisms and learn counselli						
		help those in need, Reasons for non-compliance an	nong patients and					
		improving compliance behavior						
7	Course Description	This course is to design to develop the basic knowledge of Sociology with						
		respect to different society and its relation towards heal	th and					
		Physiotherapy treatment.						
		This course is also develops the basic knowledge of Psy						
		respect to the normal development of a child and the Ps						
		condition of patient in terms of Health related Psycholo						
		introspection. This develops the utilization and importa-	nce of Psychology					
		with respect to Physiotherapy treatment						
8	Outline syllabus		CO Mapping					
	Unit 1							
	A	Introduction:	CO1, CO2					
		a. Meaning-Definition and scope of sociology						
		b. Its relation to Anthropology, Psychology, Social						
		Psychology.						
		c. Methods of Sociological investigations- Case study,						
		social survey, questionnaire, Interview and opinion						
		poll methods.						
		d. Importance of its study with special reference to						
		Health Care Professionals.						
		Social Factors in Health and disease situations:						
		a. Meaning of social factors						
		b. Role of social factors in health and illness						
	В	Socialization:	CO1, CO2					
		a. Meaning and nature of socialization.						
		b. Primary, Secondary and Anticipatory socialization.						
		c. Agencies of socialization.						
		Social Groups:						
		a. Concepts of social groups, influence of formal and						
		informal groups on health and sickness. The role of						
		primary groups and secondary groups in the hospital						
		and rehabilitation setup.						
	C	Family:	CO1, CO2					
		a. The family, meaning and definitions.						
		b. Functions of types of family						
		c. Changing family patterns						
		d. Influence of family on the individual shealth,						
		family and nutrition, the effects of sickness in the						
		family and psychosomatic disease and their						
		importance to physiotherapy.						
		Community:						
		a. Rural community: Meaning and features-Health						
		hazards of ruralities, health hazards to tribal						
		community.						
		b. Urban community: Meaning and features-Health						
		hazards of urbanities.						

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Unit 2							
A	Culture and Health: a. Concept of Health b. Concept of Culture c. Culture and Health d. Culture and Health Disorders Social change:	CO1, CO3					
	 a. Meaning of social changes. b. Factors of social changes. c. Human adaptation and social change d. Social change and stress. e. Social change and deviance. f. Social change and health programme g. The role of social planning in the improvement of health and rehabilitation. 						
В	Social Problems of disabled: Consequences of the following social problems in relation to sickness and disability, remedies to prevent these problems. a. Population explosion b. Poverty and unemployment c. Beggary d. Juvenile delinquency e. Prostitution f. Alchoholism g. Problems of women in employment h. Geriatric problems i. Problems of underprivileged.	CO1, CO3					
С	Social security and social legislation in relation to the disabled. Social worker: a. Meaning of Social Work b. The role of a Medical Social Worker.	C O 1 , C O 3					
Unit 3 A	Introduction to Psychology a. Schools: Structuralism, functionalism, behaviorism, Psychoanalysis. b. Methods: Introspection, observation, inventory and experimental method. c. Branches: pure psychology and applied psychology d. Psychology and physiotherapy Growth and Development	CO4,CO5					

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		•	Beyond Boundarie
		childhood, adolescence, adulthood, middle age, old age). b. Heredity and environment: role of heredity and environment in physical and psychological development, "Nature v/s Nurture controversy".	
	В	Sensation, attention and perception a. Sensation: Vision, Hearing, Olfactory, Gustatory and Cutaneous sensation, movement, equilibrium and visceral sense. b. Attention: Types of attention, Determinants of attention (subjective determinants and objective determinants). c. Perception: Gestalt principles of organization of perception (principle of figure ground and principles of grouping), factors influencing perception (past experience and context). d. Illusion and hallucination: different types.	CO4,CO5
-	С	Motivation a. Motivation cycle (need, drive, incentive, reward). b. Classification of motives. c. Abraham Maslow's theory of need hierarchy	CO4,CO5
	Unit 4		
	A	Frustration and conflict a. Frustration: sources of frustration. b. Conflict: types of conflict. c. Management of frustration and conflict Emotions a. Three levels of analysis of emotion (physiological level, subjective state, and overt behavior). b. Theories of emotion c. Stress and management of stress.	CO4,CO5
	В	Intelligence a. Theories of intelligence. b. Distribution of intelligence. c. Assessment of intelligence Thinking a. Reasoning: deductive and inductive reasoning b. Problem solving: rules in problem solving (algorithm and heuristic) c. Creative thinking: steps in creative thinking, traits of creative people	CO4,CO5
-	С	Learning a. Factors effecting learning. b. Theories of learning: trial and error learning, classical conditioning, Operant conditioning, insight learning, social learning theory.	CO4,CO5

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				Beyond Boundar	
	Whole/Part, Reci Incidental/Intenti	vays to learn: Massed/Sp tation/Reading, Serial/Fro onal learning, Knowledge nization, and mnemonic r	ee recall, e of result		
Unit 5					
A	behavioristic, psy approach. b. Personality ass test, questionnair projective technic c. Defense Mecharationalization, p identification, rep	 a. Approaches to personality: type & trait, behavioristic, psychoanalytic and humanistic approach. b. Personality assessment: observation, situational test, questionnaire, rating scale, interview, and projective techniques. c. Defense Mechanisms: denial of reality, rationalization, projection, reaction formation, identification, repression, regression, 			
В	Social psycholog a. Leadership: Di theoretical approx	Social psychology a. Leadership: Different types of leaders. Different theoretical approaches to leadership. b. Attitude: development of attitude. Change of attitude.			
С	behavior assessm psychotherapy, so physiotherapist p imaging, stress m	ogy–Models of training, a nent, clinical judgment, elf-management methods atient interaction, aggress nanagement, assertive trai vareness, Pediatric, child a	, sion, self- ning, Gro	- oup	
Mode of examination	Theory/Jury/Pra	actical/Viva			
Weightage	CA	MTE		ETE	
Distribution	30%	20%		50%	
Text book/s*	1. Morgan, C. & King, R. King Introd 2. Baron, R.A. 3. Megee-socio 4. Kupuswamy 5. Ahuja- Soci 6. Gihnsberg-publications	T., Rosen, J. W., Morg A. Study guide for Mor uction to psychology: . Introduction to Psychology'Drydonpresscliling y- Social Changes in In- al problems-Bookhive Principles of sociology	gan and ology nois. dia -Vika	as	
	8. Introduction	to social psychology-	Akolkar	·_	



	Oxford publishing house.	
Other References	Psychology and sociology - Applied to Medicine - Porter & Alder - W. B.Saunders.	
	 Parter & Alder': Psychology & sociology applied to medicine- W.B.Sunders. 	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	2	3	3	3	3	2	3
CO2	3	3	3	3	2	3	3	3	3	2	3
CO3	3	3	3	3	2	3	3	3	3	2	3
CO4	3	3	3	3	2	3	3	3	3	2	3
CO5	3	3	3	3	2	3	3	3	3	2	3
CO6	3	3	3	3	2	3	3	3	3	2	3

- 1-Slight (Low) 2-Moderate (Medium)
- 3-Substantial (High)

	ool: School of d health sciences	Batch :2020-24
	gram: Bachelors hysiotherapy	Current Academic Year:2020-21
Bra	nch:	Semester: I
Phy	siotherapy	
1	Course Code	BPT 122
2	Course Title	BASIC COMPUTER & INFORMATION ENGLISH COMMUNICATION AND SOFT SKILLS
3	Credits	3
4	Contact Hours (L-T-P)	3-0-0
	Course Type	SEC
5	Course Objective	1. The course is designed to create awareness among the

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		students about basic operation of Computer. 2. The objectives of this course are to write grammatically correct English, to develop writing skills, to understand and express meaningfully the prescribed tent. 3. To comprehend and communicate in simple English; grooming the personality of the students.					
6	Course Outcomes	CO1: Tell about the fundamentals of computer like generations, languages, input-output devices, storag and memory and processes. CO2: Describe the basic use of Windows, computer applications like MS word, Excel and power points CO3: describe different operating system, types and components of computer networks, CO4: Use the internet and application of computer clinical settings. CO5: Understand about the grammatical and idioms Gain knowledge about various methods of patient elbarriers of communication and how to overcome the CO6: Become fluent in speaking and enhance the alcommunicate effectively with colleagues, doctors, pand writing various official letters, writing patients summarize scientific sessions.	in atic usages, ducation, em. bility to patients etc.				
7	Course Description	This Course describes –Basic Operation of Comput Input and Output devices, Secondary Storage Devistudy of Components of CPU and Introduction to M Power point, MS Excel The course is designed to enable students to enhance abic comprehend spoken and written English, required for efficient communication in their professional work.	ces, Detailed IS Word, MS				
8	Outline syllabus	,	CO Mapping				
	Unit 1		11 6				
	A	Introduction to computer: Introduction, characteristics of computer, block diagram of computer, generations of computer, computer languages.	CO1, CO2				
	В	Input output devices: Input devices (keyboard, point and draw devices, data scanning devices, digitizer, electronic card reader, voice recognition devices, vision-input devices),output devices(monitors, pointers, plotters, screen image projector, voice response systems).	CO1, CO2				
	С	Processor and memory: The Central Processing Unit (CPU), main memory. Storage Devices: Sequential and direct access devices, magnetic tape, magnetic disk, optical disk, mass storage devices.	CO1, CO2				

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Unit 2		
A	.Introduction of windows: History, features, desktop, taskbar, icons on the desktop, operation with folder, creating shortcuts, operation with windows(opening, closing, moving, resizing, minimizing and maximizing, etc.).	
В	Introduction to MS- Word: introduction, components of a word window, creating, opening and inserting files, editing a document file, page setting and formatting the text, saving the document, spell checking, printing the document file, creating and editing of table, mail merge.	CO1, CO3
С	Introduction to Excel: introduction, about worksheet, entering information, saving work books and formatting, printing the worksheet, creating graphs.	CO1, CO3
Unit 3		CO1, CO3
A	Introduction to power-point: introduction, creating and manipulating presentation, views, formatting and enhancing text, slide with graphs.	CO3,CO4
В	Introduction of Operating System: introduction, operating system concepts, types of operating system. Computer networks: introduction, types of network (LAN, MAN, WAN, Internet, Intranet), network topologies (star, ring, bus, mesh, tree, hybrid), components of network.	CO3,CO4
С	Internet and its Applications: definition, brief history, basic services (E-Mail, File Transfer Protocol, telnet, the World Wide Web (WWW)), www browsers, use of the internet. Application of Computers in clinical settings.	CO3,CO4
Unit 4		
A	Basic Language Skills: Grammar and Usage. 2. Business Communication Skills. With focus on speaking- Conversations, discussions, dialogues, short presentations, pronunciation.	CO5,CO6
В	Teaching the different methods of writing like letters, E-mails, report, case study, collecting the patient data etc. Basic compositions, journals, with a focus on paragraph form and organization.	CO5,CO6
С	Basic concepts& principles of good communication Special characteristics of health communication	CO5,CO6
Unit 5		
A	Types & process of communication—verbal, non-verbal and written communication. Upward, downward and lateral communication.	CO6,CO7
В	Therapeutic communication: empathy versus	CO6,CO7



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	sympathy. Communicati			
С			patient education. hww.to.overcome	CO6,CO7
Mode of examination	Theory/Jury/	Practical/Viv	a	
Weightage	CA	MTE	ETE	
Distribution	30%	20%	50%	
Text book/s*	1. Introduct	tion to Compu	iter- Renu Kapoor.	
	2. English (Grammar Cor	nposition & Usage by	
	J.C. Nesi			
	3. The Busi			
	4. Commun			
	&Pushp			
Other References				

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	2	3
CO201.2	3	3	3	3	3	3	3	3	3	2	3
CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	3	3	3	3	2	3
CO201.5	3	3	3	3	3	3	3	3	3	2	3
CO201.6	3	3	3	3	3	3	3	3	3	2	3

- 1-Slight (Low) 2-Moderate (Medium)
- 3-Substantial (High)



Practical

Note: This is to be supported a **list of Practical's (As shown in template B2) in the Instructional Plan** listing the practical's which also needs to be uploaded onto LMS.

School: School Of		Batch: 2020-24							
Allied Health									
Scie	ences								
Pro	gram:	Current Academic Year: 2020-2021							
	helors of								
	siotherapy								
	nch:	Semester: I							
	siotherapy								
1	Course Code	BPT 156							
2	Course Title	HUMAN ANATOMY I (Practical)							
3	Credits	2							
4	Contact Hours	0-0-4							
	(L-T-P)	CO							
_	Course Status	CC							
5	Course	1. The student will be able to demonstrate knowledge in human							
	Objective	anatomy as needed for the study and practice of physiotherapy							
		and occupational therapy.							
		2. In addition the student will be able to fulfill with 75% accuracy							
		(as measured written & oral internal evaluation) the following							
		objectives of the course.							
6	Course	CO1: To identify the microscopic structures of various							
	Outcomes	tissues and organs in the human body and correlate the							
		structure with the functions.							
		CO2: To understand the basic principles of embryology							
		including genetic inheritance and stages involved in							
		development of the organs and systems from the time of							
		conceptions till birth.							
		CO3: To understand the bones, joints, muscles, vascular and nerve							
		supply of upper limb.							
		CO4: To know about basic anatomical knowledge of							
		boundaries and contents of thoracic cavity.							
		CO5: To understand the bones, joints, muscles, vascular and nerve							
		supply of head and neck.							



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7	C	T. 1 1	11		1 4 14 41						
7	Course	It is designed to provide students with the									
	Description	workingknowledge of the structure of the human body which is essential foundation for their clinical studies.									
		which is ess	ential found	dati	on for their clinical stud	lies.					
0	0 41' 11 1					00					
8	Outline syllabi	ıs				CO					
	Unit 1	GENERAL	ANATON	ΛV		Mapping					
	CIIIt I	1. Brief		<u>/1 1</u>		CO1, CO2					
		2. Dem	CO1, CO2								
		3. Identification									
	Unit 2	UPPER EX	TREMIT	Y							
		1. Brie									
		2. Surfa	ace Anaton	ny							
		3. Dem	3. Demonstration & Examination								
		2. 2 Smonth & Emmination									
	Unit 3		UPPER EXTREMITY JOINT								
		1. Brie	CO2,CO4								
		2. Surfa									
		3. Dem									
	Unit 4	THORAX									
		1. Brie	CO1,CO4								
		2. Surfa									
		3. Dem									
	Unit 5	HEAD ANI									
		1. Brie	CO4,CO5								
		2. Surfa									
		3. Dem									
	Mode of	Practical/Vi									
	examination	Practical/ V1	va								
	Weightage	CA	MTE		ETE						
	Distribution	60%	0%		40%						
	Text book/s*	1. B D Cha									
			,								
		Singh.									
		4. Richard	4. Richard S. Snell- Clinical Anatomy.								
	Other	1. Kieth L	1. Kieth L Moorie, Clinically Oriented Anatomy.								



References	2.	A K Datta, Essentials Of Human Anatomy:	
		Thorax And Abdomen	
	3.	Inderbir Singh, Human Osteology.	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	2	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	2	3	3	3	3	3
CO201.5	3	3	3	3	3	2	3	3	3	3	3

School: Scho	School: School Of Allied Health Sciences Batch: 2020-24						
Program: Bac	chelors Of	Current Academic Year: 2020-2021					
Physiotherapy	y (BPT)						
Branch: Phys	iotherapy	Semester: I					
1 Course Coo	de	BPT 157					
2 Course Tit	le	HUMAN PHYSIOLOGY I (PRACTIC	(AL)				
3 Credits		1					
4 Contact Ho	ours	0-0-2					
(L-T-P)							
Course Typ	e	PRACTICAL					
5 Course C	Objective	The objective of this course is that after lectures,					
		demonstrations, practical and clinics the student will be					
		able to demonstrate an understanding of elementary					
		human physiology					
6 Course C	Outcomes	CO1: Understand the cell physiology	in detail				
		including the transport mechanism of human body					
		and blood and body fluid distrib	ution and				
		composition.					
		CO2: Understand interaction and inte	egration of				
		different organ systems in health and disea	_				
		nerve-muscle physiology.	ases special				
		2 0	aniama of				
		CO3: Understand the functional mech					
		cardiovascular system, student should be					
		about the conducting system of heart, cardiac					
		muscle, cardiac output along with the calculation and					
		handling of equipment e.g. measuremen	nt of blood				



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		pressure							
		CO4: Describe the physiology of respiratory s	-						
		which include mechanics of breathing, spiror	-						
		transport of gases and the common disorders of							
		respiratory system.							
		CO5: Demonstrate in depth knowledge of digestive							
		and endocrine system.							
7	Course Description	The course is designed to assist the students to acquire knowledge of the normal human Physiology of various body systems and understand the alternation in physiology in disease and practice of Physiotherapy as applicable for each systemic disorder							
8	Outline syllabus		CO						
			Mapping						
	Unit 1								
		1. Demonstration of Microscope	CO1,CO3						
		2. Demonstration of Haemoglobin estimation							
		3. Experimentation							
	Unit 2								
		1. Total Red Blood Cell Count	CO1,C03						
		2. Total Leucocyte Count.							
		3. Experimentation							
	Unit 3								
		1. BT, CT, Blood Group.	CO2,C03						
		2. Estimation and Demonstration of ESR							
		3. Estimation and Demonstration of PCV.							
	Unit 4								
		Demonstration of SMT	CO4,CO5						
		2. Effect of temperature on SMT							
		3. Effect of two successive stimuli on skeletal							
		muscle contraction & Genesis of fatigue in							
		skeletal muscle.							
	Unit 5								
		1. Effect of increasing strength of stimuli	CO3,CO5						
		2. Effect of increasing frequency							
		3. Effect of load on skeletal muscle contraction							
		and determination of conduction velocity of							
		sciatic nerve.							



Mode of	Practical/Viv	Practical/Viva							
examination									
Weightage	CA	MTE	ETE						
Distribution	60%	0%	40%						

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	2	3
CO201.2	3	3	3	3	3	3	3	3	3	2	3
CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	3	3	3	3	2	3
CO201.5	3	3	3	3	3	3	3	3	3	2	3

SECOND SEMESTER

Al	hool: School Of lied Health iences	Batch :2020-24
	ogram: Bachelors physiotherapy	Current Academic Year:2020-21
	ranch: aysiotherapy	Semester: II
1	Course Code	BPT 113
2	Course Title	HUMAN ANATOMY II
3	Credits	6
4	Contact Hours (L-T-P)	5-1-0
	Course Type	Compulsory
5	Course Objective	It is designed to provide students with the working knowledge of the structure of the human body which is essential foundation for



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		their clinical studies. Studies are concerned with the top						
		and functional anatomy of the limbs and thorax. Particularly is paid to the muscles, bones and joints of the regions.	ar attention					
		The abdomen, pelvis, perineum, head and neck and cent	ral nervous					
		system (CNS) are studied with particular reference to to						
		importance to physiotherapists. The study of the CNS includes						
		detailed consideration of the control of motor function.						
6	Course Outcomes	atcomes CO1: Identify the axis and planes of different movements in huma						
		body and should be able to tell common anatomical term	ninology.					
		CO2: Identify the structures and classification of various						
		connective tissues, bones, joints and muscles in the hum	an body					
		and correlate the structure with the functions.						
		CO3: Discuss about the structural and functional import						
		muscles, joints, long and short nerves and different space						
		limb and lower limb, trunk and pelvis including applied	-					
		CO4: Gain knowledge of greater vessels, muscles and st and functional importance of different viscera	ructurai					
		CO5: Identify and describe various parts of nervous syst	em					
7	Course Description	The study of anatomy will include identification of all g						
′	Course Description	anatomical structures. Particularly emphasis will be place						
		description of bones, joints, muscles, the brain, cardio p						
		and nervous system, as these are related to the application						
		physiotherapy and occupational therapy in patients.						
8	Outline syllabus		CO					
	77.4.4		Mapping					
	Unit 1	Neuro Anatomy	GO1					
	A	Organization of Central Nervous system - Spinal	CO1, CO5					
		nerves and autonomic nervous system, Cranial nerves, Peripheral nervous system, Peripheral nerve	CO3					
	В	•	CO1,					
	Б	Neuromuscular junction, Sensory end organs,	CO1,					
		Central Nervous System, Spinal segments and						
		areas, Brain Stem, Cerebellum, Inferior						
		colliculi, Superior Colliculi, Thalamus,						
		Hypothalamus, Corpus striatum, Cerebral						
		11 ' 1 ' ' 1 ' ' ' ' ' ' ' ' ' ' ' ' '						
1	G	hemisphere, ventricle system, meninges	G01 G05					
	С	Blood supply to brain, Basal Ganglia, the pyramidal	CO1,CO5					
		Blood supply to brain, Basal Ganglia, the pyramidal system, Pons, medulla, extra pyramidal systems.	CO1,CO5					
	Unit 2	Blood supply to brain, Basal Ganglia, the pyramidal system, Pons, medulla, extra pyramidal systems. Abdomen	·					
		Blood supply to brain, Basal Ganglia, the pyramidal system, Pons, medulla, extra pyramidal systems. Abdomen I. Peritoneum: Parietal peritoneum, visceral	CO1,CO5					
	Unit 2	Blood supply to brain, Basal Ganglia, the pyramidal system, Pons, medulla, extra pyramidal systems. Abdomen I. Peritoneum: Parietal peritoneum, visceral peritoneum, folds of peritoneum, functions of	·					
	Unit 2 A	Blood supply to brain, Basal Ganglia, the pyramidal system, Pons, medulla, extra pyramidal systems. Abdomen I. Peritoneum: Parietal peritoneum, visceral peritoneum, folds of peritoneum, functions of peritoneum.	CO1,CO3					
	Unit 2	Blood supply to brain, Basal Ganglia, the pyramidal system, Pons, medulla, extra pyramidal systems. Abdomen I. Peritoneum: Parietal peritoneum, visceral peritoneum, folds of peritoneum, functions of	·					
	Unit 2 A	Blood supply to brain, Basal Ganglia, the pyramidal system, Pons, medulla, extra pyramidal systems. Abdomen I. Peritoneum: Parietal peritoneum, visceral peritoneum, folds of peritoneum, functions of peritoneum. Large blood vessels of the gut.	CO1,CO3					
	Unit 2 A	Blood supply to brain, Basal Ganglia, the pyramidal system, Pons, medulla, extra pyramidal systems. Abdomen I. Peritoneum: Parietal peritoneum, visceral peritoneum, folds of peritoneum, functions of peritoneum.	CO1,CO3					



	bladder.Ant	spleen, pancreas, kidney, urinary bladder,intestines,gall bladder.Anterior abdominal wall and posterior abdominal wall.						
Unit 3	Pelvis							
A		Position, shape, size, features, blood supply of the male reproductive system.						
В		ape, size, features, blooductive system.	lood supply of the	CO1,CO3				
С	Nerve supp system.	ly of the male and fe	male reproductive	CO1,CO3				
Unit 4	Lower Ext	remity						
A		Hip bone, femur, tibe atarsals and phalange	=	CO3, CO4				
В	(Femoral tr And inguina (Adductor of	Soft parts: Gluteal region, front and back of the thigh (Femoral triangle, femoral canal And inguinal canal), medial side of the thigh (Adductor canal) lateral side of the thigh, popliteal fossa, anterior and posterior compartment of leg, sole						
С	the lower li	drainage of lower lin mb, arterial supply o oot, skin of foot.	nb, venous drainage of f the lower limb,	CO3,CO4				
Unit 5	Joints of L	ower Extremity						
A	Hip Joint			CO2,CO3				
В	Knee joint			CO2, CO3				
С	Ankle joint	, joints of the foot.		CO2, CO3				
Mode of examination	Theory/jury	//Practical/Viva						
Weightage	CA	MTE	ETE					
Distribution	30%	20%	50%					
Text book/s*	2. Inde 3. Tex Sing	 Inderbir Singh- Textbook of Anatomy. Textbook of Anatomy with color Atlas-Inderbir Singh. 						
Other references	2. A K	Kieth L Moorie, Clinically Oriented Anatomy. A K Datta, Essentials Of Human Anatomy: Thorax And Abdomen						



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3

1-Slight (Low) 2-Moderate (Medium)3-Substantial (High)

	nool: School Of ied Health Sciences	Batch :2020-24			
	ogram: Bachelors ohysiotherapy	Current Academic Year:2020-21			
Bra	anch:	Semester: II			
Phy	ysiotherapy				
1	Course Code	BPT 114			
2	Course Title	HUMAN PHYSIOLOGY II			
3	Credits	6			
4	Contact Hours	5-1-0			
	(L-T-P)				
	Course Type	Compulsory			
5	Course Objective	The objective of this course is that after lectures,			
		demonstrations, practical and clinics the student will be able			
		to demonstrate an understanding of elementary human			
		physiology			
6	Course Outcomes	CO1: demonstrate abrief knowledge of pathway of vision,			
		auditor and taste, smell and balance along with their disorders.			
		CO2: Understand the function of Peripheral and central nervous			
		system and their function. They should be able to tell different			
		pathways present in central nervous system with their location			
		function and lesion including Upper and Lower motor neuron			
		lesion.			



7	Course Description	CO3: understand the physiology of excretory and reproductive system. CO4: To understand the influence of various environmental factors including personal stressors like exercise on the organ systems The course is designed to assist the students to acquire knowledge of the normal human Physiology of various body systems and understand the alternation in physiology in disease and practice of Physiotherapy as applicable for each systemic disorder					
8	Outline syllabus		CO Mappi ng				
	Unit 1	The Excretory System					
	A	Physiological anatomy of kidney & mechanism of formation of Urine.	CO1, CO5				
	В	Mechanism of concentration and dilution of urine, The Counter Current System, Acidification of Urine.	CO1, CO5,				
	С	Physiology of micturition and regulation of body temperature in humans.	CO1,C O5				
	Unit 2	Endocrine System					
	A	General principles of endocrinology, pituitary gland. Thyroid Gland, Adrenal Cortex & Pancreas.	CO1,C O3				
	В	, Parathyroid , Calcitonin and Vitamin D.	CO1, CO3				
	С	Adrenal medulla, Thymus & the pineal Gland.	CO1, CO3				
	Unit 3	Reproductive System					
	A	Puberty, classification and functions of male and	CO1,C				
		Female sex hormones, The Male reproductive system.	O3				
	В	The Female Reproductive System female sexual	CO1,C				
		cycle, ovulation and contraception.	O3				
	С	Physiological changes during pregnancy, child birth,	CO1,C				
		functions of placenta and physiology of lactation.	O3				
	Unit 4	The Nervous System					
	A	Organization of Nervous system, Synapse, Physiology of receptor organs for special and general sensation, physiology of touch, pain and temperature sensation, physiology of reflex action, classification and properties of reflexes.	CO3, CO4				
	В	Sensory and motor tracts of spinal cord and effects of complete and incomplete transaction of spinal cord at various levels. Cerebral Cortex—characteristics, areas	CO3, CO4,				



		I			leyond Bound				
				asal ganglia—upper					
		and lower motor lesions, structure functions and							
		connectionsHypothalamus & its functions							
	C		f equilibrium and po	CO3,C					
			eech and it's disorde	-	O4				
		Fluid and Blo	ood Brain Barrier, A	NS					
	Unit 5	Special Sens							
	A		ne of Image formati		CO2,C				
			apillary and conjunc		O3				
			ne of mechanism of	hearing and					
		perception of	sound.						
	7				002				
	В		action & their correct		CO2,				
			ess.Test of hearing &	etypes of deafness	CO3				
	С	Taste and Ol	faction.		CO2,				
					CO3				
	Mode of	Theory/jury/l	Practical/Viva						
	examination		T	I					
	Weightage	CA	MTE	ETE					
	Distribution	30%	20%	50%					
	Text book/s*	1. Sembulin	gum, K., Esse	ntials of Medical					
		Physiolog	gy						
		2. Dr. S.C. 0	Choudhary, Concise	medical physiology					
		3. Dr. C.C.	Chatterjee., Human	physiology					
			Review of Medical l						
			Wright's Applied Phy						
			Halls, Medical Phy						
		o. Guyon &	Tians, Weater ing	siology					
	Other references	1. Sam san writes applied physiology handbook -by							
		2. Best and	Taylor's physiolog	ical basic of Medical					
		practice-	C.H. Best aetal						
			physiology Dr. A.C hysiology William Fo	C. Gutton. Review of					
D) _a DO1 DO2		1 DOS DOG		DO10 DO				

					05			0			
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3



1-Slight (Low) 2-Moderate (Medium)3-Substantial (High)

	nool: School Of ied Health Sciences	Batch: 2020-24
	ogram: Bachelors ohysiotherapy	Current Academic Year:2020-21
_	anch: ysiotherapy	Semester: II
1	Course Code	BPT 123
2	Course Title	BASIC PRINCIPLES OF BIOMECHANICS
3	Credits	6
4	Contact Hours	5-1-0
	(L-T-P)	
	Course Type	Compulsory
5	Course Objective	On successful completion of this programme, students should be able to describe the understanding of basics of mechanics, muscle structure and contraction, factors effecting muscle contraction and recruitment, explain mechanics of chest wall during various movements and the patho-mechanics associated with various chest conditions and deformities, understand normal mechanics and patho mechanics of TMJ associated with various conditions, analyse normal mechanics of posture and gait in various planes and axis and patho mechanics associated with abnormal posture and gait.

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			,
6	Course Outcomes	CO1: The Basics of mechanics of force system, equilib lever and pulley. CO2: Describe the joint structure, classification and fur joints And biomechanics of Connective tissue CO3: Describe the muscle structure and function of mu types of muscles, contractions and factors effecting mu recruitment and function CO4: Describe the biomechanics of the thoracic and ch and patho biomechanics associated with chest deformit CO5: Describe the temporo mandibular joint structure, and dysfunction CO6: Describe the analysis of posture and gait during s dynamic movement, relation with LOG, pathomechanics	rium, nction of scles, scle est wall ies function tatic and
1		abnormal gait and posture	
7	Course Description	This Course Supplements the Knowledge of anatomy and er student to have a better understanding of the principles of biomechanics and their application in musculoskeletal and v other dysfunctions	arious
8	Outline syllabus		CO
			Mappi
			ng
	Unit 1	Basic Concepts in Biomechanics: Kinematics and	
		Kinetics	
	A	Types of Motion	CO1,
		Location of Motion	CO6
		Direction of Motion	
		Magnitude of Motion	
		Definition of Forces	
	В	Forceof Gravity	CO1,
		Reaction forces	CO6,
		Equilibrium	,
		Objects in Motion	
		Force of friction	
	С	Concurrent force systems	CO1,C
		Parallel force system	06
		Work	
		Moment arm of force	
		Force components	
		Equilibrium of levers	
		•	
	Unit 2	Joint structure and Function	
	A	Joint design	CO2,C
		Materials used in human joints	03
	В	General properties of connective tissues	CO2,
		Human joint design	CO3
	С	Joint function	CO2,
			~ ~ ~ ,

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						Beyond Bound
		Joint motion General effect	ets of disease,in	jury a	nd immobilization.	CO3
Un	it 3	Muscle struc	ture and function	n		
A			stability function		f muscles	CO2,C
			J			O3
В		Elements of a	muscle structure	e		CO2,C
		Muscle funct	ion			O3
С		Effects of im	mobilization, ir	ijury a	and aging	CO2,C
						O3
Un	it 4	Biomechanic	s of the Thorax	and C	Chest wall	
A		General struc	ture and function	on		CO2,
						CO4
В		Rib cage and	the muscles as	sociat	ed with the rib cage	CO3,
					tion and integration	CO4,
С		Development	tal aspects of st	ructui	e and function	CO2,C
					unction in relation to	O4
		pregnancy, so	coliosis and CO	PD		
Un	it 5	The Tempore	mandibular Joi	int-		
A		General featu	ires			CO2,C
						O5
В		Structure				CO2,
						CO5
C		Function and	dysfunction			CO2,
						CO5
	ode of	Theory/jury/l	Practical/Viva			
	nmination					
	eightage	CA	MTE		ETE	
	stribution	30%	20%		50%	
Te	xt book/s*	1. Biomecha	anical principle	s: Fre	nkel	
		2. Joint Stru	cture & Function	ons : l	Norkins	
		3. Biomecha	nics- Nordin			
Otl	ner references	1. Basic Bio	mechanics Exp	laine	d - Low & Reed -	
		Butterwo	rth Heinmann.			
		2. Kinesiolo	gy: Applied to	Patho	ological Motion -	
			g Lippincott		<i>5</i>	
				Carol	lyn Kisner, F. A.	
		Davis.	the Exercise by	Caro	iyii Kisiici, F. A.	
1		Davis.				

