

Program Structure Template

School of Allied Health Sciences Program - BPT

Program Code: SAH0103

Batch 2020-2024

Prepared by : SU/SAHS

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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

Creative Campaign Can be TEDs: This is guiding principle for promotion and wide circulation among various stakeholder. Guidelines: Similar Mnemonics can be designed by schools.

Core Values

- Integrity
- Leadership
- Diversity
- Community



Note: Detailed Mission Statements of University can be used for developing Mission Statements of Schools/ Departments.

1.2 Vision and Mission of the School

Vision of the School

To produce skilled man power in different areas of biomedical science for better

healthcare delivery.

Mission of the School

• To strengthen the main line medical and health services.

• To become effective assisting and support system to medical and health

personnel.

Core Values

- Skilled professional
- Multidimensional
- Compassion
- Management



1.3 Programme Educational Objectives (PEO)

1.3.1 Writing Programme Educational Objectives (PEO)

Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

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
	Mission 1	Mission 2
PEO1:	3	3
PEO2:	3	2
PEO3:	3	3

Enter correlation levels 1, 2, or 3 as defined below:

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

If there is no correlation, put "-"



1.3.3 Program Outcomes (PO's)

Program outcomes are the narrower statements that describe what students are expected to know and be able to do as they graduate. These relate to the skills, knowledge and behavior that students acquire through their program. Following are the statements for POs for Physiotherapy program.

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



	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

1.3.4 Mapping of Program Outcome Vs Program Educational Objectives

1. Slight (Low)

2. Moderate (Medium)

3. Substantial (High)



1.3.5 Program Outcome Vs Courses Mapping Table¹:

Program Outcome Courses Sem-1	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PD11
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
Cours101.3	Biochemistry	2	3	2	2	2	3	3	3	2	3	3
Cours101.4	Sociology& Psychology BasicComputer &	3	2	3	3	3	2	3	3	2	2	2
Cours101.5	Information English Communication And Soft Skills	2	3	2	2	3	2	3	3	3	2	3
Sem-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	3 3	2 2	3 3	3 3	$\frac{2}{2}$	2 2	3 3	2 2	$\frac{2}{2}$
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 Sem-4	Clinical Observation	2	3	2	2	2	3	3	3	2	3	3
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 Sem-5	Clinical Education	2	3	2	2	2	3	3	3	2	3	3
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
												1

¹ Cel value will contain the correlation value of respective course with PO.



Sem-6								N	Beyond	Boundar	ies	
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
	Physiotherapy in											
Course 801.1	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	2	3	2	2	3	2	3	3	3	2	3
Course	physiotherapy Administration & teching											
Course 801.4	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	Clinical Education	2	3	2	2	3	2	3	3	3	2	3
Internship	Clinical Internship											
1. Sligh	t (Low) 2. Ma	derat	e (Med	lium)	3	. Subst	antial	(High)	I			





Program Structure Template BPT Program Structure School of Allied Health Sciences Program:BPT Programcode: - SAH0103 Batch: 2020-2024 TERM: I

				Teachi	ng Load		
S. No.	Paper ID	Subject Code	Subjects	ts L T		Р	Credits
			THEORY SUBJECTS		I		
1.	35001	BPT 106	Human Anatomy – I	4	1		5
2.	35002	BPT 107	Human Physiology – I	4	1		5
3.	35261	BPT 120	Biochemistry	4	0		4
4.	35262	BPT 121	Psychology & Sociology	4	0		4
5.	35263	BPT 122	Basic computer & Information English Communication and soft skills	3	0		3
				107			
		TO	DTAL	19	2		21
			Practical/Viva-Voce/Jury				
6.	35008	BPT 156	Human Anatomy-1			4	2
7.	35009	BPT 157	Human Physiology -1			2	1
		Т	OTAL CREDITS 24		•		3



BPT Program Structure School of Allied Health Sciences Program:BPT Programcode: - SAH0103 Batch: 2020-2024

TERM: II

S.	Paper ID	Subject Code	Subjects	Teachir	ng Load		Credits
No.	raper ID	Subject Code	Subjects	L	Т	Р	Creats
			THEORY SUBJECTS	5			
8.	35048	BPT 113	Human Anatomy-2 (Including Applied Anatomy)	5	1		6
9.	35049	BPT 114	Human Physiology -2 (Including Applied Physiology)	5	1		6
10.	35384	BPT 123	Basic principles of Biomechanics	5	1		6
		TOTAL		15	3		18
			Practical/Viva-Voce/Ju	ry			
11.	35054	BPT 153	Human Anatomy-2			4	2
12.	35055	BPT 154	Human Physiology -2			4	2
13.	35056	BPT 159	Basic principles of Biomechanics			3	1
		TOTAL CREE	DITS	23			



BPT Program Structure School of Allied Health Sciences Program:BPT Programcode: - SAH0103 Batch: 2020-2024 TERM: III

S.	Paper	Subject	Subjects	Teac	hing	Load	Credits
No.	ĪD	Code	Subjects	L	Τ	Р	
			THEORY SUBJECTS				
14.	35275	BPT 216	Pathology& Microbiology	6	0	0	6
15.	35276	BPT 217	Pharmacology	4	0	0	4
16.	35154	BPT 209	Biomechanics & Kinesiology	4	1	0	5
17.	35155	BPT 210	Foundation of Exercise Therapy	4	1	0	5
		TOT	AL	18	2	16	
			Practical/Viva-Voce/Jury				
18.	35158	BPT 259	Biomechanics & Kinesiology			4	2
19.	35159	BPT 260	Foundation of Exercise Therapy			4	2
20.	35157	BPT 003	Clinical observation			5	2
		TOTAL C	CREDITS 2	26			



BPT Program Structure School of Allied Health Sciences Program:BPT Programcode: - SAH0103 Batch: 2020-2024 TERM: IV

S.	Paper ID	Subject	Subjects	Teaching	g Load		Credits
No.	Paper ID	Code	Subjects	L	Т	P	Creatis
			THEORY SUBJECT	S			
21.	35385	BPT 219	Exercise Therapy	6	1	-	7
22.	35386	BPT 220	Electrotherapy (LMHF & Equipment care)	6	1	-	7
23.	35383	BPT 218	Medical/ Physiotherapy Law and Ethics	3	1	-	4
			Practical/Viva-Voce/Ju	Iry			
24.	35387	BPT 264	Exercise Therapy			6	3
25.	35388	BPT 265	Electrotherapy			6	3
26.	35389	BPT 266	Clinical Observation			6	3
		TOTAL	CREDITS	27			



BPT Program Structure School of Allied Health Sciences Program:BPT Programcode: - SAH0103 Batch: 2020-2024 TERM: V

S. No.	Paper ID	Subject Code	Subjects	Tea	ching Lo	ad	Credits
				L	Т	P	
HEC	RY SUBJEC	TS					
27.	35266	BPT 308	Clinical Orthopaedics & Traumatology	3	0	-	3
28.	35265	BPT 309	General Surgery including burns and plastic surgery& Obstetrics and Gynecology	3	0	_	3
29.	35264	BPT 310	General Medicine	3	0	-	4
30.	35267	BPT 311	Community Medicine	4	0	0	3
31.	35268	BPT 312	Interpretation of Diagnostic imaging technology	2	0	-	2
racti	cal/Viva-Voce	Jury					<u> </u>
32.	35269	BPT 350	Clinical Orthopedics&Traumatology			2	1
33.	35274	BPT 359	GeneralSurgeryincludingburnsandplasticsurger y& Obstetrics and Gynecology			2	1
34.	35273	BPT 358	General Medicine	0	0	2	1
35.	35270	BPT 351	Community Medicine			2	1
36.	35271	BPT 352	Interpretation of Diagnostic imaging technology			2	1
37.	35272	BPT 353	Clinical Education			8	4
			DTAL CREDITS 24				



BPT Program Structure School of Allied Health Sciences Program:BPT Programcode: - SAH0103 Batch: 2020-2024 TERM: VI

S.	Paper ID	Subject	Subjects	T	eaching I	load	
No.		Code		L	Т	Р	
							Credits
THEO	RY SUBJE	CTS					
38.	35375	BPT 316	Physiotherapy in Orthopedics& sports	5	0		5
39.	35376	BPT 313	Physiotherapy in General Medicine and Generalsurgery	5	0		5
40.	35377	BPT 314	Clinical Neurology & Psychiatry	3	0		3
41.	35378	BPT 315	Introduction to recent trends in Physiotherapy	1	0		1
		ΤΟ	ΓAL	14	0	22	
Practic	al/Viva-Voc	e/Jury					
42.	35379	BPT 360	Physiotherapy in Orthopedics& sports			4	2
43.	35380	BPT 361	Physiotherapy in General Medicine and Generalsurgery			4	2
44.	35381	BPT 362	Clinical Neurology & Neurosurgery			3	1
45.	35382	BPT 363	Clinical Education			12	6
	·		TOTAL CREDITS	25			



BPT Program Structure School of Allied Health Sciences Program:BPT Programcode: - SAH0103 Batch: 2020-2024 TERM: VII

S. No.	Paper ID	Subject Code	Subjects	Teac	hing I	Load	
				L	T	P	Credits
THEO	ORY SUBJE	CTS					
46.	35442	BPT 460	Physiotherapy in Neurology	5	0	-	5
47.	35443	BPT 462	Biostatistics & Research Methodology	4	0	-	4
48.	35444	BPT 463	Health Promotion and Fitness	1	0	-	1
49.	35445	BPT 464	Clinical cardiovascular & pulmonary	3	0	-	3
50.	35446	BPT 465	Principles of Management, Critique inquiry, casepresentation and discussion	1	0	-	1
Practi	cal/Viva-Vo	ce/Jury		·		<u> </u>	
51.	35447	BPT 441	Physiotherapy in Neurology & psychosomatic disorder	-	-	4	2
52.	35448	BPT 442	Health Promotion and Fitness			2	1
53.	35449	BPT 443	Clinical cardiovascular & pulmonary			2	1
	35450 B	PT 444Clinica	al Education 12				6
			TOTAL CREDITS 24	4			



BPT Program Structure School of Allied Health Sciences Program:BPT Programcode: - SAH0103 Batch: 2020-2024 TERM: VIII

S. No.	Paper ID	Subject Code	Subjects	Те	eaching	Load	
				L	Т	Р	Credits
THEO	 	CTS					
54.		BPT 466	Physiotherapy in cardiovascular, pulmonary &intensive care	5	0	-	
55.		BPT 467	Community Physiotherapy	4	0	-	
56.		BPT 468	Clinical reasoning & Evidence based physiotherapy	1	0	-	
57.		BPT 469	Administration and Teaching Skills	1	0	-	
Practi	cal/Viva-Voo	ce/Jury					
58.		BPT 445	Physiotherapy in cardiovascular, pulmonary &intensive care	-	-	4	2
59.		BPT 446	Community Physiotherapy	-	-	4	2
60.		BPT 447	Clinical reasoning & Evidence based physiotherapy			2	1
61.		BPT 448	Administration and Teaching Skills			2	1
62.		BPT 450	Research Project			4	2
63.		BPT 449	Clinical Education			12	6
	1	11	TOTAL CREDITS	25	<u> </u>		





Program Outcome Courses	Course Code	Course Name		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	F
SEMESTER		1	I	I	1	I	I	I	I	I	1	I	I	1
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
			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

Table 2: BPT Program Outcome V/s Course Mapping Table¹:

SHARDA UNIVERSITY

								T	1	1		eyond B	C K SI I o u n d a r i e	s
			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						-			1	1				
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
			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			I			1	1	-1	.1	1	-	-1	1	
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
Course 2.3	BPT 123	Basic Principles Of Biomechanics	CO4 CO1	3 3	3 3	3 3								
	125	Of Biomechanics	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				1	1			1	1		1			
Course 2.1.1	BPT 153	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
Course 2.2.2	BPT	Human	CO 5 CO1	3	3	3	33	3	3	3	3	3	3	3 3
204150 2.2.2	·			1.5	5	1.5	1.5	5	5	1.5	15	1.5	5	<u>_</u>



	1		-			-						Beyond	Boundari	e s
	154	Physiology II	000				-							
			CO2	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3	3
	DDT	Desis Duin sin1	CO4 CO1	3	3	3	3	3	3	3	3	3	3	3
Course 2.3.3	BPT 159	Basic Principles Of Biomechanics		3	3	3	3	3	3	3	3	3	3	3
			CO2 CO3	3	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3	3
			C04	3	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3	3
			000	5	5	3	5	5	5	3	5	5	5	
SEMESTER 3														
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
			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
		D' 1 ' 0	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
		Foundation of	CO6	3	3	3	2	2	3	2	3	2	3	2
Course 3.4	BPT- 210	Exercise Therapy	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

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			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		1						1			1			
Course 3.3.1	BPT- 259	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 3.4.2	BPT- 260	Foundation of Exercise Therapy	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
Theory			1		T		1	1			1		1	
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 (LMHF & Equipment care)	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
			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
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			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
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 (LMHF & Equipment care)	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
			CO5	3	2	3	3	3	2	3	3	3	3	3
SEMESTER 5														
Theory		General Medicine	CO1	3	3	3	2	2	3	3	3	3	3	3
Course 5.1	BPT- 308	including Paediatrics & Pshychiatry		5	5	5	2	2	5	5		5	5	
			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	
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

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			CO4	3	3	2	3	3	3	3	3	3	3	3
		1	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												1		+
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 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 5.3.3	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

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			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
			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			1	1			1	1	1	1		1	1	1
Theory														
Course 6.1	BPT- 313	Physiotherapy in Orthopedics	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
			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
			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	CO1	3	3	3	3	3	2	3	3	3	2	3



			1	1	1		1					eyond B	oundarie	ŝ
		physiotherapy												
			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 6.1.1	BPT- 362	Physiotherapy in Orthopedics	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
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											
THeory														
Course 7.1	BPT- 460	Physiotherapy In Neurology &Psychosomatic 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



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			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- 463	Health Promotion, Fitness & Wellness	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	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														
Course 7.1.1	BPT- 441	Physiotherapy In Neurology &Psychosomatic 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 7.3.2	BPT-	Health Promotion,	CO1											
	442	Fitness &Wellness	000	3	3	3	3	3	3	3	2	3	3	3
			CO2	3	3	3	3	3	3	3	3	2	3	3



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			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														
Theory			<u> </u>					1	T	T	T	T	1	-
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
										1	+		1	
			CO4	3	3	3	3	2	2	3	3	2	3	3
			CO4 CO5	3 2	3 3	3	3 2	2 3	2 3	3 3	3 3	2 2	3 2	3 2
Course 8.3	BPT468	Clinical reasoning and evidence based physiotherapy												2
Course 8.3	BPT468	reasoning and	CO5	2	3	3	2	3	3	3	3	2	2	



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			CO4	3	3	3	3	3	3	3	3	3	3	3
Course 8.4	BPT 469	Administration & 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
Practical														
Course 8.1.1	BPT444	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 8.2.2	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 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 8.4.4	BPT 447	Administration & 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



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			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

FIRST SEMESTER

School: School Of Allied Health Sciences

Batch : 2020-24



	rogram: Bachelors Of nysiotherapy(BPT)	Current Academic Year: 2020-2021					
B	ranch: Physiotherapy	Semester: I					
1	Course Code	BPT 106					
2	Course Title	HUMAN ANATOMY –I					
3	Credits	5					
4	Contact Hours	4-1-0					
	(L-T-P)						
	Course Type	Compulsory					
5	Course Objective	 The student will be able to demonstrate knowledg human anatomy as needed for the study and practi physiotherapy and occupational therapy. In addition the student will be able to fulfill with 7 accuracy (as measured written & oral internal eval the following objectives of the course. 	ice of 75%				
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, vascu 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, vascu nerve supply of head and neck. 					
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 Mappi ng				
	Unit 1	General anatomy					
	A	Introduction, Skeleton, Joints, Muscles	CO1,				
			CO2				
	В	Cardiovascular system, Lymphatic system, Nervous system	CO1, CO2				
	С	Skin and fascia, Connective tissue, ligaments and raphe, Principles of radiography	CO1, CO2				
	Unit 2	Upper extremity					
	А	Muscles – origin, insertion, nerve supply and actions.	CO1, CO3				
	В	Osteology: Clavicles, Scapula, Humerus, Radius, Ulna,	CO1,				
	В	Osteology: Clavicles, Scapula, Humerus, Radius, Ulna,	CO1,				



	Carpals, Metacarpals, Phalanges.	CO3		
С	Soft parts: Breast, pectoral region, axilla, front of arm,	CO1,		
	back of arm, cubital fossa, front of forearm, back of	CO3		
	forearm, palm, dorsum of hand, muscles, nerves, blood			
	vessels and lymphatic drainage of upper extremity			
Unit 3	Upper extremity Joints			
A	Shoulder girdle, shoulder joint, elbow joints,	C01,		
		CO3		
В	Radioulnar joint, wrist joint and joints of the hand.	CO1.		
D		CO3		
C	Arches of hand, skin of the palm and dorsum of hand.			
C	Arches of hand, skill of the partit and dorsum of hand.	CO1		
		CO3		
Unit 4	Thorax			
А	Cardio-Vascular System Mediastinum: Divisions and	CO ₂		
	contents Pericardium.	CO4		
В	Thoracic Wall: position, shape and parts of the heart;	CO2		
-	conducting System; blood Supply and nerve supply of	CO4		
	the heart; names of the blood vessels and their			
	distribution in the body– region wise.			
	aistribution in the body-region wise.			
0	Degrington gustan Outline for sinterest	000		
C	Respiratory system-Outline of respiratory passages:	CO2		
	Pleura and lungs: position, parts, relations, blood supply	CO4		
	and nerve supply; Lungs – emphasize on			
	bronchopulmonary segments.			
	Diaphragm: Origin, insertion, nerve supply and action,			
	openings in the diaphragm. Intercostal muscles and Accessory muscles of respiration: Origin, insertion, nerve supply and action			
Unit 5	Head and Neck			
А	Osteology: Mandible and bones of the skull.	CO1		
		CO5		
В	Soft parts: Scalp, Muscles of the face and neck and their	CO1		
D	nerve and blood supply-extra ocular muscles, triangles of	C05		
	the neck.			
	the neek.			
9		CC (
C	Gross anatomy of eyeball, nose, ears and tongue	CO1		
	Thyroid gland, salivary gland	CO5		
		000		
	Temporomandibular joint with muscles of mastication			
Mode of examination	Temporomandibular joint with muscles of mastication Theory/Jury/Practical/Viva			
Mode of examination Weightage Distribution	Temporomandibular joint with muscles of mastication			
	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE			
Weightage Distribution	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%			
	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%1.B D Chaurasia's Human Anatomy.			
Weightage Distribution	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%1.B D Chaurasia's Human Anatomy.2.Inderbir Singh- Textbook of Anatomy.			
Weightage Distribution	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%1.B D Chaurasia's Human Anatomy.2.Inderbir Singh- Textbook of Anatomy.3.Textbook of Anatomy with color Atlas-			
Weightage Distribution	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%1.B D Chaurasia's Human Anatomy.2.Inderbir Singh- Textbook of Anatomy.			
Weightage Distribution	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%1.B D Chaurasia's Human Anatomy.2.Inderbir Singh- Textbook of Anatomy.3.Textbook of Anatomy with color Atlas-			
Weightage Distribution	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%1.B D Chaurasia's Human Anatomy.2.Inderbir Singh- Textbook of Anatomy.3.Textbook of Anatomy with color Atlas- Inderbir Singh.			
Weightage Distribution Text book/s*	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%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.			
Weightage Distribution	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%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.1.Kieth L Moorie, Clinically Oriented			
Weightage Distribution Text book/s*	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%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.			
Weightage Distribution Text book/s*	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%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.1.Kieth L Moorie, Clinically Oriented Anatomy.			
Weightage Distribution Text book/s*	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%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.1.Kieth L Moorie, Clinically Oriented Anatomy.2.A K Datta, Essentials Of Human Anatomy:			
Weightage Distribution Text book/s*	Temporomandibular joint with muscles of masticationTheory/Jury/Practical/VivaCAMTEETE30%20%50%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.1.Kieth L Moorie, Clinically Oriented Anatomy.			



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	School: School Of Allied Health SciencesBatch: 2020-24						
P	rogram: Bachelor	's of	Current Academic Year: 2020-2021				
	hysiotherapy(BP1	,					
B	ranch: Physiother	rapy	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					
5	Course		jective of this course is that after lectures				
	Objective	-	al and clinics the student will be able to d				
(0		tanding of elementary human physiology				
6	Course		Jnderstand the cell physiology in detail in	U			
	Outcomes	-	sport mechanism of human body and blood and body				
		fluid di	stribution and composition.				
		CO2:	02: Understand interaction and integration of different				
		organ	n systems in health and diseases special nerve-muscle				
		physiol	ology.				
		CO3:	Understand the functional mecha	nisms of			
		cardiov	ascular system, student should be able to	tell about			
			nducting system of heart, cardiac musc				
			along with the calculation and handling of				
		_		equipment			
		-	neasurement of blood pressure				
			Describe the physiology of respiratory sys				
			mechanics of breathing, spirometry, tr	-			
		U	nd the common disorders of respiratory sys				
		CO5:	Demonstrate in depth knowledge of dig	gestive and			
		endocr	ne system.				



7	0		• • • • •	• • • • • • • • •	•			
/	Course	The course is designed to assist the students to acquire						
	Description	knowledge of the normal human Physiology of various body						
		systems and	understand t	he alternation in physiolo	ogy in			
		disease and p	ractice of Phy	siotherapy as applicable fo	r each			
		systemic diso	rder					
8	Outline syllabus	•			СО			
Ŭ	o utilite sylluous							
	Unit 1	General & Ner	Mapping					
	A			body fluids, membrane	CO1, CO2			
	Λ	potential.		e body fidids, filefiloratie	001, 002			
			nctions of nerve	tissues, physiological				
				ve fiber types & functions.				
		Degeneration a	and Regeneration	on in Peripheral Nerves.				
		-	-	-				
	В	Homeostasis, 7	Fransport across	s cell membrane, NMJ.	CO1,CO2			
	С			ganelles, skeletal muscle &	CO1,CO2			
				tween skeletal, smooth &				
		cardiac muscle	2.					
	Unit 2	Blood						
	А	^	k functions of b		CO1,CO3			
		proteins,leucoo						
		Immunity.						
					CO1, CO3			
	В							
	С							
	Unit 3	Jnit 3 Cardiovascular System						
	А	Cardiac Muscle, physiological anatomy of the heart, general principles of circulation & CVRM.						
	В	Cardiac Cycle,	CO1, CO3					
	С	Heart Sounds, ECG, Heart Rate, Hypertension & Shock.						
	Unit 4	The Respirator						
	А	Physiological	CO1,CO4					
		of respiration.	_					
	В	Transport of G	CO1,CO4					
			<u> </u>					
	С	Hypoxia, Phys	iology of Exerc	ise & High Altitude.	CO1,CO4			
\square								
	Unit 5	Digestive Syst						
	А			, Saliva, Stomach, Pancreas,	CO2,C05			
		Liver & Gall E						
	D	Care all Taxiani						
	B		e & Large Intest		CO2,C05			
	С	Digestion and	Absorption in C	j11.	CO2,C05			
\vdash			. 1/57					
	Mode of	Theory/Jury/	Practical/Viva					
\square	examination			7077				
	Weightage	CA	MTE	ETE				
	Distribution	30%	20%	50%				



Text book/s*	1.	Sembulingum, K., Essentials of Medical
		Physiology
	2.	Dr. S.C. Choudhary, Concise medical physiology
	3.	Dr. C.C. Chatterjee., Human physiology
	4.	Ganong, Review of Medical Physiology
	5.	Samson Wright's Applied Physiology
	6.	Guyon & Halls, Medical Physiology
Other	1.	Sam san writes applied physiology handbook -by
References		Cyril a keeleericB.Neil
	2.	Best and Taylor's physiological basic of Medical
		practice- C.H. Best aetal
	3.	Medical physiology Dr. A.C. Gutton. Review of
		Medical Physiology William FooGanong

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: Bachelors of Physiotherapy(BPT)	Current Academic Year: 2020-2021					
Branch: Physiotherapy	Semester: I					
1 Course Code	BPT 120					
2 Course Title	BIOCHEMISTRY					
3 Credits	4					



	Contact Hours	4-0-0
	L-T-P)	
	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	Course Outcomes	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 Description	The course describe structures & functions of cell in brief; normal functions of different components of food, Enzymes, define Basal metabolic rate & factors affecting the same [in brief], with special reference to obesity; nutritional aspects of carbohydrates, lipids, proteins & vitamins & their metabolism with special reference to obesity; define enzymes, discuss in



		brief, factors affecting enzyme activity; describe biochemical aspects of muscle contraction.	in details
8	Outline syllabus	of the second dependence of the second definition.	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 	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, Isoenzymes, Diagnostic enzymology (clinical significance of enzymes)	CO2,CO4
		Nucleotide and Nucleic acid Chemistry-Nucleotide	CO2,C04



~	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.	
C	Digestion and Absorption- General characteristics of digestion and absorption, Digestion and absorption of carbohydrates,proteinsandlipids.Disordersofdigesti onandabsorption –Lactose intolerance.	CO2,C04
Unit 4		
Α	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



B C	memb absor functi Musc muscl contra Bioch variou elastin Glycc Horm Mech	orane structure ption. Intracellions, briefly on le Contraction- le, briefly on the action, Energy memistry of Cor us connective to n - Structure ar oproteins, Prote- one Action-De anism of horm	Contractile elements in he process of muscle for muscle contraction. nnective tissue-Introduction, issue proteins: Collagen, hd associated disorders. eoglycans. efinition, classification, one action. Receptors, signal	CO4,C06		
	 transduction, second messengers and cell function. Acid-Base balance-Acids, bases and buffers, pH. Buffer systems of the body, bicarbonate buffer system Role of lungs and kidneys in acid base balance, Acid base imbalance. Clinical Biochemistry- normal levels of blood and urine constituents, relevance of blood and urine levels of glucose, urea, uric acid, creatine , calcium, phosphates, ph and bicarbonates. Liver function tests & renal function tests. 					
 Mode of examination		ry/Jury/Practi				
Weightage	CA	MTE	ETE			
Distribution	30 %	20%	50%			
Text book/s*	1. B E 2. T V 3. T S 4. L B 5. H et					
Other References	bi 2. Ja 3. L 4. T	iochemistry 1 ames M Orter ubert Strayer,	n, Human biochemistry , Biochemistry vlin, Bio chemistry with			

Ī	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
	000010	-		-			-			-	-	-
	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
	00201.5	5	5	5	5	2	5	5	2	5	5	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
CO201.6	3	3	3	3	3	2	3	3	2	3	3

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

Se	haal. Sahaal of Alliad	Batch : 2020-24
	hool: School of Allied ealth Sciences	Dawn : 2020-24
	ogram: Bachelors of	Current Academic Year: 2020-2021
	ysiotherapy	Current Academic Tear. 2020-2021
	anch:	Semester : I
	ysiotherapy	Semester . I
1	Course Code	BPT 121
2	Course Title	SOCIOLOGY & PSYCHOLOGY
3	Credits	4
4	Contact Hours	4-0-0
4	(L-T-P)	4-0-0
	Course Type	DSE
5	Course Objective	1. The objective of the course is that after lectures, the students will be able to
5	Course Objective	
		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
Ŭ		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
1		profession.
1		CO6: Ego defense mechanisms and learn counselling techniques to help those in
1		need, Reasons for non-compliance among 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 health and Physiotherapy treatment.
1		This course is also develops the basic knowledge of Psychology with respect to the
		normal development of a child and the Psychological condition of patient in terms of
		Health related Psychological introspection. This develops the utilization and importance



	of Psychology with respect to Physiotherapy treatment	Beyond Bounda
	of r sychology with respect to r hysiotherapy treatment	
Outline syllabus		CO Mapping
Unit 1		
A	Introduction: 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	CO1, CO2
В	 Socialization: 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. 	CO1, CO2
C	 Family: 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. 	CO1, CO2
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: 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.	CO1, CO3
В	Social Problems of disabled: Consequences of the following social problems in relation to sickness and disability, remedies	CO1, CO3



 		Beyond Boundaries
C	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. Social security and social legislation in relation to the disabled. Social worker:	CO 1,
	a. Meaning of Social Workb. The role of a Medical Social Worker.	CO 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 a. Lifespan: Different stages of development (Infancy, 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".	CO4,CO5
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	CO4,CO5



					Beyond	Boundaries
		 a. Theories of intelligence. b. Distribution of intelligence. c. Assessment of intelligence Thinking a. Reasoning: deductive and in b. Problem solving: rules in prheuristic) c. Creative thinking: steps in copeople 	oblem solving (algorithm and			
	C	Learning a. Factors effecting learning. b. Theories of learning: trial ar conditioning, Operant conditio learning theory. c. The effective ways to learn: Recitation/Reading, Serial/Fre- learning, Knowledge of results mnemonic methods.	oning, insight learning, social Massed/Spaced, Whole/Part e recall, Incidental/Intentiona	, 1	CO4,CO5	
	Unit 5					
	A	Personality a. Approaches to personality: t psychoanalytic and humanistic b. Personality assessment: obse questionnaire, rating scale, inte techniques. c. Defense Mechanisms: denia projection, reaction formation, regression, intellectualization,	e approach. ervation, situational test, erview, and projective l of reality, rationalization, identification, repression,		CO5,CO6	
	В	Social psychology a. Leadership: Different types approaches to leadership. b. At Change of attitude.		cal	CO5,CO6	
	C	Clinical psychology–Models o assessment, clinical judgment, methods, physiotherapist patie imaging, stress management, a Body awareness, Pediatric, chi psychology.	psychotherapy, self-manager nt interaction, aggression, sel ssertive training, Group thera	ment f-	CO5,CO6	
	Mode of examination	Theory/Jury/Practical/Viva				
\vdash	Weightage Distribution	CA	MTE	ETE		
		30%	20%	50%		
	Text book/s*	1. Morgan, C. T., Rosen, J.	W., Morgan, C. T., & Kin forgan and King Introduction on to Psychology npressclilinois. anges in India -Vikas Bookhive	ng,		



		🥆 🥟 Beyond Boundaries
	publications.	
	7. Julian- Social Problem- Prentice hall.	
	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 ed health sciences	Batch :2020-24
	gram: Bachelors hysiotherapy	Current Academic Year:2020-21
	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	 The course is designed to create awareness among the students about basic operation of Computer. The objectives of this course are to write grammatically correct English, to develop writing skills, to understand and express meaningfully the prescribed tent.



		2 To commend and and a survey of the state	i ale i								
		3. To comprehend and communicate in simple Engl grooming the personality of the students.	iisn;								
6	Course Outcomes	CO1: Tell about the fundamentals of computer like									
0	Course Outcomes	generations, languages, input-output devices, storage									
		and memory and processes.	,e								
		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	in								
		clinical settings.									
		CO5: Understand about the grammatical and idiom	atic usages,								
		Gain knowledge about various methods of patient e	ducation,								
		barriers of communication and how to overcome th	em.								
		CO6: Become fluent in speaking and enhance the al	bility to								
		communicate effectively with colleagues, doctors, p									
		and writing various official letters, writing patients	reports and								
		summarize scientific sessions.									
7	Course	This Course localities Decis Operation of Courset									
7	Course	This Course describes –Basic Operation of Comput									
	Description	Input and Output devices, Secondary Storage Devi study of Components of CPU and Introduction to M									
		Power point, MS Excel									
		The course is designed to enable students to enhance ability to									
		comprehend spoken and written English, required for effective									
		communication in their professional work.									
8	Outline syllabus		CO								
		Γ	Mapping								
	Unit 1	Introduction to computer Introduction shows to ristics	<u> </u>								
	Α	Introduction to computer: Introduction, characteristics of computer, block diagram of computer, generations	CO1, CO2								
		of computer, computer languages.									
	В	Input output devices: Input devices (keyboard, point	CO1, CO2								
		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									
	С	response systems). Processor and memory: The Central Processing Unit	CO1, CO2								
		(CPU), main memory.									
		Storage Devices: Sequential and direct access devices,									
		magnetic tape, magnetic disk, optical disk, mass									
		storage devices.									
	Unit 2										
	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	CO1, CO3								
		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									
L	1	incoming, printing the document rife, creating and	I								



	editing of tab	le, mail merge.						
С			luction, about worksheet,	CO1, CO3				
	entering infor							
	formatting, pr							
Unit 3		CO1, CO3						
А	Introduction t	o power-point:	introduction, creating and	CO3,CO4				
			iews, formatting and	,				
	enhancing tex	xt, slide with gr	aphs.					
В	Introduction of	of Operating Sy	stem: introduction,	CO3,CO4				
	operating syst	tem concepts, t	ypes of operating system.					
	Computer net	works: introdu	ction, types of network					
			et, Intranet), network					
			esh, tree, hybrid),					
	components of							
C			: definition, brief history,	CO3,CO4				
			Transfer Protocol, telnet,					
		ide Web (WW)	W)), www browsers, use of					
	the internet.	f Commente i	-11-11					
	Application o	f Computers in	clinical settings.					
Unit 4								
A			nmar and Usage.	CO5,CO6				
			Skills. With focus on					
	speaking- Conversations, discussions, dialogues, short							
		, pronunciation						
В			ods of writing like letters,	CO5,CO6				
	· · ·	•	collecting the patient data					
			rnals, with a focus on					
0	<u> </u>	m and organiza		005.000				
C			of good communication alth communication	CO5,CO6				
Unit 5	Special chara							
A	Types & proc	CO6,CO7						
	and written co							
	lateral commu							
В	Therapeutic c	ommunication	: empathy versus	CO6,CO7				
	sympathy.							
			r teaching and learning.					
С			r patient education.	CO6,CO7				
			& how to overcome					
Mode of	Theory/Jury	/Practical/Viv	a					
examination		T	·					
Weightage	CA	MTE 20%	ETE 50%					
Distribution	30%							
Text book/s*	1. Introduct	tion to Compu	ater- Renu Kapoor.					
	2. English	nposition & Usage by						
	J.C. Nest							
			y Madan Sood 5 by Sanjay Kumar					
	4. Commur							
	T. Commu		- j ~jj					
	&Pushp							



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	
Sciences	
Program:	Current Academic Year: 2020-2021
Bachelors of	
physiotherapy	
Branch:	Semester: I
Physiotherapy	



1	Course Code	BPT 156	
2	Course Title	HUMAN ANATOMY I (Practical)	
3	Credits	2	
4	Contact Hours (L-T-P)	0-0-4	
	Course Status	CC	
5	Course Objective	 The student will be able to demonstrate knowledge anatomy as needed for the study and practice of ph and occupational therapy. In addition the student will be able to fulfill with 7: 	ysiotherapy 5% accuracy
		(as measured written & oral internal evaluation) the objectives of the course.	-
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 embryolog 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, vascula 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, vascula supply of head and neck. 	y of ar and nerve
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	<u> </u> \$	CO
	Unit 1	GENERAL ANATOMY	Mapping
		1. Brief 2. Demonstration. 3. Identification	CO1, CO2
	Unit 2	UPPER EXTREMITY	
		 Brief Surface Anatomy Demonstration & Examination 	CO1, CO3
	Unit 3	UPPER EXTREMITY JOINT	
		1. Brief 2. Surface Anatomy	CO2,CO4
		,	I



	3. De	monstration	& Examinati	on					
Unit 4	THORAX	-							
	1. Bri	1. Brief							
	2. Su	face Anator	ny						
	3. De	3. Demonstration & Examination							
Unit 5	HEAD AN	HEAD AND NECK							
	1. Bri	ef			CO4,CO5				
	2. Su	face Anaton	ny						
	3. De	monstration	& Examinati	on					
Mode of examina		viva							
Weighta	ge CA	MTE	ETE						
Distribut	8878	0%	40%						
Text boo	 Inderby Textbox Singh. 	 B D Chaurasia's Human Anatomy. Inderbir Singh- Textbook of Anatomy. 							
Other Reference	2. A K D Thorax	atta, Essenti And Abdor	als Of Huma						

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: School Of Allied	School: School Of Allied Health Sciences Batch : 2020							
Program: Bachelors Of	Current Academic Year: 2020-2021							
Physiotherapy (BPT)								
Branch: Physiotherapy	Semester: I							
1 Course Code	BPT 157							
2 Course Title	HUMAN PHYSIOLOGY I (PRACTIO	CAL)						



3	Credits	1							
4	Contact Hours	0-0-2							
	(L-T-P)								
	Course Type	PRACTICAL							
5	Course Objective	The objective of this course is that after lectu							
		demonstrations, practical and clinics the stud							
		able to demonstrate an understanding of elem	nentary						
		human physiology							
6	Course Outcomes	CO1: Understand the cell physiology in							
		including the transport mechanism of human	body						
		and blood and body fluid distribution	and						
		composition.							
		CO2: Understand interaction and integration	on of						
		different organ systems in health and diseases s							
		nerve-muscle physiology.	1						
		CO3: Understand the functional mechanism	ns of						
		cardiovascular system, student should be able							
		about the conducting system of heart, ca							
		muscle, cardiac output along with the calculation							
		handling of equipment e.g. measurement of blood							
		pressure							
		CO4: Describe the physiology of respiratory system							
		which include mechanics of breathing, spirometry,							
		transport of gases and the common disorder	ers of						
		respiratory system.							
		CO5: Demonstrate in depth knowledge of dig	estive						
		and endocrine system.							
7	Course Description	The course is designed to assist the students to a	acquire						
		knowledge of the normal human Physiology of	various body						
		systems and understand the alternation in physic							
		disease and practice of Physiotherapy as applica	able for each						
		systemic disorder							
8	Outline syllabus		CO						
	Unit 1		Mapping						
		1. Demonstration of Microscope	C01,C03						
		 Demonstration of Microscope Demonstration of Haemoglobin estimation 							
		C C							
		3. Experimentation							
	Unit 2								
		1. Total Red Blood Cell Count	CO1,C03						
		2. Total Leucocyte Count.	,						
		3. Experimentation							
	Unit 3								



	1. 2. 3.	BT, CT, Blood Group. Estimation and Demonstration of ESR Estimation and Demonstration of PCV.	CO2,C03
 Unit 4	1.	Demonstration of SMT	CO4,CO5
	2. 3.	Effect of temperature on SMT Effect of two successive stimuli on skeletal muscle contraction & Genesis of fatigue in skeletal muscle.	
Unit 5	1. 2. 3.	Effect of increasing strength of stimuli Effect of increasing frequency Effect of load on skeletal muscle contraction and determination of conduction velocity of sciatic nerve.	CO3,CO5

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

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

School: School Of Allied Health Sciences	Batch :2020-24
Program: Bachelors of physiotherapy	Current Academic Year:2020-21



Bra	anch:	Semester: II						
Phy	ysiotherapy							
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 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						
6	Course Outcomes	 includes detailed consideration of the control of motor function. 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 aspect. CO4: Gain knowledge of greater vessels, muscles and structural and functional importance of different viscera CO5: Identify and describe various parts of nervous system The study of anatomy will include identification of all gross anatomical structures. Particularly emphasis will be placed on description of bones, joints, muscles, the brain, cardio 						
		application of physiotherapy and occupational therapy in patients.	l					
8	Outline syllabus		CO Mappi ng					
1	Unit 1	Neuro Anatomy						
	A	Organization of Central Nervous system - Spinal nerves and autonomic nervous system, Cranial nerves, Peripheral nervous system, Peripheral nerve	CO1, CO5					
	В	Neuromuscular junction, Sensory end organs, Central Nervous System, Spinal segments and areas, Brain Stem, Cerebellum,Inferior colliculi, Superior Colliculi, Thalamus, Hypothalamus, Corpus striatum, Cerebral hemisphere, ventricle system, meninges	CO1, CO5,					
	С	Blood supply to brain, Basal Ganglia, the pyramidal system, Pons, medulla, extra pyramidal systems.	CO1,C O5					