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	3	3	3	3	3	3	3	3

										Beyond Bo	
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3
CO201.6	3	3	3	3	3	3	3	3	3	3	3

Practical

Note: This is to be supported a **list of Practical's (As shown in template B2) in the Instructional Plan** listing the practical's which also needs to be uploaded onto LMS.

	nool: School Of	Batch: 2020-24
	ied Health Sciences	
	ogram: Bachelors	Current Academic Year:2020-2021
	physiotherapy	
	anch:	Semester: II
Ph	ysiotherapy	
1	Course Code	BPT 153
2	Course Title	HUMAN ANATOMY II (PRACTICAL)
3	Credits	2
4	Contact Hours	0-0-4
	(L-T-P)	
	Course Type	Compulsory
5	Course Objective	It is designed to provide students with the working knowledge of the structure of the human body which is essential foundation for their clinical studies. Studies are concerned with the topographical and functional anatomy of the limbs and thorax. Particular attention is paid to the muscles, bones and joints of the regions.
		The abdomen, pelvis, perineum, head and neck and central nervous system (CNS) are studied with particular reference to topics of importance to physiotherapists. The study of the CNS includes detailed consideration of the control of motor function.
6	Course Outcomes	CO1: Identify the axis and planes of different movements in human body and should be able to tell common anatomical terminology. CO2: Identify the structures and classification of various connective tissues, bones, joints and muscles in the human body and correlate the structure with the functions. CO3: Discuss about the structural and functional importance of muscles, joints, long and short nerves and different spaces in upper limb and lower limb, trunk and pelvis including applied



	_	1				2,1	Beyond Boun		
						sels, muscles and	d structural		
				l importance					
	G 5					arts of nervous s	•		
7	Course Description					entification of a			
						nphasis will be p			
						the brain, cardio			
						ese are related to			
				t physiothera	py and occ	upational therap	y ın		
	0 11 11 1	patients	S				00		
8	Outline syllabus						CO		
							Mappi		
	TT 4.4	N.T.	<u> </u>				ng		
	Unit 1	Neuro		omy			GO1 G		
			Brief				CO1,C O5		
		2.	2. Surface Anatomy						
		3.	Demo	onstration & I	Examinatio	n			
	Unit 2	Abdomen							
		1.	CO1, CO3						
		2.	2. Surface Anatomy						
		3.	3. Demonstration & Examination						
	Unit 3	Pelvis							
		1.	Brief				CO1,C		
		2.	Surfa	ce Anatomy			O3		
		3.	Demo	onstration & I	Examinatio	n			
	Unit 4	Lower	Extre	emity					
		1.	CO3,C						
		2.	Surfa	ce Anatomy			O4		
		3.	3. Demonstration & Examination						
	Unit 5	Joints	of Lov	wer Extremi	ty				
			Brief				CO2,		
		2.	Surfa	ce Anatomy			CO3		
			 Surface Anatomy Demonstration & Examination 						
		3.	Demo	nstration & I	Examinatio	on			
	Mode of	3. Practica			Examinatio	on			
	Mode of examination				Examinatio	on ————————————————————————————————————			
	examination	Practica		a					
					E	ΓE 0%			
	examination Weightage Distribution	Practica CA 60%	al/Viv	a MTE 0%	E 40	ΓΕ 0%			
	examination Weightage	Practica CA 60% 1.	al/Viv	a MTE	E' 4(uman Ana	ΓE 0% tomy.			



	4.	Singh. Richard S. Snell- Clinical Anatomy.	
Other references	1.	Kieth L Moorie, Clinically Oriented Anatomy.	
	2.	A K Datta, Essentials Of Human Anatomy:	
		Thorax And Abdomen	
	3.	Inderbir Singh, Human Osteology.	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3

Practical

Note: This is to be supported a **list of Practical's (As shown in template B2) in the Instructional Plan** listing the practical's which also needs to be uploaded onto LMS.

School: School Of Batch: 2020-24

Allied Health Sciences

Program: Bachelors Current Academic Year: 2020-2021

of physiotherapy

Branch:Physiotherapy Semester: II

	inemia ny stouner apy	5
1	Course Code	BPT 154
2	Course Title	HUMAN PHYSIOLOGY II (PRACTICAL)
3	Credits	2
4	Contact Hours	0-0-4
	(L-T-P)	
	Course Type	Compulsory
5	Course Objective	The objective of this course is that after lectures,
		demonstrations, practical and clinics the student will be able
		to demonstrate an understanding of elementary human
		physiology
6	Course Outcomes	CO1: demonstrate abrief knowledge of pathway of vision,
		auditor and taste, smell and balance along with their disorders.
		CO2: Understand the function of Peripheral and central nervous
		system and their function. They should be able to tell different



		pathways present in central nervous system with their function and lesion including Upper and Lower moto lesion. CO3: understand the physiology of excretory and representations. CO4: To understand the influence of various environments factors including personal stressors like exercise on the systems	r neuron roductive onmental
7	Course Description	The course is designed to assist the students to acquire knowledge of the normal human Physiology of various be systems and understand the alternation in physiology in and practice of Physiotherapy as applicable for each syst disorder	disease
8	Outline syllabus		CO Mappi ng
	Unit 1		201.0
		1. Differential Leucocyte Count.	CO1,C O5
		2. Demonstration	03
		3. Experimentation	
	Unit 2		
		1. Arterial Blood Pressure and radial pulse.	CO1,C
		2. Effect of Exercise on B.P.	O3
		3. Effect of Posture on B.P.	
	Unit 3		
		1. General Clinical Examination	CO1,C
		2. Clinical Examination of CVS	O3
		3. Clinical Examination of Respiratory System	
	Unit 4		
		1. Clinical Examination of Cranial nerves	CO3,
		2. Clinical Examination of Sensory system	CO4
		3. Clinical Examination of Motor system.	
	Unit 5		
		Demonstration of normal frog cardiogram	CO2,C
		2. Effect of temperature on it.	O3
		3. Demonstration	
	Mode of	Practical/Viva	
	examination		
	I.	1	

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Weightage	CA	MTE	ETE	yona boana
Distribution	60%	0%	40%	
Text book/s*	1. Sembulin	gum, K., Esser	ntials of Medical	
	Physiolog	gy		
	2. Dr. S.C. 0	Choudhary, Concise	medical physiology	
	3. Dr. C.C.	Chatterjee., Human լ	ohysiology	
	4. Ganong,	Review of Medical F	Physiology	
	5. Samson V	Wright's Applied Phy	vsiology	
	6. Guyon &	Halls, Medical Phys	siology	
Other references	1. Sam san	writes applied phys	iology handbook -by	
	Cyril a ke	eleericB.Neil		
	2. Best and	Taylor's physiologi	cal basic of Medical	
	practice-	C.H. Best aetal		
	3. Medical	physiology Dr. A.C	. Gutton. Review of	
	Medical P	hysiology William Fo	oGanong	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs	101	102	103	104	103	100	107	100	10)	1010	1011
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3

1-Slight (Low) 2-Moderate (Medium)3-Substantial (High)

School: School Of		Batch: 2020-24
Alli	ied Health Sciences	
Pro	gram: Bachelors	Current Academic Year: 2020-2021
of p	ohysiotherapy	
Bra	nnch:	Semester: II
Phy	ysiotherapy	
1	Course Code	BPT 159
2	Course Title	BASIC PRINCIPLES OF BIOMECHANICS
		(PRACTICAL)
3	Credits	1



4	Contact Hours	0-0-3	Beyond Bound
	(L-T-P)		
	Course Type	Compulsory	
5	Course Objective	On successful completion of this programme, students able to describe the understanding of basics of mechanimuscle structure and contraction, factors effecting must contraction and recruitment, explain mechanics of chest during various movements and the patho-mechanics assembly with various chest conditions and deformities, understated normal mechanics and patho mechanics of TMJ associated various conditions, analyse normal mechanics of posture gait in various planes and axis and patho mechanics assembly with abnormal posture and gait.	cs, scle st wall sociated and ated with re and
6	Course Outcomes	CO1: The Basics of mechanics of force system, equilibrium	rium
7	Course Description	lever and pulley. CO2: Describe the joint structure, classification and fur joints And biomechanics of Connective tissue CO3: Describe the muscle structure and function of mu types of muscles, contractions and factors effecting must recruitment and function CO4: Describe the biomechanics of the thoracic and ch and patho biomechanics associated with chest deformit CO5: Describe the temporo mandibular joint structure, and dysfunction CO6: Describe the analysis of posture and gait during s dynamic movement, relation with LOG, pathomechanic abnormal gait and posture This Course Supplements the Knowledge of anatomy and ensudent to have a better understanding of the principles of biomechanics and their application in musculoskeletal and v	est wall ies function tatic and es of
8	Outline syllabus	other dysfunctions	CO Mappi ng
	Unit 1	Basic Concepts in Biomechanics: Kinematics and Kinetics	
		 Brief Demonstration Examination 	CO1, CO6
	Unit 2	Joint structure and Function	
		 Brief Demonstration Examination 	CO2,C O3
	Unit 3	Muscle structure and function	
	1 Jiii J	1.100010 birdetare and function	

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				Beyond Bound		
	1. Brie	ef		CO2,C		
	2. Den	nonstration		O3		
	3. Exa	mination				
Unit 4			ax and Chest wall			
	1. Brie	ef		CO2, CO4		
	2. Den	2. Demonstration				
	3. Exa	3. Examination				
Unit 5	The Tempo	The Temporomandibular Joint-				
A	1. Brie			CO2,C		
	2. Den	nonstration		O5		
	3. Exa	mination				
Mode of	Practical/V	iva				
examination		1				
Weightage	CA	MTE	ETE			
Distribution	60%	0%	40%			
Text book/s*		hanical princip				
	2. Joint St	ructure & Func	tions : Norkins			
	3. Biomech	nanics- Nordin				
Other references	1. Basic B	iomechanics Ex	xplained - Low & Reed -			
	Butterw	orth Heinmann	l .			
	2. Kinesio	2. Kinesiology: Applied to Pathological Motion -				
		erg Lippincott				
	3. Therape Davis.	eutic Exercise b	y Carolyn Kisner, F. A.			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3
CO201.6	3	3	3	3	3	3	3	3	3	3	3



THIRD SEMESTER

I	chool: AHS	Batch: 2020-24					
	rogram:	Current Academic Year: 2021-22					
	PT						
H	ranch:SA	Semester:3rd					
1	Course	BPT216					
1	Code	DF 1210					
2	Course	PATHOLOGY&MICROBIOLOGY					
	Title	171110E001atviickobioE001					
3	Credits	6					
4	Contact	6-0-0					
-	Hours						
	(L-T-P)						
	Course	Compulsory					
	Type						
5	Course	1.The student will be able to					
	Objective	understand the concepts of cell injury and changes in relation towards the					
		pathological effects of					
		infectious and non infectious diseases &understand the disease process,					
		the clinical significance (with special emphasis on neuro-musculoskeletal and					
		cardio-respiratory					
		system)					
		2. Understand the importance of microbiology, the basic concepts of					
		microbiology, the importance of sterilization &					
		the nosocomial infection and its prevention in the relative field.					
		the hospeonial infection and its prevention in the relative field.					
6	Course	At the end of the course, the student will be able to					
	Outcomes	CO1: Acquire the knowledge of concepts of cell injury and changes Produced					
		thereby indifferent tissues					
		and organs; Capacity of the body in healing Process.					
		CO2: Recall the Etio-pathological effects and the Clinico pathological					
		Correlation of common infection. They can also understand the importance					
		and procedure of sterilization for hospitals, lab, ICU, OT and during surgery,					
		to manage biomedical waste products and to understand the nosocomial					
		infection and their prevention and non infectious diseases.					
		and non infectious diseases.					



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		CO3:Acquire the knowledge of concepts of Neoplasia with reference Etiology, gross and microscopic features diagnosis and prognosis in different tissues and of the body. They are able to characterize, understand the pathogenic disease.	organs
		CO4:Correlate normal and altered .morphology of different organ system different diseases needed for understanding disease process and their clinical significance (with emphasis on neuromusculoskeletal and cardio-respiratory system). They can understanding of disease, diagnosis, treatment and prevention of disease	special tand the
		CO5: Acquire knowledge of common immunological disorders and the resultant effects on the human body. They will be able to perform, demonstrate, implement and apply the concept of microbiology in behanderstanding with relevance to human disease.	
		CO6: Understand in brief, about the Hematological diseases and their resultant effects on the human body.	
7	Course Descriptio n	The course is designed to develop the basic knowledge about the coninjury, its healing process and its resultant effects on the human body Microbiology involves the study of common organisms causing disease including nosocomial infections and precautionary measures to prote from acquiring infections. The knowledge and understanding Microb of diseases is essential to institute appropriate treatment or suggest primeasures to the patient. Particular effort is made in this course to avoid burdening the student.	ses et one iology eventive
8	Outline syl	labus	CO Mappi ng
	Unit 1	General Pathology	8
	A	1)Cell injury- causes, mechanisms with special reference Physical, Chemical and toxic injury and ionizing radiation. Reversible cell injury& (degenerations)-types, morphology cellular swelling, fatty change. Intracellular accumulations -hyaline change and mucoid, change. 2) Irreversible cell injury, types of necrosis, apoptosis, Gangrene:	CO1, CO2

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 	Веуо	nd Boundari
	types and etiopathogenesis, Pathological calcification-dystrophic and	
	metastasis, pathogenesis and morphology	
	3) Extra- cellular accumulation-amyloidosis, Pigments and	
	pigmentations	
	p.g.memarions	
D	T Cl	
В	Inflammation and repair	
	1)Acute inflammations features; causes, vascular & mp; cellular	
	events, morphologic	
	Variations	
	2) Inflammatory cell & mp; mediators, Chronic inflammation:-	
	causes, types, non-specific & amp; granulomatous with examples	
	3) Wound healing by primary & primary & intention factors	
	promoting & promot	
	healing process, healing at various sites including bones, nerve	
	9.5	
<u> </u>	& & amp; muscle. Regeneration & amp; repair.	CO1
C	Fungal disease and opportunistic infections. Parasitic diseases:	CO1,
	Malaria, Filaria, Amoebiasis, Kala-azar, Cysticercosis, Hydatid cyst.	CO3
Unit 2		
A	Hyperemia /Ischemia and Haemorrhage Edema: Pathogenesis and	CO3,
	types .Chronic venous	CO4
	congestion: Lung ,Liver, Spleen, Systemic Pathology Thrombosis and	
	Embolism: Formation, Fate and	
	Effects.	
	Infarction: Types, Common sites	
	Shock: Pathogenesis, types, morphologic changes.	
В	Growth Disturbances:	
Б		
	1) Atrophy, Hypertrophy, Hyperplasia, Aplasia, Hypoplasia,	
	Metaplasia, Malformation,	
	agenesis, dysplasia. Precancerous lesions.	
	Neoplasia:	
	1) Neoplasia: Definition, classification, Biological behaviour: Benign	
	and Malignant,	
	Carcinoma and Sarcoma. Malignant Neoplasia: Grades and Stages,	
	Local & Distant	
	spreadCarcinogenesis:Environmentalcarcinogens,chemical,viral,occ	
	upational.Heredityand cellular	
	oncogenes and prevention of cancer.Benign & Dalignant	
	epithelial tumours Eg. Squamous papilloma, Squamous cell	
	carcinoma, Malignant melanoma.Benign&Malignant mesenchy	
	maltumours Eg: Fibroma, Lipoma,	
	Neurofibroma, Fibrosarcoma, Liposarcoma, Rhabdo-myosarcoma,	
	Teratoma.	
		1

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	Bey o	nd Bounda
С		CO3,
	Genetic disorders:	CO3,
	1)Genetic Disorders—. Basic concepts of genetic disorders and some	COO
	common examples and congenital	
	malformation.	
	Hematology:	
	1) Nutritionalanemias, Acquired hemolytic anaemias, Hemostatic	
	disorders, Vascular and Platelet disorders& lab diagnosis.	
	Coagulopathies, Leukocytic disorders, Leukemia, Blood transfusion	
Unit 3	Lymphatic system	
A	1)Diseases of the gall bladder- cholecystitis, cholelithiasis,	CO3,
A	carcinoma, lymphadenitis-nonspecific and granulomatous. Causes of	CO5,
	lymph node enlargements. Reactive Hyperplasia, Primary	
	Tumours-Hodgkin& and Nonhodgkin& Lymphomas, Metastatic	
	Tumours, Causes of Splenic Enlargements.	
	2) Inflammations and Infections: TB Meningitis, Pyogenic	
	Meningitis, viral meningitis and Brain	
	Abscess, Tuberculosis, Cysticercosis	
	Neuropathology:	
	1) CNS Tumors, Astrocytoma, Neuroblastoma, Meningioma,	
	Medulloblastoma	
В	Introduction of Microbiology:	CO1,
	1)Medical terminologies, Importance and applications of medical	CO2
	microbiology	
	2) Sterilization	
	3) Antiseptic and disinfection	
С	Introduction to Immunology 7 Immune system	CO1,
	1) Organ and cells involved in immune response	CO3
	2) Antigen	
	3) Immunoglobulins (antibody)	
	4) Antigen – antibody reaction	
	6) Hypersensitivity 7) Immunity (vaccines	
	7) Immunity (vaccines	
Unit 4		002
A	1)General classification of microorganisms & Damp; characteristics	CO3
	Bacteriology:	



	2)Classification of bacteria & characteristics,morphology & anatomy 3)physiology:nutrient,microbial growth & factors associated with growth 4)Culture medis &identification	nd Bounda
В	Systemic bacteriology: Introduction, general features, pathogenicity, diagnosis, treatment and prevention 1) Mycobacterium tuberculosis, Mycobacterium leprae 2) Chlamydia trachomatis	CO3, CO5
С	3)Diarrhoea: Salmonella, Shigella, Vibrio 4)Food poisoning: Clostridium5) Spirochaetes (Syphilis and Leptospirosis)	
Unit 5	Parasitology, Virology and Mycology: Introduction, general features, pathogenicity, diagnosis, treatment and prevention	
A	Parasitology 1. Plasmodium 2. Amoebiasis: Entamoebahistolytica 3. Filaria Virology: 1. Polio virus 2. Orthomyxovirus 3. Paramyxovirus 4. Hepatitis 5. Herpesvirus 6. HIV	CO3, CO5
В	Mycology: 1. Subcutaneous Mycoses 2. Superficial mycosis 3. Opportunistic Mycoses	
С	Applied Microbiology 1)Hospital acquired infection 2)Biomedical waste management 3)Central nervous System infections 4)Meningitis	CO2, CO3
Mode of examinat ion	Theory/Jury/Practical/Viva	



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Weighta	CA	MTE	ETE	
ge	200/	200/	500 /	
Distribut	30%	20%	50%	
ion				
Text	1. Text book of patho	logy by Ha <mark>rsh Mohan</mark>		
book/s*	2. Basic pathology by	cotran Kumar Robbii	ns	
	1.Text books of Micro	biology- R. Ananthna	rayan &	
	C.K.JayramPanikar			
	2. Textbook of Micro	biology-C.P.Baweja,	Arya publications	
	3. Essential of Medica	al Microbiology – Apr	urba S	
	Sastry&Sandhya	Bhat, JAYPEE public	eation	

PO	РО	PO	PS	PS	PS	PS										
S	1	2	3	4	5	6	7	8	9	10	11	12	01	O2	O3	О
CO																4
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CO	2	2	3	3	3	3	2	2	3	2	3	2	2	3	2	2
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2																
CO	2	2	2	2	3	3	3	2	2	3	2	2	3	2	2	3
4																
CO	3	2	3	3	2	2	2	2	2	3	3	2	3	2	2	2
5																
CO	2	2	3	2	2	3	3	3	2	2	2	3	2	2	3	3
6																

Template 2

School: SAHS	Batch : 2020-24
Program: BPT	Current Academic Year: 2021-22
Branch:	Semester:3 RD
1 Course Code	BPT217
2 Course Title	Pharmacology
3 Credits	4

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	<u> </u>	Beyond Bo	undaries								
4	Contact	4-0-0									
	Hours										
	(L-T-P)										
	Course Type	Compulsory									
5	Course	1.Introduce the students to basic pharmacology of various common									
	Objective	medication used and its effects on patients in physical therapy									
	-	2. Treatment of ailment of cardiovascular system, GOT, endocrine system									
		drugs	-								
		3.To make student understand the drug and physiotherapy contributtion	ı in								
		the outcome of the treatment.									
6	Course	CO1: 1. To understand the various routes of drugs administra	ation								
~	Outcomes	pharmacodynamics and pharmacokinetics of drugs.	ation,								
	Outcomes	pharmacocynamics and pharmacoknetics of drugs.									
		CO2: To understand the various drugs used for the treatment of ANS,	PNS								
		and CNS conditions with their mechanism of action and adverse effects.									
		and Civis conditions with their incentains in or action and adverse circuis.	•								
		CO3: To understand the various drugs used for the treatment of endo	ocrine								
		system with their mechanism of action and adverse effects.	CHIL								
		system with their mechanism of action and adverse effects.									
		CO4: To understand the various drugs used for the treatment of	GIT								
		_	GH								
		problems with their mechanism of action and adverse effects									
		COS. To understand the various antihictic drugs with their machanis	m of								
		CO5: To understand the various antibiotic drugs with their mechanis action and adverse effects	5111 01								
		CO6: To understand the various drugs used for the treatment of ailmed									
		cardio vascular system ,bronchial asthma,skin lesions with their mecha	amsm								
		of action and adverse effects.									
L											
7		This course introduces the student to basic pharmacology of common di									
	Description	used, their importance in the overall treatment including Physiotherapy.									
		student after completing the course will be able to understand the general									
		principles of drug action and the handling of drugs by the body. The stu									
		will be aware of the contribution of both drug and physiotherapy factors	s in								
		the outcome of treatment.									
			ı								
8	Outline syllabu	us .	CO								
			Ma								
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	Uni General	Pharmacology-									

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<u>t 1</u>	Internation Definitions Classification C. 1. C.	00
A	Introduction, Definitions, Classification of drugs, Sources of drugs	1, CC 2
В	Routes of drug administration, Distribution of drugs, Metabolism and Excretion of drugs	
С	Pharmacokinetics, Pharmacodynamics, Factors modifying drug response, Adverse effects	
Uni t 2	AutonomicNervous system&Cardiovascular Pharmacology-	C(1,0 02 C(3
A	General considerations-The SympatheticandParasympatheticSystems,Receptors, Somatic NervousSystemCholinergic andAnti- Cholinergicdrugs,AdrenergicandAdrenergicblockingdrugs, Peripheral muscle relaxants.	
В	Antiarrhythmic Drugs-Drugs used in the treatment of vascular disease and tissue ischemia	
С	Drugs used in the treatment of heart failure :Digitalis , Diuretics, Vasodilators, ACE inhibitors. Antihypertensive Drugs: Diuretics, Beta Blockers, Calcium ChannelBlockers, ACEInhibitors, CentralActingAlphaAgonists, Peripher alAlphaAntagonists, Direct acting Vasodilators	
Uni t 3	Neuropharmacology & Disorders of Movement	C(0 1,0 03 C(0 5
A	Sedative-Hypnotic Drugs: Barbiturates, Benzodiazepines Antianxiety Drugs: Benzodiazepines, Other Anxiolytics DrugsUsedinTreatmentofMoodDisorders:MonoamineOxidaseInh ibitors,Tricyclic	
В	Antidepressants, Atypical Antidepressants, Lithium d. Antipsychotic drugs	
С	Drugsused in Treatment of Parkinson's disease Antiepileptic Drugs, Spasticity and Skeletal Muscle Relaxants	



Uni t 4	Inflammatory/Immu	ıneDiseases	• • • • • • • • • • • • • • • • • • • •	ond Bounda							
A	Non-narcoticAnalgesicsandNonsteroidalAnti- InflammatoryDrugs:Acetaminophen,NSAIDs, Aspirin, Nonaspirin NSAIDs, drug Interactinswith NSAIDs										
В	Glucocorticoids:PharmacologicalUsesofGlucocorticoids,adverseeff ects,Physiologic Use ofGlucocorticoids										
С	arthritis,Gout,Myası stemiclupusErythen RespiratoryPharmac	theniagravis,Idiop natous,Scleroderm cology:Obstructive	eases:RheumatoidArthritis,Osteo athicInflammatoryMyopathies,sy a,Demyelinating Disease AirwayDiseases,Drugsus iseases ,Allergic Rhinitis.	,C 5							
Uni t 5	Digestion and Meta	bolism & Geriatrio	es-								
A	Gastrointestinal Pha Constipation, Diarrh		Ulcer Disease,	1,0 0.5							
В	Drugs Used in Trea	tment of Diabetes	Mellitus: Insulin, Oral Hypoglycemic								
С		he geriatric Popul	ation: Adverse effects of special conce								
Mo de of exa min atio n	Theory/Jury/Practic	al/Viva									
Wei	CA	MTE	ETE								
ghta ge Dist ribu tion	30% 20% 50%										
Tex t boo k/s*	1.Essentials of pharmacology by KD Tripathi 2. Pharmacology by Bhattacharya Sen ray choice editor P.K. Das 3. Clinical Pharmacology by Sennet.										

PO	P	P	P	P	P	P	P	P	P	PO	PO	РО	PS	PS	PS	PS
S	O1	O2	O3	O4	O5	O6	O 7	O8	O9	10	11	12	O1	O2	O3	О

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s																
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.3																
CO	2	2	2	2	3	3	2	3	2	2	2	2	2	2	2	2
.4																
CO	3	2	3	3	2	2	3	2	2	2	2	2	2	2	3	2
.5																

T	emplate 4	
	chool: AHS	Batch : 2020-24
	rogram: PT	Current Academic Year: 2021-22
	ranch:S HS	Semester:3 rd
1	Course Code	BPT209
2	Course Title	Biomechanics & Kinesiology
3	Credits	5
4	Contac t Hours (L-T- P)	4-1-0
	Course Type	Compulsory
5	Course Objecti ve	 Describe the joint structure, classification and function of joints And biomechanics of Connective tissue Describe the muscle structure and function of muscles, types of muscles, contractions and factors effecting muscle recruitment and function Describe the biomechanics of the thoracic and chest wall and patho biomechanics associated with chest deformities Describe the analysis of posture and gait during static and dynamic movement, relation with LOG, Pathomechanics of abnormal gait and posture.



CO1:On successful completion of this programme, students should be able to describe the understanding of basics of mechanics, muscle structure and contraction, factors effecting muscle contraction and recruitment CO2:Describe mechanics of chest wall during various movements and the patho-mechanics associated with various chest conditions and deformities CO3:Define normal mechanics and patho mechanics of TMI associated with various conditions CO4:Analyse normal mechanics of posture and gait in various planes and axis CO5:Analyse the patho mechanics associated with abnormal posture and gait. CO6: Describe biomechanics of shoulder, elbow, wrist, hip, knee, ankle joint, Vertebral column. This Course Supplements the Knowledge of anatomy and enables the student to have a better understanding of the principles of biomechanics and their application in musculoskeletal and various other dysfunctions. Buthit Biomechanics of the vertebral column A General structure and function CO0 CO0 Muscles of the vertebral column& General effects of injury and aging Unit 2 Biomechanics of the Upper Limb A The shoulder complex: Structure and their integrated function & CO0 The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb The Heipcomplex: structure and function of the elbow joint of the wrist and hand The hipcomplex: structure and function of the elbow joint of the wrist and hand CO0, CO0			Beyond Boundaries	
column. This Course Description This Course Supplements the Knowledge of anatomy and enables the student to have a better understanding of the principles of biomechanics and their application in musculoskeletal and various other dysfunctions. Boutline syllabus Comparing Marping National Structure and function Content of the vertebral column Content of the vertebral region, thoracic region, lumbar region, sacral region Content of the vertebral column Content of the vertebral ending of the vertebral	6	Outco	understanding of basics of mechanics, muscle structure and contraction, factors effecting contraction and recruitment CO2:Describe mechanics of chest wall during various movements and the patho-mechanics associated with various chest conditions and deformities CO3:Define normal mechanics and patho mechanics of TMJ associated with various control CO4:Analyse normal mechanics of posture and gait in various planes and axis CO5:Analyse the patho mechanics associated with abnormal posture and gait.	g muscle inics inditions
Unit 1 Biomechanics of the vertebral column A General structure and function CO COC B Regional structure and function—Cervical region, thoracic region, lumbar region, sacral region C Muscles of the vertebral column& General effects of injury and aging Unit 2 Biomechanics of the Upper Limb Col, COC A The shoulder complex: Structure and their integrated function & the effects of immobilization and injury. B The elbow complex: Structure and function of the elbow joint C The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb CO, COC COC COC COC COC COC COC	7	Descri	This Course Supplements the Knowledge of anatomy and enables the student to have a understanding of the principles of biomechanics and their application in musculoskeleta	better
A General structure and function CO CO B Regional structure and function—Cervical region, thoracic region, lumbar region, sacral region C Muscles of the vertebral column& General effects of injury and aging Unit 2 Biomechanics of the Upper Limb Col CO A The shoulder complex: Structure and their integrated function & the effects of immobilization and injury. B The elbow complex: Structure and function of the elbow joint C The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb CO CO CO CO CO CO CO CO CO CO	8			Mappi
A General structure and function B Regional structure and function—Cervical region, thoracic region, lumbar region, sacral region C Muscles of the vertebral column& General effects of injury and aging Unit 2 Biomechanics of the Upper Limb Col A The shoulder complex: Structure and their integrated function & the effects of immobilization and injury. B The elbow complex: Structure and function of the elbow joint C The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb CO CO CO CO CO CO CO CO CO C		Unit 1	Biomechanics of the vertebral column	
C Muscles of the vertebral column& General effects of injury and aging Unit 2 Biomechanics of the Upper Limb C The shoulder complex: Structure and their integrated function & the effects of immobilization and injury. B The elbow complex: Structure and function of the elbow joint C The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb CO,		A	General structure and function	
Unit 2 Biomechanics of the Upper Limb Col. CO6 A The shoulder complex: Structure and their integrated function &the effects of immobilization and injury. B The elbow complex: Structure and function of the elbow joint C The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb Col., CO6		В		
A The shoulder complex: Structure and their integrated function &the effects of immobilization and injury. B The elbow complex: Structure and function of the elbow joint C The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb CO.,		С	Muscles of the vertebral column& General effects of injury and aging	
effects of immobilization and injury. B The elbow complex: Structure and function of the elbow joint C The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb CO., CO.		Unit 2	Biomechanics of the Upper Limb	
C The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb CO.,		A		
complex; structure of the hand complex; functional position of the wrist and hand Unit 3 Biomechanics of the Lower Limb CO, CO			The elbow complex: Structure and function of the elbow joint	
Unit 3 Biomechanics of the Lower Limb CO.,		С	The wrist and hand complex: Structural components and functions of the wrist	
A Thehipcomplex:structureandfunctionofthehipioint:hipiointpathology-arthrosis, fracture		Unit 3		
		A	Thehincomplex:structureandfunction of thehinioint:hinioint pathology-arthrosis fracture	



	bony abnormalities of the fe	emur	Seyond Boundaries								
	,										
В	The knee complex: structure Patellofemoral joint; effects		ee joint-tibiofemoral joint and								
С	onavicularjoint,transverseta metatarsophalangealjoints,ir	rsaljoint,tarsometatarsal nterphalangealjoints,stru	eanklejoint,subtalarjoint,talocalcane joints, acture and functionof the plantar m normal structure and function—								
Unit 4	Analysis of posture			CO							
A	Static and dynamic posture, postural control, kinetics and kinematics of posture										
В	Ideal posture analysis of posture										
C	Effects of posture on age, pregnancy, occupation and recreation										
Unit 5	Analysis Of Gait			CO ₂							
A	General features of gait, gait initiation, kinematics and kineticsof gait, energyrequirements, ,.										
В	Kinematics and kinetics of the trunk and upper extremities in relation to gait, staircase climbing and running, effects of age, gender, assistive devices, disease, muscle weakness, paralysis, asymmetries of the lower extremities										
С	Injuries and malalignments in gait; Movement Analysis: ADL activities like sitting—to standing, lifting, various grips, pinches										
Mode of examin ation	Theory/Jury/Practical/Viva										
Weight	CA N	ИТЕ	ETE								
age Distrib ution	30% 2	0%	50%								
Text book/s *	 Biomechanical principles Joint Structure & Direction Biomechanics- Nordin 										
Other Refere nces	 Therapeutic exercise by E Muscle testing and functions Clinical evaluation - Lacon Churchill Livingstone. Muscle stretching & Autonomorphisms Orthopedic Evaluation - M Physiology of joints: Kap Note: Latest edition of the stretching of the stretching	ons - Kendall - William ote (for Isolated assessment) of stretching - Olaf Evjer Magee (only for assessment); vol 1,2 & 3	nent of abdominal muscles), nth, Alpta Rehab Forlag. ent of posture), Saunders Elsevier.								