Unit 2	Abdomen								
A	I. Peritoneum: Parietal peritoneum, visceral								
	peritoneum, folds of peritoneum, functions of								
	peritoneum.	-							
В	Large blood	vessels of the	e gut.	CO1,					
	U		C	CO3					
С	Location, siz	ze, shape, feat	ures, blood supply, nerves	CO1,					
		-	e following:Stomach, liver,	CO3					
	spleen, panc	reas, kidney,	urinary bladder, intestines, gall						
	bladder.Anto	erior abdomin	al wall and posterior						
	abdominal w	vall.							
Unit 3	Pelvis								
A		▲ · · · · · · · · · · · · · · · · · · ·	ares, blood supply of the	CO1,C					
	-	uctive system		03					
В		-	ares, blood supply of the	C01,C					
2	-	ductive syste		03					
С		y of the male	and female reproductive	C01,C					
TT . • 4 A	system.	•4		03					
Unit 4	Lower Extr			002					
A			ur, tibia, fibula, patella,	CO3,					
D		tarsals and ph		CO4 CO3,					
В	-	Soft parts: Gluteal region, front and back of the thigh							
	•	(Femoral triangle, femoral canal And inguinal canal), medial side of the thigh (Adductor							
	0	, .	U						
		canal) lateral side of the thigh, popliteal fossa, anterior and posterior compartment of leg, sole of the foot.							
С			wer limb, venous drainage of	CO3,C					
e			pply of the lower limb,	04					
		ot, skin of foo		0.					
Unit 5		wer Extremi							
A	Hip Joint			CO2,C					
				03					
В	Knee joint			CO2,					
	5			CO3					
С	Ankle joint,	joints of the f	oot.	CO2,					
		-		CO3					
Mode of	Theory/jury/	Practical/Viv	a	1					
examination									
Weightage	CA	MTE	ETE						
Distribution	30%	20%	50%						
Text book/s*	1. B D	Chaurasia's H	Iuman Anatomy.						
	2. Inder	rbir Singh- Te	extbook of Anatomy.						
	3. Text								
	U	Singh.							
	4. Rich	ard S. Snell- (Clinical Anatomy.						
			Other references 1. Kieth L Moorie, Clinically Oriented Anatomy.						
Other references									
Other references			linically Oriented Anatomy. ials Of Human Anatomy:						
Other references	2. A K		ials Of Human Anatomy:						



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)

	ool: School Of ied Health Sciences	Batch :2020-24
Pro	ogram: Bachelors ohysiotherapy	Current Academic Year:2020-21
Bra	anch:	Semester: II
	vsiotherapy	DDT 114
1	Course Code	BPT 114
2	Course Title	HUMAN PHYSIOLOGY II
3	Credits	6
4	Contact Hours (L-T-P)	5-1-0
	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. 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
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



Outline syllabus		CO
		Map
		ng
Unit 1	The Excretory System	
А	Physiological anatomy of kidney & mechanism of	CO1
	formation of Urine.	CO5
В	Mechanism of concentration and dilution of urine, The	C01
	Counter Current System, Acidification of Urine.	CO5
С	Physiology of micturition and regulation of body	C01
	temperature in humans.	05
Unit 2	Endocrine System	
А	General principles of endocrinology, pituitary gland.	C01
	Thyroid Gland, Adrenal Cortex & Pancreas.	O3
В	, Parathyroid , Calcitonin and Vitamin D.	CO1
	,	CO3
С	Adrenal medulla, Thymus & the pineal Gland.	C01
~		CO3
Unit 3	Reproductive System	
A A	Puberty, classification and functions of male and	CO1
<i>[</i>]	Female sex hormones, The Male reproductive system .	03
В		CO1
D	The Female Reproductive System female sexual	
0	cycle, ovulation and contraception.	03
С	Physiological changes during pregnancy, child birth,	CO1
TT A . A	functions of placenta and physiology of lactation.	03
Unit 4	The Nervous System	
A	Organization of Nervous system, Synapse,	CO3
	Physiology of receptor organs for special and general	CO4
	sensation, physiology of touch, pain and temperature	
	sensation, physiology of reflex action, classification	
	and properties of reflexes.	
В	Sensory and motor tracts of spinal cord and effects of	CO3
-	complete and incomplete transaction of spinal cord at	CO4
	various levels. Cerebral Cortex— characteristics, areas	
	and functions, cerebellum and Basal ganglia—upper	
	and lower motor lesions, structure functions and	
	connectionsHypothalamus & its functions	
С	Regulation of equilibrium and posture, Learning,	CO3
\sim	Memory, Speech and it's disorders, Cerebrospinal	04
	Fluid and Blood Brain Barrier ,ANS	04
Unit 5	Special Senses	
		CO2
A	General outline of Image formation and visual	
	perception, papillary and conjunctival reflexes.	O3
	General outline of mechanism of hearing and	
	perception of sound.	
В	Errors of refraction & their correction.	CO2
	colourblindness.Test of hearing &types of deafness	CO3
С	Taste and Olfaction.	CO2
		CO3
Mode of	Theory/jury/Practical/Viva	



XX7 ' 1				M	_			T				
Weightage		CA		MT				TE				
Distribution		30%		20%	0		5	0%				
Text book/s	*	1. Se	mbuli	ngum,	K.	, Es	ssentia	als	of N	Medica	al	
		Ph	ysiolo	gy								
		2. Dr	. S.C.	Chou	dhary,	Conc	ise me	edical	physic	ology		
		3. Dr	. C.C.	Chatt	erjee.,	Hum	an phy	siolog	gy			
		4. Ga	nong,	Revie	ew of I	Medic	al Phy	siolog	gy			
		5. Sa	mson	Wrigh	t's Ap	plied	Physic	blogy				
			iyon 8	U	-	-	•	0.				
			5		- ,		<u> </u>	- 81				
Other refere	ences	1. Sam san writes applied physiology handbook -by										
		Су	ril a k	eeleer	icB.N	eil						
		2. Be	st and	l Tayl	lor's p	hysio	logica	l basi	c of N	Aedica	al	
		pra	actice-	C.H.	Best a	netal						
		3. Me	edical	physi	ology	Dr.	A.C.	Guttor	n. Rev	view	of	
			edical I									
	POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1
	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)

Sch	nool: School Of	Batch: 2020-24
All	ied Health Sciences	
Pro	ogram: Bachelors	Current Academic Year:2020-21
of p	ohysiotherapy	
Bra	anch:	Semester: II
Phy	ysiotherapy	
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.



6	Course OutcomesCO1: The Basics of mechanics of force system, equilid lever and pulley. CO2: Describe the joint structure, classification and fr joints And biomechanics of Connective tissue CO3: Describe the muscle structure and function of m types of muscles, contractions and factors effecting m recruitment and function CO4: Describe the biomechanics of the thoracic and c and patho biomechanics associated with chest deform CO5: Describe the temporo mandibular joint structure and dysfunction						
		CO6: Describe the analysis of posture and gait during st dynamic movement, relation with LOG, pathomechanic abnormal gait and posture	s of				
7	Course Description	This Course Supplements the Knowledge of anatomy and ena student to have a better understanding of the principles of biomechanics and their application in musculoskeletal and va other dysfunctions					
8	Outline syllabus		CO Mappi ng				
	Unit 1	Basic Concepts in Biomechanics: Kinematics and Kinetics					
	A	Types of Motion Location of Motion Direction of Motion Magnitude of Motion	CO1, CO6				
	В	Definition of Forces Forceof Gravity Reaction forces Equilibrium Objects in Motion Force of friction	CO1, CO6,				
	С	Concurrent force systems Parallel force system Work Moment arm of force Force components Equilibrium of levers	CO1,C O6				
	Unit 2	Joint structure and Function					
	А	Joint design Materials used in human joints	CO2,C O3				
	В	General properties of connective tissues Human joint design	CO2, CO3				
	С	Joint function Joint motion General effects of disease,injury and immobilization.	CO2, CO3				
	Unit 3	Muscle structure and function					
	А	Mobility and stability functions of muscles	CO2,C O3				
	В	Elements of muscle structure	CO2,C				



	Muscle funct	tion		03			
С	Effects of im	mobilization,	injury and aging	CO2,C			
Unit 4	Biomechanic	s of the Thora	ax and Chest wall				
Α	General struc	cture and func	tion	CO2,			
				CO4			
В	Rib cage and	the muscles a	associated with the rib cage	CO3,			
	Ventilatory	motions: its c	oordination and integration	CO4,			
С	Developmen	tal aspects of	structure and function	CO2,C			
	Changes in n	ormal structu	re and function in relation to	O4			
	pregnancy, se	coliosis and C	COPD				
Unit 5	The Tempor	omandibular J	oint				
A	General featu		ont-	CO2,C			
Λ	Ocherai reatt	1105		05			
В	Structure			CO2,			
D	Structure			CO2, CO5			
С	Function and	dysfunction		CO2,			
C	i unetion une	aystaneon		CO5			
Mode of	Theory/jury/	Theory/jury/Practical/Viva					
examination							
Weightage	CA	MTE	ETE				
Distribution	30%	20%	50%				
Text book/s*	1. Biomech	anical princip	les: Frenkel				
	2. Joint Stru	ucture & Func	tions : Norkins				
	3. Biomecha	nics- Nordin					
Other references	1. Basic Bio	omechanics E	xplained - Low & Reed -				
	Butterworth Heinmann.						
	2. Kinesiology: Applied to Pathological Motion -						
		g Lippincott	0				
		0 11	y Carolyn Kisner, F. A.				
	Davis.		y Carolyn Kisher, P. A.				
<u> </u>	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
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.

School: School Of Batch: 2020-24

Allied Health Sciences



	ogram: Bachelors	Current Academic Year:2020-2021						
-	physiotherapy							
	anch:	Semester: II						
	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 know the structure of the human body which is essential found their clinical studies. Studies are concerned with the topographical and functional anatomy of the limbs and the Particular attention is paid to the muscles, bones and join regions.	ation for					
		The abdomen, pelvis, perineum, head and neck and central nervous system (CNS) are studied with particular referent topics of importance to physiotherapists. The study of the includes detailed consideration of the control of motor fu	nce to e CNS					
6	Course Outcomes Course Description	 CO1: Identify the axis and planes of different movement human body and should be able to tell common anatomic terminology. CO2: Identify the structures and classification of various connective tissues, bones, joints and muscles in the human and correlate the structure with the functions. CO3: Discuss about the structural and functional importation muscles, joints, long and short nerves and different space upper limb and lower limb, trunk and pelvis including and aspect. CO4: Gain knowledge of greater vessels, muscles and st and functional importance of different viscera CO5: Identify and describe various parts of nervous syst. The study of anatomy will include identification of all granatomical structures. Particularly emphasis will be placed description of bones, joints, muscles, the brain, cardio pulmonary and nervous system, as these are related to thapplication of physiotherapy and occupational therapy in 	cal an body ance of es in oplied ructural <u>em</u> coss ed on e					
		patients.						
8	Outline syllabus		CO Mappi ng					
	Unit 1	Neuro Anatomy						
		1. Brief	CO1,C					
		2. Surface Anatomy	05					
		3. Demonstration & Examination						
-	Unit 2	Abdomen						
		1. Brief	CO1,					
		2. Surface Anatomy	CO3					
		-						
		3. Demonstration & Examination						
L	1	1	1					



Unit 3	Pelvis							
	1. B	rief			CO1,C O3			
	2. S [*]	2. Surface Anatomy						
	3. Demonstration & Examination							
Unit 4	Lower E	xtremity						
	1. B	rief			CO3,C			
	2. S [*]	urface Anatomy			04			
	3. D	emonstration &	Examinatio	on				
Unit 5	Joints of	Lower Extremi	ty					
	1. B	rief			CO2,			
	2. S [*]	urface Anatomy			CO3			
	3. D	emonstration &	Examinatio	on				
Mode of examination	Practical	/Viva						
Weightage	CA	MTE	E	TE				
Distribution	60%	0%	4)%				
Text book/s*	1. B	D Chaurasia's H	luman Ana	itomy.				
		derbir Singh- Te		-				
			omy with c	olor Atlas-Inderbir				
		ingh.	a 1					
	4. R	ichard S. Snell-	Clinical Ar	natomy.				
Other references	1. K	ieth L Moorie, C	linically C	riented Anatomy.				
	2. A	K Datta, Essent	ials Of Hu	man Anatomy:				
	Т	horax And Abdo	men					
	3. Ir	derbir Singh, Hu	ıman Osteo	ology.				

ſ	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 Allied Health Sciences	Batch: 2020-24		
Program: Bachelors	Current Academic Year: 2020-2021		
of physiotherapy			
Branch:Physiotherapy	Semester: II		
1 Course Code	BPT 154		



2	Course Title	HUMAN PHYSIOLOGY II (PRACTICAL)						
3	Credits	2						
4	Contact Hours (L-T-P)	0-0-4						
	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. 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						
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 Mappi					
	Unit 1		ng					
		 Differential Leucocyte Count. Demonstration Experimentation 	CO1,C O5					
	Unit 2							
		 Arterial Blood Pressure and radial pulse. Effect of Exercise on B.P. Effect of Posture on B.P. 	CO1,C O3					
	Unit 3							
		 General Clinical Examination Clinical Examination of CVS Clinical Examination of Respiratory System 	CO1,C O3					
	Unit 4							
		 Clinical Examination of Cranial nerves Clinical Examination of Sensory system Clinical Examination of Motor system. 	CO3, CO4					
	Unit 5							



	1 Domonat	ration of normal free	ardiaaram	CO2,C				
		0 0						
		2. Effect of temperature on it.						
	3. Demonstr	ration						
Mode of	Practical/Viv	a						
examination								
Weightage	CA	MTE	ETE					
Distribution	60%	0%	40%					
Text book/s*	1. Sembulin	gum, K., Esser	ntials of Medical					
	Physiolog							
		Choudhary, Concise	medical physiology					
		•	1, 0,					
		Chatterjee., Human						
	4. Ganong,	Review of Medical I	Physiology					
	5. Samson V	Vright's Applied Phy	siology					
	6. Guvon &	Halls, Medical Phys	siology					
		,,,						
Other references	1. Sam san	writes applied phys	iology handbook -by					
		eleericB.Neil						
	•		ical basic of Medical					
			ical basic of Medical					
	-	C.H. Best aetal						
	3. Medical	physiology Dr. A.C	C. Gutton. Review of					
	Medical P	hysiology William Fo	oGanong					

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)

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



4	Contact Hours (L-T-P)	0-0-3					
	, ,	Compulsory					
6	Course Type Course Objective	Compulsory On successful completion of this programme, students shable to describe the understanding of basics of mechanic muscle structure and contraction, factors effecting musc contraction and recruitment, explain mechanics of chest during various movements and the patho-mechanics asso with various chest conditions and deformities, understan normal mechanics and patho mechanics of TMJ associat various conditions, analyse normal mechanics of posture gait in various planes and axis and patho mechanics asso with abnormal posture and gait. CO1: The Basics of mechanics of force system, equilibri lever and pulley. CO2: Describe the joint structure, classification and func- joints And biomechanics of Connective tissue	s, ele wall ociated d ed with e and ociated ium, ction of				
		 CO3: Describe the muscle structure and function of muscles, types of muscles, contractions and factors effecting muscle recruitment and function CO4: Describe the biomechanics of the thoracic and chest wall and patho biomechanics associated with chest deformities CO5: Describe the temporo mandibular joint structure, function and dysfunction CO6: Describe the analysis of posture and gait during static and dynamic movement, relation with LOG, pathomechanics of abnormal gait and posture 					
7	Course Description	This Course Supplements the Knowledge of anatomy and ena student to have a better understanding of the principles of biomechanics and their application in musculoskeletal and va other dysfunctions					
8	Outline syllabus		CO Mappi ng				
	Unit 1	Basic Concepts in Biomechanics: Kinematics and Kinetics 1. Brief 2. Demonstration 3. Examination	CO1, CO6				
	Unit 2	Joint structure and Function1. Brief2. Demonstration3. Examination	CO2,C O3				
	Unit 3	Muscle structure and function1. Brief2. Demonstration3. Examination	CO2,C O3				
	Unit 4	Biomechanics of the Thorax and Chest wall 1. Brief	CO2,				



	2. Demonstration						
	mandibular Joint-						
			CO2,C				
2. Demo	onstration		05				
3. Exam	ination						
Practical/Viv	a						
CA	MTE	ETE					
60%	0%	40%					
1. Biomecha	anical principles: Fr	enkel					
3. Biomecha	nics- Nordin						
1 Basic Bio	mechanics Explain	ed - Low & Reed -					
	-						
Soderberg	Soderberg Lippincott						
-	tic Exercise by Car	olyn Kisner, F. A.					
	3. ExamThe Temporo1. Brief2. Demo3. ExamPractical/VivCA60%1. Biomecha2. Joint Strue3. Biomecha1. Basic Bio Butterwo2. Kinesiolo Soderberg	3. Examination The Temporomandibular Joint- 1. Brief 2. Demonstration 3. Examination Practical/Viva CA MTE 60% 0% 1. Biomechanical principles: Fr 2. Joint Structure & Functions : 3. Biomechanics- Nordin 1. Basic Biomechanics Explaine Butterworth Heinmann. 2. Kinesiology: Applied to Path Soderberg Lippincott 3. Therapeutic Exercise by Card	3. Examination The Temporomandibular Joint- 1. Brief 2. Demonstration 3. Examination Practical/Viva CA MTE ETE 60% 0% 40% 1. Biomechanical principles: Frenkel 2. Joint Structure & Functions : Norkins 3. Biomechanics- Nordin 1. Basic Biomechanics Explained - Low & Reed - Butterworth Heinmann. 2. Kinesiology: Applied to Pathological Motion - Soderberg Lippincott 3. Therapeutic Exercise by 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

School: SAHS	Batch : 2020-24
Program: BPT	Current Academic Year: 2021-22
Branch:SA HS	Semester:3rd



1	Course	BPT216
	Code	
2	Course	PATHOLOGY&MICROBIOLOGY
	Title	
3	Credits	6
4	Contact	6-0-0
	Hours	
	(L-T-P)	
	Course	Compulsory
	Туре	Computery
5	Course	1.The student will be able to
5	Objective	understand the concepts of cell injury and changes in relation towards the
	Objective	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)
		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 hospeoninal infection and its prevention in the relative field.
6	Course	At the end of the course, the student will be able to
0	Outcomes	CO1: Acquire the knowledge of concepts of cell injury and changes Produced
	Outcomes	thereby indifferent tissues
		and organs; Capacity of the body in healing Process.
		and organs, Capacity of the body in hearing rocess.
		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.
		CO3:Acquire the knowledge of concepts of Neoplasia with reference to the
		Etiology, gross and
		microscopic features diagnosis and prognosis in different tissues and organs
		of the body. They are able to characterize, understand the pathogenicity of
		disease.
		CO4:Correlate normal and altered .morphology of different organ systems in
		different diseases needed
		for understanding disease process and their clinical significance (with special
		emphasis on neuro-
		musculoskeletal and cardio-respiratory system). They can understand the
		epidemiology of disease, diagnosis, treatment and prevention of disease
		epidemiology of disease, diagnosis, ireatment and prevention of disease
		CO5: Acquire knowledge of common immunological disorders and their
		resultant effects on the human body. They will be able to perform,
		demonstrate, implement and apply the concept of microbiology in better
		understanding with relevance to human disease.
		understanding with relevance to numan disease.



		CO6: Understand in brief, about the Hematological diseases and their resultant effects on the human body.									
7	Course Descriptio n	Descriptio injury, its healing process and its resultant effects on the human body.									
8	Outline syl	labus	CO Mappi ng								
	Unit 1	General Pathology									
		 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. Irreversible cell injury, types of necrosis, apoptosis, Gangrene: types and etiopathogenesis, Pathological calcification-dystrophic and metastasis, pathogenesis and morphology Extra- cellular accumulation-amyloidosis, Pigments and pigmentations 	CO1, CO2								
		 Inflammation and repair 1)Acute inflammations features; causes, vascular & amp; cellular events, morphologic Variations 2) Inflammatory cell & amp; mediators, Chronic inflammation:-causes, types, non-specific & amp; granulomatous with examples 3) Wound healing by primary & amp; secondary intention factors promoting & amp; delaying healing process, healing at various sites including bones, nerve & amp; muscle. Regeneration & amp; repair. 									
	C Fungal disease and opportunistic infections.Parasitic diseases: Malaria,Filaria, Amoebiasis, Kala-azar, Cysticercosis, Hydatid cyst.										
	Unit 2		CO3								
	А	Hyperemia /Ischemia and Haemorrhage Edema: Pathogenesis and types .Chronic venous congestion: Lung ,Liver, Spleen, Systemic Pathology Thrombosis and Embolism: Formation, Fate and	CO3, CO4								



		×
	Effects.	
	Infarction: Types, Common sites	
	Shock: Pathogenesis, types, morphologic changes.	
В	 Growth Disturbances: 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 & amp; Distant spreadCarcinogenesis:Environmentalcarcinogens,chemical,viral,occ upational.Heredityand cellular oncogenes and prevention of cancer.Benign & amp;Malignant epithelial tumours Eg. Squamous papilloma, Squamous cell carcinoma, Malignant melanoma.Benign&Malignant mesenchy maltumours Eg: Fibroma, Lipoma, Neurofibroma, Fibrosarcoma,Liposarcoma, Rhabdo-myosarcoma, Teratoma. 	
С	Genetic disorders: 1)Genetic Disorders Basic concepts of genetic disorders and some 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	CO3, CO6
Unit 3	Lymphatic system	
A	 1)Diseases of the gall bladder- cholecystitis, cholelithiasis, carcinoma, lymphadenitis-nonspecific and granulomatous. Causes of 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 	CO3, CO6
В	Introduction of Microbiology:	CO1,
	 1)Medical terminologies , Importance and applications of medical microbiology 2) Sterilization 3) Antiseptic and disinfection 	CO2



C	Introduction to Immunology 7 Immune system	CO1,
	1) Organ and calls involved in immune response	CO3
	 Organ and cells involved in immune response Antigen 	
	3) Immunoglobulins (antibody)	
	4) Antigen – antibody reaction	
	5) Innate and acquired immunity	
	6) Hypersensitivity	
	7) Immunity (vaccines	
	7) minumery (vaccines	
Unit 4		
А	1)General classification of microorganisms & amp; characteristics	CO3
	Bacteriology: 2)Classification of bacteria & characteristics,morphology & anatomy	
	3)physiology:nutrient,microbial growth & factors associated with	
	growth	
	4)Culture medis &identification	
В	Systemic bacteriology: Introduction, general features,	CO3,
	pathogenicity, diagnosis, treatment	CO5
	and prevention1) Mycobacterium tuberculosis, Mycobacterium leprae	
	 Chlamydia trachomatis 	
	2) Chiamydia frachomatis	
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	
	ulagnosis, ir catilient and prevention	
А	Parasitology	CO3,
	1. Plasmodium	CO5
	2. Amoebiasis: Entamoebahistolytica	
	3. Filaria	
	Virology:	
	 Polio virus Orthomyxovirus 	
	3. Paramyxovirus	
	4. Hepatitis	
	5. Herpesvirus	
	6. HIV	
В	Mycology:	
	1. Subcutaneous Mycoses	
	 Superficial mycosis Opportunistic Mycoses 	
С	Applied Microbiology	CO2,
-	1)Hospital acquired infection	CO3
	2)Biomedical waste management	



	3)Central nervous Sys4)Meningitis	tem infections	S	
Mode of examinat ion	Theory/Jury/Practical/	/Viva		
Weighta	СА	MTE	ETE	
ge				
Distribut	30%	20%	50%	
ion				
Text	1. Text book of pathol	logy by Harsh	Mohan	
book/s*	2. Basic pathology by	cotran Kuman	Robbins	
	1.Text books of Micro	biology-R.A	nanthnarayan &	
	C.K.JayramPanikar			
	2. Textbook of Microl	biology-C.P.B	aweja, Arya publications	
	3. Essential of Medica	al Microbiolog	y – Apurba Š	
	Sastry&Sandhya			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
COs													
CO1	2	2	3	3	3	3	2	2	3	2	3	2	
CO2	2	3	2	2	2	2	2	3	3	2	3	3	
CO4	2	2	2	2	3	3	3	2	2	3	2	2	
CO5	3	2	3	3	2	2	2	2	2	3	3	2	
:06	2	2	3	2	2	3	3	3	2	2	2	3	

Template 2

	chool: AHS	Batch : 2020-24				
P	rogra	Current Academic Year: 2021-22				
m B	ı: PT					
B	ranch	Semester:3 RD				
:						
1	Cour	BPT217				
	se					
	Code					
2	Cour	Pharmacology				
	se					
	Title					
3	Cred	4				
	its					
4	Cont	4-0-0				
	act					



		💐 🌽 Beyond B	oundaries
	Hour	1	
	S (T	1	ĺ
	(L-		
⊣	T-P)		
	Cour	Compulsory	
	se Type	1	Ĩ
5		1.Introduce the students to basic pharmacology of various common medication used and its effe	ects on
[]	se	patients in physical therapy	
	Obje	2. Treatment of ailment of cardiovascular system, GOT, endocrine system, by drugs	
	ctive	3.To make student understand the drug and physiotherapy contribuition in the outcome of the	
	1	treatment.	
	1		
Ļ			· 1
6		CO1: 1. To understand the various routes of drugs administration, pharmacodynamic	ics and
	se Outc	pharmacokinetics of drugs.	
	omes	CO2: . To understand the various drugs used for the treatment of ANS, PNS and CNS condition	one with
	Unes	their mechanism of action and adverse effects.	JIIS WITH
	1		
	1	CO3: To understand the various drugs used for the treatment of endocrine system wi	ith their
	1	mechanism of action and adverse effects.	Ì
	1		c
	1	CO4: To understand the various drugs used for the treatment of GIT problems with their mecha	anism of
	1	action and adverse effects	Ì
	1	CO5: To understand the various antibiotic drugs with their mechanism of action and adverse eff	facte
	1	CO6: To understand the various antibiotic drugs with their mechanism of action and adverse en CO6: To understand the various drugs used for the treatment of ailment of cardio vascular	
	1	bronchial asthma, skin lesions with their mechanism of action and adverse effects.	5,51
	اا		
7	Cour	This course introduces the student to basic pharmacology of common drugs used, their important	
	se	the overall treatment including Physiotherapy. The student after completing the course will be a	
	Desc	understand the general principles of drug action and the handling of drugs by the body. The stud	
	riptio	will be aware of the contribution of both drug and physiotherapy factors in the outcome of treat	ment.
	n		
	1	1	
	1	1	
	اا		
8	Outlin	e syllabus	CO
	1	I	Mappi
	+		ng
	Unit	General Pharmacology-	1
	1 A	Introduction, Definitions, Classification of drugs, Sources of drugs	CO1,
	A	Introduction, Definitions, Classification of drugs, Sources of drugs	CO1, CO2
	В	Routes of drug administration, Distribution of drugs, Metabolism and Excretion of drugs	
			1
	С	Pharmacokinetics,	
	۱۱	Pharmacodynamics, Factors modifying drug response, Adverse effects	
[]	Unit	AutonomicNervous system&Cardiovascular Pharmacology-	CO1,
	2	1	CO2,
·	·		



I		CO3
А	General considerations-The SympatheticandParasympatheticSystems,Receptors, Somatic NervousSystemCholinergic andAnti-	
I	Cholinergicdrugs, Adrenergicand Adrenergicblockingdrugs, 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,PeripheralAlphaAntag onists,Direct acting Vasodilators	
Unit 3	Neuropharmacology & Disorders of Movement	CO1 CO3 CO5
А	Sedative-Hypnotic Drugs: Barbiturates, Benzodiazepines	\square
'	Antianxiety Drugs: Benzodiazepines, Other Anxiolytics	
	DrugsUsedinTreatmentofMoodDisorders:MonoamineOxidaseInhibitors,Tricycl ic	
В	Antidepressants, Atypical Antidepressants, Lithium d. Antipsychotic drugs	
С	Drugsused in Treatment of Parkinson's disease	+
ſ	AntiepilepticDrugs,Spasticity and Skeletal MuscleRelaxants	
Unit 4	Inflammatory/ImmuneDiseases	
A	Non-narcoticAnalgesicsandNonsteroidalAnti-InflammatoryDrugs:Acetaminophen,NSAIDs, Aspirin, Nonaspirin NSAIDs, drug Interactinswith NSAIDs	
В	Glucocorticoids:PharmacologicalUsesofGlucocorticoids,adverseeffects,Physiolog ic Use ofGlucocorticoids	
C	DrugsUsedinTreatmentofArthriticDiseases:RheumatoidArthritis,Osteoarthritis,Gout, Myastheniagravis,IdiopathicInflammatoryMyopathies,systemiclupusErythematous,S cleroderma,Demyelinating Disease	C01, O5
	RespiratoryPharmacology:ObstructiveAirwayDiseases,DrugsusedinTreatment ofObstructive airway Diseases ,Allergic Rhinitis.	
Unit 5	Digestion and Metabolism & Geriatrics-	
А	Gastrointestinal Pharmacology: Peptic Ulcer Disease, Constipation, Diarrhoea	CO1 O5
B	Drugs Used in Treatment of Diabetes Mellitus: Insulin, Oral Hypoglycemic	
С	Pharmacology and the geriatric Population: Adverse effects of special concern in the Elderly, Dementia, Postural hypotension	
Mod	Theory/Jury/Practical/Viva	
e of exam		
Una		



on										
Weig	CA	MTE	ETE							
htage	30%	20%	50%							
Distr										
ibuti										
on										
Text	1.Essentials of pharmacology by KD Tripathi									
book	2. Pharmacology by Bhattacharya Sen ray choice editor P.K. Das									
/s*	3. Clinical Pharmacology by Sennet.									

POs	PO	PO1	PO1	PO1	PSO	PSO	PSO	PSO								
COs	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3	4
CO.	2	2	3	2	2	2	2	3	2	3	3	3	2	2	3	2
1																
CO.	3	2	2	2	3	3	2	2	2	3	2	2	2	2	3	2
2																
CO.	3	2	3	2	2	2	2	2	2	3	2	3	2	2	2	2
3				ĺ	ĺ											
CO.	2	2	2	2	3	3	2	3	2	2	2	2	2	2	2	2
4				ĺ	ĺ											
CO.	3	2	3	3	2	2	3	2	2	2	2	2	2	2	3	2
5																

Τ	Template 4								
S	chool:	Batch : 2020-24							
S.	AHS								
P	rogram:	Current Academic Year: 2021-22							
B	РТ								
	ranch:S	Semester:3 rd							
Α	HS								
1	Course	BPT209							
	Code								
2	Course	Biomechanics & Kinesiology							
	Title								
3	Credits	5							
4	Contac	4-1-0							
	t Hours								
	(L-T-								
	P)								
	Course	Compulsory							
	Туре								
5	Course	1. Describe the joint structure, classification and function of joints And							
	Objecti	biomechanics of Connective tissue							
	ve	2. Describe the muscle structure and function of muscles, types of muscles, contractions and factors							
		effecting muscle recruitment and function							



		VINIV Beyond I	Boundaries
		3.Describe the biomechanics of the thoracic and chest wall and patho	
		biomechanics associated with chest deformities	
		4. Describe the analysis of posture and gait during static and dynamic	
		movement, relation with LOG, Pathomechanics of abnormal gait and	
		posture.	
6	Course	CO1:On successful completion of this programme, students should be able to describe the	
	Outco	understanding of basics of mechanics, muscle structure and contraction, factors effecting mu	scle
	mes	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 condition	ons
		CO4: Analyse normal mechanics of posture and gait in various planes and axis	
		CO5:Analyse the patho mechanics associated with abnormal posture and gait.	
		COG Describe his machanics of shoulder albour write his trace only is int Vartabral ash	
		CO6: Describe biomechanics of shoulder, elbow, wrist, hip, knee, ankle joint, Vertebral colu	
7	Course	This Course Supplements the Knowledge of anatomy and enables the student to have a bette	r
/	Descri	understanding of the principles of biomechanics and their application in musculoskeletal and	
		other dysfunctions.	various
	ption	other dystulicuolis.	
8	Outline s	svilabue	CO
0	Outific	synaous	Mappi
	Unit 1	Biomechanics of the vertebral column	ng
	A		CO1,
	A	General structure and function	CO1, CO6
			000
	В	Regional structure and function–Cervical region, thoracic region, lumbar region,	
		sacral region	
	С	Muscles of the vertebral column& General effects of injury and aging	
	C	Traseres of the vertebrar containing Content effects of injury and aging	
	Unit 2	Biomechanics of the Upper Limb	Co1,
	C III C		CO6
	А	The shoulder complex: Structure and their integrated function & the	000
		effects of immobilization and injury.	
	D	The all and a mail and from the start of the all and it is	
	B	The elbow complex: Structure and function of the elbow joint	
	С	The wrist and hand complex: Structural components and functions of the wrist complex;	
\vdash	TT •4 2	structure of the hand complex; functional position of the wrist and hand	
	Unit 3	Biomechanics of the Lower Limb	C01,
			CO6
	А	Thehipcomplex:structureandfunctionofthehipjoint;hipjointpathology-arthrosis, fracture,	



	bony abnormalities	of the femur								
В	Patellofemoral joint	; effects of injury and		1						
C	vicularjoint,transver metatarsophalangea	rsetarsaljoint,tarsomet ljoints,interphalangea ne ankle and foot,devia	nctionoftheanklejoint,subtalarjoint,talocalcaneona atarsaljoints, ljoints,structure and functionof the plantar ations from normal structure and function– Pes							
Unit 4	Analysis of posture	2		C C						
А	Static and dynamic	posture, postural contr	rol, kinetics and kinematics of posture							
В	Ideal posture analysis of posture									
С	Effects of posture on age, pregnancy, occupation and recreation									
Unit 5	Analysis Of Gait			C C						
А	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 malalig standing, lifting, var	nments in gait; Mov	vement Analysis: ADL activities like sitting- to							
Mode of examin ation	Theory/Jury/Practic	al/Viva								
Weight	СА	MTE	ETE	1						
age Distrib ution	30%	20%	50%							
Text book/s *	 Biomechanical principles: Frenkel Joint Structure & amp; Functions : Norkins Biomechanics- Nordin 									
Other Refere nces	 Biomechanics- Nordin Therapeutic exercise by Basmijjan & Wolf. Muscle testing and functions - Kendall - Williams & Wilkins. Clinical evaluation - Lacote (for Isolated assessment of abdominal muscles), Churchill Livingstone. Muscle stretching & Auto stretching - Olaf Evjenth, Alpta Rehab Forlag. Orthopedic Evaluation- Magee (only for assessment of posture), Saunders Elsevier. Physiology of joints: Kapanji; vol 1,2 & 3 Note: Latest edition of the suggested books are recommended. 									

POs	PO	PO1	PO1	PO1	PSO	PSO	PSO	PSO								
COs	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3	4
CO201.	2	3	3	3	3	3	3	3	3	2	2	3	3	3	3	2
1																
CO201.	3	3	2	3	3	3	3	3	3	3	3	2	3	3	3	2
2																

															SHAF UNIVER	RDA RSITY
CO201. 3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3
CO201. 4	3	3	3	3	3	3	3	3	2	3	2	2	3	2	3	2
CO201. 5	3	2	3	3	3	3	3	3	2	3	2	2	3	3	2	3
CO201. 6	3	3	2	3	3	3	3	3	3	2	2	2	3	2	3	2

	hool:	Batch : 2020-24									
	AHS										
	ogram: PT	Current Academic Year: 2021-22									
	ranch:	Semester:3rd									
1	Course	BPT210									
	Code										
2	Course	Foundation of Exercise Therapy & soft Tissue Manipulation									
	Title										
3	Credits	5									
4	Contact	4-1-0									
	Hours										
	(L-T-P)										
	Course	Compulsory									
	Туре										
5	Course	1.Describe basic concepts of exercise therapy-positions, types of movements, classification									
	Objective	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 basics of									
	Outcomes	mechanicsinvolved in exercise therapy.									
		CO2: Describe and demonstrate fundamental and derived positions,									
		CO2. Describe and demonstrate estive respired movements and soft tissue manipulation									
		CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation CO4: Demonstrate and apply									
		relaxation techniques									
		CO5: Descibe 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	At the end of the course, the candidate will have a better understanding of the principles of									
/	Descriptio	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.									
	n	will be enhanced unough hands on training provided during the practical nours.									