POs	P	P	P	P	P	P	P	P	P	PO	PO	PO	PS	PS	PS	P
COs	О	О	О	О	О	O	O	O	O	10	11	12	O1	O2	O3	S
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																4
CO20	2	3	3	3	3	3	3	3	3	2	2	3	3	3	3	2
1.1																
CO20	3	3	2	3	3	3	3	3	3	3	3	2	3	3	3	2
1.2																
CO20	3	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3
1.3																
CO20	3	3	3	3	3	3	3	3	2	3	2	2	3	2	3	2
1.4																
CO20	3	2	3	3	3	3	3	3	2	3	2	2	3	3	2	3
1.5																
CO20	3	3	2	3	3	3	3	3	3	2	2	2	3	2	3	2
1.6																

	chool: AHS	Batch : 2020-24	
P	rogram: PT	Current Academic Year: 2021-22	
B	ranch:	Semester:3rd	
1	Course Code	BPT210	
2	Course Title	Foundation of Exercise Therapy & soft Tissue Manipulation	
3	Credits	5	
4	Contact Hours (L-T-P)	4-1-0	
	Course Type	Compulsory	
5	Course Objective	 Describe basic concepts of exercise therapy-positions, types of movements, classification Demonstrate principles, application of techniques like goniometry, MMT Describe types of pelvic tilt, normal and abnormal, muscle work involved. Acquire knowledge of resisted exercises, types and techniques 	
6	Course Outcomes	CO1:At the completion of course the student shall be able to describe the basics of mechanics involved in exercise therapy.	

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_		Beyond Boundaries		
		CO2: Describe and demonstrate fundamental and derived positions,		
		CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation CO4: Demonstrate and apply relaxation techniques CO5: Describe the various assessment techniques needed during patient assessment and examination like Goniometry and Manual muscle testing CO6: Describe the skills involved and benefits of various equipments used in therapeutic gymnasium.		
	7 Course Descriptio n	At the end of the course, the candidate will have a better understanding of the principles exercise therapy both basic and advanced as well as assessment techniques. The student will be enhanced through hands on training provided during the practical hours.		cill
	3 Outline syl	labus	CO Ma ng) appi
	Unit 1	Introduction to Exercise Therapy		
	A	IntroductiontoExerciseTherapy-TheaimsofExerciseTherapy,ThetechniquesofExercise Therapy, Approach to patient's problems, Assessment of patient's condition —	CC	
	В	Measurements of Vital parameters		
	С	Starting Positions–Fundamental positions & amp; derived Positions, Planning of Treatment		
	Unit 2	MethodsofTesting		
	A	Measurement of Joint range by Goniometer		
	В	Tests for neuromuscular efficiency-Electric Test, MMT, Anthropometric Measurement, Static power Test, Dynamic powerTest, Endurance testSpeed test, Coordination & sensation test, Pulmonary Function tests	CC	
	С	MeasurementofLimbLength:truelimblength,apparentlimblength,segmentallimblength, Measurement of the angle of Pelvic Inclination		
	Unit 3	Relaxation Therapy		
	A	Definitions:MuscleTone,Posturaltone,VoluntaryMovement,Degreesofrelaxation, Pathological tension in muscle	C	01,C
	В	Stress mechanics, types of stresses, Effects of stress on the body mechanism, Indications of relaxation, Methods & techniques of relaxation.		
_	I	· · · · · · · · · · · · · · · · · · ·		



С	Principles& uses: General, Loc	al, Jacobson's, Mitchel's, additional methods		
Unit 4	Passive & Active Movements		C	D1,0 2
A	Classification ,Principles, indic Passive movements	ations, contraindications, effects ,uses & techniques of		
В	Classification ,Principles, indic Active movements	ations, contraindications, effects ,uses & techniques of		
С	Resisted Exercise its type, Isokinetic exercise, Open-Chair	uses ,Progressive resisted exercise & n& Closed-Chain exercise.		
Unit 5	Soft Tissue Manipulation		C	D1, 2
A	History and Classification of So	oft Tissue Manipulation		
В	Principles, Indications and Con			
С	Technique, Physiological and T	Therapeutic Uses of Specific Manipulations		
Mode of examinati on	Theory/Jury/Practical/Viva			
Weightag	CA MTE	ETE		
e Distributi on	30% 20%	50%		
Text book/s*	2) Therapeutic exercises basma3) Therapeutic exercises founda4) Principle of exercise therapy5) Orthopedic physical therapy	ations and techniques kisner& Colby La Davis. Gardiner cbs Delhi.		
Other Reference s				

POs	P	P	P	P	P	P	P	P	P	PO	РО	РО	PS	PS	PS	P
COs	O1	O2	O3	O4	O5	O6	O7	O8	O9	10	11	12	O1	O2	O3	S
																О
																4
CO20	2	3	3	3	3	3	3	3	3	2	2	3	3	3	3	2
1.1																
CO20	3	3	2	3	3	3	3	3	3	3	3	2	3	3	3	2
1.2																
CO20	3	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3
1.3																

													6	Bey o	nd Bour	
CO20	3	3	3	3	3	3	3	3	2	3	2	2	3	2	3	2
1.4																
CO20	3	2	3	3	3	3	3	3	2	3	2	2	3	3	2	3
1.5																
CO20	3	3	2	3	3	3	3	3	3	2	2	2	3	2	3	2
1.6																

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Temp	lata	1	$\mathbf{D}\mathbf{D}$	A 4	CT	T A T	
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Scho	ool: SAHS	Batch: 2020-24					
Prog	gram: BPT	Current Academic Year: 2021-22					
Bra	nch:	Semester:3rd					
1	Course Code	BPT 259					
2	Course Title	Biomechanics & Kinesiology(l]LAB)					
3	Credits	2					
4	Contact	0-0-4					
	Hours						
	(L-T-P)						
	Course Type	Compulsory					
5	Course Objective	 Describe the joint structure, classification and function of joints And biomechanics of Connective tissue Describe the muscle structure and function of muscles, types of muscles, contractions and factors effecting muscle recruitment and function Describe the biomechanics of the thoracic and chest wall and patho biomechanics associated with chest deformities Describe the analysis of posture and gait during static and dynamic movement, relation with LOG, Pathomechanics of abnormal gait and posture. 					
6	Course Outcomes	CO1:On successful completion of this programme, students should be able to describe the understanding of basics of mechanics, muscle structure and contraction, factors effecting muscle contraction and recruitment CO2:Describe mechanics of chest wall during various movements and the patho-mechanics associated with various chest conditions and deformities CO3:Define normal mechanics and patho mechanics of TMJ associated with various conditions, CO4:Analyse normal mechanics of posture and gait in various planes and axis CO5:Analyse the patho mechanics associated with abnormal posture and gait. CO6: Describe biomechanics of shoulder,elbow,wrist,hip,knee,ankle joint ,nertebral column.					



7	Course Description	student to hav	e a better ur	the Knowledge of anatoderstanding of the princusculoskeletal and vario	iples of biomechanics			
8	Outline syllabi	ıs			CO Mapping			
	Unit 1		s of the vert	ebral column	11 5			
	A	Brief			CO1, CO6			
	В	Movement	Movement					
	С	Muscles palpa	ation of the S	Spine				
	Unit 2	Biomechanic			Co1,CO6			
	A	Brief						
	В	Movement						
	С	Muscles palp	ation &joint	s of of Upper Limb				
	Unit 3	Biomechanic	CO1,CO6					
	A	Brief	Brief					
	В	Movements	Movements					
	С	Muscles palpa						
	Unit 4	Analysis of p	CO4,CO5					
	A	kinematics of						
	В	Normal postu						
	C	Abnormal pos						
	Unit 5	Analysis Of O	CO4,CO5					
	A		Kinematics and kineticsof gait,					
	В	Normal Gait						
	C	Identify abnor						
	Mode of	Practical/Viva	ì					
	examination	CA	MTC	ETE				
	Weightage Distribution	CA 600/	MTE	ETE 40%				
	Text book/s*	60% 1. Biomechan	0%	40%				
	Text book/s	2. Joint Struct 3. Biomechan						
	Other References	 Therapeutic Muscle test Wilkins. Clinical eva abdominal mu Livingstone. 						



	eyona boanaarres
4. Muscle stretching & Auto stretching - Olaf Evjenth,	
Alpta Rehab Forlag.	
5. Orthopedic Evaluation- Magee (only for assessment of	
posture), Saunders Elsevier.	
6. Physiology of joints: Kapanji; vol 1,2 & 3	
Note: Latest edition of the suggested books are	
recommended.	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	2	3	3	3	3	3	3	3	3	2	2
CO201.2	3	3	2	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	2	3	2
CO201.5	3	2	3	3	3	3	3	3	2	3	2
CO201.6	2	3	3	3	3	3	3	3	3	2	2

TEMPLATE:PRACTICAL

	chool: AHS	Batch: 2020-24
Program: Current Academic Y BPT		Current Academic Year: 2021-22
Bi H	ranch:SA S	Semester:3rd
1	Course Code	BPT260
2	Course Title	Foundation of Exercise Therapy & soft Tissue Manipulation(LAB)



3	Credits	2	d Boundaries					
4	Contact	0-0-4						
4		0-0-4						
	Hours							
	(L-T-P)							
	Course	Compulsory						
	Type							
5	Course	1.Describe basic concepts of exercise therapy-positions, types of movements,						
	Objective	classification						
		2. Demonstrate principles, application of techniques like goniometry, MMT						
		3. Describe types of pelvic tilt, normal and abnormal, muscle work involved.						
		4. Acquire knowledge of resisted exercises, types and techniques						
6	Course	CO1:At the completion of course the student shall be able to describe the	ne basics					
	Outcomes	of mechanicsinvolved in exercise therapy.						
		or morning and or						
		CO2: Describe and demonstrate fundamental and derived positions, vita	1					
		parameters	1					
		parameters						
		CO3: Describe and demonstrate active passive resisted movements an	d soft					
		CO3: Describe and demonstrate active, passive, resisted movements and soft						
		tissue manipulation						
		CO4: Demonstrate and apply relaxation techniques						
		CO5: Describe the various assessment techniques needed						
		during patient assessment and examination like Goniometry and Manual muscle						
		testing. CO6: Describe the skills involved and						
		benefits of various equipments used in therapeutic gymnasium.						
_	~		0.1					
7	Course	At the end of the course, the candidate will have a better understanding	of the					
	Descripti	principles of						
	on	exercise therapy both basic and advanced as well as assessment techniques. The						
		student's skill						
		will be enhanced through hands on training provided during the practical hours.						
8	Outline syl	labus	CO					
			Mappin					
			g					
	Unit 1	Introduction to Exercise Therapy						
	A	Brief	CO1,					
			CO2					
	В	Measurements of						
	_	Vital parameters						
		· · · · · · · · · · · · · · · · · · ·						
	С	Demonstrate Starting Positions–Fundamental positions & amp;						
	<u></u>	Demonstrate starting rositions—rundamental positions & amp;						

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 T				d Boundaries		
	·	Planning of Treatm	ent			
Unit 2	MethodsofTestin	g				
A	Measurement of Joint range by Goniometer					
В	Demonstrate MM	Measurement, Static power Test, peed test, Co-ordination	CO1, CO5			
С		imblength,apparentl	imblength,segmentallimblength,			
Unit 3	Relaxation Thera	apv				
A	Brief	10		CO1,CO 4		
В	Methods of relaxa	tion				
С	Demonstration of	relaxatation techniq	ues			
Unit 4	Passive & Active Movements					
A	Brief					
В	Demonstrate Tech	niques of active mo	ovement			
С	Demonstrate Techniques of passive movements					
Unit 5	Soft Tissue Manipulation					
A	Brief					
В	Demonstrate the to	echniques				
C		of Specific Manipul	lations			
Mode of	Practical/Viva	or specific Mainpa	actions			
examinati	Tractical/ viva					
on	C.A.	MEDE	EAR			
Weightag	CA	MTE	ETE			
e Distributi	60%	0%	40%			
on	1) D 1	,1 TT 11' 3				
Text	· ·		Blackwell scientific publication.			
book/s*	2) Therapeutic exercises basmajian William & Dilkins.					
	_	ercises foundations	and techniques kisner&			
	Colby La Davis.					
	, <u>*</u>	ercise therapy Gardi				
	5) Orthopedic physical therapy woods Churchill Livingstone.6) Manual examination and treatment of spine and extremities wads					
	worth.					
O41	ı			I		
Other Reference						



		Beyond	Boundaries	
	S			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	2	3	3	3	3	3	3	3	3	2	2
CO201.2	3	3	2	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	2	3	2
CO201.5	3	2	3	3	3	3	3	3	2	3	2
CO201.6	3	3	2	3	3	3	3	3	3	2	2

SEMESTER 4

	chool: AHS	Batch : 2020-24					
	rogram: PT	Current Academic Year: 2021-22					
B ₁	ranch:SA S	Semester:4th					
1	Course Code	BPT 219					
2	Course Title	EXERCISE THERAPY					
3	Credits	7					
4	Contact Hours (L-T-P)	6-1-0					
	Course Type	Compulsory /Elective/Open Elective					
5	Course Objective	In this course, the students will learn the principles and effects of exercise as a therapeutic modality and will learn the techniques in the restoration of physical functions.					
6	Course Outcome s	CO1:At the end of the year the student will be able: To use & describe advanced therapeutic exercises used for devising rehabilitation protocol for various conditions. CO2:To know the benefits of hydrotherapy,balance and coordination exercise. CO3. To be able to perform various types of stretching of upper limb & lower limb, massage techniques,yoga balance and coordination exercises. CO4. To acquire the skills of application of various techniques to improve pulmonary function as well as to regain maximum strength of muscles, its therapeutic uses and merits-demerits of the same.					

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		CO5. To describe various assistive aids and gait training, posture.	b o a ii a a i i e s
7	Course Descripti on	After the course on exercise therapy student will be able to understand the different types of exercise for the benefit of patient in different situation and conditions both in health and disease or disorder.	
8	Outline syl	labus	CO Mappin g
	Unit 1		
	A	Specific exercise regimens	CO1, CO2
	В	Proprioceptive NeuromuscularFacilitation	
	С	Functional Re-education	
	Unit 2		
	A	Aerobic Exercise	
	В	Stretching	CO1, CO3
	С	Manual Therapy & Peripheral Joint Mobilization	
	Unit 3		
	A	Balance	CO2,C O5
	В	Co-ordinationExercise	
	С	Posture	
	Unit 4		
	A	WalkingAids	CO4,C O5
	В	Basics in Manual Therapy & Applications with Clinical reasoning	
	С	.Maitland,mulligan,Mckenzie,MuscleEnergyTechnique,Myofascialstretching,CyriaxNeuro Dynamic Testing	
	Unit 5		
	A	Hydrotherapy	CO2,C



		Beyond Boundaries
		O3
В	Individual and GroupExercises	
	Internal and a Name	
C	Introduction to Yoga	
Mode	of Theory/Jury/Practical/Viva	
examir		
on		
Weigh		ETE
e Di i ii	30%	50%
Distrib	uti	
on Text	1. Kisner and Colby. F.A. Davis, Therapeutic	c Evercises Foundations and
book/s	· · · · · · · · · · · · · · · · · · ·	c Exercises Foundations and
000123	2. Williams and Wilkins, Therapeutic Exercise	se, Basmajian.
	3. Hollis, Lab Exercise Therapy, Blackwell S	
	4. Gardiner, Principle of Exercise Therapy, C	
	5. Norkins & White F.A. Davis, Measuremen	nt of Joint Motion: A Guide
	to Goniometry	
0.1	6. Wood - W.B. Saunders, Beard's Massage.	
Other Refere	Reference Books: 1. Butterworth Heinmann, Hydrotherapy, Pri	inciples and Practices
es	Campion .	merpies and Fractices,
CS	2. Kendal, Muscle testing and functions, Wi	illiams & Wilkins.
	3. Daniels and Worthingham's - Muscle testing	
	W.B. Saunder.	
	4. Edmond Mosby Manipulation and Mobiliz	zations extremities and spinal
	techniques,.	
	5. Bates and Hanson , Aquatic Exercise Ther	* • ·
	6. Wadsworth Lippincott Manual examinatio extremities.	on and treatment of spine and
	7. Margarett Hollis, Massage for therapist: M	Margarett Hollis
	7. Islandarott Homo, massage for therapist. In	14154101110

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	2	3	3	2	3	3	3	2
CO201.2	2	3	3	3	3	2	3	2	3	3	3
CO201.3	3	3	3	3	3	3	3	3	2	3	2
CO201.4	2	3	3	3	2	3	2	3	3	3	3

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3	3	3

CO201.5 3 3 2 3 3 3 3 3 3 3 3 3

School: SAHS		Batch: 2020-24			
<u> </u>	rogram:	Current Academic Year: 2021-22			
	PŤ				
	ranch:SA	Semester:4th			
H	_	DDT 220			
1	Course Code	BPT 220			
2	Course Title	ELECTROTHERAPY			
3	Credits	7			
4	Contact Hours (L-T-P)	6-1-0			
	Course Type	Compulsory /Elective/Open Elective			
5	Course Objective	The objective of this course is that the student will be able to list the indications and contra indications of various types of electrotherapeutic modalities, demonstrate the different techniques, and describe their effects			
6	Course Outcome s	CO1: Able to demonstrate the techniques of application of various electrotherapy modalities. CO2: Able to select the appropriate modalities in different conditions CO3: Able to select the appropriate dosages of different Electrotherapy modalities to achieve the different goals CO4:Demonstrate the indication and contraindications of various modalities CO5:Demonstrate the treatment time, intensity according to the Acute, subacute & chronic conditions.			
7	Course Descripti on	In this course the student will learn the principles, technique, and effects of electrotherapy as a therapeutic modality in the restoration of physical function.			



		8	eyond Boundaries
8	Outline sy	llabus	CO Mapping
	Unit 1	LOW FREQUENCY CURRENTS	
	A	Faradic Current, Galvanic Current: Techniques of Application of Individual, Muscle and Group Muscle stimulation, Physiological & Therapeutic effects of Faradic Current, Precautions, Indications & Contra-Indications, Dangers.	CO1, CO2
	В	TENS: Types, Placement of Electrodes, Dosage parameters, Physiological & Therapeutic effects, Indications& Contraindications	
	С	Pain: Define Pain, Theories of Pain ,Pain Gate Control theory in detail	
	Unit 2	ELECTRO-DIAGNOSIS	
	A	FGTest,SD Curve: Methods of Plotting SD Curve, Apparatus selection, Characters of Normally innervated Muscle, Characters of Partially Denervated Muscle, Characters of Completely denervated Muscle,Chronaxie & Rheobase.	
	В	Nerve conduction velocity studies, EMG: Construction of EMG equipment.	CO1, CO3
ŀ	С	Bio-feedback	
	Unit 3	MEDIUM FREQUENCY CURRENTS	CO1,CO2
	A	InterferentialTherapy:DefineIFT,Principleof ProductionofIFT,Physiological & Therapeutic effects,Indications&Contraindications.	
	В	RussianCurrent	
•	С	ReboxtypeCurrent	
	Unit 4	THERMO&ACTINOTHERAPY(HIGH FREQUENCY CURRENTS)	CO1,CO3
	A	SWD, Pulsed ElectroMagnetic Energy, MicroWaveDiathermy:- PrincipleofProduction,Method,Types,Physiological&Therapeutice ffects,Indications & Contraindications,Dangers,Dosage parameters.	
	В	Ultrasound, IRR, UVR:PrincipleofProduction,Method,Types,Physiological&Therap euticeffect Indications & Contraindications,Dangers,Dosage parameters	



				▼ → B	eyond Boundaries				
	С	LASER:							
		PrincipleofProdu							
		ffect Indications							
,	Unit 5	SUPERFICIAL	SUPERFICIAL HEATING MODALITIES						
					CO3				
	A	WaxTherapy,	Contrast Batl	n, MoistHeatTherapy					
		MethodofApplica	tion,Therapeutic	Uses,Indications&Contr					
		aindications.							
	В	Fluidotherapy, W							
		MethodofApplica	tion,Therapeutic	Uses,Indications&Contraindicati					
		ons							
	C	Cryotherapy:Prin	ciple,Physiologic	cal Therapeuticseffects,					
		Techniques	ofApplication						
			s, Dangers, M	ethods of application					
		withdosages.							
	Mode of	Theory/Jury/Prac	tical/Viva						
	examinat								
	ion								
	Weightag	CA	MTE	ETE					
	e	30%	20%	50%					
	Distributi								
	on								
	Text			S Publishers & Distributors					
	book/s*	,	1 *	xplained, Butterworth-					
		Heinemann Limi							
	Other	1. Therapeutic he							
	Referenc			otherapy by Joseph Kahn.					
	es	3. Electrotherapy	: Clinics in physi	cal therapy- Wolf.					

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	2	3	2		3	3	2	3	3	3	3
CO201.2	3	3	2	3	3	3	3	3	3	3	3
CO201.3	3	3	2	3	3	3	3	3	3	3	3
CO201.4	3	2		3	3	3	3	3	3	3	3
CO201.5	3	2	3	3	3	2	3	3	3	3	3



- 1-Slight (Low)
- 2-Moderate (Medium)
- 3-Substantial (High)

Sch	ool: SAHS	Batch: 2020-24						
-	gram: BPT	Current Academic Year: 2021-22						
	nch:SAHS	Semester:4th						
1 Course Code BPT 218								
2	Course Title	MEDICAL PHYSIOTHERAPY LAWÐICS						
3	Credits	4						
4	Contact	3-1-0						
	Hours							
	(L-T-P)							
	Course Type	Compulsory /Elective/Open Elective						
5	Course	1.To know about evolution of Physiotherapy, identify vari	ous laws and					
	Objective	regulation that should be followed during clinical practice	of Physical					
		Therapy.						
6	Course	CO1: On completion of the course the students should be	able to know the					
	Outcomes	medical law and ethics	*. 1					
		CO2: Able to know the legal and illegal issues faced in hos	•					
		CO4: They will be able to treet patient more levelilly in all						
		CO4: They will be able to treat patient more lawfully in cli setting and maintain their records.	ilicai aliu ilospitai					
		CO5:Understand the importance of Ethics in the relative fi	ield & basic					
		concepts of Ethics.	icia & basic					
		concepts of Etimes.						
7	Course	The students will enable to know about evolution of Physi	otherapy.					
	Description	identify various laws and regulation that should be followed						
	1	practice of Physical Therapy.	C					
			T					
8	Outline syllabu		CO Mapping					
	Unit 1	Medical ethics versus medical law	~					
	A	Introduction to Code ofconduct	CO1, CO2					
	В	Basicprinciples ofmedical ethics-Confidentiality						
	С	Malpractice and negligence-Rationaland						
		irrationaldrugtherapy						

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			Beyond Boundaries
Autonomy an	nd informed co	onsent-Rightof patients	
Care of the ter			
Organ transpla	antation		CO1, CO3
Medical diagn	osis versus ph	ysiotherapy diagnosis	
			CO1,CO4
Confidentiality	yPrivilegecom	munication	
Releaseof med	dicalinformation	on- Unauthorizeddisclosure-	
		d protocol to avoid near	
Obtaining an i	nformedconse	nt	
	CO1,CO3,CO		
Code of ethics	forphysiother	apists	
Laws affecting			
CA	MTE	ETE	
30%	20%	50%	
	Care of the termorgan transplated Medical diagram Medicolegal And Medicolegal	Organ transplantation Medical diagnosis versus ph Medicolegal Aspects of Me Medicolegal Caseandtype-Re MLC- ownershipof medicalr ConfidentialityPrivilegecom Releaseof medicalinformation retentionof medicalrecords- Professional Indemnity ins Development of standardized missor sentinel events Obtaining an informedconse Biomedical ethical principles Code of ethics forphysiother Ethics documents for physio Laws affecting physiotherap Theory/Jury/Practical/Viva	Autonomy and informed consent-Rightof patients Care of the terminally ill-Euthanasia Organ transplantation Medical diagnosis versus physiotherapy diagnosis Medicolegal Aspects of Medical Records Medicolegalcaseandtype-Recordsanddocument relatedto MLC- ownershipof medicalrecords- ConfidentialityPrivilegecommunication Releaseof medicalinformation- Unauthorizeddisclosure- retentionof medicalrecords- other variousaspects. Professional Indemnity insurance policy Development of standardized protocol to avoid near missor sentinel events Obtaining an informedconsent Biomedical ethical principles Code of ethics forphysiotherapists Ethics documents for physiotherapists Laws affecting physiotherapy practice Theory/Jury/Practical/Viva CA MTE ETE

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	2	2	3	3	2	2	2	2	2	2	2
CO2	2	3	2	2	2	2	2	2	2	2	2
CO3	2	2	2	3	2	3	2	2	2	2	2
CO4	3	2	2	3	2	2	2	2	2	2	2
CO5	3	2	2	2	2	2	2	2	2	2	2



SEMESTER 4 Template 4 PRACTICAL

	chool:	Batch: 2020-24							
	AHS								
	ogram:	Current Academic Year: 2021-22							
	PT								
	ranch:SA	Semester:4th							
H		DDT 264							
1	Course Code	BPT 264							
2	Course Title	EXERCISE THERAPY							
3	Credits	3							
4	Contact Hours (L-T-P)	0-0-6							
	Course Type	Compulsory /Elective/Open Elective							
5	Course Objective	In this course, the students will learn the principles and effects of exercise as a therapeutic modality and will learn the techniques in the restoration of physical functions.							
6	Course Outcome s	CO1:At the end of the year the student will be able: To use & describe advanced therapeutic exercises used for devising rehabilitation protocol for various conditions. CO2:To know the benefits of hydrotherapy,balance and coordination exercise. CO3. To be able to perform various types of stretching of upper limb & lower limb, massage techniques,yoga balance and coordination exercises. CO4. To acquire the skills of application of various techniques to improve pulmonary function as well as to regain maximum strength of muscles, its therapeutic uses and merits-demerits of the same. CO5. To describe various assistive aids and gait training,posture.							
7	Course Descripti on	After the course on exercise therapy student will be able to understand the different types of exercise for the benefit of patient in different situations and conditions both in health and disease or disorder.							