8	Outline syl	lahus				CO					
0	Outillic syll	labus				Mapping					
	Unit 1	Introduction to Exer	cise Therapy								
	А			imsofExerciseTherapy,Thetechniq		CO1,					
		Therapy, Approach to	patient's prol	lems, Assessment of patient's cond	dition –	CO2					
	В	Measurements of									
		Vital parameters									
	С	Starting Positions–Fu	ndamental pos	tions & amp; derived Positions, Pla	anning of						
		Treatment	1	1, , , , , , , , , , , , , , , , , , ,	U						
	Unit 2	MethodsofTesting									
	А	Measurement of Joint range by Goniometer									
	В	Tests for neuromuscu	lar efficiency-	lectric Test, MMT, Anthropometri	ic	CO1,					
		· · ·	power Test, Dy	namic powerTest,Endurance testSp	beed test, Co-	CO5					
		ordination									
		& sensation test,Pulm	onary Function	tests							
	С	MeasurementofLimbI	Length:truelim	length,apparentlimblength,segmer	ntallimblength.						
		Measurement of the ar	-	• • • •							
	Unit 3	Relaxation Therapy									
	А	Definitions:MuscleTone,Posturaltone,VoluntaryMovement,Degreesofrelaxation, Pathological tension in muscle									
	D	Pathological tension in muscle									
	В	Stress mechanics, types of stresses, Effects of stress on									
	~	the body mechanism, Indications of relaxation, Methods & techniques of relaxation.									
	C	I I		obson's,Mitchel's, additional met	hods	<u> </u>					
	Unit 4	Passive & Active Mo	ovements			CO1,C					
	A	Classification Princir	las indication	, contraindications, effects ,uses &	tachniques of	02					
	A	Passive movements	nes, mulcation	, contraindications, effects ,uses &	teeninques of						
	В		les indication	, contraindications, effects ,uses &	techniques of						
	Ľ	Active movements	, maieanon		coolinques of						
	С		ts type uses	,Progressive resisted exercise	&						
		Isokinetic exercise, O	• 1								
	Unit 5	Soft Tissue Manipul	ation			CO1,C					
	A	History and Classifica	ation of Soft Ti	sue Manipulation		02					
	B	Principles, Indications									
	C				ons						
	Mode of	Technique, Physiological and Therapeutic Uses of Specific Manipulations Theory/Jury/Practical/Viva									
	examinati	incorgio argit radious viva									
	on										
	Weightag	CA MTE ETE									
	e	30%	20%	50%							
	Distributi										
	on										



	🤜 🌽 Beyon	d Boundaries
Text	1) Practical exercise therapy - Hollis Blackwell scientific publication.	
book/s*	2) Therapeutic exercises basmajian William & amp; Wilkins.	
	3) Therapeutic exercises foundations and techniques kisner& Colby La Davis.	
	4) Principle of exercise therapy Gardiner cbs Delhi.	
	5) Orthopedic physical therapy woods Churchill Livingstone.	
	6) Manual examination and treatment of spine and extremities wads worth.	
Other		
Reference		
S		

PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PO1	PO1	PSO	PSO	PSO	PSO
1	2	3	4	5	6	7	8	9	0	1	2	1	2	3	4
2	3	3	3	3	3	3	3	3	2	2	3	3	3	3	2
3	3	2	3	3	3	3	3	3	3	3	2	3	3	3	2
3	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3
3	3	3	3	3	3	3	3	2	3	2	2	3	2	3	2
3	2	3	3	3	3	3	3	2	3	2	2	3	3	2	3
3	3	2	3	3	3	3	3	3	2	2	2	3	2	3	2
·	$ \begin{array}{c} 1\\ 2\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									

Tem	TICAL	
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 Hours (L-T-P)	0-0-4
	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



7	Course Description	CO2:Describe patho-mechan CO3:Define n with various c CO4:Analyse axis CO5:Analyse gait. CO6: Describe ,nertebral colu	e mechanics of ics associated ormal mechani onditions, normal mecha the patho mech e biomechanica umn.	chest wall with variou ics and pat unics of po hanics asso s of should e Knowled	ontraction and recruit during various mov- us chest conditions an ho mechanics of TM sture and gait in varie ociated with abnorma der,elbow,wrist,hip,kr ge of anatomy and en of the principles of bi	ements and the nd deformities J associated ous planes and l posture and nee,ankle joint
	Description				l and various other d	
8	Outline syllabu		CO Mapping			
	Unit 1		s of the verteb	ral colum	n	
	Α	Brief	CO1, CO6			
	В	Movement				
	С	Muscles palpa				
	Unit 2	Biomechanic	Co1,CO6			
	А	Brief				
	В	Movement				
	С	Muscles palp				
	Unit 3	Biomechanics	CO1,CO6			
	А	Brief				
	В	Movements				
	С	Muscles palpa	tion &joints of	f of Lower	Limb	
	Unit 4	Analysis of p				CO4,CO5
	Α	kinematics of	*			
	В	Normal postur				
	C	Abnormal pos				
	Unit 5	Analysis Of C		_		CO4,CO5
	A		d kineticsof ga	uit,		
	B	Normal Gait				
	C	Identify abnor				
	Mode of examination	Practical/Viva	L			
	Weightage	CA	MTE	ETE		
	Distribution	60%	0%	40%		
	Text book/s*		ical principles: ure & Fur ics- Nordin		orkins	



			S Be
C	Other	1. Therapeutic exercise by Basmijjan & Wolf.	
F	References	2. Muscle testing and functions - Kendall - Williams &	
		Wilkins.	
		3. Clinical evaluation - Lacote (for Isolated assessment of	
		abdominal muscles), Churchill	
		Livingstone.	
		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	PO1
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

Sc	chool: SAHS	Batch : 2020-24
	ogram:	Current Academic Year: 2021-22
BI		~
Bı	ranch:SAHS	Semester:3rd
1	Course	BPT260
	Code	
2	Course	Foundation of Exercise Therapy & soft Tissue Manipulation(LAB)
	Title	
3	Credits	2
4	Contact	0-0-4



	Г	🗧 🍼 Beyo	nd Boundaries
	Hours (L-T-P)		
	Course	Compulsory	
	Туре		
5	Course Objective	 Describe basic concepts of exercise therapy-positions, types of movements, classif 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 	ication
6	Course Outcomes	CO1:At the completion of course the student shall be able to describe the basics of mechanicsinvolved in exercise therapy.	
	Outcomes	mechanicsmvorved m exercise merapy.	
		CO2: Describe and demonstrate fundamental and derived positions, vital parameters	
		CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation	
		CO4: Demonstrate and apply relaxation techniques	
		CO5: Descibe the various assessment techniques needed	
		during patient assessment and examination like Goniometry and Manual muscle test CO6: Describe the skills involved and	ing.
		benefits of various equipments used in therapeutic gymnasium.	
7	Course Description	At the end of the course, the candidate will have a better understanding of the princip exercise therapy both basic and advanced as well as assessment techniques. The stud will be enhanced through hands on training provided during the practical hours.	
8	Outline syllat	bus	CO Mapping
	Unit 1	Introduction to Exercise Therapy	11 0
	А	Brief	CO1, CO2
	В	Measurements of	
		Vital parameters	
	С	Demonstrate Starting Positions–Fundamental positions & amp; derived Positions, Planning of Treatment	
	Unit 2	MethodsofTesting	
	A	Measurement of Joint range by Goniometer	
	В	Demonstrate MMT, Anthropometric Measurement, Static power Test, Dynamic	CO1,
		powerTest,Endurance testSpeed test, Co-ordination	CO5
		& sensation test,Pulmonary Function tests	
	С	Measuremen tof	
		LimbLength:truelimblength,apparentlimblength,segmentallimblength,Measuremen t of the angleofPelvicInclination	
-	Unit 3	Relaxation Therapy	
	A	Brief	CO1,CO4
	ı'		, - • •



			Bey	ond Boundaries				
В	Methods of relaxation							
С	Demonstration of rela	xatation techniques						
Unit 4	Passive & Active Mo	vements		CO1,CO 2				
А	Brief							
В	Demonstrate Techniques of active movement							
С	Demonstrate Techniques of passive movements							
Unit 5	Soft Tissue Manipulation							
А	Brief							
В	Demonstrate the techr	niques						
С	Therapeutic Uses of S	pecific Manipulations						
Mode of examinatio n	Practical/Viva							
Weightage	СА	MTE	ETE					
Distribution	60%	0%	40%					
Text book/s*	 1) Practical exercise therapy - Hollis Blackwell scientific publication. 2) Therapeutic exercises basmajian William & amp; Wilkins. 3) Therapeutic exercises foundations and techniques kisner& amp; Colby La Davis. 4) Principle of exercise therapy Gardiner cbs Delhi. 5) Orthopedic physical therapy woods Churchill Livingstone. 6) Manual examination and treatment of spine and extremities wads worth. 							
Other References		k						

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

Batch : 2020-24						
Current Academic Year: 2021-22						
Semester:4th						
BPT 219						
EXERCISE THERAPY						

Prepared by : SU/SAHS



	Title	S S Bey	ond Boundaries
3	Credits	7	
4	Contact	6-1-0	
	Hours		
	(L-T-P)		
	Course	Compulsory /Elective/Open Elective	
	Туре		
5	Course	In this course, the students will learn the principles and effects of exercise as a therap	eutic
5	Objective	modality and	Jeane
	Objective	will learn the techniques in the restoration of physical functions.	
		win learn the teeninques in the restoration of physical functions.	
6	Course	CO1:At the end of the year the student will be able: To use & describe advanced the	apeutic
Ŭ	Outcomes	exercises used for devising rehabilitation protocol for various conditions.	upeutie
	outcomes	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	llussuge
		balance and coordination exercises.	
		CO4. To acquire the skills of application of various techniques to improve pulmonar	v function
		as well as	yrunetion
		to regain maximum strength of muscles, its therapeutic uses and merits-demerits of the	he same
		CO5. To describe various assistive aids and gait training, posture.	ne sume.
		COS. 10 deseribe various assistive and sait training, postare.	
7	Course	After the course on exercise therapy student will be able to understand the differ	ent
ŕ	Descriptio	types of exercise for the benefit of patient in different situations and conditions both	
	n	-	1 111
		health and disease or disorder.	
	0 11 11	•	
8	Outline sylla	bus	CO
			Mapping
	Unit 1		
	А	Specific exercise regimens	CO1,
		specific excicise regimens	CO2
-	В	Proprioceptive NeuromuscularFacilitation	
	D	Tophocephive Neuroinusculari acintation	
-	С	Functional Re-education	
	C		
	Unit 2		
	A A	Aerobic Exercise	
	B	Stretching	CO1,
		Successing	CO3
	С	Manual Therapy & Peripheral JointMobilization	
	\sim		
	Unit 3		
	A	Balance	CO2,CO
	11	Buluite	5
	В	Co-ordinationExercise	5
1 1	1)		
	2		
	<u>C</u>	Posture	



T T 1 / 1	<u> </u>				 				
Unit 4									
A	WalkingAids				CO4,0				
					5				
В	Basics in Manual Therap	py & Applicati	ons with (Clinical					
	reasoning								
C	.Maitland,mulligan,Mck Neuro Dynamic Testing		EnergyTeo	chnique,Myofascialstretching,Cyriax					
Unit 5									
А	Hydrotherapy								
В	Individual and GroupExercises								
С	Introduction toYoga	Introduction to Yoga							
Mode of	Theory/Jury/Practical/V	'iva			1				
examinatio									
n									
Weightage	CA	MTE		ETE					
Distributio	30%	20%		50%					
n		<u> </u>							
Text	•	1. Kisner and Colby. F.A. Davis, Therapeutic Exercises Foundations and Techniques							
book/s*	2. Williams and Wilkins	· •							
	3. Hollis, Lab Exercise								
	4. Gardiner, Principle of								
		Davis, Meası	urement o	of Joint Motion: A Guide to					
	Goniometry								
	6. Wood - W.B. Saunder	rs, Beard's Ma	ssage.						
Other	Reference Books:	1 .1							
References		•	I • ·	iples and Practices, 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								
	•	ipulation and N	<i>A</i> lobilizati	ons 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.	a Manual exan	nination a	ind treatment of spine and					
		saga for there	nist. Mor	corott Hollic					
	7. Margarett Hollis, Mas	ssage for thera	pist. Marş	galett 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
0020110	U	C	-	U	U	2	C	C	C	C	C

	hool: SAHS	Batch : 2020-24									
	ogram: PT	Current Academic Year: 2021-22									
Bı	anch:SAH	Semester:4th									
S											
1	Course	BPT 220									
_	Code										
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 Outcomes	CO2: Able to select the appropriate modalities in different conditions CO3: Able to select the appropriate dosages of different Electrotherapy modaliti different goals CO4:Demonstrate the indication and contraindications of various modalities	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								
7	Course Description	In this course the student will learn the principles, technique, and effects of elect therapeutic modality in the restoration of physical function.	trotherapy as a								
8	Outline sylla	bus	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								
	B	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-DIAGN	•••	веуопа воundaries		
	A	Characters of Norma	ally innervated Musc	D Curve, Apparatus selection, le, Characters of Partially Denervated vated Muscle, Chronaxie & Rheobase.		
	В	Nerve conduction ve	elocity studies,EMG:	Construction of EMG equipment.	CO1, CO3	
	С	Bio-feedback				
	Unit 3	MEDIUM FREQU	ENCY CURRENTS		CO1,CO2	
	A	InterferentialTherapy ProductionofIFT,Phy effects,Indications&		eof & Therapeutic		
	В	RussianCurrent				
	С	ReboxtypeCurrent				
	Unit 4	THERMO&ACTI	NOTHERAPY(HIG	H FREQUENCY CURRENTS)	CO1,CO3	
	А	SWD, Pulsed Electro PrincipleofProductio tions & Contraindica				
	В	Ultrasound, IRR, UVR:PrincipleofPro Indications & Contra				
	C		on,Method,Types,Phy aindications,Dangers,	vsiological&Therapeuticeffect Dosage parameters		
,	Unit 5		EATING MODALI		CO1,CO2,CO 3	
	A	WaxTherapy, MethodofApplicatio	th, MoistHeatTherapy dications&Contraindications			
	В	Fluidotherapy, Whir MethodofApplicatio		dications&Contraindications		
	C	Cryotherapy:Princip	prapeuticseffects, Techniques cations, Dangers, Methods of			
	Mode of examinatio n	examinatio				
	Weightage	СА	MTE	ETE		
	Distributio n	30%	20%	50%		
	Text		Therapy, CBS Publi			
	book/s*	2000		d, Butterworth-Heinemann Limited,		
	Other	-	and cold by Lehmann			
	References	2. Principle and prac				



3. Electrotherapy: Clinics in physical 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 various 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									
0	Outcomes	medical law and ethics									
	outcomes	CO2: Able to know the legal and illegal issues faced in hospital									
		CO3: The students should understand the code of ethics for physiotherapist									
		CO4: They will be able to treat patient more lawfully in clinical and hospital									
		setting and maintain their records.									
		CO5:Understand the importance of Ethics in the relative field & basic									
		concepts of Ethics.									
7	Course	The students will enable to know about evolution of Physiotherapy, identify									
	Description	various laws and regulation that should be followed during clinical practice of									
		Physical Therapy.									



						B e	
						1	
8	Outline syllabi					CO Mapping	
	Unit 1	Medical ethi	cs versus m	edical law			
	A	Introduction	to Code ofco	nduct		CO1, CO2	
	В	Basicprincipl	es ofmedical	ethics-Confidenti	ality		
	C	Malpractice a irrationaldrug					
	Unit 2	Autonomy a					
	A	Care of the te					
	В	Organ transpl		CO1, CO3			
	С	Medical diag	gnosis				
	Unit 3	Medicolegal					
	А	Medicolegalc MLC- owner	CO1,CO4				
	В	Confidentiali					
	С	Releaseof me					
		retentionof m					
	Unit 4	Professional					
	А	Development sentinel even	oid near missor				
	В	Obtaining an	informedcor	isent			
	C	Biomedical e	thical princip	oles			
	Unit 5					CO1,CO3,CO5	
	Α	Code of ethic					
	В	Ethics docum	ents for phys	siotherapists			
	C	Laws affectin	• • •				
	Mode of examination	Mode of Theory/Jury/Practical/Viva					
	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											
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

*	SHARDA
	UNIVERSITY Beyond Boundaries

CO5	3	2	2	2	2	2	2	2	2	2	2

SEMESTER 4 Template 4 PRACTICAL

Sc	hool:	Batch : 2020-24										
	AHS											
Pr	ogram: PT	Current Academic Year: 2021-22										
	ranch:SAH	Semester:4th										
S	G											
I	Course Code	BPT 264										
2	Course Title	EXERCISE THERAPY										
3	Credits	6										
4	Contact Hours (L-T-P)	0-0-3										
	Course Type	Compulsory /Elective/Open Elective										
5	Course Objective	, I I										
6	Course Outcomes	 CO1:At the end of the year the student will be able: To use & describe advanced thera 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, m techniques,yoga balance and coordination exercises. CO4. To acquire the skills of application of various techniques to improve pulmonary as well as to regain maximum strength of muscles, its therapeutic uses and merits-demerits of th CO5. To describe various assistive aids and gait training,posture. 	nassage function									
7	Course Descriptio n	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 health and disease or disorder.										
8	Outline sylla	lbus CO Maj										
	Unit 1 A		CO1,									
	A	Demonstrate Specific exercise regimens	CO1, CO2									



				d Boundar
В	Demonstrate Proprioce	ptive Neurom	nuscularFacilitation techniques	1
C	Demonstrate technique	es of Functior	nal Re-education	
Unit 2	<u> </u>			
А	Demonstrate Aerobic E	Exercise		ı
В	Demonstrate technique	es of Stretchin	ıg	CO1, CO3
C	Demonstrate Manual T	Therapy & Peri	ripheral Joint Mobilization	
Unit 3				ı
А	Demonstrate methods	of Balance		CO2,C 5
В	Demonstrate exercise f	for training Co	o-ordination	
C	Assess Posture			
Unit 4				
A	Demonstrate different V			CO4,C 5
В	Demonstrate Manual th	ierapy		
C	Demonstrate Maitland,mulligan,Mck Neuro Dynamic Testing		eEnergyTechnique,Myofascialstretching,Cyriax	
Unit 5				
А	Demonstrate Hydrother			CO2,C 3
В	Demonstrate Individua	and GroupE	Exercises	
С	Demonstrate different	Yoga		
Mode of examinatio n	Practical/Viva			
Weightage	CA	MTE	ETE	í
Distributio n	60%	0%	40%	
Text book/s*	 Williams and Wilkin Hollis, Lab Exercise Gardiner, Principle of 	ns, Therapeutic Therapy, Blac of Exercise The A. Davis, Mea	ackwell Scientific Publications. herapy, C.B.S. Delhi. asurement of Joint Motion: A Guide to	
Other References	Reference Books: 1. Butterworth Heinman 2. Kendal , Muscle testi 3. Daniels and Worthin Saunder.	nn, Hydrother ting and function ngham's - Muso	rapy, Principles and Practices , Campion . ions , Williams & Wilkins. scle testing - Hislop & Montgomery - W.B. d Mobilizations extremities and spinal	



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

Sak		Batch : 2020-24								
	ool: SAHS									
	gram: BPT	Current Academic Year: 2021-22								
	nch:SAHS	Semester:4th								
1	Course Code	BPT 265								
2	Course Title	ELECTROTHERAPY								
3	Credits	6								
4	Contact	0-0-3								
	Hours									
	(L-T-P)									
	Course Type	Compulsory /Elective/Open Elective								
5	Course	.The objective of this course is that the student will be able to list the								
	Objective	indications and contra								
		indications of various types of electrotherapeutic modalities, demonstrate the								
		different								
		techniques, and describe their effects								
6	Course	CO1: Able to demonstrate the techniques of application of various								
	Outcomes	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									
	Description	In this course the student will learn the principles, technique, and effects of								
		electrotherapy as a								



		therapeutic me	odality in the re	estoration of physical function.	8 e ;
8	Outline syllab	15			CO Mapping
	Unit 1		UENCY CUR	RENTS	
	A	Techniques o and Group Mu	CO1, CO2		
	В	Faradism und	ler pressure for	UL and LL, Faradic foot bath	
	C		TENS Electro		
	Unit 2	ELECTRO-I			
	А	Demonstrate l			
	В			ronaxia and rheobase	CO1, CO3
	С		f Bio-feedback		
	Unit 3	MEDIUM FI	REQUENCY	<u>CURRENTS</u>	CO1,CO2
	A	Brief			
	В	Demonstration			
	C	Application of			
	Unit 4	THERMO& FREQUENC	CO1,CO3		
	Α	Demonstrate t			
		ElectroMagne			
	В	Application of			
	С	Aplication of			
,	Unit 5			<u>G MODALITIES</u>	CO1,CO2,CO3
	A	Demonstrate Therapy, Con			
	В	Demonstrate t WhirlPoolBat		Application Fluidotherapy,	
	С	Demonstrate t	he Techniques	ofApplications	
	Mode of examination	Practical/Viva	1		
	Weightage	СА	MTE	ETE	
	Distribution	60%	0%	40%	
	Text book/s*	&Distributors	d, Electro ther	y, CBS Publishers apy Explained , Butterworth-	
	Other		c heat and cold	by Lehmann.	
	References	2. Principle an	nd practice of E	Electrotherapy by Joseph Kahn 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
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

Sch	ool:	Allied health science	Batch : 2020-24				
Program:		BPT	Current Academic Year: 2022-23				
Branch:		Semester: 5th					
1	Course Code	BPT 310					
2	Course Title	Clinical Orthopedics&Traumatology					

Prepared by : SU/SAHS



3	Credits	3-0										
4	Contact	3										
	Hours											
	(L)											
	Course Type	Compulsory										
5	Course	The objective	e of this course is that after	60 hrs of lect	ures and							
	Objective	discussion th	e student will be able to de	monstrate an	understanding							
		of orthopedic conditions causing disability, list the										
		gationsandma	nagement.									
6	Course		will be able to:									
	Outcomes CO1:Demonstrate an understanding of orthopaedic conditions causing disability, list the etiology clinical features and methods of investigation											
		and managem		and methods of	investigations							
		-		per and lower	limh fractures							
	CO2:To understand the traumatology of upper and lower limb fracture with their management.											
			rstand the pathophysiology of	f various muscu	ıloskeletal							
		conditions con	ngenital and acquired anomali	les with its treat	tment protocol.							
			rstand the management of var	-	-							
			rstand various injuries and de	formities of mu	ısculoskeletal							
		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										
	Desemption	encounter in their practice.										
0	Quellin a avillaba				CO							
8	Outline syllabi	us			CO Mapping							
	Unit 1				widpping							
	A	Fractures of	upper and lower limbs and	spine	CO1, CO2							
	В	DiseaseofBor			,							
	С	Congenitaland	Acquireddeformities									
	Unit 2											
	А	Inflammatorya	ndDegenerativeConditions									
	В	Neuromuscula	ar Disorders		CO1, CO3							
	С	Cervical and	Lumbar Pathology									
	Unit 3											
	А	Orthopedic S										
	В	RegionalCond	itions									
	C	Syndromes										
	Mode of	Theory/										
	examination											
		~ .			1							
	Weightage	CA	MTE	ETE								
	Distribution	30%	20%	50%	1							
		30% Outline of Fr	20% actures—John Crawford A	50% .dams. 2.								
	Distribution	30% Outline of Fr Outline of O	20%	50% .dams. 2. rd Adams. 3.								



Orthopedics. 5. Textbook of Orthopedics and	
Traumatology— 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)

Sch	lool:	Allied health science	Batch : 2020-24
	gram:	BPT	Current Academic Year: 2022-23
Bra	inch:	Semester: 5th	
1	Course Code	BPT 350	
2	Course Title	Clinical Orthopedics&Tra	umatology (Practical)
3	Credits	1	
4	Contact	2	
	Hours		
	(P)		
	Course Type	Compulsory	
5	Course	5	rse is that after 60 hrs of lectures and
	Objective		ill be able to demonstrate an understanding
			causing disability, list the etiology,
		clinical features and meth	hods of investigationsandmanagement.
6	Carrier	The start we see 11 here 1 here	4
6	Course	The student will be able	
	Outcomes		rstanding of orthopaedic conditions causing clinical features and methods of investigations
		and managment.	childen features and methods of investigations
		-	umatology of upper and lower limb fractures
		with their management.	
		CO3:To understand the pa	thophysiology of various musculoskeletal
		conditions congenital and a	acquired anomalies with its treatment protocol.
			anagement of various orthopaedic surgeries.
			s injuries and deformities of musculoskeletal
		system with its treatment P	rotocol.
7	Course	This subject follows the l	hasia asianaa ayhiasta ta mayyida tha
/			basic science subjects to provide the edic conditions the therapist would
	Description	encounter in their practic	1
			λ.



8	Outline syllab	us			CO Mapping					
	Unit 1									
	А	Fractures of	upper and lower limbs and	spine	CO1, CO2					
	В	DiseaseofBor	nesandJoints	_						
	С	Congenitaland								
	Unit 2									
	А	Inflammatorya	InflammatoryandDegenerativeConditions							
	В	Neuromuscula	CO1, CO3							
	С	Cervical and								
	Unit 3									
	А	Orthopedic S	Surgeries							
	В	RegionalCond	itions							
	С	Syndromes								
	Mode of	Practical								
	examination									
	Weightage	CA	MTE	ETE						
	Distribution	60%	0%	40%						
	Text book/s*	Outline of Fr	actures—John Crawford A	dams. 2.						
		Outline of Orthopedics.— John Crawford Adams. 3.								
		Text book of	Orthopedics.—Maheswar	i. 4. Apley's						
		ics 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)

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	Genera Surgery	
3	Credits	3-0	
4	Contact	3	
	Hours		
	(L)		
	Course Type	Compulsory	
5	Course	The objective of this course is	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	investigationsand	lmanagemer	nt.					
6	Course Outcomes	The student will be able to: CO1:List the indications for surgery, etiology, clinical features and surgical methods for various conditions CO2:Plan a better rehabilitation care for patients pre and post surgically									
		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 injuries with its treatment Protocol									
7	Course Description	will help to p General Surg of various su practice. It w and procedu	This course is designed to develop the basic science subjects which will help to provide the basic knowledge about relevant aspects of General Surgery. This will help student gain better understanding of various surgical conditions a therapist encounters during their practice. It will help them understand common surgical conditions and procedures so that implication of rehabilitation to surgical patients become easy.								
8	Outline syllab		CO Mapping								
	Unit 1	Unit 1									
	А	Fluid, Electrolyte and Acid-Base disturbances									
	В	Reasons for Su									
	С	Surgical Onc	cology								
	Unit 2										
	А	Diseases of th	ne Arteries a	undVeins							
	В	Disorders of	the Heart			CO1, CO3					
	С	Thoracic sur	geries								
	Unit 3										
	А	Burn				CO4, CO5					
	В	Disordersof t	the ChestW	all, Lung and Me	diastinum						
	С	Describethen gynae conditi		normalphysiologic	calevent in						
	Mode of examination	Theory									
	Weightage	CA	MTE	ETE							
	Distribution	30%	20%	50%							
	Text book/s*	Text book/s*General Surgical Operations – by Kirk / Williamson2. Surgery by Nan 3. Bailey andLove's – ShortPractice of Surgery 4. Chest Disease by CroftonandDouglas. 5. Patrica A Downie, Text book ofHeart, Chest Vascular Disease for physiotherapists,JP Br									

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
02	2	5	5	5	5	Ζ.	3	5	5	5	5



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)

	mplate 2 (2) 100l:	Allied health science Batch : 2020-24								
	ogram:	BPT Current Academic Y	/ear: 2022-23							
	anch:	Semester: 5 th semester								
1	Course Code	BPT 359								
2	Course Title	General Surgery (Practical)								
3	Credits	1								
4	Contact	2								
	Hours									
	(P)									
	Course Type	Compulsory								
5	Course	The objective of this course is that after 60 hrs of lect	ures and							
	Objective	discussion the student will be able to demonstrate an understanding								
	-	of surgical conditions causing disability, list the etiological	of surgical conditions causing disability, list the etiology, clinical							
		features and methods of investigationsandmanagement	nt.							
6	Course	The student will be able to:								
	Outcomes	CO1:List the indications for surgery, etiology, clinical fea	atures and							
		surgical methods for various conditions								
		CO2:Plan a better rehabilitation care for patients pre and								
		CO3: clinical decision making ability and management ex	•							
		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	This course is designed to develop the basic science								
,	Description	will help to provide the basic knowledge about relev								
	Description	General Surgery. This will help student gain better	-							
		of various surgical conditions a therapist encounter								
		practice. It will help them understand common surgi								
		and procedures so that implication of rehabilitation								
		patients become easy.								
8	Outline syllab	l us	СО							
			Mapping							
	Unit 1									
	А	Fluid, Electrolyte and Acid-Base disturbances	CO1, CO2							
	В	Reasons for Surgery								
	C	Surgical Oncology								
	Unit 2									
	А	Diseases of the Arteries and Veins								
	В	Disorders of the Heart	CO1, CO3							
	С	Thoracic surgeries								
	Unit 3									
	Α	Burn	CO4, CO5							
	В	Disordersof the ChestWall, Lung and Mediastinum								



С		Describethenormalandabnormalphysiologicalevent in gynae conditions						
Mode of examination	Practical	Practical						
Weightage	CA							
Distribution	60%	0%	40%					
Text book/s*	2. Surgery by Practice of Su andDouglas.	General Surgical Operations – by Kirk / Williamson 2. Surgery by Nan 3. Bailey andLove's – Short Practice of Surgery 4. Chest Disease by Crofton andDouglas. 5. Patrica A Downie, Text book of Heart, Chest Vascular Disease for physiotherapists,						

POs	Р	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
COs	0										
	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)

	Template 5	
Scł	100l:	Allied health scienceBatch : 2020-24
Pro	ogram:	BPT Current Academic Year: 2022-23
Bra	anch:	Semester: 5 th semester
1	Course	BPT 308
	Code	
2	Course	
	Title	General Medicine,Paediatrics&psychiatry
3	Credits	3-0
4	Contact	3
	Hours	
	(L)	
	Course	Compulsory
	Туре	
5	Course Objective	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 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 resultant functional disability. This would help the candidates to understand the limitation imposed by the diseases on any therapy that may be prescribed.
6	Course	The student will be able to:



	Outcomes	CO1 : To understand pathophysiological changes in infec	tious and metabolic disorders with the								
		treatment									
		CO2 : To understand pathophysiological changes in respi									
		CO3 : To understand pathophyisological changes in cardi	ovascular disorders with their								
		treatment	tological can dition a with their								
		CO4 : To understand pathophysiological changes in hema treatment	alongical conditions with their								
		CO5: The student will be able to differentiate pediatric cases and handling the cases will									
		become easier as they can relate theoretical knowledge with	-								
		cecome custor as moy can retaile meetoren ano reage whit practical tearning									
7	Course	It covers relevant aspects of General Medicine and Pe	diatrics conditions in which								
	Description	Physiotherapy play a significant role.									
	_	This course is designed to develop the basic knowledge of									
		pediatric patient, its special needs in relation to physical th	erapy which will help them provide								
		good rehabilitation.									
0	O		CO Manufact								
8	Outline syllab	Jus	CO Mapping								
	A	Infection	<u>CO1 CO2</u>								
	B		CO1, CO2								
	С	Poisoning Endocrine diseases									
	Unit 2										
	A A	Diseases of the blood									
	B	Food and Nutrition	<u>CO1 CO2</u>								
	С		CO1, CO3								
	Unit 3	Diseases of the digestive system									
	A A	Concentral abnormalities and management	CO3, CO4								
	B	Congenital abnormalities and management Epilepsies and Modalities of psychiatric treatment,	03,004								
	D	Psychiatric illness and physical therapy link									
	С	Orthopedic and Neuromuscular disorders in									
	C	childhood and Child psychiatry: Brief descriptions									
		of manifestations, and management of childhood									
		disorders attention deficit syndrome, and behavioral									
		disorders									
	Unit 4										
	А	Sensory disorders	CO2, CO1								
	В	Learning and behavioural problems and Brief									
		description of Etio-pathogenesis, manifestations,									
		and management of psychiatric illness a. Drug									
		dependence and alcoholism b. Somatoform and									
		Dissociate Disorders – conversion reactions,									
		Somatization, Dissociate Amnesia, and Dissociate									
	~	Fugue c. Personality disorders. Geriatric Psychiatry.									
1	C										
		pathogenesis, manifestations, and management of									
		psychiatric illnesses a. Anxiety neurosis b.									
		Depression c. Obsessive compulsive neurosis d.									
		Psychosis- Definition & types e. Maniac-depressive									
		psychosis. Post-traumatic stress disorder g. Psychosomatic reactions: Stress and Health.									
	Mode of	Theory									
	examination										
L											



Weightage	CA		MTE	ETE	Beyon.			
Distribution	30%		20%	50%				
Text	1.	Davidso	on principle and p	practice of medicine.				
book/s*	2.	Clinical	l methods of medicine by Hutchinson					
	3.	Nelson	text book of peo	diatrics-Behraman &				
		varghan						
	4.	Essential	pediatric by O.P	Ghai				

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) School: Allied health science Batch : 2020-24 **Current Academic Year: 2022-23 Program:** BPT Semester: 5th semester **Branch: BPT 358** Course 1 Code 2 Course Title General Medicine, Paediatrics&psychiatry (Practical) 3 Credits 1 4 Contact 2 Hours (P) Course Compulsory Type 5 Course The objective of this course is that after 60 hours of lectures, demonstrations, in Objective addition to clinics the student will be able to demonstrate a general understanding of 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 resultant functional disability. This would help the candidates to understand the limitation imposed by the diseases on any therapy that may be prescribed. 6 Course The student will be able to: Outcomes 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 pathophyisological changes in cardiovascular disorders with their treatment CO4 : To understand pathophysiological changes in hematological conditions with their 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 Description	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 pediatric patient, its special needs in relation to physical therapy which will help them provid good rehabilitation.									
8	Outline syllal	bus			CO Mapping						
	Unit 1										
	А	Infection			CO1, CO2						
	В	Poisoning									
	С	Endocrine dise	ases								
	Unit 2										
	А	Diseases of the	blood								
	В	Food and Nutr	tion		CO1, CO3						
	С	Diseases of the	digestive syste	m							
	Unit 3										
	А	Congenital abn	ormalities and	management	CO3, CO4						
	В			sychiatric treatment,							
		Psychiatric illn	ess and physica	ll therapy link							
	С		l Neuromuscula								
		childhood and	Child psychiatr	y: Brief descriptions							
		of manifestatio	ns, and manage	ement of childhood							
		disorders atten	tion deficit sync	lrome, and behavioral							
		disorders									
	Unit 4										
	А	Sensory disord		CO2, CO1							
	В	Learning and b	ehavioural prob	olems and Brief							
				sis, manifestations,							
			nt of psychiatri								
		-	d alcoholism b.								
			orders – conver								
			Dissociate Amn								
		-		. Geriatric Psychiatry.							
	C		and Brief descri	±							
		1 0		and management of							
			esses a. Anxiet								
		1	1	ulsive neurosis d.							
				e. Maniac-depressive							
			t-traumatic stres								
		rsychosomatic	reactions: Stre								
	Mode of	Practical									
	examination	Tactical									
	Weightage	СА	MTE	ETE							
	Distribution	60%	0%	40%							
	Text			l practice of medicine.							
	book/s*		1 1	-							
	000K/ 5			edicine by Hutchinson							
			-	ediatrics-Behraman &							
		varghar									
		4. Essentia	l pediatric by O.	P Ghai							



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 4 (1)

Sch	lool:	Allied health science	Batch : 2020-24							
Pro	gram:	ВРТ	Current Academic Year: 2022-	-23						
Bra	inch:	Semester: 5 th semester								
1	Course Code	BPT 311								
2	Course Title	CommunityMedicine								
3	Credits	4-0								
4	Contact	4								
	Hours									
	(L)									
	Course Type	Compulsory								
5	Course	The objective of this cours	e is that after 60 hrs of lectures and							
	Objective	discussion the student will	be able to demonstrate an understandi	ng						
		of various aspects of health	and disease list the methods of health	1						
			cation and disease preventive measures	s.						
6	Course	The student will be able to:								
	Outcomes	Outcomes CO1:to understand concept of community								
		CO2: To understand role of rural and urban communities in public								
		health	-							
		CO3:To understand role of c	ommunity in determining beliefs, practice	es						
		and home remedies in treatm								
		CO4:To understand various	aspect of health and disease in community	y						
		CO5: To understand health	education and disease preventive							
		measures.								
7	Course	Subject follows the basic science subjects to provide the								
	Description	knowledge about conditions the therapist would encounter in their								
		practice in the community								
0										
8	Outline syllab	us	CO							
	Unit 1		Mapping							
		HealthandDisease	C01_C0	<u></u>						
	AB		CO1, CO	2						
	D	Epidemiology, definition and s	cope							



С	Publichealthad	ministration						
Unit 2								
А	Healthprogra							
В	Hospital waste	Hospital waste management						
С	DisasterManage	ement						
Unit 3		CO4, CO5						
А	Occupational	Health						
В	HealthEducat	ion						
С	Nutritional ed	ductaion						
Mode of	Theory							
examination		-						
Weightage	CA	ETE						
Distribution	30%	20%	50%					
Text book/s*	Park and Par	Park and Park						

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)

1	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	2									
	Hours										
	(P)										
	Course Type	Compulsory									
5	Course	he objective of this course is that after 60 hrs of lectures and									
	Objective	discussion the 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 Description	Subject follows the basic science subjects to provide the knowledge about conditions the therapist would encounter in their practice in the community							
8	Outline syllabu	utline syllabus							
	Unit 1					Mapping			
	А	HealthandDis	HealthandDisease						
	В		Epidemiology, definition and scope						
	С	Publichealthad	ministration						
	Unit 2								
	А	Healthprogra							
	В	Hospital waste	management			CO1, CO3			
	С	DisasterManage	ement						
	Unit 3					CO4, CO5			
	А	Occupational	Health						
	В	HealthEducat	ion						
	С	Nutritional e	ductaion						
	Mode of	Practical							
	examination								
	Weightage	CA	MTE	ETE					
	Distribution	60%	0%	40%					
	Text book/s*	Park and Park	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)

Sch	ool:	Allied health science	Batch : 2020-24			
Pro	gram:	BPT	Current Academic Year: 2022-23			
Branch:		Semester: 5 th semester				
1	Course Code	BPT 312				
2	Course Title	Interpretation of Diagnostic image	aging technology			
3	Credits	2-0				
4	Contact	2				
	Hours					
	(L)					
	Course Type	Compulsory				



	~	· · · · ·									
5	Course	This course covers the study of commondiagnostic and	1								
	Objective	Imaging tests. At the end of the course students will l	be aware of								
		the indications and implications of commonly used d	iagnostic								
		imaging tests as they pertain to patient's managemen	t.								
6	Course	The student will be able to:									
	Outcomes	CO1:Understand the CLINICAL and TECHNICAL	(including, the								
		cience and research)aspects of radiology.									
		CO2:Recognize basic anatomy and pathology as see	en on imaging								
		studies.									
		CO3:Be able to interpret major findings on Chest X-Ray									
		CO4: Know and understand safety issues in Radiology clinical practice									
7	C	CO5: To understand interpretation of CT and MRI	1 1								
7	Course	The course will cover that howX-Ray, CT, MRI, Ultr									
	Description	Other Medical Images are created and how they help	the health								
		professionals to save lives.									
8	Outline syllabi	10	СО								
0	Outline synabl	15	Mapping								
	Unit 1		inapping								
	A	Image interpretation	CO1, CO2								
	В	radiography	,								
	С	fluoroscopy									
	Unit 2										
	А	СТ									
	В	MRI	CO1, CO3								
	C	US and endoscopy									
	Mode of	Theory									
	examination										
	Weightage Distribution	CA MTE ETE 200/ 200/ 500/									
	Text book/s*	30%20%50%Textbook of radiology									
1	1 EXT DOOK/S*	Textbook of radiology									

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



Te	mplate 5 (2)									
Sch	nool:	Allied healt	h science	Batch : 2020-24						
Pro	ogram:	BPT		Current Academic Year: 2022-	-23					
Bra	anch:	Semester: 5	th semester							
1	Course Code	BPT 352								
2	Course Title	Interpretatio	on of Diagn	ostic imaging technology (Practical)						
3	Credits	1								
4	Contact	2								
	Hours									
	(P)									
	Course Type									
5	Course	This course	covers the s	tudy of commondiagnostic and therapeut	tic					
	Objective	Imaging tests. At the end of the course students will be aware of								
		the indicatio	ns and imp	lications of commonly used diagnostic						
		00	• 1	rtain to patient's management.						
6	Course Outcomes	CO1:Underst science and re CO2:Recogn studies. CO3:Be able CO4:Know a	The student will be able to: 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 Description		al Images a	hat howX-Ray, CT, MRI, Ultrasound and are created and how they help the health res.						
8	Outline syllab	us		CO Mapping						
	Unit 1									
	А	Image interp	retation	C01, C0	2					
	В	radiography								
	С	fluoroscopy								
	Unit 2									
	А	СТ								
	В	MRI	CO1, CO	3						
	С	US and endo								
	Mode of	Practical								
	examination									
	Weightage	CA	MTE	ETE						
	Distribution	60%	0%	40%						
	Text book/s*	Textbook of	radiology							

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



3	3	3	3	3	2	3	3	3	2	3
3	3	3	3	3	3	2	3	3	3	3
3	3	3	2	3	3	3	3	3	3	3
2	3	3	3	3	3	3	3	3	3	3
3	2	3	3	3	3	3	3	2	3	3
	3 3 2	3 3 3 3 2 3	3 3 3 3 3 3 2 3 3	3 3 3 3 3 3 3 3 2 3 3 3	3 3 3 3 3 3 3 3 3 3 2 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 3 3 2 3 3 3 3 3	3 3 3 3 3 3 2 3 3 3 3 3 3 2 3 3 3 2 3 3 3 2 3 3 3 3 3 3	3 3 3 3 3 3 2 3 3 3 3 3 3 3 2 3 3 3 3 2 3 3 3 3 2 3 3 3 3 3 3 3	3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 2 3 3 3 3 3 2 3 3 3 3 3 2 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 2 3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 2 3 3 3 3 3 2 3 3 3 3 3 3 3 3