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0	Outling ===1	lohus			Beyond Boundarie					
8	Outline syl	naous			CO					
					Mappir					
	Unit 1				g					
-	A				CO1					
	A	Demonstrate S	Specific exercise re	gimens	CO1, CO2					
•	В	Demonstrate Proprioceptive NeuromuscularFacilitation techniques								
•	С	Demonstrate	techniques of Fund	ctional Re-education						
	Unit 2									
	A	Demonstrate A	Aerobic Exercise							
	В	Demonstrate	techniques of Stret	ching	CO1, CO3					
•	С	Demonstrate	Manual Therapy &	Peripheral Joint Mobilization						
	Unit 3									
	A	Demonstrate	methods of Balanc	2	CO2,C O5					
•	В	Demonstrate	exercise for trainin	g Co-ordination						
=	С	Assess Postur	e							
	Unit 4									
•	A	Demonstrate of	lifferent WalkingA	ids	CO4,C O5					
	В	Demonstrate l	Manual therapy							
•	С	Demonstrate Maitland,mulligan,Mckenzie,MuscleEnergyTechnique,Myofascialstretching,CyriaxNeuro Dynamic Testing								
	Unit 5									
	A	Demonstrate l	Hydrotherapy	lrotherapy						
•	В	Demonstrate	Individual and Gro	upExercises	O3					
-	С	Demonstrate different Yoga								
	Mode of examinat ion	Practical/Viva	1							
	Weightag	CA	MTE	ETE						
	e Distributi on	60%	0%	40%						



	Beyond Bo	undaries
Text	1. Kisner and Colby. F.A. Davis, Therapeutic Exercises Foundations	
book/s*	and Techniques	
	2. Williams and Wilkins, Therapeutic Exercise, Basmajian.	
	3. Hollis, Lab Exercise Therapy, Blackwell Scientific Publications.	
	4. Gardiner, Principle of Exercise Therapy, C.B.S. Delhi.	
	5. Norkins & White F.A. Davis, Measurement of Joint Motion: A	
	Guide to Goniometry	
	6. Wood - W.B. Saunders, Beard's Massage.	
Other	Reference Books:	
Referenc	1. Butterworth Heinmann, Hydrotherapy, Principles and Practices,	
es	Campion .	
	2. Kendal, Muscle testing and functions, Williams & Wilkins.	
	3. Daniels and Worthingham's - Muscle testing - Hislop & Montgomery	
	- W.B. Saunder.	
	4. Edmond Mosby Manipulation and Mobilizations extremities and	
	spinal techniques,.	
	5. Bates and Hanson, Aquatic Exercise Therapy, W.B. Saunders.	
	6. Wadsworth Lippincott Manual examination and treatment of spine	
	and extremities.	
	7. Margarett Hollis, Massage for therapist: Margarett Hollis	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	2	3	3	2	3	3	3	2
CO201.2	2	3	3	3	3	2	3	2	3	3	3
CO201.3	3	3	3	3	3	3	3	3	2	3	2
CO201.4	2	3	3	3	2	3	2	3	3	3	3
CO201.5	3	3	2	3	3	3	3	3	3	3	3

Template 5 PRACTICAL

School: SAHS		Batch: 2020-24
Program: BPT		Current Academic Year: 2021-22
Branch:SAHS		Semester:4 th
1	Course Code	BPT 265
2	Course Title	ELECTROTHERAPY
3	Credits	3

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~		Beyond Boundarie							
Contact Hours (L-T-P)	0-0-6								
Course Type	Compulsory /Elective/Open Elective								
Course	.The objective of this course is that the student will be ab	le to list the							
Objective	indications of various types of electrotherapeutic modalities, demonstrate the different								
Course	CO1: Able to demonstrate the techniques of application of	of various							
Outcomes	electrotherapy modalities.								
	CO3: Able to select the appropriate dosages of different modalities to achieve the different goals CO4:Demonstrate the indication and contraindications of	Electrotherapy f various modalities							
	Acute, subacute & chronic conditions.								
Course									
Description	In this course the student will learn the principles, technic electrotherapy as a therapeutic modality in the restoration of physical function								
Outline syllab	lis	CO Mapping							
		o o mapping							
A	Techniques of Application of Individual, Muscle and Group Muscle stimulation.	CO1, CO2							
В	Faradism under pressure for UL and LL,Faradic foot bath								
С	Placement of TENS Electrodes								
Unit 2									
A	Demonstrate FGTest.								
В	Plotting of SD curve with chronaxia and rheobase	CO1, CO3							
_									
Unit 3	MEDIUM FREQUENCY CURRENTS	CO1,CO2							
A	Brief								
В	Demonstration the methods								
	Course Type Course Objective Course Objective Course Outcomes Course Description Outline syllab Unit 1 A B C Unit 2 A B C Unit 3 A	Hours (L-T-P) Course Type Compulsory /Elective/Open Elective							



					Beyond Boundari				
	С	Application o	f electrodes in	n various regions					
	Unit 4		THERMO&ACTINOTHERAPY(HIGH FREQUENCY CURRENTS)						
	A	Demonstrate	Demonstrate treatment technique of SWD, Pulsed						
	D	ElectroMagne		IRR, UVR for different					
	В	Application of regions							
	С		Aplication of LASER for different regions						
,	Unit 5	*		G MODALITIES	CO1,CO2,CO3				
	A	Demonstrate Therapy, Con							
	В	Demonstrate WhirlPoolBat							
	С	Demonstrate	es of Applications						
	Mode of examination	Practical/Viva	ı						
	Weightage	CA	MTE	ETE					
	Distribution	60%	0%	40%					
	Text book/s*	1. Clayton"s l	Electro Therap	y, CBS Publishers					
		&Distributors							
		2. Low & Rea							
		Heinemann L							
	Other	_		d by Lehmann.					
	References	-	nd practice of	Electrotherapy by Joseph					
		Kahn.	~·· ·						
		3. Electrother	apy: Clinics in	n physical therapy- Wolf.					

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO201.1	2	3	2	3	3	3	2	3	3	3	3
CO201.2	3	3	2	3	3	3	3	3	3	3	3
CO201.3	3	3	2	3	3	3	3	3	3	3	3
CO201.4	3	2	3	3	3	3	3	3	3	3	3

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CO201.5	3	2	3	3	3	2	3	3	3	3	3

- 1-Slight (Low) 2-Moderate (Medium)
- 3-Substantial (High)

FIFTH SEMESTER

Syllabus for Theory Subjects

	adus for Theor ool:	Allied health science	Batch: 2020-24					
	gram:	BPT	Current Academic Year: 2022-23					
	nch:	Semester: 5th						
1	Course Code	BPT 310						
2	Course Title	Clinical Orthopedics&Traumatology						
3	Credits	3						
4	Contact	3-0-0						
	Hours							
	(L)							
	Course Type	Compulsory						
5	Course Objective	discussion the student will of orthopedic conditions	rse is that after 60 hrs of lectures and ll be able to demonstrate an understanding causing disability, list the etiology, nods of investigationsandmanagement.					
6	Course Outcomes	disability, list the etiology of and management. CO2:To understand the transwith their management. CO3:To understand the pat conditions congenital and a CO4:To understand the ma	restanding of orthopaedic conditions causing clinical features and methods of investigations umatology of upper and lower limb fractures hophysiology of various musculoskeletal equired anomalies with its treatment protocol. nagement of various orthopaedic surgeries. In injuries and deformities of musculoskeletal					
7	Course Description		pasic science subjects to provide the edic conditions the therapist would e.					



					З веуопа во				
8	Outline syllabi	18			СО				
					Mapping				
	Unit 1				11 &				
	A	Fractures of	Fractures of upper and lower limbs and spine						
	В	DiseaseofBor	DiseaseofBonesandJoints						
	С	Congenitaland	Congenitaland Acquireddeformities						
	Unit 2								
	A	Inflammatorya							
	В	Neuromuscula	Neuromuscular Disorders						
	C	Cervical and	Cervical andLumbar Pathology						
	Unit 3								
	A	Orthopedic S							
	В	RegionalCondi	itions						
	C	Syndromes							
	Mode of	Theory/							
	examination								
	Weightage	CA	MTE	ETE					
	Distribution	30%	20%	50%					
	Text book/s*		actures—John Crawford A						
			rthopedics.— John Crawfor						
			Orthopedics.—Maheswari						
			5. Textbook of Orthopedic	es and					
		Traumatolog	y— M.N.Natarajan						

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	2	2	3	3	3	3	3	3
CO2	2	3	3	3	3	3	3	3	3	2	3
CO3	2	3	3	3	3	3	3	3	3	3	3
CO4	3	3	2	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3

Template 1 (2)

School:	Allied health science	Batch: 2020-24
Program:	BPT	Current Academic Year: 2022-23
Branch:	Semester: 5th	



Course Code BPT 350	g ons								
Contact Hours (P) Course Type Compulsory	g ons								
4 Contact Hours (P) Course Type Compulsory 5 Course Objective The objective of this course is that after 60 hrs of lectures and discussion the student will be able to demonstrate an understand of orthopedic conditions causing disability, list the etiology, clinical features and methods of investigationsandmanagement. Course Outcomes The student will be able to: CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation and management. CO2:To understand the traumatology of upper and lower limb fracture with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocomes	g ons								
Hours (P) Course Type Compulsory The objective of this course is that after 60 hrs of lectures and discussion the student will be able to demonstrate an understand of orthopedic conditions causing disability, list the etiology, clinical features and methods of investigationsandmanagement. Course Outcomes The student will be able to: CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigational management. CO2:To understand the traumatology of upper and lower limb fracture with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocomes	g ons								
Course Type	g ons								
Course Type Compulsory The objective of this course is that after 60 hrs of lectures and discussion the student will be able to demonstrate an understand of orthopedic conditions causing disability, list the etiology, clinical features and methods of investigationsandmanagement. Course Outcomes The student will be able to: CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation and management. CO2:To understand the traumatology of upper and lower limb fractur with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocomes	g ons								
The objective of this course is that after 60 hrs of lectures and discussion the student will be able to demonstrate an understand of orthopedic conditions causing disability, list the etiology, clinical features and methods of investigationsandmanagement. The student will be able to: Course Outcomes The student will be able to: CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation and management. CO2:To understand the traumatology of upper and lower limb fractur with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	g ons								
Objective discussion the student will be able to demonstrate an understand of orthopedic conditions causing disability, list the etiology, clinical features and methods of investigationsandmanagement. The student will be able to: CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation and management. CO2:To understand the traumatology of upper and lower limb fracture with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	g ons								
of orthopedic conditions causing disability, list the etiology, clinical features and methods of investigationsandmanagement. The student will be able to: CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation and management. CO2:To understand the traumatology of upper and lower limb fractur with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	g ons								
clinical features and methods of investigationsandmanagement. The student will be able to: CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation and management. CO2:To understand the traumatology of upper and lower limb fractur with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	ons								
6 Course Outcomes CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation and management. CO2:To understand the traumatology of upper and lower limb fracture with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	ons								
Outcomes CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation and management. CO2:To understand the traumatology of upper and lower limb fractur with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	ons								
Outcomes CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation and management. CO2:To understand the traumatology of upper and lower limb fractur with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	ons								
disability, list the etiology clinical features and methods of investigation and managment. CO2:To understand the traumatology of upper and lower limb fracture with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	ons								
and managment. CO2:To understand the traumatology of upper and lower limb fractur with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.									
with their management. CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	es								
CO3:To understand the pathophysiology of various musculoskeletal conditions congenital and acquired anomalies with its treatment protocol.	U U								
conditions congenital and acquired anomalies with its treatment protocol									
[C. 14° To jinderstand the management of various orthogaedic surgeries									
	CO4:To understand the management of various orthopaedic surgeries.								
	CO5:To understand various injuries and deformities of musculoskeletal								
system with its treatment Protocol.									
7 Course This subject follows the basic science subjects to provide the									
Description knowledge about Orthopedic conditions the therapist would									
encounter in their practice.									
cheodited in their practice.									
8 Outline syllabus CO									
Mapping									
Unit 1									
A Fractures of upper and lower limbs and spine CO1, CO)2								
B DiseaseofBonesandJoints									
C Congenitaland Acquireddeformities									
Unit 2									
A InflammatoryandDegenerativeConditions									
B Neuromuscular Disorders CO1, CO)3								
C Cervical andLumbar Pathology									
Unit 3									
A Orthopedic Surgeries									
B RegionalConditions									



С	Syndromes							
Mode of	Practical							
examination								
Weightage	CA	MTE	ETE					
Distribution	60%	0%	40%					
Text book/s*	Outline of Fr							
	Outline of Or							
	Text book of	Text book of Orthopedics.—Maheswari. 4. Apley's						
	Orthopedics.	5. Textbook of Orthopedia	es and					
	Traumatolog	y— M.N.Natarajan						

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	2	3	3	3	3	3	3	3	3	3	3
CO2	3	3	2	3	3	3	3	3	3	2	3
CO3	3	3	3	2	3	3	3	3	3	2	3
CO4	3	3	3	3	3	2	3	3	2	2	3
CO5	3	2	3	3	2	2	3	3	3	2	3

Template 2 (1)

1 (1)	iipiate 2 (1)						
Sch	ool:	Allied health science	Batch: 2020-24				
Pro	gram:	BPT	Current Academic Year: 2022-23				
Bra	nch:	Semester: 5 th semester					
1	Course Code	BPT 309					
2	Course Title	General Surgery					
3	Credits	3					
4	Contact	3-0-0					
	Hours						
	(L)						
	Course Type	Compulsory					
5	Course	The objective of this course i	s that after 60 hrs of lectures and				
	Objective	discussion the student will be	able to demonstrate an understanding				
		of surgical conditions causing disability, list the etiology, clinical					
		features and methods of inves	stigationsandmanagement.				



						Beyond Bo				
6	Course	The student w	rill be able to);						
	Outcomes		ndications fo	r surgery, etic	ology, clinical fea	tures and				
		•			patients pre and p	oost surgically				
				-	l management exp ting, clinical evalu					
		investigation in	antenatal an	d postnatal ca	are.					
7	C			•	n its treatment Pro					
7	Course				e basic science s edge about relev					
	Description				ent gain better					
					apist encounter					
			practice. It will help them understand common surgical conditions and procedures so that implication of rehabilitation to surgical							
		-	atients become easy.							
			-							
8	Outline syllab	Outline syllabus								
		T	Mapping							
	Unit 1		CO1, CO2							
	A		Fluid, Electrolyte and Acid-Base disturbances							
	В	Reasons for Sur								
	C	Surgical Onco	ology							
	Unit 2	D: 0.1	A . •	17.7 '						
	A	Diseases of the		dVeins		GO1 GO2				
	В	Disorders of t				CO1, CO3				
	C	Thoracic surg	eries							
	Unit 3	D				GO 4 GO 5				
	A	Burn	CI ATT	1.7. 1	3.6.11	CO4, CO5				
	В	Disordersof th								
	С	Describetheno gynae condition		ormalphysiol	ogicalevent in					
	Mode of	Theory								
	examination									
	Weightage	CA	MTE	ETE						
	Distribution	30%	20%	50%						
	Text book/s*	_		•	k / Williamson					
		2. Surgery by		•						
		Practice of Su								
		andDouglas.								
		Heart, Chest 'JP Br	Vascular Dis	sease for phy	siotherapists,					

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POs	PO	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs	1										
CO1	3	3	2	2	3	3	3	3	3	2	3
CO2	2	3	3	3	3	2	3	3	3	3	3
CO3	3	3	2	2	2	2	2	2	2	2	3
CO4	3	3	3	3	3	2	2	3	2	2	3
CO5	3	3	2	3	3	2	3	3	3	3	3

Template 2 (2)

Sch	ool:	Allied health science B	atch : 2020-24							
Pro	gram:	BPT (Current Academic Year: 2022-2	3						
Bra	nch:	Semester: 5 th semester								
1	Course Code	BPT 359								
2	Course Title	General Surgery (Practical)								
3	Credits	1								
4	Contact	0-0-2								
	Hours									
	(P)									
	Course Type	1 0	Compulsory							
5	Course	The objective of this course is the								
	Objective		e to demonstrate an understandin	g						
		of surgical conditions causing dis								
		features and methods of investiga	uionsandmanagement.							
6	Course	The student will be able to:								
	Outcomes	CO1:List the indications for surger surgical methods for various conditions.								
			e for patients pre and post surgically	V						
		CO3:clinical decision making ability and management expertise								
		CO4:diagnose condition from history taking, clinical evaluation and								
		investigation in antenatal and postnatal care.								
		CO5: To understand various injurie								
7	Course		op the basic science subjects which							
	Description		lowledge about relevant aspects of							
			student gain better understandin							
			therapist encounters during the							
		*	stand common surgical condition							
		1 -	tion of rehabilitation to surgice	aı						
		patients become easy.								
8	Outline syllabi	18	СО							
			Mapping							



 				Beyond Bo
Unit 1		-		
A	Fluid, Electro	olyte and Acid	l-Base disturbances	CO1, CO2
В	Reasons for Su	ırgery		
С	Surgical Onc	ology		
Unit 2				
A	Diseases of th	ne Arteries and	Veins	
В	Disorders of	the Heart		CO1, CO3
С				
Unit 3				
A	Burn	CO4, CO5		
В	Disordersof t			
С	Describethen	ormalandabnoı	malphysiologicalevent in	
	gynae conditi	ons		
Mode of	Practical			
examination				
Weightage	CA	MTE	ETE	
Distribution	60%	0%	40%	
Text book/s*	General Surg	gical Operation	ns – by Kirk / Williamson	
	2. Surgery by	Nan 3. Baile	y andLove's – Short	
		~ .	st Disease by Crofton	
	andDouglas.	5. Patrica A I	Downie, Text book of	
	Heart, Chest	Vascular Dise	ease for physiotherapists,	
	JP Br			

POs	P	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs	О										
	1										
CO1	3	3	2	2	3	3	3	3	3	2	3
CO2	2	3	3	3	3	2	3	3	3	3	3
CO3	3	3	2	2	2	2	2	2	2	2	3
CO4	3	3	3	3	3	2	2	3	2	2	3
CO5	3	3	2	3	3	2	3	3	3	3	3

Template 3 (1)

Scl	nool:	Allied health science	Batch: 2020-24
Pro	ogram:	ВРТ	Current Academic Year: 2022-23
Br	anch:	Semester: 5 th semester	
1	Course	BPT 308	



	Codo	T	Beyond Boundaries									
2	Code											
2	Course											
2	Title	General Medicine, Paediatrics & psychiatry										
3	Credits	3										
4	Contact	3-0-0										
	Hours											
	(L)											
	Course	Compulsory										
_	Type	The chieving of this course is that of so (0) have										
5	Course	The objective of this course is that after 60 hours of lectures, demonstrations, in addition to clinics the student will be able to demonstrate a general understanding of										
	Objective											
		the diseases that therapists would encounter in their practice. They should have a brief										
		idea of the etiology and pathology, what the patient's symptoms and the result										
		functional disability. This would help the candidates to understand the limi										
	imposed by the diseases on any therapy that may be prescribed.											
		imposed by the diseases on any therapy that may be presented.										
6	Course The student will be able to:											
O	Outcomes	CO1: To understand pathophysiological changes in infectious and metabolic disorders with the										
		treatment										
		CO2 : To understand pathophysiological changes in respiratory disorders with their treatment										
		CO3: To understand pathophyisological changes in cardiovascular disorders with their										
		treatment										
		CO4: To understand pathophysiological changes in hematological conditions with the										
		treatment										
		CO5: The student will be able to differentiate pediatric cases and handling the cases										
		become easier as they can relate theoretical knowledge with practical learning										
7	Course	It covers relevant aspects of General Medicine and Po	adiatries conditions in which									
/	Description	Physiotherapy play a significant role.	ediatries conditions in which									
	Description	This course is designed to develop the basic knowledge of	f Pediatrics and to understand a									
		pediatric patient, its special needs in relation to physical the										
		good rehabilitation.	nerupy which will help them provide									
8	Outline sylla	bus	CO Mapping									
	Unit 1											
	A	Infection	CO1, CO2									
	В	Poisoning										
	С	Endocrine diseases										
	Unit 2											
	A	Diseases of the blood										
	В	Food and Nutrition	CO1, CO3									
	С	Diseases of the digestive system										
	Unit 3											
	A	Congenital abnormalities and management	CO3, CO4									
	B Epilepsies and Modalities of psychiatric treatment, CO3, CO4											



					Beyond Boundaries
		Psychiatric illn	ess and physical	therapy link	
C		Orthopedic and	Neuromuscular	disorders in	
		childhood and	Child psychiatry:	Brief descriptions	
		of manifestation	ns, and managen	nent of childhood	
		disorders attent	ion deficit syndr	ome, and behavioral	
		disorders	•		
U	J nit 4				
A	\	Sensory disord	ers		CO2, CO1
В	3	Learning and b	ehavioural probl	ems and Brief	
		description of I	Etio-pathogenesis	s, manifestations,	
		and manageme	nt of psychiatric	illness a. Drug	
		dependence and	d alcoholism b. S	omatoform and	
		Dissociate Disc	orders – conversi	on reactions,	
		Somatization, I	Dissociate Amne	sia, and Dissociate	
		Fugue c. Person	nality disorders.	Geriatric Psychiatry.	
C		CerebralPalsy a	and Brief descrip	tion of Etio-	
		pathogenesis, n	nanifestations, ar	nd management of	
		psychiatric illne	esses a. Anxiety	neurosis b.	
		Depression c. C	Obsessive compu	lsive neurosis d.	
		Psychosis- Def	inition & types e	. Maniac-depressive	
		psychosis. Post	-traumatic stress	disorder g.	
		Psychosomatic	reactions: Stress	and Health.	
N	Mode of	Theory			
ez	xamination				
	Veightage	CA	MTE	ETE	
D	Distribution	30%	20%	50%	
-	`ext	1. Davidso	on principle and p	practice of medicine.	
bo	ook/s*	Clinical	methods of med	icine by Hutchinson	
				diatrics-Behraman &	
		varghan	•		
		· ·		Chai	
		4. Essentia	l pediatric by O.P	Ulial	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	2	2	3	3	3	3	3	3
CO2	2	3	3	3	3	3	3	3	3	2	3
CO3	2	3	3	3	3	3	3	3	3	3	3
CO4	3	3	2	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3



Template 3 (2)

Branch: Semester: 5th semester									
Course									
Code									
Course Title									
Title General Medicine, Paediatrics & psychiatry (Practical) Credits 1 Contact Hours (P) Course Type The objective of this course is that after 60 hours of lectures, demonstration addition to clinics the student will be able to demonstrate a general understanding the diseases that therapists would encounter in their practice. They should have a idea of the etiology and pathology, what the patient's symptoms and the rest functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. Course Outcomes The student will be able to: CO1: To understand pathophysiological changes in infectious and metabolic disorders of treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment To understand pathophysiological changes in cardiovascular disorders with their treatment									
3 Credits 1 4 Contact Hours (P) Course Type 5 Course Objective The objective of this course is that after 60 hours of lectures, demonstration addition to clinics the student will be able to demonstrate a general understanding the diseases that therapists would encounter in their practice. They should have a idea of the etiology and pathology, what the patient's symptoms and the rest functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. 6 Course Outcomes CO1: To understand pathophysiological changes in infectious and metabolic disorders of treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment									
4 Contact Hours (P) Course Type 5 Course Objective Objective Objective The objective of this course is that after 60 hours of lectures, demonstration addition to clinics the student will be able to demonstrate a general understanding the diseases that therapists would encounter in their practice. They should have a idea of the etiology and pathology, what the patient's symptoms and the rest functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. 6 Course Outcomes The student will be able to: CO1: To understand pathophysiological changes in infectious and metabolic disorders with their treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment CO3: To understand pathophysiological changes in cardiovascular disorders with their treatment									
Hours (P) Course Type The objective of this course is that after 60 hours of lectures, demonstration addition to clinics the student will be able to demonstrate a general understanding the diseases that therapists would encounter in their practice. They should have a idea of the etiology and pathology, what the patient's symptoms and the resulting functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. Course Outcomes The student will be able to: CO1: To understand pathophysiological changes in infectious and metabolic disorders with their treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment									
(P) Course Type The objective of this course is that after 60 hours of lectures, demonstration addition to clinics the student will be able to demonstrate a general understanding the diseases that therapists would encounter in their practice. They should have a idea of the etiology and pathology, what the patient's symptoms and the rest functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. Course Outcomes The student will be able to: CO1: To understand pathophysiological changes in infectious and metabolic disorders with their treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment treatment									
Course Type The objective of this course is that after 60 hours of lectures, demonstration addition to clinics the student will be able to demonstrate a general understanding the diseases that therapists would encounter in their practice. They should have a idea of the etiology and pathology, what the patient's symptoms and the resulting functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. Course Outcomes The student will be able to: CO1: To understand pathophysiological changes in infectious and metabolic disorders with their treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment Treatment									
Type Course Objective The objective of this course is that after 60 hours of lectures, demonstration addition to clinics the student will be able to demonstrate a general understanding the diseases that therapists would encounter in their practice. They should have a idea of the etiology and pathology, what the patient's symptoms and the resulting functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. Course Outcomes The student will be able to: CO1: To understand pathophysiological changes in infectious and metabolic disorders with their treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment CO3: To understand pathophysiological changes in cardiovascular disorders with their treatment									
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Objective addition to clinics the student will be able to demonstrate a general understand the diseases that therapists would encounter in their practice. They should have a idea of the etiology and pathology, what the patient's symptoms and the rest functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. Course Outcomes The student will be able to: CO1: To understand pathophysiological changes in infectious and metabolic disorders with their treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment	:								
the diseases that therapists would encounter in their practice. They should have a idea of the etiology and pathology, what the patient's symptoms and the rest functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. Course Outcomes The student will be able to: CO1: To understand pathophysiological changes in infectious and metabolic disorders with their treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment CO3: To understand pathophysiological changes in cardiovascular disorders with their treatment									
idea of the etiology and pathology, what the patient's symptoms and the rest functional disability. This would help the candidates to understand the limit imposed by the diseases on any therapy that may be prescribed. Course Outcomes The student will be able to: CO1: To understand pathophysiological changes in infectious and metabolic disorders with their treatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment CO3: To understand pathophysiological changes in cardiovascular disorders with their treatment	_								
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imposed by the diseases on any therapy that may be prescribed. Course Outcomes The student will be able to: CO1 : To understand pathophysiological changes in infectious and metabolic disorders vitreatment CO2 : To understand pathophysiological changes in respiratory disorders with their treatment CO3 : To understand pathophysiological changes in cardiovascular disorders with their treatment									
6 Course Outcomes The student will be able to: CO1 : To understand pathophysiological changes in infectious and metabolic disorders vitreatment CO2 : To understand pathophysiological changes in respiratory disorders with their treatment CO3 : To understand pathophysiological changes in cardiovascular disorders with their treatment	tation								
Outcomes CO1: To understand pathophysiological changes in infectious and metabolic disorders vitreatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment CO3: To understand pathophysiological changes in cardiovascular disorders with their treatment									
Outcomes CO1: To understand pathophysiological changes in infectious and metabolic disorders vitreatment CO2: To understand pathophysiological changes in respiratory disorders with their treatment CO3: To understand pathophysiological changes in cardiovascular disorders with their treatment									
treatment CO2: To understand pathophysiological changes in respiratory disorders with their treat CO3: To understand pathophyisological changes in cardiovascular disorders with their treatment									
CO2: To understand pathophysiological changes in respiratory disorders with their treat CO3: To understand pathophysiological changes in cardiovascular disorders with their treatment	vith the								
CO3 : To understand pathophyisological changes in cardiovascular disorders with their treatment									
treatment	ment								
treatment									
CO5: The student will be able to differentiate pediatric cases and handling the cases will									
become easier as they can relate theoretical knowledge with practical learning									
7 Course It covers relevant aspects of General Medicine and Pediatrics conditions in which									
	Physiotherapy play a significant role.								
This course is designed to develop the basic knowledge of Pediatrics and to understand a	. اد ند								
pediatric patient, its special needs in relation to physical therapy which will help them progood rehabilitation.	vide								
good teliabilitation.									
8 Outline syllabus CO Mapping									
Unit 1									
A Infection CO1, CO2									
B Poisoning									
C Endocrine diseases									
Unit 2									
A Diseases of the blood									
B Food and Nutrition CO1, CO3									



		Beyond Boundaries		
С	Diseases of the	digestive system	1	
Unit 3				
A	Congenital abn	ormalities and m	anagement	CO3, CO4
В			chiatric treatment,	
	Psychiatric illne	ess and physical	therapy link	
С	Orthopedic and	Neuromuscular	disorders in	
	childhood and	Child psychiatry:	Brief descriptions	
			nent of childhood	
	disorders attent	ion deficit syndre	ome, and behavioral	
	disorders			
Unit 4				
A	Sensory disorde	ers		CO2, CO1
В	Learning and be	ehavioural proble	ems and Brief	
	description of E	Etio-pathogenesis	s, manifestations,	
		nt of psychiatric	_	
	dependence and	d alcoholism b. S	omatoform and	
		orders – conversi	· · · · · · · · · · · · · · · · · · ·	
			sia, and Dissociate	
			Geriatric Psychiatry.	
C	•	and Brief descrip		
			nd management of	
		esses a. Anxiety		
		Obsessive compu		
			. Maniac-depressive	
		-traumatic stress		
	Psychosomatic	reactions: Stress	and Health.	
3.6.1.0	D			
Mode of .	Practical			
examination		A COL	ECC	
Weightage	CA	MTE	ETE	
Distribution	60%	0%	40%	
Text			practice of medicine.	
book/s*			icine by Hutchinson	
	3. Nelson	text book of peo	diatrics-Behraman &	
	varghan	•		
	4. Essential	pediatric by O.P	Ghai	
	•			

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
3	3	3	2	2	3	3	3	3	3	3
2	2	2	2	2	2	2	2	2	2	2
2	3	3	3	3	3	3	3	3	2	3
2	3	3	3	3	3	3	3	3	3	3
	3 2	3 3 2 3	3 3 3 2 3 3	3 3 3 2 2 3 3 3 3	3 3 3 2 2 2 3 3 3 3	3 3 3 2 2 3 2 3 3 3 3 3	3 3 3 2 2 3 3 2 3 3 3 3 3	3 3 3 2 2 3 3 3 2 3 3 3 3 3 3	3 3 3 2 2 3 3 3 2 3 3 3 3 3 3	3 3 3 2 2 3 3 3 3 2 3 3 3 3 3 3 2

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CO4	3	3	2	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3

Template 4 (1)

School:Allied health scienceBatch: 2020-24Program:BPTCurrent Academic Year: 2022-23Branch:Semester: 5th semester1Course CodeBPT 3112Course TitleCommunityMedicine3Credits44Contact Hours (L)4-0-0	
Branch: Semester: 5 th semester 1	
1 Course Code BPT 311 2 Course Title CommunityMedicine 3 Credits 4 4 Contact 4-0-0 Hours (L)	
2 Course Title CommunityMedicine 3 Credits 4 4 Contact 4-0-0 Hours (L)	
3 Credits 4 4 Contact Hours (L)	
4 Contact 4-0-0 Hours (L)	
Hours (L)	
(L)	
Course Type Compulsory	
5 Course The objective of this course is that after 60 hrs of lectures and discussion	on the
Objective student will be able to demonstrate an understanding of various aspect	s of
health and disease list the methods of health administration, health edu	cation
and disease preventive measures.	
6 Course The student will be able to:	
Outcomes CO1:to understand concept of community	
CO2: To understand role of rural and urban communities in public hea	lth
CO3:To understand role of community in determining beliefs, practices and	home
remedies in treatment	
CO4:To understand various aspect of health and disease in community	
CO5: To understand health education and disease preventive measures	5.
7 Course Subject follows the basic science subjects to provide the knowledge ab	out
Description conditions the therapist would encounter in their practice in the commu	
	•
8 Outline syllabus CO Mapping	
Unit 1	
A HealthandDisease CO1, CO2	
B Epidemiology,definitionandscope	
C Publichealthadministration	
Unit 2	
A HealthprogrammeinIndia	
B Hospital waste management CO1, CO3	
C DisasterManagement	

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Unit 3			CO4, CO5							
A	Occupationa	ıl Health								
В	HealthEduca	tion								
С	Nutritional 6	Nutritional eductaion								
Mode of	Theory									
examination										
Weightage	CA	MTE	ETE							
Distribution	30%	20%	50%							
Text book/s*	Park and Par	rk								

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	3	2	3	3	3	2	3
CO2	3	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	2	3	3	3	3	3	3	3
CO4	2	3	3	3	3	3	3	3	3	3	3
CO5	3	2	3	3	3	3	3	3	2	3	3

Template 4 (2)

	iipiate 4 (2)								
Sch	nool:	Allied health science Batch: 2020-24							
Pro	gram:	BPT Current Academic Year: 2022-23							
Bra	anch:	Semester: 5 th semester							
1	Course Code	BPT 351							
2 Course Title CommunityMedicine (Practical)									
3	Credits	1							
4	Contact	0-0-2							
	Hours								
	(P)								
	Course Type	Compulsory							
5	Course	The objective of this course is that after 60 hrs of lectures and discussion the							
	Objective	student will be able to demonstrate an understanding of various aspects of							
		health and disease list the methods of health administration, health							
		education and disease preventive measures.							
6	Course	The student will be able to:							
	Outcomes	CO1:to understand concept of community							
		CO2: To understand role of rural and urban communities in public health							
		CO3:To understand role of community in determining beliefs, practices and home							
		remedies in treatment							
		CO4:To understand various aspect of health and disease in community							
		CO5: To understand health education and disease preventive measures.							
7	Course	Subject follows the basic science subjects to provide the knowledge about							



		I			Beyond Boundaries					
	Description	conditions th	e therapist v	would encoun	ter in their practice in the community					
8	Outline syllabi	ıs			CO Mapping					
	Unit 1									
	A	HealthandDis	sease		CO1, CO2					
	В	Epidemiology		dscope						
	С	Publichealthad	lministration							
	Unit 2									
	A	Healthprogra								
	В	Hospital waste	management		CO1, CO3					
	C	DisasterManag	ement							
	Unit 3				CO4, CO5					
	A	Occupationa	l Health							
	В	HealthEduca	tion							
	C	Nutritional e	ductaion							
	Mode of	Practical								
	examination									
	Weightage	CA	MTE	ETE						
	Distribution	60%	0%	40%						
	Text book/s*	Park and Par	·k							

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	3	2	3	3	3	2	3
CO2	3	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	2	3	3	3	3	3	3	3
CO4	2	3	3	3	3	3	3	3	3	3	3
CO5	3	2	3	3	3	3	3	3	2	3	3

Template 5 (1)

School:	Allied health science	Batch: 2020-24
Program:	BPT	Current Academic Year: 2022-23
Branch:	Semester: 5 th semester	

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1	Course Code	BPT 312			Beyond Boundaries			
2	Course Title		n of Diagnosti	c imaging techno	logy			
3	Credits	2	i oi Diagnosti	e imaging teemio	logy			
4	Contact	2-0-0						
	Hours	200						
	(L)							
	Course Type	Compulsory	,					
5	Course			udy of common	diagnostic and therapeutic			
	Objective			•	tudents will be aware of the			
					ly used diagnostic imaging tests as			
			•		ry used diagnostic imaging tests as			
				management.				
6	Course		will be able					
	Outcomes	CO1:Unders	tand the CLI	NICAL and TEC	CHNICAL (including, the science and			
		research)aspe	ects of radiolo	gy.				
		CO2:Recogn	ize basic anat	omy and patholo	gy as seen on imaging studies.			
		CO3:Be able	to interpret n	najor findings on	Chest X-Ray			
		CO4:Know a	and understan	d safety issues in	Radiology clinical practice			
		CO5: To un	derstand inte	rpretation of C	Γ and MRI			
7	Course	The course	will cover th	at howX-Ray, C	CT, MRI, Ultrasound and Other			
	Description	Medical Ima	ages are crea	ted and how the	y help the health professionals to			
		save lives.						
		Save nves.						
8	Outline syllabi	us			CO Mapping			
	Unit 1				11 0			
	A	Image interp	retation		CO1, CO2			
	В	radiography						
	С	fluoroscopy						
	Unit 2							
	A	СТ						
	В	MRI			CO1, CO3			
	С	US and endo	oscopy					
	Mode of	Theory						
	examination							
	Weightage	CA	MTE	ETE				
	Distribution	30%	20%	50%				
	Text book/s*	Textbook of	Textbook of radiology					



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs	2	2	2	2	2	2	2	2	3	2	3
CO1	3	3	3	3	3	2	3	3	3	2	3
CO2	3	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	2	3	3	3	3	3	3	3
CO4	2	3	3	3	3	3	3	3	3	3	3
CO5	3	2	3	3	3	3	3	3	2	3	3

Template 5 (2)

	ool:	Allied health science Batch: 2020-24
	gram:	BPT Current Academic Year: 2022-23
	nch:	Semester: 5 th semester
1	Course Code	BPT 352
2	Course Title	Interpretation of Diagnostic imaging technology (Practical)
3	Credits	1
4	Contact	0-0-2
	Hours	
	(P)	
	Course Type	Compulsory
5	Course	This course covers the study of commondiagnostic and therapeutic
	Objective	Imaging tests. At the end of the course students will be aware of the
		indications and implications of commonly used diagnostic imaging tests as
		they pertain to patient's management.
6	Course	The student will be able to:
	Outcomes	CO1:Understand the CLINICAL and TECHNICAL (including, the science and
		research)aspects of radiology.
		CO2:Recognize basic anatomy and pathology as seen on imaging studies.
		CO3:Be able to interpret major findings on Chest X-Ray
		CO4:Know and understand safety issues in Radiology clinical practice
		CO5: To understand interpretation of CT and MRI
7	Course	The course will cover that howX-Ray, CT, MRI, Ultrasound and Other
	Description	Medical Images are created and how they help the health professionals to
		save lives.



				Beyond Boundaries	
8	Outline syllabi	us			CO Mapping
	Unit 1				
	A	Image interp	retation		CO1, CO2
	В	radiography			
	C	fluoroscopy			
	Unit 2				
	A	CT			
	В	MRI			CO1, CO3
	С	US and ende	oscopy		
	Mode of	Practical			
	examination				
	Weightage	CA	CA MTE		
	Distribution	60%	0%	40%	
	Text book/s*	Textbook of	fradiology		

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	3	2	3	3	3	2	3
CO2	3	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	2	3	3	3	3	3	3	3
CO4	2	3	3	3	3	3	3	3	3	3	3
CO5	3	2	3	3	3	3	3	3	2	3	3

Template 1 (1)

	npiate 1 (1)							
Sch	ool:	Allied health science	Batch: 2020-24					
Pro	gram:	BPT	Current Academic Year: 2022-23					
Bra	nch:	Semester: 6 th semester						
1	Course Code	BPT 312						
2	Course Title	PhysiotherapyinOrthopedics&	PhysiotherapyinOrthopedics& sports					
3	Credits	5-0-0						
4	Contact	5						
	Hours							
	(L)							
	Course Type	Compulsory						
5	Course	Theobjective of the course is that	afterthespecifiedhours oflectures and					

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						TI	

	Objective	demonstratio	nsthestudent	willbe ableto identifydis	ahilities					
	Objective			•	nentgoals and applytheskills					
			•	•						
		gainedinexercisetherapyandelectrotherapyintheseclinical situations to restore musculoskeletal function.								
		indscuroskeretai function.								
6	Course	The student	The student will be able to:							
	Outcomes	CO1: To un	derstand tra	umatology of Upper and	d lower limb fractures, with					
		their treatme			·					
			_	with musculoskeletal cond	itions.					
		CO3: To und	derstand the	pathophysiology of vari	ous inflammatory and					
		infective cor	nditions of m	nusculoskeletal system w	ith its treatment protocol.					
		CO4: To und	derstand PT	evaluation of Orthopedi	c conditions.					
				management of Orthope						
7	Course			e course, this course introd						
	Description			•	ity. Particular effort is made in					
				ang the student with any do their understanding of th	etail pertaining to diagnosis					
				e functioning of the indivi						
		orthopeate pa	unology on un	to remediating of the marvi	duur					
8	Outline syllab	us			CO Mapping					
	Unit 1				11 5					
	A	PT assessmen	ntfor Orthopeo	dic conditions	CO1, CO2					
	В	Fractures								
	С	Specificfract	ures anddislo	ocations						
	Unit 2									
	A		dapplication	of physiotherapeutic						
		techniques								
	В		arious school	lsof thought in manual	CO1, CO3					
	С	therapy Degenerativea	ndinflammate	ary conditions						
	Unit 3	Degenerativea	mumammatt	ryconditions	CO3, CO4					
	A	Infactive con	ditions and I	ntroductiontoBio-	CO3, CO4					
	Λ.	Engineering	withous allu I	na oductioniodio-						
	В	Cerebralpalsy	7							
	C	Poliomyelitis		nb injuries						
	Unit 4			3	CO5, CO1					
	A	Leprosy			,					
	В	Amputation								
	С	Upper limb	injuries and							
	Mode of	Theory								
	examination									
	Weightage	CA	MTE	ETE						
	Distribution	30%	20%	50%						
	Text book/s*			Textbook of						
		_		inical orthopedic						
		rehabilitation	n- Brotzman	. 4. Orthopedic						



physiotherapy - Jayant Joshi. 5. Physical	,
Rehabilitation Assessment and Treament –	
O'Sullivan Schmitz 6. Sports physiotherapy-	
Maria Zuluaga	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	2	3	3	2	3	3	3
CO2	3	2	3	3	3	3	3	3	3	3	3
CO3	2	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	2	3	3
CO5	2	3	3	3	3	3	3	3	3	3	3

Template 1 (2)

<u> 1 en</u>	nplate 1 (2)							
Sch	nool:	Allied health science Batch: 2020-24						
Pro	gram:	BPT Current Academic Year: 2022-23						
Bra	anch:	Semester: 6 th semester						
1	Course Code	BPT 360						
2	Course Title	PhysiotherapyinOrthopedics& sports (Practical)						
3	Credits	2						
4	Contact	4						
	Hours							
	(P)							
	Course Type	Compulsory						
5	Course	Theobjective of the course is that after the specified hours of lectures and						
	Objective	demonstrationsthestudent willbe ableto identifydisabilities						
		duetomusculoskeletaldysfunction,plan andsettreatmentgoals and applytheskills						
		gainedinexercisetherapyandelectrotherapyintheseclinical situations to restore						
		musculoskeletal function.						
6	Course	The student will be able to:						
	Outcomes	CO1: To understand traumatology of Upper and lower limb fractures, with						
		their treatment protocols.						



		1			Beyond Boundaries								
			•	th musculoskeletal condi									
		CO3: To und	derstand the pa	athophysiology of vari	ous inflammatory and								
		infective con	ditions of mu	sculoskeletal system w	ith its treatment protocol.								
		CO4: To und	derstand PT ev	valuation of Orthopedic	e conditions.								
		CO5: To und	derstand PT m	anagement of Orthope	dic conditions.								
7	Course			course, this course introd									
	Description				ity. Particular effort is made								
	1		in this course to avoid burdening the student with any detail pertaining to diagnosis										
		which will not contribute to their understanding of the limitation imposed by											
		orthopedic pa	thology on the	functioning of the indivi	dual								
8	Outline syllab	us			CO Mapping								
	Unit 1												
	A		tfor Orthopedic		CO1, CO2								
	В			pedic conditions									
	С	Specificfracti	ures anddisloca	ations									
	Unit 2												
	A	Selection and	dapplication o	of physiotherapeutic									
		techniques											
	В	Principlesof v	arious schoolse	of thought in manual	CO1, CO3								
		therapy			,								
	С	Degenerativea	ndinflammatory	vconditions									
	Unit 3				CO3, CO4								
	A	Infective con	ditions and Int	roductiontoBio-									
		Engineering											
	В	Cerebralpalsy											
	С	Poliomyelitis	and lower limb	injuries									
	Unit 4				CO5, CO1								
	A	Leprosy											
	В	Amputation											
	С		njuries and sr	oinal conditions									
	Mode of	Practical	<u> </u>										
	examination												
	Weightage	CA	MTE	ETE									
	Distribution	60%	0%										
	Text book/s*		otherapy. 2. T	40% extbook of									
	TOAL BOOK/S		Cash. 3. Clin										
		-	n- Brotzman.										
			y - Jayant Jos										
			•	and Treament –									
				orts physiotherapy-									
			-	ores physiomerapy-									
		Maria Zuluaga											

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											

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CO1	3	3	3	3	2	3	3	2	3	3	3
CO2	3	2	3	3	3	3	3	3	3	3	3
CO3	2	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	2	3	3
CO5	2	3	3	3	3	3	3	3	3	3	3

Template 2 (1)

	emplate 2 (1)						
Sc	hool:	Allied health science Batch: 2020-24					
	ogram:	BPT Current Academic Year: 2022	-23				
Bı	anch:	Semester: 6 th semester					
1	Course	BPT 313					
	Code						
2	Course	Physiotherapy in General Surgery and General Medicine					
	Title						
3	Credits	5					
4	Contact	5					
	Hours						
	(L)						
Course Compulsory							
	Type						
5	Course	Acquire theknowledge of evaluation and physiotherapeutic treat	ment for				
	Objective	obstetric and gynecologicalconditions					
		Acquiretheknowledgeofvariousconditionswherephysiotherapyple	aysavitalroleinthe				
		rehabilitation					
6	Course	The student will be able to:					
	Outcomes	CO1 : To understand pathophysiological changes in infectious and m PT treatment	etabolic disorders with the				
		CO2 : To understand pathophysiological changes in respiratory disor CO3 : To understand pathophysiological changes in cardiovascular d					
		treatment	aborders with them 1.1				
		CO4: Diagnose condition from history taking, clinical evaluation and	investigation in				
		antenatal and postnatal care.					
		CO5: To understand various injuries with its treatment Protocol					
7	Course	To Identifydiscussandanalyzecardiovascularandpulmonarydysfu					
	Description	Acquireknowledgeofrationalofbasicinvestigativeapproachesinthe	emedicalsystemandsur				
		gical intervention.					
8	Outline sylla	bus	CO Mapping				
	Unit 1						
	A	Physiotherapyinmotherandchildcare	CO1, CO2				
	В	Geriatrics					



(C	Abdominal incision	ns and complications	of operations						
Ţ	Unit 2									
	A	Physiotherapy in pr	stages							
I	В	Operationson upper	CO1, CO3							
	C	Operationson large	and small intestine a	and PT in dentistry						
Ţ	Unit 3									
	A	Burnsand itstreatme	Burnsand itstreatment							
[J	В	Managementofwou	indulcers and PT in de	erma						
	C	ENT conditions								
	Mode of	Theory								
	examination		T	Τ						
	Weightage	CA	MTE	ETE						
	Distribution	30%	20%	50%						
	Text	Tidy's physiotherap								
1	book/s*	Clinical orthopedic	rehabilitation- Brotz							
	ļ	physiotherapy - Jay	ıl Rehabilitation							
	ļ		eament – O'Sullivan							
		physiotherapy- Mar								

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	3	3	3	3	2	3	3
CO2	3	3	3	3	3	3	3	3	3	2	3
CO3	2	3	3	3	3	2	3	3	3	3	3
CO4	3	3	3	3	3	3	2	2	3	3	3
CO5	3	3	3	3	2	2	3	3	3	3	3

Template 2 (2)

	Tempiate 2 (2)		
So	chool:	Allied health science Batch: 2020-24	
Pı	rogram:	BPT Current Academic Year: 2022-23	
B	ranch:	Semester: 6 th semester	
1	Course Code	BPT 361	
2	Course Title	Physiotherapy in General Surgery and General Medicine (Practical)	
3	Credits	2	
4	Contact	4	
	Hours		
	(P)		
	Course Type	Compulsory	
5	Course	Acquire theknowledge of evaluation and physiotherapeutic treatment for	
	Objective	obstetric and gynecologicalconditions	



	1	Beyond Boundaries								
		-	Acquiretheknowledgeofvariousconditionswherephysiotherapyplaysavitalroleinthe							
		rehabilitation	rehabilitation							
6	Course	The student	The student will be able to:							
	Outcomes			siological changes in i	nfectious and metabolic disorders with their					
		PT treatment								
		CO2: To understand pathophysiological changes in respiratory disorders with their PT treatment								
		CO3: To understand pathophyisological changes in cardiovascular disorders with their PT								
		treatment								
		CO4: Diagnose condition from history taking, clinical evaluation and investigation in antenatal								
		and postnatal care. CO5: To understand various injuries with its treatment Protocol								
7	Course		•	-	Ilmonarydysfunction.					
	Description	-	•	tbasicinvestigativea	pproachesinthemedicalsystemandsurgi					
		cal intervent	ion.							
	0 41 11 1				LCO M					
8	Outline syllabi	1S			CO Mapping					
	Unit 1	DI 1 1	. , ,	71.1	G01, G02					
	A		yinmotherandchi	CO1, CO2						
	В	Geriatrics								
	С		ncisions and com	plications of						
		operations								
	Unit 2									
	A		y in pre andpost-	<u> </u>						
	В		n upper G.I.Tes	ophagus,stomach,	CO1, CO3					
		duodenum								
	C		n large and small	intestine and PT in						
		dentistry								
	Unit 3				CO4, CO5					
	A	Burnsand itst	reatment							
	В	Managemen	tofwoundulcers ar	nd PT in derma						
	С	ENT conditi	ons							
	Mode of	Practical								
	examination									
	Weightage	CA	MTE	ETE						
	Distribution	60%	0%	40%						
	Text book/s*	Tidy's physic	otherapy. 2. Textl	book of orthopedics-						
			nical orthopedic re							
			-	siotherapy - Jayant						
				on Assessment and						
			O'Sullivan Schmi							
			y- Maria Zuluaga							
ш	l .	1 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<i>y</i> =							

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1
								ļ i				ı

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COs											
CO1	3	3	3	3	3	3	3	3	2	3	3
CO2	3	3	3	3	3	3	3	3	3	2	3
CO3	2	3	3	3	3	2	3	3	3	3	3
CO4	3	3	3	3	3	3	2	2	3	3	3
CO5	3	3	3	3	2	2	3	3	3	3	3

Template 3 (1)

	nplate 3 (1)	
-	ool:	Allied health science Batch: 2020-24
	gram:	BPT Current Academic Year: 2022-23
Bra	nch:	Semester: 6 th semester
1	Course Code	BPT 314
2	Course Title	Clinical Neurology& Neurosurgery
3	Credits	3
4	Contact	3
	Hours	
	(L)	
	Course Type	Compulsory
5	Course Objective	The objective of this course is that after 60 hours of lectures & demonstrations. In adding to clinics, the students will be able to demonstrate an understanding of neurological conditions causing disability and their management in addition, the student will be able to fulfill with 75% accuracy (as measured by written, oral& practical, internal evaluation) the following objectives of the course. An understanding of the approach of neurologists to the health care of people with neurologic conditions. Begin to understand an educational plan for continuous learning throughout the professional career. An understanding of the influence of family, community, and society in the care of people with neurological
6	Course Outcomes	The student will be able to: CO1:To understand pathophysiological changes in neurological disorders with their treatment CO2:To understand the management of various neurosurgeries CO3:clinical decision making ability and management expertise CO4:Plan a better rehabilitation care for patients pre and postneurosurgery CO5: To understand the management of various neurological condition and its treatment
7	Course Description	Following the basic science and clinical science course, this course introduces the student to the neurological conditions which commonly cause



				Beyond Boundaries	
		disability.			
8	Outline syllabi	ıs			CO Mapping
	Unit 1				
	A	Neurological	CO1, CO2		
		disorders			
	В	Neuro ophth	almology		
	C	Deafness, vert	igo,andimbala		
	Unit 2				
	A	Cerebro-vasc	ulardiseases		
	В	Lowercranial r	nerveparalysis	CO1, CO3	
	С	Head injury,	metabolic, en	vironmental disorders	
	Unit 3			CO4, CO5	
	A	Movement a			
	В	Cerebellarano	lcoordination	lisorders	
	С	Spinal cord of	lisorders, peri	pheral and	
		polyneuropa	thy		
	Unit 4				CO3, CO5
	A	Multiple scle	rosis, tumors	,	
	В	Neuromuscu	lar junction d	isorders and	
		polyneuropa	thy		
	С	Motor neuro	n disorders an	nd pedriatric disorders	
	Mode of	Theory			
	examination				
	Weightage	CA	MTE	ETE	
L	Distribution	30%	20%	50%	
	Text book/s*	Davidson's I	Principles and	Practice of Medicine	
				- Victor Adams 3.	
		Brains Clinic	al Neurology	4 .Illustrated	
		Neurology &	Neurosurger	y 5. Brains Diseases of	
		Nervous Sys	tem		

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	2	3	2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	2	3	2	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3

Template 3 (2)

School:	Allied health science	Batch: 2020-24
Program:	BPT	Current Academic Year: 2022-23

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2 Co 3 Cr 4 Co H (P Co 5 Co	ourse Code ourse Title redits ontact ours Ourse Type ourse type ourse bjective	an understanding of neurological conditions can management in addition, the student will be accuracy (as measured by written, oral& practical following objectives of the course. An understanding of the approach of neurologic people with neurologic conditions.	will be able to demonstrate using disability and their able to fulfill with 75% al, internal evaluation) the				
3 Cr 4 Co H (P Co 5 Co	redits ontact ours P) ourse Type ourse	Compulsory The objective of this course is that after of demonstrations. In adding to clinics, the students of an understanding of neurological conditions can management in addition, the student will be accuracy (as measured by written, oral& practical following objectives of the course. An understanding of the approach of neurologic people with neurologic conditions.	will be able to demonstrate using disability and their able to fulfill with 75% al, internal evaluation) the				
4 Co H (P Co 5 Co	ontact ours P) ourse Type ourse	Compulsory The objective of this course is that after of demonstrations. In adding to clinics, the students of an understanding of neurological conditions can management in addition, the student will be accuracy (as measured by written, oral& practical following objectives of the course. An understanding of the approach of neurologic people with neurologic conditions.	will be able to demonstrate using disability and their able to fulfill with 75% al, internal evaluation) the				
H (P C)	ours Ourse Type ourse	Compulsory The objective of this course is that after of demonstrations. In adding to clinics, the students of an understanding of neurological conditions can management in addition, the student will be accuracy (as measured by written, oral& practical following objectives of the course. An understanding of the approach of neurologic people with neurologic conditions.	will be able to demonstrate using disability and their able to fulfill with 75% al, internal evaluation) the				
(P Co 5 Co	ourse Type ourse	The objective of this course is that after of demonstrations. In adding to clinics, the students of an understanding of neurological conditions can management in addition, the student will be accuracy (as measured by written, oral& practical following objectives of the course. An understanding of the approach of neurologic people with neurologic conditions.	will be able to demonstrate using disability and their able to fulfill with 75% al, internal evaluation) the				
5 C	ourse Type ourse	The objective of this course is that after of demonstrations. In adding to clinics, the students of an understanding of neurological conditions can management in addition, the student will be accuracy (as measured by written, oral& practical following objectives of the course. An understanding of the approach of neurologic people with neurologic conditions.	will be able to demonstrate using disability and their able to fulfill with 75% al, internal evaluation) the				
5 C	ourse Type ourse	The objective of this course is that after of demonstrations. In adding to clinics, the students of an understanding of neurological conditions can management in addition, the student will be accuracy (as measured by written, oral& practical following objectives of the course. An understanding of the approach of neurologic people with neurologic conditions.	will be able to demonstrate using disability and their able to fulfill with 75% al, internal evaluation) the				
5 C	ourse	demonstrations. In adding to clinics, the students van understanding of neurological conditions can management in addition, the student will be accuracy (as measured by written, oral& practical following objectives of the course. An understanding of the approach of neurologic people with neurologic conditions.	will be able to demonstrate using disability and their able to fulfill with 75% al, internal evaluation) the				
O	bjective	an understanding of neurological conditions can management in addition, the student will be accuracy (as measured by written, oral& practical following objectives of the course. An understanding of the approach of neurologic people with neurologic conditions.	using disability and their able to fulfill with 75% al, internal evaluation) the				
		the professional career.	demonstrations. In adding to clinics, the students will be able to demonstrate an understanding of neurological conditions causing disability and their management in addition, the student will be able to fulfill with 75% accuracy (as measured by written, oral& practical, internal evaluation) the following objectives of the course. An understanding of the approach of neurologists to the health care of people with neurologic conditions. Begin to understand an educational plan for continuous learning throughout the professional career. An understanding of the influence of family, community, and society in the				
6 C	ourse	The student will be able to:					
	utcomes	CO1:To understand pathophysiological changes in neurological disorders with their treatment CO2:To understand the management of various neurosurgeries CO3:clinical decision making ability and management expertise CO4:Plan a better rehabilitation care for patients pre and postneurosurgery					
	ourse escription	CO5: To understand the management of various neuro treatment Following the basic science and clinical science continuous the student to the neurological condition disability.	ourse, this course				
8 O	utline syllabu	•	CO Mapping				
	nit 1	40	Contapping				
A		Neurological assessment, classification and disorders	CO1, CO2				
В		Neuro ophthalmology					
C		Deafness, vertigo, and imbalance					
	nit 2						
A		Cerebro-vasculardiseases					
В		Lowercranial nerveparalysis	CO1, CO3				
C		Head injury, metabolic, environmental disorders					
	nit 3	discours, and monthly discours	CO4, CO5				
A		Movement and cerebral disorders	,				
B		Cerebellarandcoordinationdisorders					
C		Spinal cord disorders, peripheral and					

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	polyneuropa	thy		Beyond Boundarres	
Unit 4	Unit 4				
A	Multiple scle	erosis, tumors	,		
В	Neuromuscu	lar junction d	isorders and		
	polyneuropa	thy			
C	Motor neuro	n disorders aı			
Mode of	Practical				
examination					
Weightage	CA	MTE	ETE		
Distribution	60%	0%	40%		
Text book/s*	Davidson's I	Principles and	Practice of Medicine		
			- Victor Adams 3.		
	Brains Clinic	cal Neurology			
	Neurology &	Neurosurge	ry 5. Brains Diseases of		
	Nervous Sys	tem			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	2	3	2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	2	3	2	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3

SEVENTH SEMESTER

So	chool: School Of Allied	Health Sciences	Batch: 2020-24			
	rogram: Bachelor's Of nysiotherapy(BPT)	Current Academic Year: 2023-24				
	ranch: Physiotherapy	Semester:VII				
1	Course Code	BPT460				
2	Course Title	PHYSIOTHERAPY IN NEUROLOGY &	PSYCHOSOMATIC DISORDER			
3	Credits	5				
4	Contact Hours	5-0-0				
	(L-T-P)					
	Course Type	DSE				
5	Course Objective	1. The objective of this course in that, the s	student will be able to identify			
		disability due to neurological dysfunction,	set treatment goals and apply			
		their skill.				
		2. Students will understand the role exercise therapy, electrotherapy and				
		recent therapeutic advancement in clinical situation to restore neurological				
		function.				



		3.In addition, the student will be able to diagnose the conditions.					
6							
7	Course Description	The subject serves to integrate the knowledge gained by the students in neurology and neurosurgery with skills to apply these in clinical situations of dysfunction and neurological pathology. The objective of the course is that after the specified hours of lectures and demonstrations the student will be able to identify disabilities due to neurological dysfunction, plan and set treatment goals and apply the skills gained in exercise therapy and electrotherapy in these clinical situations to restore neurological function.					
8	Outline syllabus	-I	CO Mapping				
	Unit 1	Neurological Assessment					
	A	Required materials forexamination, Chief complaints, History taking-Present,Past medical,familial,personalhistories,Observation,Palpation,H igher mentalfunction- Consciousness,Orientation,Wakefulness,memory,Speech, Reading, Language, Writing, Calculations,Perception,Leftrightconfusion,Reasoni ng,andJudgment	CO1, CO2				
	В	Motor Examination–Muscle power, Muscle tone, Spasticity, Flaccidity, Reflexes– Developmental reflexes, deep tendon reflexes, Superficial reflexes, Sensory examination – Superficial, Deep and Cortical sensations, Special tests– Romberg's, Kernig's sign, BrudenzkI sign, Tinels's sign, Slum test, Lehermitte's	CO1,CO2				
	C	sign, Bells Phenomenon, Gower's sign, Sunset sign,Battle's sign, Glabellar tap sign, etc, Balance examination, coordination examination, Gait analysis—Kinetics & Kinematics (Quantitative & Qualitative analysis), Functional Analysis. Assessment tools & Scales—Modified Ashworth scale,	CO1,CO2				

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	Beyon	d Boundaries						
	Berg balance scale, FIM, Barthel index,							
	Glasgow coma scale, Mini mental state examination,							
	Rancho Los Amigos Scale for Head injury, APGAR score,							
	ASIA scale, Reflex Grading. Differentialdiagnosis. NeurophysiologicalTechniques							
Unit 2	NeurophysiologicalTechniques							
A	Concepts, Principles, Techniques, Effects of following	CO1, CO3						
	Neurophysiological techniques: NDT ,PNF, Vojta therapy	,						
В	Rood's Sensorymotor Approach, Sensory Integration	CO1, CO3						
	Approach, Brunnstorm movement therapy, Motor relearning							
	program.							
C	Contemporary task oriented approach, Muscle re-education	CO1, CO3						
	approach and Constraint induced movementtherapy.							
Unit 3	Paediatric Neurology							
A	Developmentalmilestones, developmental reflexes, Neuro	CO2,CO4						
	developmentalscreeningtests. Evaluation							
	&Management- History,							
	Observation, Palpation, Milestone Examination,							
	developmentalreflexExamination,Higher							
	mentalfunction, Cranialnerveexamination							
В	Motor&Sensoryexamination,Reflextesting,	CO2,CO4						
	differentialDiagnosis,Balance&Coordinationexamination,	,						
	Gaitanalysis, Functionalanalysis, Listof Problems &							
	Complications, short &LongTermgoals							
С	Management of systemic	CO2,CO4						
	complications, Management of Mechanical	202,001						
	Complications, Use of various Neurophysiological							
	approaches&Modalities							
	inRiskbabies,Minimumbraindamage,Developmenta							
	ldisorders, Cerebralpalsy,							
	Autism, Down's Syndrome, Hydrocephalus, Chorea, Spinabif							
	ida,andsyringomyelia.							
Unit 4	Evaluation and Management							
		CO1 CO4						
A	BrainandSpinalCordDisorders:History,Observation,	CO1,CO4						
	Palpation, Highermental							
	function, Cranial nerveexamination, Motor & Sensory							
	examination,							
	Reflextesting, differential Diagnosis, Balance & Coordination							
	examination, Gaitanalysis, Functional							
	analysis,ListofProblems&Complications,short&LongTe							
	rmgoals,Managementofsystemic							
	complications, Management of Mechanical Complications							
	,Useof							
	variousNeurophysiologicalapproaches&ModalitiesinCereb							
	rovascular Accident, Meningitis, Encephalitis, Head							
	Injury,BrainTumors,Perceptualdisorders,Amyotrop							
	hiclateralsclerosis, and Multiplesclerosis.							