SEMESTER-6

Tem	nlate	1	(1)	
I CIII	plate	1		

Sch	nool:	Allied health science Batch : 2020-24								
Pro	ogram:	BPT Current Academic Y	Zear: 2022-23							
Bra	anch:	Semester: 6 th semester								
1	Course Code	BPT 316								
2	Course Title	PhysiotherapyinOrthopedics& sports								
3	Credits	5-0-0								
4	Contact	5								
	Hours									
	(L)									
	Course Type	Compulsory								
5	Course	Theobjectiveofthe courseisthatafterthespecifiedhours of	lectures and							
	Objective	demonstrationsthestudent willbe ableto identify disabilities								
		duetomusculoskeletaldysfunction, plan and settreatment goals and								
		applytheskills gainedinexercisetherapyandelectrotherapyir								
		situations to restore musculoskeletal function.								
6	Course	The student will be able to:								
-	Outcomes	CO1: To understand traumatology of Upper and	d lower limb							
		fractures, with their treatment protocols.								
		CO2: Assess the patients with musculoskeletal conditions								
		CO3: To understand the pathophysiology of various i								
		and infective conditions of musculoskeletal system with its								
		treatment protocol.								
		CO4: To understand PT evaluation of Orthopedic cor	nditions.							
		CO5: To understand PT management of Orthopedic c								
7	Course	Following the basic science course, this course introduces								
	Description	the orthopedic conditions which commonly cause disabilit								
		effort is made in this course to avoid burdening the studen detail pertaining to diagnosis which will not contribute to								
		understanding of the limitation imposed by orthopedic pat								
		functioning of the individual	nology on the							
		<i>6</i>								
8	Outline syllabi	18	СО							
			Mapping							
	Unit 1									



А	PT assessmen	tfor Orthopedic	conditions	CO1, CO2				
В	Fractures			,				
С	Specificfractu	res anddisloca	ations					
 Unit 2	-							
А	Selection and techniques	Selection and application of physiotherapeutic techniques						
В	Principlesof v	CO1, CO3						
С	Degenerativear	,						
Unit 3								
А	Infective cond	Infective conditions and IntroductiontoBio-Engineering						
В	Cerebralpalsy							
С	Poliomyelitis	Poliomyelitis and lower limb injuries						
Unit 4		CO5, CO1						
А	Leprosy							
В	Amputation							
С	Upper limb i	njuries and sp	inal conditions					
Mode of	Theory							
examination								
Weightage	CA	MTE	ETE					
Distribution	30%	20%	50%					
Text book/s*			extbook of orthopedics-					
			c rehabilitation-					
			hysiotherapy - Jayant					
			tation Assessment and					
			nmitz 6. Sports					
	physiotherap	y- Maria Zulu	laga					

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)

School:		Allied health science	Batch : 2020-24
Program:		BPT	Current Academic Year: 2022-23
Branch:		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	Theobjectiveofthe courseisthat	tafterthespecifiedhours oflectures and



	Objective	duetomusculo applytheskills	oskeletaldysfu gainedinexerci	villbe ableto identifydisabilit action,plan andsettreatmentge isetherapyandelectrotherapyir skeletal function.	oals and					
6	Course Outcomes	fractures, with CO2: Assess CO3: To und and infective treatment pro CO4: To und CO5: To und	 CO1: To understand traumatology of Upper and lower limb fractures, with their treatment protocols. CO2: Assess the patients with musculoskeletal conditions. CO3: To understand the pathophysiology of various inflammatory and infective conditions of musculoskeletal system with its treatment protocol. CO4: To understand PT evaluation of Orthopedic conditions. CO5: To understand PT management of Orthopedic conditions. 							
7	Course Description	the orthopedic effort is made detail pertainin understanding	Following the basic science course, this course introduces the student to the orthopedic conditions which commonly cause disability. 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 limitation imposed by orthopedic pathology on the functioning of the individual							
8	Outline syllab	15	s							
	Unit 1	Unit 1								
	А	PT assessmen	tfor Orthopedic	e conditions	CO1, CO2					
	В			bedic conditions						
	С	Specificfractu	res anddisloca	ations						
	Unit 2									
	A	techniques		f physiotherapeutic						
	В			of thought in manual therapy	CO1, CO3					
	С	Degenerativear	ndinflammatory	conditions						
	Unit 3				CO3, CO4					
	Α		ditions and Int	roductiontoBio-Engineering						
	B	Cerebralpalsy								
	C	Poliomyelitis	and lower limb	injuries						
	Unit 4	Laproqu			CO5, CO1					
	AB	Leprosy Amputation								
	C		niuries and en	inal conditions						
	Mode of	Practical	injuries and sp							
	examination									
	Weightage	CA	MTE	ETE						
	Distribution	60%	0%	40%						
	Text book/s*									



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 2 (1)

Sc	hool:	Allied health science Batch : 2020-24									
Pr	ogram:	BPT Current Academic Year: 202	22-23								
Br	anch:	Semester: 6 th semester									
1	Course	BPT 313									
	Code										
2	Course	Physiotherapy in General Surgery and General Medicine									
	Title										
3	Credits	5-0-0									
4	Contact	5									
	Hours										
	(L)										
Course Compulsory											
5	Туре	A coving the large sure of every lastice and abasis the man aution to	ster out for								
3	Course	Acquire theknowledge of evaluation and physiotherapeutic tre	atment for								
	Objective	obstetric and gynecological conditions									
		Acquire the knowledge of various conditions where physiotherapy plays avital role in the									
(0	rehabilitation									
6	Course	The student will be able to:	matchalia disordars with their								
	Outcomes	CO1 : To understand pathophysiological changes in infectious and metabolic disorders with their PT treatment									
		CO2 : To understand pathophysiological changes in respiratory dis	sorders with their PT treatment								
		CO3 : To understand pathophysiological changes in cardiovascular									
		treatment									
		CO4: Diagnose condition from history taking, clinical evaluation and investigation in antenatal and									
		postnatal care.									
7	0	CO5: To understand various injuries with its treatment Protocol	с <i>.</i> :								
7	Course	To Identifydiscussandanalyzecardiovascularandpulmonarydys									
	Description	Acquireknowledgeofrationalofbasicinvestigativeapproachesint intervention.	themedicalsystemandsurgical								
		intervention.									
8	Outline sylla		CO Mapping								
0	Unit 1										
	A	Physiotherapyinmotherandchildcare	CO1, CO2								
	B	Geriatrics									
	С	Abdominal incisions and complications of operations									
	Unit 2										
	A	Physiotherapy in pre andpost-operativestages									
	В	Operationson upper G.I.Tesophagus, stomach, duodenum	CO1, CO3								



С	Operationson large	and small intestine a	and PT in dentistry	
Unit 3				CO4, CO5
А	Burnsand itstreatme	nt		
В	Managementofwou	ndulcers and PT in de	erma	
С	ENT conditions			
Mode of	Theory			
examination	-			
Weightage	CA	ETE		
Distribution	30%	20%	50%	
Text	Tidy's physiotherap	y. 2. Textbook of or	thopedics- Cash. 3.	
book/s*	Clinical orthopedic	rehabilitation-Brotz	zman. 4. Orthopedic	
	physiotherapy - Jay	ant Joshi. 5. Physica	l Rehabilitation	
	Assessment and Tr	eament – O'Sullivan	Schmitz 6. Sports	
	physiotherapy- Ma	ria Zuluaga		

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)

Sc	chool:	Allied health science Batch : 2020-24					
Pr	rogram:	BPT Current Academic Year: 2022-23					
Bı	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					
	Objective	treatment for obstetric and gynecological conditions					
		Acquiretheknowledgeofvariousconditionswherephysiotherapyplaysavita					
		Iroleinthe rehabilitation					
6	Course	The student will be able to:					
	Outcomes	CO1 : To understand pathophysiological changes in infectious and metabolic dis PT treatment	sorders with their				
		CO2: To understand pathophysiological changes in respiratory disorders with the	neir PT treatment				
		CO3 : To understand pathophyisological changes in cardiovascular disorders with	th 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 Description	Acquireknow		cardiovascularandpul fbasicinvestigativeap on.	
8	Outline syllabu	15			CO Mapping
	Unit 1				
	А	Physiotherap	yinmotherandchi	ldcare	CO1, CO2
	В	Geriatrics			
	С	Abdominal in operations	ncisions and com	plications of	
	Unit 2	operations			
	A	Physiotherap	y in pre andpost-	operativestages	
	В	· ·		ophagus,stomach,	CO1, CO3
	С	Operationsor dentistry	a large and small	intestine and PT in	
	Unit 3				CO4, CO5
	А	Burnsand itst	reatment		
	В	Management	ofwoundulcers ar	d PT in derma	
	С	ENT condition	ons		
	Mode of examination	Practical			
	Weightage	CA	MTE	ETE	
	Distribution	60%	0%	40%	
	Text book/s*	Cash. 3. Clin Brotzman. 4. Joshi. 5. Phy	otherapy. 2. Texth ical orthopedic re Orthopedic physical Rehabilitati		
			D'Sullivan Schmi y- Maria Zuluaga	-	

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 3 (1)

Sch	ool:	Allied health science	Batch : 2020-24
Program:		BPT	Current Academic Year: 2022-23
Bra	nch:	Semester: 6 th semester	
1	Course Code	BPT 314	
2	Course Title	Clinical Neurology& Neuros	urgery



3	Credits	3-0-0						
4	Contact	3						
	Hours							
	(L)							
	Course Type	Compulsory						
5	Course	The objective of this course is that after 60 hour	rs of lectures &					
	will be able to nditions causing student will be written, oral& jectives of the the health care inuous learning unity, and							
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	Following the basic science and clinical science cou	urse, this course					
•	Description	introduces the student to the neurological conditions commonly cause disability.						
8	Outline syllab	pus	CO Mapping					
	Unit 1							
	A	Neurological assessment, classification and	CO1, CO2					
		disorders	01,002					
	В	Neuro ophthalmology						
	С							
		Neuro ophthalmology Deafness,vertigo,andimbalance						
	C Unit 2 A	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases						
	C Unit 2 A B	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases Lowercranial nerveparalysis	C01, C02					
	C Unit 2 A B C	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases	CO1, CO3					
	C Unit 2 A B C Unit 3	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases Lowercranial nerveparalysis Head injury, metabolic, environmental disorders						
	C Unit 2 A B C Unit 3 A	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases Lowercranial nerveparalysis Head injury, metabolic, environmental disorders Movement and cerebral disorders	CO1, CO3					
	C Unit 2 A B C Unit 3 A B	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases Lowercranial nerveparalysis Head injury, metabolic, environmental disorders Movement and cerebral disorders Cerebellarandcoordinationdisorders	CO1, CO3					
	C Unit 2 A B C Unit 3 A B C	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases Lowercranial nerveparalysis Head injury, metabolic, environmental disorders Movement and cerebral disorders	CO1, CO3					
	C Unit 2 A B C Unit 3 A B	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases Lowercranial nerveparalysis Head injury, metabolic, environmental disorders Movement and cerebral disorders Cerebellarandcoordinationdisorders Spinal cord disorders, peripheral and	CO1, CO3					
	C Unit 2 A B C Unit 3 A B C	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases Lowercranial nerveparalysis Head injury, metabolic, environmental disorders Movement and cerebral disorders Cerebellarandcoordinationdisorders Spinal cord disorders, peripheral and polyneuropathy Multiple sclerosis, tumors,	CO1, CO3 CO4, CO5					
	C Unit 2 A B C Unit 3 A B C Unit 4	Neuro ophthalmology Deafness,vertigo,andimbalance Cerebro-vasculardiseases Lowercranial nerveparalysis Head injury, metabolic, environmental disorders Movement and cerebral disorders Cerebellarandcoordinationdisorders Spinal cord disorders, peripheral and polyneuropathy	CO1, CO3 CO4, CO5					



Mode of	Theory								
examination									
Weightage	CA								
Distribution	30%								
Text book/s*	Davidson's P	rinciples and	Practice of Medicine 2.						
	Textbook of	Neurology- V	ictor Adams 3. Brains						
	Clinical Neur	Clinical Neurology. 4 .Illustrated Neurology &							
	Neurosurgery	7 5. Brains Di	seases of Nervous System						

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)

	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 362
2	Course Title	Clinical Neurology& Neurosurgery (Practical)
3	Credits	1
4	Contact	3
	Hours	
	(P)	
	Course Type	Compulsory
5	Course	The objective of this course is that after 60 hours of lectures &
	Objective	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
6	0	society in the care of people with neurological
6	Course	The student will be able to:
	Outcomes	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 introduces the commonly call	ourse, this course ns which							
3	Outline syllab	us								
	Unit 1									
	А	Neurological disorders	l assessmen	t, classific	ation and	CO1, CO2				
	В	Neuro ophth	almology							
	С	Deafness,ver	tigo,andimb	alance						
	Unit 2									
	А	Cerebro-vasc	ulardiseases	3						
	В	Lowercranial 1	nerveparalysi	S		CO1, CO3				
	С	Head injury,	metabolic,	environm	ental disorders					
	Unit 3									
	А	Movement a	Movement and cerebral disorders							
	В	Cerebellaran								
	С	Spinal cord of	Spinal cord disorders, peripheral and polyneuropathy							
		polyneuropa								
	Unit 4		CO3, CO5							
	А	Multiple scle								
	В									
	С	Motor neuro								
	Mode of examination	Practical	Practical							
	Weightage CA MTE ETE									
	Distribution	60%								
	Text book/s*	Davidson's I Textbook of Clinical Neu Neurosurger								

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

Program: Bachelor's Of Physiotherapy(BPT)Current Academic Year: 2023-24Branch: PhysiotherapySemester:VII	School: School Of Allied	Health Sciences	Batch : 2020-24	
	Program: Bachelor's Of	Current Academic Year: 2023-24		
Branch: Physiotherapy Semester:VII	Physiotherapy(BPT)			
	Branch: 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)	DOF	
~	Course Type	DSE	1 11
5	Course Objective	1. The objective of this course in that, the student will	
		to identify disability due to neurological dysfunction, treatment goals and apply their skill.	set
		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 Outcomes	CO1:Be able to develop psychomotor skills to implem	nent
		timely and appropriate physiotherapy assessment	
		tools/techniques to ensure a holistic approach to patient	nt
		evaluation in order to prioritize patient's problems.	
		CO2:Be able to select timely physiotherapeutic interv- to reduce morbidity and physiotherapy management	entions
		strategies, suitable for the patients' problems and indi	cator
		conditions based on the best available evidence.	cator
		CO3:Implement appropriate neuro-physiotherapeutic	
		approaches, electrotherapeutic modalities, joint and so	oft
		tissue mobilizations and ergonomic advice for	
		neuromuscular.	
		CO4: Be able to develop behavioral skills and humani	
		approach while communicating with patients, relative	
		society and co-professionals, to promote individual an	ld
		community health.	
7	Course Description	The subject serves to integrate the knowledge gained	hy the
,	Course Description	students in neurology and neurosurgery with skills to	•
		these in clinical situations of dysfunction and neurolog	
		pathology. The objective of the course is that after the	-
		specified hours of lectures and demonstrations the stu-	
		will be able to identify disabilities due to neurological	
		dysfunction, plan and set treatment goals and apply th	
		gained in exercise therapy and electrotherapy in these	clinical
		situations to restore neurological function.	
8	Outline syllabus		СО
0	Summe synabus		Mappi
			ng
	Unit 1	Neurological Assessment	<u> </u>
	A	Required materials forexamination, Chief	CO1,
		complaints, History taking-Present,Past	CO2
		medical,familial,personalhistories,Observation,Palpatio	
		n,Higher mentalfunction-	
		Consciousness,Orientation,Wakefulness,memory,Spee	
		ch, Reading, Language, Writing,	
		Calculations,Perception,Leftrightconfusion,Rea	



	soning,andJudgment	
В	Motor Examination–Muscle power, Muscle tone,	CO1,
-	Spasticity, Flaccidity, Reflexes– Developmental	CO2
	reflexes, deep tendon reflexes, Superficial reflexes,	002
	Sensory examination – Superficial, Deep and	
	Cortical sensations, Special tests– Romberg's,	
	Kernig's sign, BrudenzkI sign, Tinels's sign, Slum	
	test, Lehermitte's 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.	
С	Assessment tools & Scales– Modified Ashworth	CO1,
C		CO1, CO2
	scale, Berg balance scale, FIM, Barthel	02
	index, Glasgow coma scale, Mini mental state	
	examination, Rancho Los Amigos Scale for Head	
	injury, APGAR score, ASIA scale, Reflex Grading.	
TL::4 0	Differentialdiagnosis.	
Unit 2	NeurophysiologicalTechniques	
А	Concepts, Principles, Techniques, Effects of following	CO1,
	Neurophysiological techniques: NDT ,PNF, Vojta	CO3
В	therapy Rood's Sensorymotor Approach, Sensory Integration	CO1,
D	Approach, Brunnstorm movement therapy, Motor relearning	CO1, CO3
	program.	COS
С	Contemporary task oriented approach, Muscle re-	CO1,
C	education approach and Constraint induced	CO1, CO3
	movementtherapy.	005
Unit 3	Paediatric Neurology	
A	Developmentalmilestones, developmental	CO2,
	reflexes,Neuro	CO4
	developmentalscreeningtests.Evaluation	
	&Management- History,	
	Observation, Palpation, Milestone Examination,	
	developmentalreflexExamination,Higher	
	mentalfunction, Cranialnerveexamination	
В	Motor&Sensoryexamination,Reflextesting,	CO2,
	differentialDiagnosis,Balance&Coordinationexaminati	CO4
	on,Gaitanalysis,Functionalanalysis, Listof Problems &	
	Complications, short & LongTermgoals	
С	Managementof systemic	CO2,
	complications, Management of Mechanical	CO2, CO4
	Complications, Useofvarious Neurophysiologica	
	1 approaches&Modalities	
	inRiskbabies,Minimumbraindamage,Developm	
	entaldisorders, Cerebralpalsy,	
	Autism, Down's Syndrome, Hydrocephalus, Chorea, Spin	
Unit 4	abifida, and syring omyelia.	
	Evaluation and Management	CO1
A	BrainandSpinalCordDisorders:History,Observation,	CO1,
	Palpation, Highermental	CO4
	function,Cranialnerveexamination,Motor&Sens	
	oryexamination,	