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		d Boundaries
В	Cerebellar, Spinal Cord andMuscle Disorders: History,Observation,Palpation,Motor &Sensoryexamination, Reflextesting,differentialDiagnosis, Balance&Coordination examination,Gaitanalysis,Functionalanalysis,ListofProblems&C omplications,short &Long Term goals, Management of systemic complications, ManagementofMechanicalComplications,Useofvarious Neurophysiologicalapproaches&ModalitiesinAtaxia, SensoryAtaxia,	CO1,CO4
	Parkinson's disease, Muscular dystrophy (DMD), Myasthenia Gravis, Eaton- Lambert Syndrome, Spinal tumors, Spinal cordinjury, Transverse myelitis, Bladder & Bowel Dysfunction, Spinal muscular atrophies, Poliomyelitis, Post-Polio Syndrome.	
С	1. Peripheral Nerve Injuries and Disorders :History, Observation,Palpation,Motor &Sensoryexamination, Reflextesting,differentialDiagnosis, Balance&Coordination examination,Gaitanalysis,Functionalanalysis,ListofProblems&C omplications, short &Long Term goals, Management of systemic complications,Useofvarious Neurophysiologicalapproaches&Modalities inHereditarymotor sensory neuropathy,Guillain- Barresyndrome,Brachialplexus palsy,Thoracicoutletsyndrome,Lumbosacralplexuslesions,Phreni c& intercostalsnerve lesions,Median nervepalsy,Ulnar nervepalsy,Radialnervepalsy,Musculocutaneousnerve palsy,Anterior &Posterior interosseous nervepalsy,Axillarynervepalsy,Longthoracicnerve palsy,Suprascapularnervepalsy,sciaticnervepalsy,Tibialnerve palsy,Commonperoneal nervepalsy, and Pudentalnervepalsy.	CO1,CO4
Unit 5 A	Assessment and management of Neurological gaits QuantitativeandQualitative(Kinetic&Kinematics) analysis,Listof Problems,short&LongTermgoals,Managementof following NeurologicalGaits-Hemiplegicgait,Parkinsongait,Highstepgait, Hyperkineticgait, Hypokineticgait, Waddlinggait,Scissoringgait,Spasticgait, ChoreaformGait,DiplegicGait, and MyopathicGait.	CO3,CO4

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	T_				d Boundaries		
	В		Preandpostsurgicalassessmentandtreatmentfoll CO3,CO4				
			ingconditions-Spin				
		Spi	nalstenosis,Spinalco				
				thespine, Spinal cord and			
			ipheral nerves, Cer				
		_	•	•			
			parachnoid hemorr	nages, epnepsy,			
			kinson's				
		dise	ease,Chorea,Hemiba	allism,Psychiatricdisorders,			
		Ma	lformations of then	ervous system, Carotid			
		arte	ery stenosis, Arterio	ovenousmalformations,			
		and	Spinabifida.				
			1				
	С	An	nlied Yogain Neur	ologicalconditions.	CO3,CO4		
		1 P	piica 10gaii 11cai	orogical conditions.			
	Mode of examination	The	eory/Jury/Practical	/Viva			
	Weightage Distribution	С	MTE	ETE			
		A					
		3	20%	50%			
		0					
		%					
	Text book/s*		1. Cash's text	tbook of neurology for,			
				sts - Dowani - J P Brothers.			
				legia - Evaluation & treatment -			
				ord ButterworthHeinm an			
				Rehabilitation - Carr&Shepherd -			
			ButterworthHe				
				and paraplegia - A guide for			
				st- BromleyChurchill Livingstone.			
				physiotherapy - A, Problem			
				each – Susan Edwards- Churchill			
			Linvigstone.				
			_	Rehabilitation - Urmpherd -			
			Mosby.				
				ical therapy- Gucciona- Mosby			
			,, committe pinjs	1011 01101 up y			
	Other References		8. Motor assessn	ment of Developing Infant - Piper			
			&Darrah - W				
				Sical therapy- Teckling Lippincott			
				cerebral Palsy and motor Delay -			
				ckwell Scientific Publications,			
			London.	,			
				ealth care Challenge - Levis- FA			
			Davis.				
		Phy		iatrics - Shepherd - Butterworth			
			inrnan				
					1		



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	2	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	2	3	3	3	3	3

- 1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

S	chool: School Of	Allied	Health Sciences	Batch: 2020-24		
	rogram: Bachelor		Current Academic Year: 2023-24			
-	hysiotherapy(BP]					
В	ranch: Physiother	rapy	Semester:VII			
1	Course Code		BPT 462			
2	Course Title		BIOSTATISTICS & RESEARCHMETH	ODOLOGY		
3	Credits		4			
4	Contact Hours		4-0-0			
	(L-T-P)					
	Course Type	SEC				
5	Course	1.The	objective of this module is to help the stud	ents understand the basic		
	Objective	princip	oles of research and methods			
		2.Appl	blied to draw inferences from the research findings.			
6	Course	CO1: 1	Understand the importance of research in the	he relative field. Understand the		
	Outcomes basic of		concepts and methods of research.			
		CO2: I	nterpret differences in data distributions via visual displays. Calculate standard			
		normal	scores and resulting probabilities			

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		Beyond Boundaries						
		CO3: Calculate and interpret confidence intervals for population means and proportions. Interpret and explain a p-value. CO4: Perform a two-sample t-test and interpret the results; calculate a 95% confidence						
		interval for the difference in population means.						
		CO5: Select an appropriate test for comparing two populations on a continuous measure,						
		when the two sample t-test is not appropriate.						
		CO6: Understand and interpret results from Analysis of Variance (ANOVA), a technique						
		used to compare means amongst more than two independen						
7	Course	The objective of this module is to help the students	understand the basic					
	Description	principles of research and methods applied to draw	inferences from the					
		researchfindings.						
8	Outline syllabus		CO Mapping					
	Unit 1							
	A	Introduction toResearch methodology:	CO1, CO2					
		Meaning of research, objectives of research,						
		Motivationinresearch, Typesof						
		research&research approaches,						
		Researchmethods vs						
		methodology,Criteriaforgoodresearch,Proble						
		msencounteredbyresearchersinIndia.						
		,						
	В	Researchproblem:Statementofresear	CO1,CO2					
		chproblem.Statementofpurposeando						
		bjectivesof research problem,						
		Necessity of definingtheproblem.						
		, , , ,						
	С	Researchdesign:Meaningofresearchdesign,Need	CO1,CO2					
		forresearchdesign,Featuresforgooddesign,						
		Different research designs, Basicprinciples						
		ofresearchdesign.						
	Unit 2							
	A	SamplingDesign:Criteriaforselectingsamplingpr	CO2,CO3					
		ocedure,Implicationsforsampledesign,						
		stepsinsamplingdesign, characteristics of goods						
		ampledesign, Differenttypesofsampledesign						
		,						
	В	Measurement&scalingtechniques:Measurement	CO1, CO3					
		inresearch- Measurementscales, sources of error						
		inmeasurement, Technique of developing measu						
		rementtools, Meaning of scaling, its						
		classification.Importantscalingtechniques.						
	С	Methodsofdatacollection:collectionof	CO2,CO3					
		primarydata,collectiondatathroughqu	552,555					
		primary data, concentrollatatinoughqu						

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		Beyond Boundaries
	estionnaires&schedules, Difference	
	betweenquestionnaires&schedules.	
Unit 3		
A	Samplingfundamentals,needforsampling&so	CO3,CO4
	mefundamentaldefinitions, importants ampling	
	distributions.	
В	Processing&analysisofdata:Processi	CO1, CO3
	ngoperations, problems in processing,	
	Typesof analysis, Statisticsin	
	research, Measures of central	
	tendency, Dispersion, Asymmetry,	
	relationship.	
С	Testingofhypothesis:Whatishypothesi	CO3,CO4
C	s.Basicconceptsconcerningtestingofhy	003,00
	pothesis,	
	Procedureofhypothesistesting,measuri	
	ngthepowerofhypothesistest, Testsofh	
	ypothesis, limitationsof	
	thetestsofhypothesis	
	Computer technology:IntroductiontoComput	
	technology:IntroductiontoComput	
	ers, computerapplicationinresearch,	
	computers&researcher.	
Unit 4		001.005
A	Introduction:Meaning,definition,characteristicso	CO4,CO5
	fstatistics.,Importanceofthestudyof statistics,	
	Branches of statistics, Statistics and health	
	science including physiotherapy, Parameters	
	and Estimates, Descriptive and inferential statistics,	
	Variablesandtheirtypes, Measurementscales.	
ח	Tabulation of Data: Dasia maintainles of	CO4 CO5
В	Tabulation of Data: Basic principles of	CO4,CO5
	graphical representation, Types of	
	diagrams – histograms,	
	frequencypolygons, smooth frequency	
	polygon, cumulative frequency curve,	
	Normalprobabilitycurve.	
С	Massage of Control Tandages Mand for	CO4 CO5
C	Measure of Central Tendency: Need for	CO4,CO5
	measures of central Tendency, Definition and	
	calculation of mean-ungrouped	

*	SHAR	DA
	UNIVER	

				Beyond Boundaries
	andcalculatio andgrouped.M Comparisono medianandmo	Meaningand		
Unit 5				
A	probabilityofs istribution, the omnormality-Samplingteching-Criteriaforgoofsampling incommunity, ndsamplingde riationandtests	IStandardDistrictandarddistribushormaldistribushorm	CO5,C06	
В	lysisofvariance OVA?Basic principleofAl	ance&covarianc (ANOVA),wha NOVA,ANOV sisofCovarian	CO5,C06	
С	ocols,formats		nts.(Structureofprot entificjournals, -analysis).	CO5,C06
Mode of examination	Theory/Jury/I	Practical/Viva		
Weightage	CA	MTE	ETE	
Distribution	30%	20%	50%	
Text book/s*		rch Methodolo ics in Medi n		
Other References	Carol	rch Methods yn M Hicks Physical Thera		



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	2	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	2	3	3	2	3	3	3	2
CO201.5	3	3	3	3	3	3	3	3	3	3	3
CO201.6	3	2	3	2	3	3	3	3	3	3	3

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

So	chool: School Of Allied	Health Sciences	Batch: 2020-24
P	rogram: Bachelor's Of	Current Academic Year: 2023-24	
Pl	hysiotherapy(BPT)		
B	ranch: Physiotherapy	Semester:VII	
1	Course Code	BPT463	
2	Course Title	HEALTH PROMOTION, FITNESS AN	ND WELLNESS
3	Credits	1	
4	Contact Hours	1-0-0	

SU/SAHS/BPT



	(I T D)		Beyond Boundaries						
	(L-T-P)	ARGG							
	Course Type Course Objective	AECC 1.To provide understanding of personal health risks.							
5	2.To provide understanding of how psychological and emotional health ar connected to overall well being. 3.Health risks, screening, and assessment considering epidemiological principles are emphasized. 4.Risk reduction strategies for primary and secondary prevention, including programs for special populations are covered.								
6	Course Outcomes	CO1:The role of health,nutrition,physical activilife.	ty and wellness in daily						
		CO2:Awareness about how psychological and e	emotional health are						
		connected to our overall well being and health.							
		CO3:Able to identify personal health risks base	d upon current lifestyle						
		choices	1						
		CO4:Identify and implement lifestyle changes t	hat will enhance lifelong						
		health. CO5:Evaluation and adaptation of health behaviors and lifestyle.							
7	Course Description	This course includes discussion on the theories							
'	Course Description	including motivational theory, locus of control, public health initiative, and							
	psycho-Social, spiritual and cultural consideration. Health risks, so								
		and assessment considering epidemiological principles are emphasiz							
		ry prevention, including							
		programs for special populations arecovered.							
8	Outline syllabus		CO Mapping						
	Unit 1	Prevention practice :a holistic perspective for							
		physiotherapy							
	A	Defining Health	CO1, CO2						
		Predictions of Health Care							
	В	Comparing Holistic Medicine and Conventional Medicine	CO1, CO2						
	С	DistinguishingThreeTypesofPreventionPractic e.	CO1, CO2						
	Unit 2	HealthyPeople							
	A	Definition of healthypeople	CO2,CO3						
	В	HealtheducationResources	CO1, CO3						
	С	Physiotherapist role for a healthy community.	CO2,CO3						
	Unit 3	Keyconceptsoffitness							
	A	Defining & Measuring Fitness b.Assessmentof	CO3,CO4						
		Stresswith a Survey	,						
	В	Visualizing Fitness	CO2,C03						
		Screening for Mental andPhysical Fitness							
	С	Body Mass Index calculations.	CO3,C04						



	Beyond Boundaries						
4	Fitnes	sstraining					
	Physi	cal Activities R	eadiness Questionnaire	CO5,CO1			
	Physi	calActivities F	Pyramid	CO5,CO1			
	Exerc	cise Programs					
	Evide	nce-Based Practi	ce.	CO5,CO1			
5	Healt	h, fitness, and	wellness				
	Durir	ng childhood a	ndadolescence	CO4,C05			
	Healt	h, fitness, and	wellnessduringadulthood.	CO4,C05			
	Wom	en'shealth issu	es: focus onpregnancy.				
	Healt	h protection.					
	Preve	ention practice					
	condi	tions Prevention	on practice				
	practi	ice forneuromu					
	Preve	ention practice	forintegumentary disorders				
	Preve	ention practice					
	devel	opmental disal	oilities.				
	Preve	ention practice	forolderadults	CO4,C05			
	Resor	urces tooptimiz	zehealth.				
	Mark	eting health ar					
e of examination			al/Viva				
htage	CA	MTE	ETE				
bution	30	20%	50%				
	%						
book/s*							
References							
	of examination htage bution	Physic Exercition Physic Exercition Physic Exercition Evident Evident Prevention Prevent	Physical Activities R Physical Activities F Exercise Programs Evidence-Based Practi Health, fitness, and During childhood at Health, fitness, and Women'shealth issu Health protection. Prevention practice conditions Prevention forcardiopulmonary practice forneurom Prevention practice Prevention practice developmental disal Prevention practice Resources tooptimiz Marketing health and Theory/Jury/Practice htage CA MTE 30 20% book/s*	Physical Activities Readiness Questionnaire PhysicalActivities Pyramid Exercise Programs Evidence-Based Practice. Health, fitness, and wellness During childhood andadolescence Health, fitness, and wellnessduringadulthood. Women'shealth issues: focus onpregnancy. Health protection. Prevention practice for musculoskeletal conditions Prevention practice forcardiopulmonary conditions Prevention practice forcardiopulmonary conditions Prevention practice forintegumentary disorders Prevention practice forindividuals with developmental disabilities. Prevention practice forolderadults Resources tooptimizehealth. Marketing health and wellness. of examination Theory/Jury/Practical/Viva Thage CA MTE ETE bution 30 20% 50%			

Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	2	3	3	2	3	3	2	3	3	2
CO201.2	3	3	2	3	3	2	3	3	2	3	3
CO201.3	3	3	3	3	2	3	3	2	3	3	2
CO201.4	3	3	3	3	3	2	3	3	2	3	3
CO201.5	3	3	3	3	3	2	3	3	2	3	3

1-Slight (Low) 2-Moderate (Medium)3-Substantial (High)



School:		Batch: 2020-24
	chool of	
	llied	
	ealth	
	ciences	
_	rogram:	Current Academic Year: 2023-24
	achelor's	Current readenic rear, 2025-24
of		
_	hysiother	
ap	•	
	ranch:	Semester:VII
	hysiother	
ar	•	
1	Course	BPT464
	Code	
2	Course	CLINICALCARDIOVASCULAR AND PULMONARY
	Title	
3	Credits	3
4	Contact	3-0-0
	Hours	
	(L-T-P)	
	Course	DSE
	Type	
5	Course	1. The objective of this course is that after lectures, demonstrations, practical and
	Objectiv	clinics the student will be able to identify cardio respiratory dysfunction.
	e	2. The students will be able to set treatment goals and apply their skills in exercise
		therapy, electrotherapy and soft tissue manipulation in clinical situation.
		3. The students will be able to restore cardio respiratory function.
		, · ·
6	Course	The student will be able to:
	Outcome	CO1: Interpretation of different invasive and non invasive diagnostic
	S	investigation to make proper assessment in various respiratory and cardiovascular
		dysfunction
		CO2: Develops the skills to execute different Physiotherapy techniques used in
		treatment of Cardio-respiratory dysfunctions.
		CO3: To select strategies for cure, care & prevention; adopt restorative &
		rehabilitative measures for maximum possible functional independence of a
		patient at home, work place & in community.
		CO4: Be able to execute the effective Physiotherapeutic measures with
		appropriate clinical reasoning to improve pulmonary function.
		CO5: To design & execute effective tailored cardiopulmonary rehabilitation



	l		Beyond Boundaries							
		programme.								
7	Course Descripti on	Following the basic science and clinical science course, this course introduces the Student in cardio-thoracic conditions which commonlycause disability. The objective of this course is that after lectures and demonstration in addition to clinics the student will be able to demonstrate an understanding of Cardio-thoracic								
		Particular effort is made in this course to avoid burdening the detail pertaining to diagnosis which will not contribute to their	conditions causing disability and their management. Particular effort is made in this course to avoid burdening the student with any detail pertaining to diagnosis which will not contribute to their understanding of the limitations imposed by cardiovascular pathology on the functioning of the							
8	Outline sy		CO Mapping							
0	Unit 1	Anatomy and Physiology	CO Mapping							
	A	Respiratory system- Upper respiratory tract, Lower respiratory tract—Trachea, Bronchial tree, Bronchopulmonary segments Respiratory unit, hilum of lung. Muscles of respiration Pleura, intra pleural space, intrapleural pressure, surfactant	CO1, CO2							
	В	Cardio vascular systems Chambers of heart, semi lunar and atriaventricular valves Coronary circulation, conductive system of heart, Cardiac cycle, ECG, Heart sounds Blood pressure, pulse,cardiacoutput.	CO1, CO2							
	С	Mechanics of respiration – Chest wall movements, lung &chest wall compliance V/Q relationship, airwayresistance Respiratory centre,	CO1, CO2							
	Unit 2	Cardio Vascularsystem								
	A	Define, etiology, pathogenesis, clinical features, complications,	CO1, CO3							
	В	Conservative and surgical management of the following conditions- Ischemiaheart disease Myocardial infarction Heart failure Cardiacarrest Rheumatic fever Hypertension Infective endocarditis Myocarditis & cardiomyopathy	CO1, CO3							
	С	CardiovascularDisease:ExaminationoftheCardiovascularSyst emInvestigations: ECG,ExerciseStressTesting,Radiology; Clinical manifestations of Cardiovascular	C O 1							

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		S' 🥟 Beyond Boundaries
	disease;Definition,Etiology,Clinicalfeatures,signs	,
	andsymptoms, complications, management and	
	treatment of following diseases and disorders of the heart:	C
	Pericarditis, Myocarditis, Endocarditis, Rheumatic Fever—	О
	resultinginvalvedisorders,	3
	Ischemic Heart Disease, Coronary Valve Disease, Congenital	
	disorders of the Heart, CardiacArrest;Examination and	
	Investigations of diseases of arteries and veins	
	;Hypertension:Definition,causes,classification,types,assessme	
	nt,investigations and management.	
	DisordersoftheHeart–Definition,Clinical features,diagnosis	
	andchoiceof management for the following disorders:	
	CongenitalHeartdiseases— Acyanotic congenital heart disease	
	& Cyanotic congenital heart disease:Patent Ductus	
	Arteriosus,	
	Coarctation of Aorta, Atrial Septal Defect, Ventricular Septal	
	Defect, Tetraology of Fallot, Transposition of Great Vessels;	
	AcquiredHeart Disease–Mitral Stenosis &	
	Insufficiency, Aortic Stenosis and Insufficiency, Ischemic	
	Heart Disease– Coronary Artery Disease, Cardiac tumors.	
Unit 3	RESPIRATORY SYSTEM	
A	RespiratoryDisease:ExaminationoftheRespiratorySystem-	CO2,CO3
	Investigations: ChestRadiographs, Pulmonary Function Testing,	
	Arterial Blood Gas Analysis; Clinical manifestations of Lung	
	disease	
В	Patterns of lung disease–Chronic Obstructive Lung Disease and	CO2,CO3
	Restrictive Lung Disease; Definition, Etiology, Clinical	
	features, signs and symptoms, complications, management	
	and treatment of following lung diseases: Chronic	
	Bronchitis, Emphysema, Asthma, Bronchiectasis, Cystic	
	Fibrosis,	
	UpperRespiratoryTractInfections,Pneumonia,Tuberculosis,Fung	
	alDiseases, Interstitial Lung Diseases, Diseases of the	
	pleura, diaphragm and chest wall.	
С	Respiratory failure– Definition, types, causes,	CO2,CO3
	clinicalfeatures, diagnosis and management.	
Unit 4	Chest wall disorders	
A	Definition, Clinical features, diagnosis	CO3,CO4
	andchoiceofmanagement for the following disorders-chest wall	
	deformities, chest wall tumors, Spontaneous Pneumothorax, Pleural	
_	Effusion, Empyema Thoracis, Lung abscess, Bronchiectasis.	700.70
В	Tuberculosis, Bronchogenic Carcinoma, Bronchial Adenomas,	CO3,CO4
	Metastatic tumorsof the Lung, tracheal Stenosis, Congenital	
С	tracheomalacia	CO2 CO4
	Neoplasmsofthe trachea, Lesionsof the	CO3,CO4
	Mediastinum. Carcinoma of thefemalebreast.	



				Beyond Bounda				
Unit 5	REGULATION OF RESPIRATI							
A	Neural&chemical regulation ofresp	CO4,CO5						
В	Lung volumesand lung capacities, S		nction	CO3,CO4				
С	Pulmonary circulation, Lung sound	s, cough reflex.		CO3,CO4				
Mode of examinat ion	Theory/Jury/Practical/Viva							
Weighta	CA	MTE	ET	Έ				
ge Distribut ion	30%	%						
Text	1. Cash Textbook of general medic	al and surgical con	ditions					
book/s*								
	 Essential of Cariopulmonary phy Sadowsky W. B. Saunders. Cash textbook of Chest, Heart a Physiotherapists- Downie- J.P. Brothers. The-Brompton Guide to Chest Plester of Cardiopulmonary Physical Thermal Mosby. Cardiovascular/Respiratory physical Mosby ACSM Guidelines for exercise ACSM- Williams and Wilkins. 	 Cash textbook of Chest, Heart and Vascular Disorders for Physiotherapists- Downie- J.P. Brothers. The-Brompton Guide to Chest Physical therapy Cardiopulmonary Physical Therapy- Irwin and Tecknin, Mosby. Cardiovascular/Respiratory physiotherapy- Smith & Ball-Mosby ACSM Guidelines for exercise testing and prescription- 						
Other Referenc es	 8. Chest physiotherapy in intensive care unit- Mackenzie et al - Williams and Wilkins. 9. Cardiopulmonary Physical Therapy- Donna Frown Feltter 10. Understanding Mechanical Ventilation- Hasan 11. Physiotherapy in respiratory Care- Hough 12. Respiratory Physiotherapy- Harden 13. Respiratory Care- Fink & Hunt 							

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	2	3	3	3	3	2	3
		_								_	_
CO2	3	3	3	3	2	3	3	3	3	2	3
~~~		_					_			_	
CO3	3	3	3	3	2	3	3	3	3	2	3



CO4	3	3	3	3	2	3	3	3	3	2	3
CO5	3	3	3	3	2	3	3	3	3	2	3

- 1-Slight (Low) 2-Moderate (Medium)
- 3-Substantial (High)

Scho	ool: School of	Batch: 2020-24						
allie	d health sciences							
Prog	gram: Bachelor's	Current Academic Year:2023-24						
	hysiotherapy							
Bran	nch:Physiotherapy	Semester:VII						
1	Course Code	BPT465						
2	Course Title	Principles of Management, Critique inquiry, case						
		presentation and discussion						
3	Credits	1						
4	Contact Hours	1-0-0						
	(L-T-P)							
	Course Type	SEC						
5	Course Objective	1.To provide knowledge about the management process and its						
		functions.						
		2.To educate about the marketing and total quality management.						
		3.To educate the students about the role of hospital as an organization.						
		4.To educate about the rules of professional conduct, code of ethics						
		and legal ethical issues in physiotherapy and the standards of practice						
		for physiotherapists.						
6	Course Outcomes	CO1:Understand the basic issues of management and administration.						
		CO2:Practice as an informed professional on legal and ethical issues						
		in physiotherapy						
		CO3:To understand the importance of hospital and how it works in						
		different departments. CO4:To understand the basic principle of management and its						
		importance						
		CO5:To understand the role of Physiotherapy and its benefits to the						
		society.						
7	Course	The course will enable the students about the rules of professional						
'	Description	conduct, code of ethics and legal ethical issues in physiotherapy and						
	Description	the standards of practice for physiotherapists. It will help them to						
		practice as an informed professional on management process and its						
L	1	Practice as an informed protessional on management process and its						



					Beyond Boundaries
		functions.			
8	Outline syllabus			CO Mapping	
	Unit 1	INTRODU	CTION		
	A	Introduction	n tomanagen	nent	CO1, CO2
	В	StrategicMa			CO1, CO2
	С	Theories of	managemen	CO1, CO2	
	Unit 2	TOOLS AN PLANNING		IQUES OF	
	A	Defination of	ofPlanning		
	В	Tools of pla	nning	CO1, CO3	
	С		of planning	CO1, CO3	
	Unit 3	CHANGE	AND INNO	VATION	CO1, CO3
	A	Introduction	n to change a	and innovation	CO3,CO4
	В		ing Groupsa		CO3,CO4
	С		Changeand I	CO3,CO4	
	Unit 4	LEADERS	HIP		
	A	Leadership		CO4,CO5	
	В	Component	s of leadersh	CO4,CO5	
	С	Time Mana			CO4,CO5
	Unit 5	COST ANI	D EFFICIE	NCEY	
	A	Introduction	to Cost		CO1,CO5
	В	Introduction	n to efficienc	cy	CO1,CO5
	С	Tools for co	st and effici	iency.	CO1,CO5
	Mode of examination	Theory/Jury	'iva		
	Weightage	CA	MTE	ETE	
	Distribution	30%	20%	50%	
	Text book/s*				
	Other References				

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	2	3
CO201.2	3	3	3	3	3	3	3	3	3	2	3
CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	3	3	3	3	2	3
CO201.5	3	3	3	3	3	3	3	3	3	2	3



- 1-Slight (Low)
- 2-Moderate (Medium)
- 3-Substantial (High)

## Practical

Note: This is to be supported a list of Practical's (As shown in template B2) in the Instructional Plan listing the practical's which also needs to be uploaded onto LMS.

		isting the practical's which also needs to be uploaded onto LIVIS.						
10 0 ==	ool: School Of	Batch: 2020-24						
	ed Health							
Scie	ences							
	gram:	Current Academic Year: 2023-24						
Bac	helor's of							
phy	siotherapy							
Bra	nch:	Semester:VII						
Phy	siotherapy							
1	Course Code	BPT441						
2	Course Title	Physiotherapy in Neurology & psychosomatic disorder(Practical)						
3	Credits	2						
4	Contact	0-0-4						
	Hours							
	(L-T-P)							
	Course Status	CC						
5	Course	1. The objective of this course in that, the student will be able to identify						
	Objective	disability due to neurological dysfunction, set treatment goals and apply						
		their skill.						
		2. Students will understand the role exercise therapy, electrotherapy and						
		recent therapeutic advancement in clinical situation to restore neurological						
		function.						
		3.In addition, the student will be able to diagnose the conditions.						
6	Course	CO1:Be able to develop psychomotor skills to implement timely and						
	Outcomes	appropriate physiotherapy assessment tools/techniques to ensure a holistic						
		approach to patient evaluation in order to prioritize patient's problems.						
		CO2:Be able to select timely physiotherapeutic interventions to reduce						
		morbidity and physiotherapy management strategies, suitable for the						
		patients' problems and indicator conditions based on the best available						
		evidence.						



	1	T	Beyond Boundaries							
		CO3:Implement appropriate neuro-physiotherapeutic approaches, electrotherapeutic modalities, joint and soft tissue mobilizations and ergonomic advice for neuromuscular.  CO4: Be able to develop behavioral skills and humanitarian approach while communicating with patients, relatives, society and co-professionals, to promote individual and community health.								
7	Course Description	The subject serves to integrate the knowledge gained by the students in neurology and neurosurgery with skills to apply these in clinical situations of dysfunction and neurological pathology. The objective of the course is that after the specified hours of lectures and demonstrations the student will be able to identify disabilities due to neurological dysfunction, plan and set treatment goals and apply the skills gained in exercise therapy and electrotherapy in these clinical situations to restore neurological function.								
8	Outline syllabu	is	CO Mapping							
	Unit 1	NEUROLOGICAL ASSESSMENT								
		4. Brief	CO1, CO2							
		5. Demonstration.								
		6. Assessment tools & scales.								
	Unit 2	NEURO PHYSIOLOGICAL TECHNIQUES								
		4. Rood's Sensory motor approach	CO1, CO3							
		5. Sensory Integration Approach								
		6. Brunnstorm Motor Therapy								
		7. Motor Re-learning Programme.								
	Unit 3	Paediatric Neurology								
		4. Brief about paediatric assessment.	CO2,CO4							
		5. Examination								
		6. Management								
	Unit 4	Evaluation & Management								
		4. Brief about assessment in neurological conditions.	CO1,CO4							
		5. Cranial nerve examination, motor and sensory examination.								
		6. Management of neurological conditions.								
	Unit 5	NEUROLOGICAL GAITS & APPLIED								
		YOGA IN NEUROLOGICAL CONDITIONS								
		4. Quantitative & qualitative analysis of gait.	CO3,CO4							



				Beyond Boundaries					
	5.	Pre & post surgica							
		treatment of neuro	ological conditions.						
	6.	Applied yoga in n							
Mode of examination	Practic	al/Viva							
Weightage	CA	MTE	ETE						
Distribution	60%	0%	40%						
Text book/s*									
Text book/s	1.		of neurology for, Dowani - J P Brothers.						
	2		ia - Evaluation &						
	2.	treatment -	Bobath - Oxford						
		ButterworthHeinn							
	3.	Neurological							
		3. Neurological Rehabilitation - Carr&Shepherd - ButterworthHeinrnan							
	4.								
		physiotherapist-	BromleyChurchill						
		Livingstone.							
	5.		siotherapy - A, Problem						
			n – Susan Edwards-						
		Churchill Linvigst							
	6.	_	abilitation - Urmpherd -						
	7	Mosby.	al Albamana Cuasiana						
	/.		al therapy- Gucciona-						
		Mosby							
Other	8.	Motor assessment	of Developing Infant -						
References		Piper &Darrah - V	<u> </u>						
	9.	-	al therapy- Teckling						
		Lippincott	.,						
	10.	Treatment of cer	ebral Palsy and motor						
		Delay - Levitts-	- Blackwell Scientific						
		Publications, Lone							
	11.		care Challenge - Levis-						
	12	FA Davis.							
	12.	•	Pediatrics - Shepherd -						
		Butterworth Heini	rnan						

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	2	3	3	3	3	3	3	3

	UNIV	ARDA VERSITY	7
3	3	2	3
			_

CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	2	3	3	3	3	3

Sc	chool: School Of Allied	Health Sciences	Batch : 2020-24						
	ogram: Bachelor's Of	Current Academic Year: 2023-24							
	nysiotherapy(BPT)								
Bı	ranch: Physiotherapy	Semester:VII							
1	Course Code	BPT442							
2	Course Title	HEALTH PROMOTION, FITNESS AND WELLNESS (PRACTICAL)							
3	Credits	1							
4	Contact Hours (L-T-P)	0-0-2							
	Course Type	PRACTICAL							
5	Course Objective	<ul> <li>1.To provide understanding of personal he</li> <li>2.To provide understanding of how psychoconnected to overall well being.</li> <li>3.Health risks, screening, and assessment principles are emphasized.</li> <li>4.Risk reduction strategies for primary and programs for special populations are covered.</li> </ul>	considering epidemiological d secondary prevention, including						
6	Course Outcomes	CO1:The role of health,nutrition,physical life. CO2:Awareness about how psychological connected to our overall well being and he CO3:Able to identify personal health risks choices CO4:Identify and implement lifestyle charhealth. CO5:Evaluation and adaptation of health be	and emotional health are ealth. s based upon current lifestyle nges that will enhance lifelong						
7	Course Description	This course includes discussion on the the including motivational theory, locus of control psycho-Social, spiritual and cultural consider and assessment considering epidemiologic Risk reduction strategies for primary and sec programs for special populations are covered	rol, public health initiative, and ration. Health risks, screening, cal principles are emphasized. condary prevention, including						



					Beyond Boundaries			
8	Outline s	yllabus			CO Mapping			
	Unit 1		Prevention pract	tice :a holistic perspective for				
			physiotherapy					
i 			Brief.		CO1,CO2			
į Į			Demonstration.					
·			Experimentation	on.				
	Unit 2		HealthyPeople					
1			Brief		CO2,C03			
1	1		Demonstration					
			Experimentation	on				
	Unit 3		Fitness					
!								
1	1		_	g & Measuring Fitness	CO3,C04			
1	1		b.Assess	smentof Stresswith a Survey				
İ	1		5. Visualiz	zing Fitness, Screening for				
1	1			and Physical Fitness				
i I	1			ass Index calculations.				
ļ	1		J	ASS INCOME CONTRACTORS				
·	Unit 4		Fitnesstraining		<u></u>			
ļ				l Activities Readiness	CO4,CO5			
1	1		Question					
1	1		`	al Activities Pyramid				
1	1		·	e Programs, Evidence-Based				
	1		Practice	of Hogianis, Lymonee Basea				
i I	1		Truction					
	Unit 5		Health, fitness,	and wellness				
			Brief		CO1,CO5			
ļ			Demonstration					
			Experimentation					
Mod	de of	Jury/Practic	-	11	<del>-</del>			
	mination	July/Ilucol	All VIVA					
	ightage	CA	MTE	ETE				
	tribution	60%	0%	40%				
Distribution 00/0				1070				

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	2	3
CO201.2	3	3	3	3	3	3	3	3	3	2	3
CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	3	3	3	3	2	3
CO201.5	3	3	3	3	3	3	3	3	3	2	3



allic	ool: School of ed health nces	Batch: 2020-24
Bac	gram: helor's of siotherapy	Current Academic Year: 2023-24
	nch:	Semester:VII
	siotherapy	
1	Course Code	BPT443
2	Course Title	CLINICALCARDIOVASCULAR AND PULMONARY(PRACTICAL)
3	Credits	1
4	Contact Hours (L-T-P)	0-0-2
	Course Status	DSE
5	Course Objective	<ol> <li>The objective of this course is that after lectures, demonstrations, practical and clinics the student will be able to identify cardio respiratory dysfunction.</li> <li>The students will be able to set treatment goals and apply their skills in exercise therapy, electrotherapy and soft tissue manipulation in clinical situation.</li> <li>The students will be able to restore cardio respiratory function.</li> </ol>
6	Course Outcomes	The student will be able to: CO1: Interpretation of different invasive and non invasive diagnostic investigation to make proper assessment in various respiratory and cardiovascular dysfunction CO2: Develops the skills to execute different Physiotherapy techniques used in treatment of Cardio-respiratory dysfunctions. CO3: To select strategies for cure, care & prevention; adopt restorative & rehabilitative measures for maximum possible functional independence of a patient at home, work place & in community. CO4: Be able to execute the effective Physiotherapeutic measures with appropriate clinical reasoning to improve pulmonary function. CO5: To design & execute effective tailored cardiopulmonary rehabilitation programme.
7	Course Description	Following the basic science and clinical science course, this course introduces the Student in cardio-thoracic conditions which commonlycause disability.  The objective of this course is that after lectures and demonstration in



				Beyond Boundaries								
				lent will be able to demon	nstrate an understanding							
		of Cardio-th		. 1.1 .								
				ity and their managemen								
				n this course to avoid bur agnosis which will not co								
		understandi	_	agnosis which will not co	onthoute to their							
				by cardiovascular patho	logy on the functioning							
			of the limitations imposed by cardiovascular pathology on the functioning of the individual.									
8	Outline syllabu				CO Mapping							
	Unit 1	Cardiopuln	nonary Asses	sment								
		1. Brie	f		CO1,C02							
		2. Den	nonstration									
		3. Asse	esment tools a	nd techniques,outcome								
			sures.	1								
	Unit 2	Physiothera										
		1. Brie	f,demonstratio	n	CO2,C03							
		2. Drug	g therapy									
		3. Neo	natal techniqu									
	Unit 3		Rehabilitatio	G02 G04								
		1. Brie		CO3,C04								
			nonstration									
		3. Exp	erimentation									
	Unit 4	Physiothera	any following	lung surgeries								
		1. Brie		Tung surgeries	CO1,CO2							
			abilitation Pro	tocol								
			nniques	10001								
		J. 1001	iniques									
	Unit 5	Abdominal	surgeries &	amputation								
		1. Brie	f		CO1,CO5							
		2. Reha	abilitation Pro	tocol								
		3. Tech	nniques									
	1.1.2	<b>.</b>										
	Mode of	Practical/Vi	va									
	examination	CA	MTE	ЕТЕ								
	Weightage Distribution	CA	MTE									
	Text book/s*	60%	extbook of									
	Text book/s											
		_	al conditions									
			e Jaypee Broth									
			=	onary physical therapy-								
		Hillega	ıss & Sadowsk	y W. B. Saunders.								



		Beyond Boundaries
	3. Cash textbook of Chest, Heart and Vascular	
	Disorders for Physiotherapists- Downie- J.P.	
	Brothers.	
	4. The-Brompton Guide to Chest Physical	
	therapy	
	5. Cardiopulmonary Physical Therapy- Irwin and	
	Tecknin, Mosby.	
	6. Cardiovascular/Respiratory physiotherapy-	
	Smith & Ball- Mosby	
	7. ACSM Guidelines for exercise testing and	
	prescription- ACSM- Williams and Wilkins.	
Other	8. Chest physiotherapy in intensive care unit-	
refrences	Mackenzie et al - Williams and Wilkins.	
	9. Cardiopulmonary Physical Therapy- Donna	
	Frown Feltter	
	10. Understanding Mechanical Ventilation-	
	Hasan	
	11. Physiotherapy in respiratory Care- Hough	
	12. Respiratory Physiotherapy- Harden	
	13. Respiratory Care- Fink & Hunt	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO1	3	3	3	3	2	3	3	3	3	2	3
CO2	3	3	3	3	2	3	3	3	3	2	3
CO3	3	3	3	3	2	3	3	3	3	2	3
CO4	3	3	3	3	2	3	3	3	3	2	3
CO5	3	3	3	3	2	3	3	3	3	2	3

School: School Of Allied	Health Sciences	Batch: 2020-24				
Program: Bachelor's Of	Current Academic Year: 2023-24					
Physiotherapy(BPT)						
<b>Branch: Physiotherapy</b>	Semester:VII					
1 Course Code	BPT444					



2 0	Course Title	CLINICAL EDUCATION	Beyond Boundaries								
	Credits	6									
	Contact Hours	0-0-12									
	L-T-P)	0-0-12									
	· · · · · · · · · · · · · · · · · · ·	CLINICAL PRACTICE									
	Course Type										
5	Course Objective	1. Enable student to develop and apply clinical knowledge for									
		assessment, treatment of the patient.									
		2. Explore relevant intellectual approache	s and practical								
		skills, including those acquired in the ta	ught components, to the								
		choosen topics.									
6	Course Outcomes	CO1:To be able to apply the gained knowledge									
		CO2:Develop critically, strategically and in de									
		arising from the work done within the taught graduate framework and in									
		student's area of academic or professional inter									
		CO3:To be able to utilize the gained knowledg	e practically and in hospital								
		setup.									
		CO4:Present and be able to utilize their rational	lle, approach or								
		methodology, outcomes and conclusions.									
		CO5:To be able to enhance practical knowledg	=								
	G B : ::	approach,academic rigour,independence and se									
7	Course Description	Enable student to develop and apply clinical kr									
		treatment of the patient. Explore relevant intelle									
		practical skills, including those acquired in the	taught components, to the								
8	Outline extlebus	choosen topics.	CO Manning								
0	Outline syllabus	Mysoyloskalatal physiothogony	CO Mapping								
	Unit 1	Musculoskelatal physiotherapy  Brief.	CO1 CO2								
		Demonstration.	CO1,CO2								
		Experimentation.									
	Unit 2										
	UIIIt 2	Cardio pulmonary physiotherapy  Brief	CO2 CO2								
		Demonstration	CO2,C03								
		Experimentation									
	TI24 2	-									
	Unit 3	Electrotherapy									
		Brief	CO3,C04								
		Demonstration									
		able to utilize modalities									
	Unit 4	Exercise Therapy									
	1										



					Seyond Boundaries
			Brief		CO4,CO5
			Demonstratio		
			application		
	Unit 5	Inten	sive care units		
		Brief		CO1,CO5	
		Demo	onstration		
		Asses	ssment and app	lication	
Mod	Mode of examination		actical/Viva		
Weig	Weightage Distribution		MTE	ETE	
		100%	0%	0%	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	2	3
2CO201.2	3	3	3	3	3	3	3	3	3	2	3
CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	3	3	3	3	2	3
CO201.5	3	3	3	3	3	3	3	3	3	2	3

## **SEMESTER VIII**

Sch	ool: School Of	Batch: 2020-24					
Allied Health							
Sciences							
Pro	gram:	Current Academic Year:2023-24					
Bac	chelor's of						
phy	vsiotherapy						
Bra	nch:Physiothe	Semester:VIII					
rap	y						
1	Course Code	BPT466					
2	Course Title	PHYSIOTHERAPY INCARDIO-VASCULARPULMONARY AND					
		INTENSIVE CARE					
3	Credits	5					
4	Contact Hours	5-0-0					
	(L-T-P)						
	Course Type	SEC					
5	Course	1. To provide knowledge in assessing and planning physiotherapy interventions for					
	Objective	various General, Medical and Surgical conditions.					
		2. The studentmust be able to reassess the patient as necessary, to monitor					
		thepatientinregardtotreatment,tomonitor the patient's vital signs.					
		3. Student must know emergency drugs indication and contra-indication, car ein					

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		intensive care unit (ICU) and to provide appropriate interventions to the patient.					
		intensive care unit (ICO) and to provide appropriate interventions to thepatient.					
7	Course Outcomes	CO1: Interpretation of different invasive and non invasive diagnostic investigation to make proper assessment in various respiratory and cardiovascular dysfunction CO2: Develops the skills to execute different Physiotherapy techniques used in treatment of Cardio-respiratory dysfunctions. CO3: To select strategies for cure, care & prevention; adopt restorative & rehabilitative measures for maximum possible functional independence of a patient at home, work place & in community. CO4: Be able to execute the effective Physiotherapeutic measures with appropriate clinical reasoning to improve pulmonary function. CO5: To design & execute effective tailored cardiopulmonary rehabilitation programme.  The subject is designed to provide knowledge in assessing and planning physiotherapy					
,	Description	interventions for various General, Medical and Surgical conditions. The student must be able to reassess the patient as necessary, to monitor the patient in regard to treatment, to monitor the patient's vital signs, student must know emergency drugs indication and contra-indication, care in intensive care unit (ICU) and to provide appropriate interventions to thepatient.					
8	Outline syllabus						
	Unit 1	ASSESSMENT	g				
	A	AnatomicalandPhysiologicaldifferencesbetweentheAdultandPediat riclung.  Bedside assessment of the patient-Adult &Pediatric.  CardiacRehabilitation.,Physiotherapy management following PVD.	CO1, CO2				
	В	InvestigationsandtestsExercisetoleranceTesting— Cardiac&Pulmonary,Radiographs, PFT, ABG, ECG, HematologicalandBiochemicalTests.	CO2, CO3,				
	С	Physiotherapytechniques toincreaselungvolume—controlledmobilization,positioning,breathingexercises, Neurophysiological Facilitation of Respiration,	CO3,C O4				
	Unit 2 Physiotherapy Techniques						
	A	Physiotherapy techniquestodecrease theworkofbreathing — Measurestooptimize the balancebetween energysupply and demand, positioning, Breathingre-education—Breathing control techniques, mechanical aids — IPPB, CPAP, BiPAP. Physiotherapytechniquestoclearsecretions— Hydration, Humidification & Nebulisation, Mobilisationand Breathing exercises, Postural Drainage, Manual techniques—Percussion, Vibration and	CO4,C O5				

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	Beyond Boundaries					
	Shaking, RibSpringing, ACBT, AutogenicDrainage, Mechanical Aids					
	–PEP, Flutter, IPPB, Facilitation of Cough and Huff,					
	NasopharyngealSuctioning.					
В	Drugtherapy– Drugsto	CO1,				
	preventandtreatinflammation,DrugstotreatBronchospasm,Drugs	CO3				
	totreatBreathlessness,Drugstohelpsputumclearance,					
	Drugstoinhibitcoughing, Drugsto improveventilation,					
	Drugstoreducepulmonary hypertension, Drugdeliverydoses, Inhalers					
	and Nebulisers.					
	and reconnects.					
С	NeonatalandPediatricPhysiotherapy—	CO1,				
	Chestphysiotherapyforchildren, Theneonatalunit,	CO2				
	Modifications of chest physiother apyfor	CO2				
	specificneonataldisorders, Emergencies in the neonatal unit.					
	specificheonataidisorders,Emergenciesinthe neonatai unit.					
Unit 3	PULMONARY REHABILITATION					
A	Physiotherapy in Obstructive lung conditions,	CO3,0				
	PhysiotherapyinRestrictive lungconditions.	O4				
В	Management ofbreathlessness.					
С	Pulmonary Rehabilitation.	CO4,0				
		O5				
Unit 4	PHYSIOTHERAPY FOLLOLWING LUNG SURGERIES.					
A	Physiotherapy following Lung surgeries	CO1,				
	Respiratory failure—Oxygen Therapy and Mechanical Ventilation.	CO2				
В	IntroductiontoICU:ICUmonitoring-	CO2,				
	Apparatus, Airways and Tubes used in the ICU-	CO2				
İ	Apparatus, An waysand rubesused inthe ICO-	CO3,				
		CO3,				
	PhysiotherapyintheICU- Common conditions intheICU-	CO3,				
	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung	CO3,				
	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular	CO3,				
	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke	CO3,				
	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal	CO3,				
С	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU.					
С	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal					
Unit 5	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION	CO3,0 O4				
	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION AbdominalSurgeries-	CO3,0 O4				
Unit 5	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION AbdominalSurgeries— ManagementofPulmonaryRestorativeDysfunctionfollowingsurgical	CO3,0 O4				
Unit 5	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION AbdominalSurgeries-	CO3,0 O4				
Unit 5	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION AbdominalSurgeries— ManagementofPulmonaryRestorativeDysfunctionfollowingsurgical	CO3,0 O4				
Unit 5 A	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION AbdominalSurgeries— ManagementofPulmonaryRestorativeDysfunctionfollowingsurgical procedureson Abdomen and Thorax.	CO3,0 O4 CO4,0 O5				
Unit 5 A	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION AbdominalSurgeries— ManagementofPulmonaryRestorativeDysfunctionfollowingsurgical procedureson Abdomen and Thorax.  ManagementofAmputationsfollowingDiabetes,PVD-	CO3,0 O4 CO4,0 O5				
Unit 5 A	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION AbdominalSurgeries— ManagementofPulmonaryRestorativeDysfunctionfollowingsurgical procedureson Abdomen and Thorax.  ManagementofAmputationsfollowingDiabetes,PVD— Prosthesisinamputationsoflower limbsfollowing ulcersand gangrenes.	CO3,0 O4 CO4,0 O5				
Unit 5 A	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION AbdominalSurgeries— ManagementofPulmonaryRestorativeDysfunctionfollowingsurgical procedureson Abdomen and Thorax.  ManagementofAmputationsfollowingDiabetes,PVD— Prosthesisinamputationsoflower limbsfollowing ulcersand gangrenes.  Home program and education offamilymembersin patient care.	CO3,0 O4 CO4,0 O5 CO1,				
Unit 5 A	PhysiotherapyintheICU— Common conditions intheICU— Tetanus,HeadInjury,Lung Disease,PulmonaryOedema,MultipleOrganFailure,Neuromuscular Disease,Smoke Inhalation,Poisoning,Aspiration,NearDrowning,ARDS,Shock;Deal ing withanEmergency Situation in the ICU. Physiotherapy management following cardiac surgeries.  ABDOMINAL SURGERIES & AMPUTATION AbdominalSurgeries— ManagementofPulmonaryRestorativeDysfunctionfollowingsurgical procedureson Abdomen and Thorax.  ManagementofAmputationsfollowingDiabetes,PVD— Prosthesisinamputationsoflower limbsfollowing ulcersand gangrenes.	CO3,0 O4 CO4,0 O5 CO1, CO3				



			Beyond B					
Mode of xamination	Theory/jury/Practical	/Viva						
Weightage	CA	MTE	ETE					
Distribution	30%	20%	50%					
Text book/s*	1. Cash Textbook of	f general medical	and surgical conditions for					
	physiotherapists- Donnie Jaypee Brothers.							
	2. Essential of Car	2. Essential of Cariopulmonary physical therapy- Hillegass & Sadowsky W. B. Saunders.						
	Sadowsky W. B							
	3. Cash textbook o	3. Cash textbook of Chest, Heart and Vascular Disorders for						
	Physiotherapists- Downie- J.P.							
	Brothers.							
	4. The-Brompton Guide to Chest Physical therapy							
	5. Cardiopulmonary Physical Therapy- Irwin and Tecknin, Mosby.							
	6. Cardiovascular/Respiratory physiotherapy- Smith & Ball-							
	Mosby							
	7. ACSM Guidelines for exercise testing and prescription- ACSM-							
	Williams and Wilkins.							
	8. Chest physiotherapy in intensive care unit- Mackenzie et al -							
	Williams and W	Williams and Wilkins.						
	9. Cardiopulmonary Physical Therapy- Donna Frown Feltter							
	10. Understanding Mechanical Ventilation- Hasan							
	11. Physiotherapy in	11. Physiotherapy in respiratory Care- Hough						
	12. Respiratory Physiotherapy- Harden							
	13. Respiratory Care- Fink & Hunt							

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3

1-Slight (Low) 2-Moderate (Medium)3-Substantial (High)

## Practical

Note: This is to be supported a list of Practical's (As shown in template B2) in the Instructional Plan listing the practical's which also needs to be uploaded onto LMS.



Sob	ool: School of	Batch: 2020-24	Beyond Boundaries				
allied health		Datch. 2020-24					
	ences						
	gram:	Current Academic Year: 2023-24					
	chelor's of	Current Academic Tear. 2025-24					
	siotherapy	Semester:VIII					
	nch:						
	siotherapy	Semester VIII					
1	Course Code	BPT444					
2	Course Title	PHYSIOTHERAPY INCARDIO-VASCULARPULMONARY AND					
1		INTENSIVE CARE(PRACTICAL)					
3	Credits	2					
4	Contact	0-0-4					
	Hours						
	(L-T-P)						
	Course Status	Compulsory/Elective					
5	Course	1. To provide knowledge in assessing and planning physic	otherapy interventions for				
	Objective	various General, Medical and Surgical conditions.					
		2. The student must be able to reassess the patient as necessary, to monitor					
		thepatientinregardtotreatment,tomonitor the patient's vital signs.					
		3. Student must know emergency drugs indication and					
		intensive care unit (ICU) and to provide appropriate int	terventions to thepatient.				
6	Course	CO1: Interpretation of different invasive and	non invasive diagnostic				
	Outcomes	investigation to make proper assessment in various respiratory and					
		cardiovascular dysfunction					
		CO2: Develops the skills to execute different Physiotherapy techniques					
		used in treatment of Cardio-respiratory dysfunction	ns.				
		CO3: To select strategies for cure, care & preven	tion; adopt restorative &				
		rehabilitative measures for maximum possible functional independence of					
		a patient at home, work place & in community.					
		CO4: Be able to execute the effective Physiotherapeutic measures with					
		appropriate clinical reasoning to improve pulmonary function.					
		CO5: To design & execute effective tailored cardiopulmonary					
		rehabilitation programme.					
7	Course	The subject is designed to provide knowledge in assessing					
	Description interventions for various General, Medical and Surgical conditions. The student						
		be able to reassess the patient as necessary, to monitor the patient's vital signs, student n					
		treatment, to monitor the patient's vital signs, student must know emergency drugs indication and contra-indication, care in intensive care unit (ICU) and to					
		provide appropriate interventions to thepatient.	c care anni (100) ana to				
8	Outline evileby		CO Monning				
O	Outline syllabu Unit 1	Cardiopulmonary Assessment	CO Mapping				
	Omt 1	4. Brief	CO1, CO2				
			001, 002				
		5. Demonstration					

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	·	Beyond Boundaries
	6. Assesment tools and techniques,outcome	
	measures.	
TI 2	District the second sec	
Unit 2	Physiotherapy Techniques 4. Brief,demonstration	CO2 CO4
		CO3,CO4
	5. Drug therapy	
	6. Neonatal techniques	
Unit 3	Pulmonary Rehabilitation	
	4. Brief	CO4,CO5
	5. Demonstration	
	6. Experimentation	
Unit 4	Physiotherapy following lung surgeries	
	4. Brief	CO1, CO2
	5. Rehabilitation Protocol	
	6. Techniques	
Unit 5	Abdominal surgeries & amputation	
Omt 5	4. Brief	CO3,CO5
	5. Rehabilitation Protocol	003,003
	6. Techniques	
Mode of	Practical/Viva	
examination		
Weightage	CA MTE ETE	
Distribution	60% 0% 40%	
Text book/s*	-1. Cash Textbook of general medical and	
	surgical conditions for physiotherapists-	
	Donnie Jaypee Brothers.	
	2. Essential of Cariopulmonary physical therapy-	
	Hillegass & Sadowsky W. B. Saunders.	
	3. Cash textbook of Chest, Heart and Vascular	
	Disorders for Physiotherapists- Downie- J.P.	
	Brothers.	
	4. The-Brompton Guide to Chest Physical	
	therapy	
	5. Cardiopulmonary Physical Therapy- Irwin and	
	Tecknin, Mosby.	
	6. Cardiovascular/Respiratory physiotherapy-	
	Smith & Ball- Mosby	
	7. ACSM Guidelines for exercise testing and	
	prescription- ACSM- Williams and Wilkins.	



	Seyond Boundaries
8. Chest physiotherapy in intensive care unit-	
Mackenzie et al - Williams and Wilkins.	
9. Cardiopulmonary Physical Therapy- Donna	
Frown Feltter	
10. Understanding Mechanical Ventilation-	
Hasan	
11. Physiotherapy in respiratory Care- Hough	
12. Respiratory Physiotherapy- Harden	
13. Respiratory Care- Fink & Hunt	

Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3

1-Slight (Low) 2-Moderate (Medium)3-Substantial (High)

al	chool: School of llied health ciences	Batch : 2020-24	
	rogram:	Current Academic Year: 2023-24	
	achelor's of hysiotherapy		
В	ranch:	Semester:VIII	
P	hysiotherapy		
1	Course Code	BPT467	
2	Course Title	Community Physiotherapy	
3	Credits	4	
4	Contact Hours	4-0-0	
	(L-T-P)		
	Course Type	AECC	
5	Course Objective	1.Students will be able apply knowledge in community medicine and other areas with	1
		skills to apply these in clinical situation.	
		2.Students will be able to identify rehabilitation methods to prevent disabilities and	



		Seyond Boundaries	
	 	dysfunctions due to various disease conditions.	
	 	3.To plan treatment goals	
		and applytheskills gained in rehabilitating and restoring functions.	
6	Course Outcomes	CO1:To understand the team approach in rehabilitation of disability.	
	 	To understand the role of community and other institutions for rehabilitation.	
	 	CO2:Identification of residual potentials in patients with partial or total disability	
	, 	(temporary or permanent). Formulation of appropriate goals (long & short term) in	
	 	treatment & rehabilitation will be discussed.	
	, 	CO3:Application of various orthosis, prosthesis, wheelchairs and other assistive dev	vices
	, 	for different medical and Physical conditions.	
	 	CO4:To understand the importance of administration in setting of department.	
	, 	CO5:To understand the organizational structure of a department or an organization.	
7	Course	The subject serves to integrate the knowledge gained by the students in community	
	Description	medicine and other areas with skills to apply these in	
	1	clinical situations of health and disease and its prevention. The objective of the cours	se is
	, 	that after the specified hours of lectures and demonstrations the student will be able	
	, 	identify rehabilitation methods to prevent disabilities and dysfunctions duetovarious	
	, 	disease conditions and plan and set treatment goals	
	 	and applytheskills gained in rehabilitating and restoring functions.	
8	Outline syllabus	and appropriate to the second	CO
	l	·	Maj
	l	·	ping
$\vdash$	Unit 1	Community Rehabilitation	Y 0
	A	Defination and definition of Community, Multiplicity of Communities. The	CO
		Community based approach, Community Entry strategies.	CO
	В	Types and CBR and Community development, Community initiated versus	CO
	l	community oriented programme.	CO
	С	Brief description and Community participation and mobilization	CO
	l .	Diei description and community participation and moonization	CO
$\vdash$	Unit 2	Introduction and Principles to Community Based Rehabilitation	
	A	Definition, Historical review, Concept of CBR, Need for CBRW.H.O.'s policies-	CO
	A	about rural health care- concept of primary/tertiary health centers-district hospitals	CO:
	, 	etc-Role of P.TPrinciples of a team work of Medical person/P.T./O.T.	CO.
	D	Difference between Institution based and Community based Rehabilitation and	CO
	В		CO:
	, 	Audiologist/speech therapist/P.&O./vocational guide in C.B.R of physically	CO.
	, 	handicapped person Agencies involved in rehabilitation of physical handicapped-	
		Legislation for physically handicapped  Objectives of CRR, Soore of CRR, Marrhage of CRR toors, Models of CRR, and	00
	С	Objectives of CBR, Scope of CBR, Members of CBR team, Models of CBR and	CO
	, 	Concept of multi purpose health worker. Role of family members in the	CO
$\vdash$	TT .*4 @	rehabilitation of a physically handicapped.	$\blacksquare$
	Unit 3	Planning and management of CBR Programmes, Disability and	
		DisabilityEvaluation  CDD Description	
	A	Planning and management of CBR Programmes, CBR Programmed planning and	CO
	 	management,OwnershipandGovernance,DecentralizationandCBR,Managementof	CO
	 	CBR,	
	<u> </u>	Programmedsustainability, Communication and Coordination,	

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	Seyond Boundaries	
	Communityparticipation, mobilization and awareness,	
	CBRprogrammeinfluenceon promoting and developing public policies.	
В	Disability: Definition of Impairment, Handicap and Disability, Difference between	CO
	impairment, handicapand disability, Causes of disability, Types of disability, Prevention	CO
	ofdisability, Disability indeveloped countries, Disability indeveloping	
	countries.DisabilitySurveys:Demography.Screening:Earlydetection	
	ofdisabilities anddevelopmentaldisorders, Prevention ofdisabilities-	
	Typesand levels.	
С	DisabilityEvaluation:Introduction,What,WhyandHowtoevaluate,Quantitativeversu	CO
	s Qualitativedata, Usesof evaluation findings.	CC
Unit 4	RoleofGovernmentinCBR	
A	RoleofGovernmentinCBR:Laws,Policies,Programmes,HumanRightsPolicy,Present	CC
	rehabilitation services, Legal aspectsof rehabilitation.	CC
	RoleofSocialworkinCBR:Definitionofsocialwork,Methodsofsocialwork,Historyof	
	social work, Role of socialworker in rehabilitation.	
	RoleofvoluntaryOrganizationsinCBR:CharitableOrganizations,Voluntaryhealthage	
	ncies- National level and International NGO's, Multilateral and Bilateral agencies.	
В	National DistrictLevel Rehabilitation Programme: Primary rehabilitation unit,	CC
	Regional trainingcenter, District rehabilitation center, Primary Health	CC
	center, Villagerehabilitation worker, Anganwadi worker	
С	InternationalHealthOrganizations:WHO,UNICEF,UNDP,	CC
	UNFPA,FAO,ILO,Worldbank,USAID, SIDA, DANIDA, Rockfeller, Ford	CC
	foundation, CARE, RED CROSS	
Unit 5	Role of Physiotherapy in CBR and Role of Physiotherapy in CBR	
A	1. RoleofPhysiotherapyinCBR:Screeningfordisabilities,Prescribingexerc	CC
	iseprogramme, Prescribing and devising	CC
	lowcostlocallyavailableassisstiveaids, Modifications physical and	
	architecturalbarriers for	
	disabled, Disability prevention, Strategies to improve ADL,	
	Rehabilitation programmesforvariousneuro-musculoskeletal	
	andcardiothoracicdisabilities.	
	2. Screeningandrehabilitationofpaediatricdisordersinthecommunity:Earl	
	ydetectionofhigh riskbabies, Maternalnutrition and education,	
	Rehabilitation of Cerebral Palsy, Polio, Downs	
	Syndrome, Muscular Dystrophies etc., Prevention and rehabilitation of	
	mentalretardation and	
	Behaviouraldisorders, Immunization programmes, Early intervention in	
	highriskbabies, Genetic counselling.	
В	3. Extension services and mobileunits: Introduction, Need, Camp	CC
	approach.	CC
	4. Vocationaltraininginrehabilitation:Introduction,Need,Vocationalevalu	
	ation, Vocational rehabilitation services.	
	5. Geriatrics-PhysiologyofAging/degenerativechanges-	
	Musculoskeletal/Neuromotor/cardio	
	-respiratory-/Metabolic, Endocrine, Cognitive,Immunesystems. Roleof	
	, , , , , , , , , , , , , , , , , , , ,	



	Physio Therapyin Hospitalbasedcare, Half-wayhomes, Residential homes, Mealson wheelsetc. Homefor the aged, Institution based Geriatric Rehabilitation. Fewconditions: - Alzheimer's disease, Dementia, Parkinson's Disease, Incontinence, Iatrogenic drug reactions, etc. Ethics of Geriatric Rehabilitation.						
С	radiation, Ion action, ingestice. Mechanicoveruse/feevaluatioi. See ii. ir iii. cee iv. Cee mechanicoveruse/feevaluationicoveruse/fe	its-e.gHeat/cold, light, noi izingradiation, b. Chemical on, calhazards- atigueinjuriesduetoergonor n ofwork place-mechanical edentary table work—execut appropriate seating arrange onstant standing- watchman over-exertion in laborers,-con anagement. gicalhazards-e.g es,monotonicity&dissatisfact apletionwithquality,Roleoff nent- relaxation modes.	ise, Vibration, U.V. lagents-Inhalation, local micalteration&ergonomic listresses per hierarchy— tives, clerk, ement- vehicle drivers n-Defense forces, surgeons, ommon accidents —Role	CO4 CO:			
Mode of examination	Theory/Jury/Practical/Viva	,					
Weightage	CA	MTE	ETE				
Distribution	30%	20%	50%				
Text book/s*	-Physical rehabilitation-asse -Krusen's handbook of PMF -Orthotics in Rehabilitation- Davis	R- Kottke & lehman-W.B S	aunders				

Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3

					SH UNI Beyon	ARDA VERSIT	Y S	
3	3	3	3	3	3	3	3	

1-Slight (Low)

CO201.5

2-Moderate (Medium)

3

3

3-Substantial (High)

## **Practical**

Note: This is to be supported a list of Practical's (As shown in template B2) in the Instructional Plan listing the practical's which also needs to be uploaded onto LMS.

School: School of		Batch: 2020-24
allied health		
	ences	
Pro	gram:	Current Academic Year: 2023-24
	chelor's of	
phy	siotherapy	
_	nch:	Semester: VIII
Phy	siotherapy	
1	Course Code	BPT445
2	Course Title	COMMUNITY PHYSIOTHERAPY(PRACTICAL)
3	Credits	2
4	Contact	0-0-4
	Hours	
	(L-T-P)	
	Course Status	Compulsory/Elective
5	Course	1.Students will be able apply knowledge in community medicine and other
	Objective	areas with skills to apply these in clinical situation.
		2.Students will be able to identify rehabilitation methods to prevent
		disabilities and dysfunctions due to various disease conditions.
		3.To plan treatment goals
		and applytheskills gained in rehabilitating and restoring functions.
6	Course	CO1:To understand the team approach in rehabilitation of disability.
	Outcomes	To understand the role of community and other institutions for
		rehabilitation.
		CO2:Identification of residual potentials in patients with partial or total
		disability (temporary or permanent). Formulation of appropriate goals

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		Beyond Boundaries							
				eatment & rehabilitation v	will be discussed.				
		CO3:Applic	CO3:Application of various orthosis, prosthesis, wheelchairs and other						
		assistive de	assistive devices for different medical and Physical conditions.						
		CO4:To understand the importance of administration in setting of							
		department							
		-		organizational structure of	f a department or an				
		organization			1				
7	Course			egrate the knowledge gair	ned by the students in				
	Description			d other areas with skills to	•				
	Bescription	•		Ith and disease and its pre	11 0				
				e specified hours of lectur	•				
				o identify rehabilitation n					
				ions duetovarious disease					
		set treatmen	-	ions ductovarious disease	conditions and plan and				
			•	d in robabilitating and roa	toring functions				
0	Ovetier a scullaku		ieskins game	d in rehabilitating and res					
8	Outline syllabu		e		CO Mapping				
	Unit 1		on of commu	inity physiotherapy	G01 G02				
		-Brief	.•		CO1,CO2				
		-Demonstra							
		-Communit							
	Unit 2		ent and healt	t <b>h</b>					
		-Brief			CO2,C03				
		-Demonstra							
		-Communit	y visit						
	Unit 3	Disability a	and disabilit	y evaluation					
		-Brief			CO3,C04				
		-Institutiona	al visit to PM	IR department					
		-Demonstra	ition						
	Unit 4	Health pro	blems & vul	nerable groups					
		-brief			CO2,CO4				
		-in rural are	as to conduc	t survey of population					
				services & treatments.					
		-demonstra							
	Unit 5	Orthotics &	& Prosthetic	S					
		-brief		-	CO4,CO5				
		-demonstra	tion		.,				
		-Experimen							
	Mode of	Jury/Practic							
	examination	sar y/1 raction	an viva						
	Weightage	CA	MTE	ETE					
	Distribution	60%	0%	40%					
	Text book/s*								
	1 CXL DOOK/8"	Dr. J.E Parl	-	and social medicine by					
				aggaggmant or tractmant					
		_	maomitation-a	assessment & treatment-					
		Sullivan	CT	PMR- Kottke & lehman-					
		-Krusen's h	anabook of I						



	W.B Saunders -Orthotics in Rehabilitation-splinting the limb & body- Mckee and Morgan- FA Davis	

Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3

-		D / L 2020 24
	chool:	Batch: 2020-24
	rogram:	Current Academic Year: 2023-24
B	ranch:	Semester:
1	Course	BPT468
	Code	
2	Course	CLINICALREASONING AND EVIDENCE BASED
	Title	PHYSIOTHERAPYPRACTICE
3	Credits	1
4	Contact	1-0-0
	Hours	
	(L-T-P)	
	Course	DSE
	Type	
5	Course	1. To understand the need of evidence based practice.
	Objectiv	2.To apply evidence based practice in clinical setup.
	e	3.To know recent trend and advanced treatment in physiotherapy.
		4.To know the need of evidence based practice
6	Course	CO1:The students will be able to find recent trends in physiotherapy.
	Outcom	CO2:The students will be able to apply recent techniques & trends in assessment
	es	and treatment protocols.
		CO3:The students will be able to find researches and technology to advance the
		studies.
		CO4:The students will be able to upgrade themselves with recent advancements
		and develop clinical reasoning.
7	Course	The course is related to clinical reasoning and evidence based practice. It utilizes



		Beyond I	Boundaries						
	Descript	evidence based practice in physiotherapy.							
8	ion Outline sy	yllohus	СО						
0	Outilité sy	ynaous	Mappi						
			ng						
	Unit 1	Introduction to evidence based practice							
	A	Introduction to Evidence Based Practice: Definitions, Evidence Based							
		Practice	CO1, CO2						
	В	Concepts of Evidence based Physiotherapy: Awareness, Consultation,	CO1,						
		Judgement, and Creativity	CO2						
	С	DevelopmentofEvidencebasedknowledge,TheIndividualProfessionalwith	CO1,						
		in adiscipline, and Professionalsacrossdisciplines	CO2						
	Unit 2	Evidence based practitioners							
	A	EvidenceBasedPractitioner:TheReflectivePractitioner,TheEModel,Usingt	CO1,						
		heEModel	CO3						
	В	FindingtheEvidence:MeasuringoutcomesinEvidenceBa	CO1,						
		sedPractice,MeasuringHealth	CO3						
		Outcomes, Measuring clinical outcomes, Inferential sta							
		tisticsandCausation							
	С	SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsour	CO1,						
		cesofevidence, ElectronicBibliographic databasesandWorld	CO3						
		WideWeb,Conductingaliteraturesearch.Step by- step							
		searchforevidence							
	Unit 3	Assessing the evidence							
	A	AssessingtheEvidence:Evaluatingtheevidence;Levelsofe	CO2,C						
		videnceinresearchusing quantitative methods, Levels of	O3						
		evidence classification system, Outcome Measurement,							
	В	Biostatistics, The critical reviewof research using	CO2,C						
		qualitative methods.	O3						
		1**************************************							
	С	Systematically reviewing the evidence: Stages of systematic reviews,	CO2,C						
	C	Meta-analysis, The Cochrane collaboration	03						
	Unit 4	Economic evaluation of evidence							
	A	Economicevaluationoftheevidence: Typesofeconomicevaluation, conducti	CO1,C						
		ngeconomic evaluation, criticallyreviewingeconomicevaluation,	O3						
		locatingeconomicevaluation in the literature							
	В	Usingtheevidence:Buildingevidenceinpractice;CriticallyA	CO1,C						
		ppraisedTopics(CATs),CAT format, Using CATs,	O3						
		DrawbacksofCATs							
	С	Practiceguidelines, algorithms, and clinical pathways: Recent trends in healthc	CO1,C						
		are,Clinical	O3						



PracticeGuidelines(CPG),Algorithms,Clinicalpathways,Legalimplication s inclinical pathways andCPG, Comparison ofCPGs, Algorithmsand Clinical Pathways  Unit 5 Communicating evidence to clients, managers and funders  A Communicating evidence, Evidencebased communication in the face of uncertainty; Evidence based communication opportunitiesin everyday practice  B Researchdisseminationandtransferofknowledge:Modelsofresearchtransfer ,Concrete research transfer strategies  C Evidencebased policy  Mode of examina tion  Weighta ge Distribu tion  Text 1. APTA journal book/s*  1. APTA journal of physiotherapy		S Beyond Boundaries						
A Communicating evidenceto clients, managers and funders: Effectively communicating evidence, Evidencebased communication in the face of uncertainty; Evidence based communication opportunities everyday practice  B Researchdisseminationandtransferofknowledge:Modelsofresearchtransfer ,Concrete research transfer strategies  C Evidencebased policy  CO3, O4  Mode of examina tion  Weighta GA MTE ETE  ge J0% 50%  Distribu tion  Text 1. APTA journal		s inclinical pathways a	s inclinical pathways and CPG, Comparison of CPGs, Algorithms and					
A Communicating evidenceto clients, managers and funders: Effectively communicating evidence, Evidencebased communication in the face of uncertainty; Evidence based communication opportunities everyday practice  B Researchdisseminationandtransferofknowledge:Modelsofresearchtransfer ,Concrete research transfer strategies  C Evidencebased policy  CO3,  O4  Mode of examina tion  Weighta ge 30% 20% 50%  Distribu tion  Text 1. APTA journal	Unit 5	Communicating evidence	ence to clients, manag	ers and funders				
C Evidencebased policy CO3, O4  Mode of examina tion  Weighta CA MTE ETE ge 30% 20% 50%  Distribu tion  Text 1. APTA journal	A	A Communicating evidenceto clients, managers and funders: Effectively communicating evidence, Evidencebased communication in the face of uncertainty; Evidence based communication opportunities in everyday						
Mode of examina tion  Weighta GA MTE ETE  ge 30% 50%  Distribu tion  Text 1. APTA journal	В			ge:Modelsofresearchtransfer	CO3,C O4			
examina tion  Weighta CA MTE ETE ge 30% 20% 50%  Distribu tion  Text 1. APTA journal	С	Evidencebased policy						
ge 30% 20% 50%  Distribu tion 1. APTA journal	examina	Theory/Jury						
ge 30% 20% 50%  Distribu tion 1. APTA journal	Weighta	CA	MTE	ETE				
	ge Distribu	30%	20%	50%				
			ournal of physiotherapy					

Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3
CO201.6	3	3	3	3	3	3	3	3	3	3	3

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)

## **PRACTICAL**



Sc	chool:	Batch: 2020-24	
Pr	rogram:	Current Academic Year: 2023-24	
Bı	ranch:	Semester:VIII	
1	Course	BPT446	
	Code		
2	Course	CLINICALREASONING AND EVIDENCE BASED	
	Title	PHYSIOTHERAPYPRACTICE	
3	Credits	1	
4	Contact	0-0-2	
	Hours		
	(L-T-P)		
	Course	Practical	
	Type		
5	Course	1. To understand the need of evidence based practice.	
	Objectiv	2.To apply evidence based practice in clinical setup.	
	e	3.To know recent trend and advanced treatment in physiotherapy.	
		4.To know the need of evidence based practice	
6	Course	CO1:The students will be able to find recent trends in physiotherapy.	
U	Outcom	CO2: The students will be able to apply recent techniques & trends in asses	cment
	es	and treatment protocols.	SHICH
	CS	CO3:The students will be able to find researches and technology to advance	e the
		studies.	e the
		CO4:The students will be able to upgrade themselves with recent advancer	nents
		and develop clinical reasoning.	
7	Course	The course is related to clinical reasoning and evidence based practice. It u	tilizes
	Descript	evidence based practice in physiotherapy.	
	ion		
8	Outline sy	/llabus	CO
			Mappi
			ng
	Unit 1	Introduction to evidence based practice	
		Introduction to Evidence Based Practice: Definitions, Evidence Based	CO1,
		Practice	CO2
		Concepts of Evidence based Physiotherapy: Awareness, Consultation,	
		Judgement, and Creativity	
		Development of Evidence based knowledge, The Individual Professional with	
	TI:4 2	in adiscipline, and Professionalsacrossdisciplines	
	Unit 2	<b>Evidence based practitioners</b> EvidenceBasedPractitioner:TheReflectivePractitioner,TheEModel,Usingt	CO1,
		heEModel	CO1,
			1 003
		FindingtheEvidence:MeasuringoutcomesinEvidenceBa	
		sedPractice,MeasuringHealth	
		Outcomes, Measuring clinical outcomes, Inferential sta	

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		tisticsandCausation		Beyond B	oundaries		
		SearchingfortheEvidence:	AskingQuestions Identifyir	ngdifferentsour			
			•	pasesandWorld			
			<b>U</b> 1				
		WideWeb,Conductingaliter	aturesearchStep by	y- step			
		searchforevidence					
	Unit 3	Assessing the evidence					
	Omt 3	Assessing the evidence: Ev	aluatingtheevidence:Leve	alsofa	CO2,C		
		videnceinresearchusing qu	=		03		
		0 1			03		
		evidence classification systematics and the systematics are systematically as a systematic and the systematics are systematically as a systematic and the systematical areas and the systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematically areas are systematically as a systematical areas are systematically as a systematical areas are systematically as a systematical areas are systematical areas are systematically as a systematical areas are systematical areas are systematical areas are systematical areas are systematical areas are systematical areas are systematical areas are systematical areas are		ll,			
		Biostatistics, The critical rev	newof research using				
		qualitative methods.					
		Systematically reviewingt	he evidence: Stages of sy	stematic reviews			
		Meta-analysis, The Cochra	2	stematic reviews,			
	Unit 4	<b>Economic evaluation of</b>					
		Economic evaluation of the		icevaluation.conducti	CO1,C		
		ngeconomic evaluation, cr			03		
		locatingeconomicevaluation		,	03		
		Usingtheevidence:Buildingev		A			
		ppraisedTopics(CATs),CAT	<u> </u>				
	DrawbacksofCATs						
		Practiceguidelines, algorith	nms,andclinicalpathways:	Recenttrendsinhealthc	1		
		are,Clinical	, 1				
		PracticeGuidelines(CPG),Algorithms,Clinicalpathways,Legalimplication					
		s inclinical pathways and					
		Clinical Pathways	•				
	Unit 5 Communicating evidence to clients, managers and funders						
		Communicating evidencet	o clients, managers and f	unders: Effectively	CO3,C		
		communicating evidence,	Evidencebased communi	cation in the face of	O4		
		uncertainty; Evidence base	ed communication opport	tunitiesin everyday			
	practice  Researchdisseminationandtransferofknowledge:Modelsofresearchtransfer ,Concrete research transfer strategies						
		Evidencebased policy					
	Mode of	Practical/viva					
	examina						
	tion			T			
	Weighta		MTE	ETE			
	ge	60%	0%	40%			
	Distribu						
	tion	2 APEL: 1					
	Text	3. APTA journal					
	book/s*						



	4. International journal of physiotherapy	

Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3
CO201.6	3	3	3	3	3	3	3	3	3	3	3

- 1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

Sc	hool:	Batch: 2020-24
ı	chool of	
Al	lied	
H	ealth	
Sc	iences	
Pı	ogram:	Current Academic Year: 2023-24
Ba	achelor's	
of		
pł	ysiothera	
py		
	ranch:	Semester:VIII
Pł	ysiothera	
py	7	
1	Course	BPT469
	Code	
2	Course	ADMINISTRATION & TEACHING SKILLS
	Title	
3	Credits	1

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4			Boundaries						
-	Contact	1-0-0							
	Hours								
	(L-T-P)								
	Course	CC							
	Type								
5	Course	1 To understand management, administration and organization							
J									
	Objective 2.To understand ethics of physiotherapist and various theories of management								
		and administration. To educate the students about concept of teaching an	10						
		learning.							
		3.To educate them to learn about philosophies of education							
		4.To provide knowledge about curriculum, techniques and methods of te	eaching.						
6	Course	CO1:Understand the role of administration and management.							
	Outcomes	CO2:To know the use of various teaching aids.							
		CO3:To know the role of employee and ethics of physiotherapist.							
		CO4:Learn method and teachniques of teaching.							
		CO5:To understand financial issues faced in an organization and to understand							
		the rules of an organization.							
7	Course	This course presents knowledge and application of different teaching							
′	Descriptio	methodology to the students. The course begins with core topics of concepts of							
	-	1	-						
	n	teaching and learning. The course also covers administration and managed and make of places of the project in a property in the project in th	gement						
		and role of physiotherapist in organization.							
8	Outline syl	lo base							
	-	labus	CO						
	-	laous	CO Mappin						
	-	labus	Mappin						
	Unit 1								
	Unit 1	Introduction to administration	Mappin g						
	Unit 1		Mappin g CO1,						
	A	Introduction to administration  Branchesofadministration, Natureand scope of administration.	Mappin g CO1, CO2						
		Introduction to administration	Mappin g  CO1, CO2 CO1,						
	A B	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.	Mappin g  CO1, CO2 CO1, CO2						
	A	Introduction to administration  Branchesofadministration, Natureand scope of administration.	Mappin g  CO1, CO2 CO1, CO2 CO1,						
	A B C	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.	Mappin g  CO1, CO2 CO1, CO2						
	A B	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management	Mappin g  CO1, CO2 CO1, CO2 CO1,						
	A B C	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.	Mappin g  CO1, CO2 CO1, CO2 CO1,						
	A B C Unit 2	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management	Mappin g  CO1, CO2 CO1, CO2 CO1, CO2						
	A B C Unit 2	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management  Principlesof hospital administration and itsapplicationsto physiotherapy.	Mappin g  CO1, CO2 CO1, CO2 CO1, CO2 CO2, CO3						
	A B C Unit 2 A	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management  Principlesof hospital administration and itsapplicationsto physiotherapy.  Planningandorganization:Planningcycle,Principlesoforganizationalcha	Mappin g  CO1, CO2  CO1, CO2  CO1, CO2  CO2, CO3  CO1,						
	A B C Unit 2 A	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management  Principlesof hospital administration and itsapplicationsto physiotherapy.	Mappin g  CO1, CO2 CO1, CO2 CO1, CO2 CO2, CO3						
	A B C Unit 2 A B	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management  Principlesof hospital administration and itsapplicationsto physiotherapy.  Planningandorganization:Planningcycle,Principlesoforganizationalcha rts,Resource and quality management,planningchange-innovation	Mappin g  CO1, CO2  CO1, CO2  CO1, CO2  CO2, CO3  CO1, CO3						
	A B C Unit 2 A	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management  Principlesof hospital administration and itsapplicationsto physiotherapy.  Planningandorganization:Planningcycle,Principlesoforganizationalcha	Mappin g  CO1, CO2  CO1, CO2  CO1, CO2  CO2, CO3  CO1, CO3  CO1, CO3						
	A B C Unit 2 A B	Introduction to administration  Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management  Principlesof hospital administration and itsapplicationsto physiotherapy.  Planningandorganization: Planningcycle, Principlesoforganizationalcharts, Resource and quality management, planningchange-innovation  Financial issues including budget and incomegeneration	Mappin g  CO1, CO2  CO1, CO2  CO1, CO2  CO2, CO3  CO1, CO3						
	A B C Unit 2 A B C Unit 3	Introduction to administration Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management  Principlesof hospital administration and itsapplicationsto physiotherapy.  Planningandorganization:Planningcycle, Principlesoforganizationalcha rts, Resource and quality management, planningchange-innovation  Financial issues includingbudget and incomegeneration  Recruitment	Mappin g  CO1, CO2  CO1, CO2  CO1, CO2  CO2, CO3  CO1, CO3  CO2, CO3						
	A B C Unit 2 A B	Introduction to administration Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management  Principlesof hospital administration and itsapplicationsto physiotherapy.  Planningandorganization:Planningcycle,Principlesoforganizationalcharts,Resource and quality management,planningchange-innovation  Financial issues includingbudget and incomegeneration  Recruitment  Hospital administration: Organization, Staffing, Information,	Mappin g  CO1, CO2  CO1, CO2  CO1, CO2  CO2, CO3  CO1, CO3  CO2, CO3  CO3, CO3, CO3, CO3, CO3, CO3, CO3, CO3,						
	A B C Unit 2 A B C Unit 3	Introduction to administration Branchesofadministration, Natureandscopeofadministration.  How to be an effective administrator.  Planninghospitaladministrationas part ofabalancedhealthcareprogram.  Introduction to management  Principlesof hospital administration and itsapplicationsto physiotherapy.  Planningandorganization:Planningcycle, Principlesoforganizationalcha rts, Resource and quality management, planningchange-innovation  Financial issues includingbudget and incomegeneration  Recruitment	Mappin g  CO1, CO2  CO1, CO2  CO1, CO2  CO2, CO3  CO1, CO3						



	Beyond B						
В		therapydepartme	ent:Planning,Space,Manpower,O	CO3,C			
	therbasic resources.			O4			
	Organizing meetings,			CO3,C			
C	Personnelmanagement:Personnelperformanceappraisalsystem,Quality						
	caredelivery from the	staff.		O4			
Unit 4	Aims of physiothera						
A	Ethics of physiothera	. •		CO4,C			
	A.Conceptsof teachin	gandlearning		O5			
D	C-:11	1:		CO4.C			
В	e. Guidance and			CO4,C			
	4 4 4	opment program		O5			
C		n in clinicalsetti	ug	CO4.C			
C	h. Use of A-V ai	_		CO4,C			
TT *4 =	i. Taxonomy of			O5			
Unit 5	Curriculum develop			CO1,C			
A	Curriculum development						
D	Principles and methods of academic and clinical teaching						
В	Principles and method	as of academic a	and clinical teaching	CO1,C			
C	M	14'		02			
C	Measurement and eva	iluation		CO1,C			
Mode of	Theory/Inex/Dreatical	/Vivo		O2			
examinati	Theory/Jury/Practical	/ viva					
on Weightag	CA	MTE	ETE				
e	30%	20%	50%				
Distributi	3070	2070	3070				
on							
Text	1. Hospital admi	nistration & plan	nning by BM Sakharkar				
book/s*	=	<del>-</del>	ucation by C.S Ram				
230123							
		curriculum,peda	agogy and evaluation by Dr.S.K				
	Bhatia						
	4. Principle of m	anagement by P	C Tripathi				
	5. Redefining he	althcare by Micl	nael E Porter				
	_	-					

Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3

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CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3
CO201.6	3	3	3	3	3	3	3	3	3	3	3

1-Slight (Low) 2-Moderate (Medium)3-Substantial (High)

## **PRACTICAL**

So	chool:	Batch: 2020-24							
School of									
Allied									
	ealth								
	ciences								
Pı	rogram:	Current Academic Year: 2023-24							
B	achelor's								
of	•								
pl	<b>ysiothera</b>								
py	7								
B	ranch:	Semester:VIII							
Pl	nysiothera								
py									
1	Course	BPT467							
	Code								
2	Course	ADMINISTRATION & TEACHING SKILLS							
	Title								
3	Credits	1							
4	Contact	0-0-1							
	Hours								
	(L-T-P)								
	Course	Practical							
<u>_</u>	Type								
5	Course	1.To understand management, administration and organization.							
	Objective	2.To understand ethics of physiotherapist and various theories of management							
		and administration. To educate the students about concept of teaching and							
		learning.							
		3.To educate them to learn about philosophies of education 4.To provide knowledge about curriculum, techniques and methods of teaching.							
6	Course	CO1:Understand the role of administration and management.							
0	Outcomes	CO2:To know the use of various teaching aids.							
	Outcomes	CO3:To know the use of various teaching aids. CO3:To know the role of employee and ethics of physiotherapist.							
		CO3: To know the role of employee and ethics of physiotherapist.  CO4:Learn method and teachniques of teaching.							
		CO5:To understand financial issues faced in an organization and to understand							
		the rules of an organization.							
		the rules of an organization.							

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	UNIVERSITY

7	Course Descriptio n	This course presents knowledge and application of different teaching methodology to the students. The course begins with core topics of concteaching and learning. The course also covers administration and manage and role of physiotherapist in organization.							
8	Outline syll	labus	CO Mappin g						
	Unit 1	Introduction to administration							
		Branchesofadministration, Natureand scope of administration.	CO1,						
		How to be an effective administrator.							
		Planninghospitaladministrationas part ofabalancedhealthcareprogram.							
	Unit 2	Introduction to management							
		Principles of hospital administration and itsapplications to	CO2,C						
		physiotherapy.	O3						
		Planningandorganization:Planningcycle,Principlesoforganizationalcha							
		rts,Resource and quality management,planningchange-innovation							
		Financial issues including budget and incomegeneration							
	Unit 3	Recruitment							
		Hospital administration: Organization, Staffing, Information, Communication, Coordination, Cost of services, Monitoring and evaluation.							
		Organizationofphysiotherapydepartment:Planning,Space,Manpower,O therbasic resources.							
		Organizing meetings, committees, and negotiations Personnelmanagement:Personnelperformanceappraisalsystem,Quality							
		caredelivery from the staff.							
	Unit 4	Aims of physiotherapy education							
		Ethics of physiotherapy,	CO4,C						
		A.Conceptsof teachingandlearning	O5						
		e. Guidance and counseling	1						
		f. Faculty development program							
		g. Administration in clinical setting							
		h. Use of A-V aidsin teaching							
		i. Taxonomy of education							
	Unit 5	Curriculum development							
		Curriculum development	CO1,C						
		Principles and methods of academic and clinical teaching	O2						
		Measurement and evaluation							
	Mode of	Practical/Viva							



examinati			beyon u	Boundaries					
on									
Weightag	CA	MTE	ETE						
e	60%	0%	40%						
Distributi									
on									
Text	<ol> <li>Hospital admin</li> </ol>	Hospital administration & planning by BM Sakharkar							
book/s*	2. Pedagogy in ph	ysiotherapy education by	C.S Ram						
	3. A textbook of c	3. A textbook of curriculum, pedagogy and evaluation by Dr.S.K							
	Bhatia								
	4. Principle of ma	nagement by PC Tripathi							
	5. Redefining healthcare by Michael E Porter								
		<u>-</u>							

Pos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3
CO201.6	3	3	3	3	3	3	3	3	3	3	3

1-Slight (Low) 2-Moderate (Medium)3-Substantial (High)



Sc	hool: School Of Allied	Health Sciences	Batch: 2020-24						
	ogram: Bachelor's Of	Current Academic Year: 2023-24							
	ysiotherapy(BPT)								
Bı	anch: Physiotherapy	Semester:VIII							
1	Course Code	BPT443							
2	Course Title	CLINICAL EDUCATION							
3	Credits	6							
4	Contact Hours	0-0-12							
	(L-T-P)								
	Course Type	CLINICAL PRACTICE							
5	Course Objective	1. Enable student to develop and appl	y clinical knowledge for						
		assessment, treatment of the patient	t.						
		2. Explore relevant intellectual approa	aches and practical						
		skills, including those acquired in the	ne taught components, to the						
		choosen topics.	1						
6	Course Outcomes	CO1:To be able to apply the gained knowledge in clinical setup.							
		CO2:Develop critically, strategically and in	n depth a topic or area of interest						
		arising from the work done within the taught graduate framework and in							
		student's area of academic or professional interest.							
		CO3:To be able to utilize the gained knowledge practically and in hospital							
		setup.							
		CO4:Present and be able to utilize their rationale, approach or							
		methodology, outcomes and conclusions.							
		CO5:To be able to enhance practical knowledge,professional							
7	Carres Danasintias	approach,academic rigour,independence an							
7	Course Description	Enable student to develop and apply clinical knowledge for assessment,							
		treatment of the patient. Explore relevant intellectual approaches and							
		practical skills, including those acquired in the taught components, to the choosen topics.							
8	Outline syllabus	choosen topics.	CO Mapping						
	Unit 1	Musculoskelatal physiotherapy	CO Mapping						
		Brief.	CO1,CO2						
		Demonstration.	001,002						
		Experimentation.							
		Able to utilize modalities							
	Unit 2	Cardio pulmonary physiotherapy							
		Brief	CO2,C03						
		Demonstration							
		Experimentation							
	Unit 3	Sport's Rehabilitation							



					Seyond Bound	aries
		Brief			CO3,C04	
		Demo	onstration			
		Asses	sment and treat	ment		
	Unit 4	Neur	omuscular and	pediatric physiotherapy		
			Brief		CO4,CO5	
			Demonstratio	on		
			application			
			TI			
	Unit 5	Inten	sive care units			
		medi	cine, obstetric a			
		Brief	•	CO1,CO5		
		Demo	onstration			
Mod	de of examination		ssment and app ractical/Viva			
Wei	Weightage Distribution		MTE	ETE		[†]
	-	100%	0%	0%		

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Cos											
CO201.1	3	3	3	3	3	3	3	3	3	2	3
CO201.2	3	3	3	3	3	3	3	3	3	2	3
CO201.3	3	3	3	3	3	3	3	3	3	2	3
CO201.4	3	3	3	3	3	3	3	3	3	2	3
CO201.5	3	3	3	3	3	3	3	3	3	2	3

## **Project**

School: School of allied		Batch: 2020-24	
heall	h sciences		
Prog	gram: Bachelor's	Current Academic Year: 2023-24	
of pl	hysiotherapy		
Brar	nch:Physiotherapy	Semester:VIII	
1	Course Code	BPT444	
2	Course Title	PHYSIOTHERAPY PROJECT	



	I ~ 1.		Beyond Boundaries
3	Credits	2	
4	Contact Hours	0-0-4	
	(L-T-P)		
	Course Status	PROJECT	
5	Course Objective	1. Enable students to develop and apply the	
		skills of research and enquiry to produce	
		original work which contributes to a subject,	
		field or profession.	
		1	
		2. Engage students in study which demands a	
		professional approach,academic	
		rigour,independence and self direction.	
6	Course Outcomes	CO1:Explore and apply relevant intellectual	
		approaches and practical skills, including those	
		acquired in the taught components, to the chosen	
		topic.	
		CO2:Develop critically, strategically and in depth a	
		topic or area of interest arising from the work done	
		within the taught graduate framework and in the	
		student's area of academic or professional interest.	
		CO3:Develop further the research skills as acquired	
		in the taught research modules, to demonstrate an	
		ability to set the project in its wider context, to sustain	
		argument and to present conclusions.	
		CO4:Present and be able to defend their rationale,	
		approach or methodology,outcomes and conclusions.	
7	Course	The physiotherapy project will commence with the	
	Description	preparation of a research proposal. The student must	
		submit an outline proposal to the research committee.	
8	Outline syllabus		CO Achievement
	Unit 1	Introduction	001.004
		1. Outline of the problem, issue or topic for the	CO1,CO4
		project and why it has been chosen.	
		2. A review of background material should be	
		included to put the project in context of recent	
		relevant literature and with other work done in	
		the field	
		3. This should include journal as well as books.	
	Unit 2	Research question	
		1. A statement of the proposed research/project.	CO2,CO3
		2. Aim	552,555
		2. IXIII	



			Beyond Boundaries
3. Sta	atement hypot	hesis	
Ehical co	nsiderations		
1. Br	ief		CO3,CO4
2. Ap	proval forms		
3. Ap			
Method/F	Protocol		
1. Br	ief		CO1,CO2
2. Or	ıtline of the m	ethod to be applied	
3. Da	ıta collection		
<b>Presentat</b>	<u>ion/Finalizat</u> i	ion	
1. Ap	proval		CO3,CO4
2. Re	eferences		
3. Pro	esentation		
Jury/Pract	ical/Viva		
CA	MTE	ETE	
60%	0%	40%	
-			
	Ehical con   1. Br   2. Ap   3. Ap	Ehical considerations  1. Brief 2. Approval forms 3. Appropriate evid  Method/Protocol 1. Brief 2. Outline of the m 3. Data collection  Presentation/Finalizati 1. Approval 2. References 3. Presentation  Jury/Practical/Viva  CA MTE 60% 0%	1. Brief 2. Approval forms 3. Appropriate evidence  Method/Protocol  1. Brief 2. Outline of the method to be applied 3. Data collection  Presentation/Finalization  1. Approval 2. References 3. Presentation  Jury/Practical/Viva  CA MTE ETE 60% 0% 40%

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs											
CO201.1	3	3	3	3	3	3	3	3	3	3	3
CO201.2	3	3	3	3	3	3	3	3	3	3	3
CO201.3	3	3	3	3	3	3	3	3	3	3	3
CO201.4	3	3	3	3	3	3	3	3	3	3	3
CO201.5	3	3	3	3	3	3	3	3	3	3	3
CO201.6	3	3	3	3	3	3	3	3	3	3	3