Image: participant of the observed of the observed interosseous interosseous nervepalsy, Axillarynervepalsy, Longthoracicner palsy, Suprascapularnervepalsy, sciaticnervepalsy, Trvepalsy, Commonperoneal nervepalsy, Femoral nervepalsy, Obturatornervepalsy, and Pudentalnerve Assessment and management of Neurological A Unit 5 Assessment and management of Neurological S A QuantitativeandQualitative(Kinetic&Kinematic	ibialne epalsy. gaits
interosseous nervepalsy,Axillarynervepalsy,Longthoracicner palsy,Suprascapularnervepalsy,sciaticnervepalsy,T rvepalsy,Commonperoneal nervepalsy,Femoral nervepalsy,Obturatornervepalsy, and Pudentalnerve	ibialne epalsy.
interosseous nervepalsy,Axillarynervepalsy,Longthoracicner palsy,Suprascapularnervepalsy,sciaticnervepalsy,T rvepalsy,Commonperoneal nervepalsy,Femoral	ibialne
interosseous nervepalsy,Axillarynervepalsy,Longthoracicner palsy,Suprascapularnervepalsy,sciaticnervepalsy,T	
interosseous nervepalsy,Axillarynervepalsy,Longthoracicner	
interosseous	2/0
I palsy Anterior & Posterior	
nervepalsy,Radialnervepalsy,Musculocutaneous palsy,Anterior &Posterior	snerve
nervepalsy,Ulnar	
renic& intercostalsnerve lesions,Median	
palsy, Thoracicoutletsyndrome, Lumbosacral plexus lesi	ons,Ph
Barresyndrome,Brachialplexus	
inHereditarymotor sensory neuropathy,Guillain-	
ManagementofMechanicalComplications,Useofvar Neurophysiologicalapproaches&Modalities	ious
systemic complications Use for	
Management of	
&Complications, short &Long Term go	oals,
examination, Gaitanalysis, Functional analysis, List of Provident Action and State	oblems
Balance&Coordination	
Reflextesting, differential Diagnosis,	
&Sensoryexamination,	
:History, Observation,Palpation,Motor	CO4
C 1. Peripheral Nerve Injuries and Diso	
C 1 Dominhousel Norma Injunios or d Disc	rdora CO1
atrophies,Poliomyelitis,Post-PolioSyndrome.	
&BowelDysfunction,Spinalmuscular	
myelitis,Bladder	
Syndrome, Spinaltumors, Spinalcordinjury, Transverse	
Lambert	
	aton-
Parkinson'sdisease,Musculardystrophy(DMD),	
SensoryAtaxia,	
ManagementofMechanicalComplications,Useofvar Neurophysiologicalapproaches&ModalitiesinAtaxia,	ious
complications, Management of Machanical Complications, Use of ver-	ious
Management of systemic	
&Complications,short &Long Term goals,	
examination, Gaitanalysis, Functionalanalysis, ListofPro	oblems
Balance&Coordination	
&Sensoryexamination, Reflextesting, differential Diagno	
History,Observation,Palpation,Motor	CO4
B Cerebellar, Spinal Cord and Muscle Disorders :	CO1,
trophiclateralsclerosis, and Multiplesclerosis.	<i>J</i> -
Injury,BrainTumors,Perceptualdisorders,	
rebrovascular Accident, Meningitis, Encephalitis	
variousNeurophysiologicalapproaches&Modalitie	esinCe
ons,Useof	, iiuui
complications,ManagementofMechanicalCom	olicati
gTermgoals,Managementofsystemic	
analysis,ListofProblems&Complications,short	&Lon
Reflextesting, differential Diagnosis, Balance & Coo ionexamination, Gaitanalysis, Functional	numai



	analysis,Listof Problems,short&LongTermgoals,Managementof following NeurologicalGaits- Hemiplegicgait,Parkinsongait,Highstepgait, Hyperkineticgait, Hypokineticgait, Waddlinggait,Scissoringgait,Spasticgait, ChoreaformGait,DiplegicGait, and MyopathicGait.				
B	Preandpostsurgicalassessmentandtreatmentf ollowingconditions-Spinaldischerniation, Spinalstenosis,Spinalcordtrauma,Headtrauma, Braintumors,Tumorsofthespine,Spinal cord and peripheral nerves, Cerebral aneurysms, Subarachnoid hemorrhages, epilepsy, Parkinson's disease,Chorea,Hemiballism,Psychiatricdisord ers,Malformations of thenervous system, Carotid artery stenosis,Arteriovenousmalformations, andSpinabifida.	CO3, CO4			
C	Applied Yogain Neurologicalconditions.	CO3, CO4			
Mode of examination	Theory/Jury/Practical/Viva				
Weightage Distribution	C MTE ETE A				
Text book/s*	 Cash's textbook of neurology for, physiotherapists - Dowani - J P Brothers. Adult Hemiplegia - Evaluation & treatment - Bobath - Oxford ButterworthHeinm an Neurological Rehabilitation - Carr&Shepherd - ButterworthHeinrnan Tetraplegia and paraplegia - A guide for physiotherapist- Livingstone. Neurological physiotherapy - A, Problem solving approach – Susan Edwards- Churchill Linvigstone. Neurological Rehabilitation - Urmpherd - Mosby. Geriatric physical therapy- Gucciona- Mosby 				
Other References	 8. Motor assessment of Developing Infant - Piper &Darrah - W B. Saunders. 9. Pediatric phySical therapy- Teckling Lippincott 10. Treatment of cerebral Palsy and motor Delay - Levitts- Blackwell Scientific Publications, 				



London. 11. Aging the Health care Challenge - Levis- FA Davis.	
Physiotherapy in Pediatrics - Shepherd - Butterworth Heinrnan	

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
3	3	3	3	3	3	3	3	3	3	3
3	3	3	2	3	3	3	3	3	3	3
3	3	3	3	3	3	3	3	3	2	3
3	3	3	3	3	2	3	3	3	3	3
	3 3 3	3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 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							
		Current Academic Year: 2023-24					
hysiotherapy(BP1	Г)						
ranch: Physiother	rapy	Semester:VII					
Course Code		BPT 462					
Course Title		BIOSTATISTICS & RESEARCHMETH	ODOLOGY				
Credits		4					
Contact Hours		4-0-0					
(L-T-P)							
Course Type	SEC						
Course		•	ents understand the				
Objective	-	-					
	2.Appl	ied to draw inferences from the research findings.					
		-					
Outcomes		-					
			population means				
	-						
	CO4: Perform a two-sample t-test and interpret the results; calculate a 95%						
		-					
			bet more than two				
	rogram: Bachelor hysiotherapy(BPT ranch: Physiother Course Code Course Title Credits Contact Hours (L-T-P) Course Type Course	rogram: Bachelor's Of hysiotherapy(BPT) ranch: Physiotherapy Course Code Course Title Credits Contact Hours (L-T-P) Course Type SEC Course 1.The of Objective basic p 2.Appl Course CO1: U Outcomes Unders CO2: I Calcula CO3: C and pro CO4: F confide CO5: S continu CO6: U (ANOV	rogram: Bachelor's Of hysiotherapy(BPT)Current Academic Year: 2023-24ranch: PhysiotherapySemester:VIICourse CodeBPT 462Course TitleBIOSTATISTICS &RESEARCHMETHECredits4Contact Hours (L-T-P)4-0-0Course TypeSECCourse1.The objective of this module is to help the stude basic principles of research and methods 2.Applied to draw inferences from the research fiCourseCO1: Understand the importance of research in th Understand the basic concepts and methods of res CO2: Interpret differences in data distributions via vi Calculate standard normal scores and resulting probat CO3: Calculate and interpret confidence intervals for and proportions. Interpret and explain a p-value.				



7	Course The objective of this module is to help the students understand							
	Description	the basic principles of research and methods applied to						
	8 Outline syllabus C							
8	Outline syllabus		СО					
	•		Mapping					
	Unit 1							
	А	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							
	А	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,Meaningofscaling,its						
		classification.Importantscalingtechniques.						
	С	Methodsofdatacollection:collectionof	CO2,CO3					
		primarydata,collectiondatathroughqu						
		estionnaires&schedules, Difference						
		betweenquestionnaires&schedules.						
	Unit 3							
	А	Samplingfundamentals,needforsampling&so	CO3,CO4					
		mefundamentaldefinitions, important sampling						
		distributions.						
	В	Processing&analysisofdata:Processi	CO1, CO3					
		ngoperations, problems in processing,						
		Typesof analysis, Statisticsin						
		research, Measures of central						
		tendency, Dispersion, Asymmetry,						
		relationship.						



C	Testingofhypothesis:Whatishypothesis.Basicconceptsconcerningtestingofhypothesis,Procedureofhypothesistesting,measuringthepowerofhypothesistest,Testsofhypothesis, limitationsofthetestsofhypothesisComputertechnology:IntroductiontoComputers,computers&researcher.	CO3,CO4
Unit 4 A	Introduction:Meaning,definition,characteristicso fstatistics.,Importanceofthestudyof statistics, Branches of statistics, Statistics and health science including physiotherapy, Parameters andEstimates,Descriptiveandinferentialstatistics, Variablesandtheirtypes, Measurementscales.	CO4,CO5
В	Tabulation ofData: Basic principles of graphical representation, Types of diagrams – histograms, frequencypolygons, smooth frequency polygon, cumulative frequency curve, Normalprobabilitycurve.	CO4,CO5
С	Measure ofCentral Tendency: Need for measures of central Tendency, Definition and calculationof mean–ungrouped andgrouped,Meaning,interpretation andcalculationof medianungrouped andgrouped.Meaningand calculationofmode, Comparisonofthemean, medianandmode,Guidelinesfortheuseofvariou smeasuresofcentraltendency.	CO4,CO5
Unit 5 A	ProbabilityandStandardDistributions:Meaningof probabilityofstandarddistribution,thebinominald istribution,thenormaldistribution,Divergencefr omnormality–skewness,kurtosis. Samplingtechniques:Needforsamplin g- Criteriaforgoodsamples,Applicationo fsampling incommunity,Proceduresofsamplinga	CO5,C06



	ndsamplingde riationandtest			
В	Analysisofvari lysisofvariance OVA?Basic principleofAl hnique,Analy NACOVA).	CO5,C06		
С	ocols,formats		nts.(Structureofprot ientificjournals, n-analysis).	CO5,C06
Mode of examination	Theory/Jury/	Practical/Viva		
Weightage Distribution	CA 30%	MTE 20%	ETE 50%	
Text book/s*	7. Resea 8. Statis Bosto			
Other References	1. Resea Carol Research in F			

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)



Sc	hool: School Of Allied	Health Sciences Ba	atch : 2020-24				
	ogram: Bachelor's Of	Current Academic Year: 2023-24					
	ysiotherapy(BPT)						
	anch: Physiotherapy	Semester:VII					
1	Course Code	BPT463					
2	Course Title	HEALTH PROMOTION, FITNESS AND	WELLNESS				
3	Credits	1					
4	Contact Hours	1-0-0					
	(L-T-P)						
	Course Type	AECC					
5	Course Objective	 1.To provide understanding of personal health 2.To provide understanding of how psycholog emotional health are connected to overall well 3.Health risks, screening, and assessment consepidemiological principles are emphasized. 4.Risk reduction strategies for primary and seconsection, including programs for special poper covered. 	ical and being. idering condary				
6	Course Outcomes	CO1:The role of health,nutrition,physical activ wellness in daily life. CO2:Awareness about how psychological and health are connected to our overall well being CO3:Able to identify personal health risks bas lifestyle choices CO4:Identify and implement lifestyle changes enhance lifelong health. CO5:Evaluation and adaptation of health beha lifestyle.	emotional and health. ed upon current that will viors and				
7	Course Description	This course includes discussion on the theories wellness, including motivational theory, locus of health initiative, and psycho-Social, spiritual and c consideration. Health risks, screening, and asso considering epidemiological principles are emp reduction strategies for primary and secondary pr including programs for special populations areco	f control, public cultural essment phasized. Risk revention, overed.				
8	Outline syllabus		CO Mapping				
_	Unit 1	Prevention practice :a holistic perspective for physiotherapy					
	Α	Defining Health Predictionsof Health Care	CO1, CO2				
	В	Comparing Holistic Medicine andConventional Medicine	CO1, CO2				
	С	DistinguishingThreeTypesofPreventionPractic e.	CO1, CO2				
	Unit 2	HealthyPeople					



А	Defin	itionof health	ypeople	CO2,CO3		
В		heducationRe		CO1, CO3		
С	Physi	otherapist role	e for a healthy community.	CO2,CO3		
Unit 3	Keyc	onceptsoffitne	SS			
A		ning & Measur swith a Survey	ing Fitness b.Assessmentof	CO3,CO4		
В		alizing Fitness ening for Ment	al andPhysical Fitness	CO2,C03		
С	Body	Mass Index cal	culations.	CO3,C04		
Unit 4	Fitne	sstraining				
A	Physi	cal Activities F	Readiness Questionnaire	CO5,CO1		
В		icalActivities I cise Programs	Pyramid	CO5,CO1		
С		nce-Based Practi	ice.	CO5,CO1		
Unit 5	Healt	h, fitness, and	wellness			
А	Durir	ng childhood a	ndadolescence	CO4,C05		
В	Healt	h, fitness, and	CO4,C05			
	Wom	en'shealth issu	ies: focus onpregnancy.			
		h protection.				
		-	for musculoskeletal			
		itions Preventi				
			conditions Prevention			
			uscular conditions			
			forintegumentary disorders			
			forindividualswith			
		opmental disa				
С	Preve	ention practice	forolderadults	CO4,C05		
		urces tooptimi				
	Mark	Marketing health and wellness.				
Mode of examination	Theo	ry/Jury/Practic	al/Viva			
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	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)



C.	chool:	Potch + 2020 24								
	chool: chool of	Batch : 2020-24								
	llied Health									
-	ciences									
	ogram:	Current Academic Year: 2023-24								
	achelor's of									
P	nysiotherap									
y	-									
	ranch:	Semester:VII								
	nysiotherap									
y										
1	Course	BPT464								
	Code									
2	Course	CLINICALCARDIOVASCULAR AND PULMONARY								
	Title									
3	Credits	3								
4	Contact	3-0-0								
	Hours									
	(L-T-P)									
	Course	DSE								
	Туре									
5	Course	1. The objective of this course is that after lectures, demonstrations, practical and clinics the student								
	Objective	will be able to identify cardio respiratory dysfunction.								
		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.								
		5. The statemes will be able to restore cardio respiratory randitori.								
6	Course	The student will be able to:								
	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.								
7	Course	Following the basic science and clinical science course, this course introduces the Student in								
	Descriptio	cardio-thoracic conditions which commonlycause disability.								
	n	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								
		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 individual.								
L	1									



8	Outline sylla	bus	CO Mapping
	Unit 1	Anatomy and Physiology	
	А	Respiratory system- Upper respiratory tract,Lower respiratory tract–Trachea, Bronchial tree, Bronchopulmonary segments	CO1, CO2
		Respiratory unit, hilum of lung. Muscles of respiration Pleura, intra pleural space, intrapleural pressure, surfactant	
	В	Condia vasavlar svistarna	CO1 CO2
	Б	Cardio vascular systems Chambers of heart, semi lunar and atriaventricular valves	CO1, CO2
		Coronary circulation, conductive system of heart, Cardiac cycle, ECG,	
		Heart sounds	
	C	Blood pressure, pulse, cardiacoutput.	<u>CO1</u> CO2
	С	Mechanics of respiration – Chest wall movements, lung & chest wall compliance	CO1, CO2
		V/Q relationship, airwayresistance	
		Respiratory centre,	
	Unit 2	Cardio Vascularsystem	
	A	Define, etiology, pathogenesis, clinical features, complications,	CO1, CO3
	B	Conservative and surgical management of the following conditions-	CO1, CO3
	-	Ischemiaheartdisease	
		Myocardial infarction	
		Heartfailure	
		Cardiacarrest	
		Rheumatic fever	
		Hypertension Infectiveendocarditis	
		Myocarditis&cardiomyopathy	
		5 5 1 5	
	С	Cardiovas cular Disease: Examination of the Cardiovas cular System Investiga	СО
		tions: ECG,ExerciseStressTesting,Radiology;	1,
		Clinical manifestations of Cardiovascular	CO
			3
		resultinginvalvedisorders,	
		Ischemic Heart Disease, Coronary Valve Disease, Congenital disorders of	
		•••	
		managementfor thefollowingdisorders:	
		CongenitalHeartdiseases- Acyanotic congenital heart disease &	
		Cyanotic congenital heart disease:Patent Ductus Arteriosus,	
		Coarctation of Aorta, Atrial Septal Defect, Ventricular Septal Defect,	
		disease;Definition,Etiology,Clinicalfeatures,signs andsymptoms,complications, management and treatment of following diseases and disorders of the heart: Pericarditis,Myocarditis,Endocarditis,Rheumatic Fever– resultinginvalvedisorders, Ischemic Heart Disease,CoronaryValve Disease, Congenital disorders of the Heart, CardiacArrest;Examination and Investigations of diseases of arteries and veins ;Hypertension:Definition,causes,classification,types,assessment,investig ations and management. DisordersoftheHeart–Definition,Clinical features,diagnosis andchoiceof managementfor thefollowingdisorders: CongenitalHeartdiseases– Acyanotic congenital heart disease & Cyanotic congenital heart disease:Patent Ductus Arteriosus,	3



				Beyond Bou	undar		
	Disease,Cardiac tumors.						
Unit 3	RESPIRATORY SYSTEM						
А	RespiratoryDisease:ExaminationoftheResp		CO2,CO3	·			
	Investigations: ChestRadiographs, Pulmonary						
	Blood Gas Analysis;Clinical manifestations o						
В	Patterns of lung disease-Chronic Obstructive	¥	tive	CO2,CO3			
	Lung Disease; Definition, Etiology, Clinica	-					
	symptoms, complications, management and		ıng				
	diseases : Chronic Bronchitis, Emphysema		C				
	Cystic Fibrosis,						
	UpperRespiratoryTractInfections,Pneumonia						
	Interstitial Lung Diseases, Diseases o	of the pleura, diaphragm and	d				
	chest wall.						
С	Respiratory failure- Definition, types, causes,	clinical features, diagnosis	_	CO2,CO3			
	andmanagement.						
Unit 4	Chest wall disorders						
А	Definition, Clinical features, diagnosis and ch			CO3,CO4			
	following disorders-chest wall deformities, chest						
	Pneumothorax, Pleural Effusion, Empyema Tho	racis, Lung abscess,					
ח	Bronchiectasis. Tuberculosis, Bronchogenic Carcinoma, Bronc	abial Adapamag Matastatia					
В	tumorsof the Lung, tracheal Stenosis, Congenit		CO3,CO4				
С	Neoplasmsofthe trachea, Lesionsof		CO3,CO4				
C	Carcinoma of thefemalebreast.		005,00				
	Carcinoma of meremanoreast.						
Unit 5	REGULATION OF RESPIRATION			+			
A A	Neural&chemical regulation of respiration.			CO4,CO5			
B	Lung volumesand lung capacities, Spiro m			C04,C05			
C	Pulmonary circulation, Lung sounds, cougl			C03,C04			
Mode of	Theory/Jury/Practical/Viva						
examinatio	Theory, sury, Tractical, VIVa						
n							
Weightage	СА	MTE	ET	E			
Distributio	30%	20%	50%		\vdash		
n	5070	2070		0			
Text	1. Cash Textbook of general medical	and surgical conditions	for		L		
book/s*	physiotherapists- Donnie Jaypee Brot	U	•				
	2. Essential of Cariopulmonary physical therapy- Hillegass & Sadowsky						
	W. B. Saunders.						
	3. Cash textbook of Chest, Heart a	ind Vascular Disorders	for				
	Physiotherapists- Downie- J.P.						
	Brothers.						
	4. The-Brompton Guide to Chest Physical	therapy					
	5. Cardiopulmonary Physical Therapy- Irw						
	6. Cardiovascular/Respiratory physiotherap						
	7. ACSM Guidelines for exercise testir		SM-				
	Williams and Wilkins.	ig and preseription- Acc	J1VI-				
	williams and wilkins.						
Other	8. Chest physiotherapy in intensive care un	······································					
Other	1 8. Chest physiotherapy in intensive care up	nt- Mackenzie et al - willi	ams				
References	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)

C -l	l. Calcalat	D-4-L 2020 24
	ool: School of ed health sciences	Batch: 2020-24
Pro	gram: Bachelor's hysiotherapy	Current Academic Year:2023-24
Bra	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 (L-T-P)	1-0-0
	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 ethica								
		issues in ph								
				nportance of hospital and	how it works					
			departments.							
			CO4:To understand the basic principle of management and i							
		importance	1 . 1.1	1 (D) 1 1	. 1					
			derstand the ro	ole of Physiotherapy and i	ts benefits to					
7		the society.		. 1 . 1 1 1	C					
7	Course			e students about the rules						
	Description	1	,	e of ethics and legal ethics						
				ndards of practice for phy						
			it process and	ce as an informed professi	ional on					
8	Outline syllabus	managemen	it process and	its functions.	СО					
0	Outline synabus				Mapping					
	Unit 1	INTRODU	CTION		mapping					
	A		n tomanageme	nt	CO1, CO2					
	В	StrategicMa			CO1, CO2					
	С		management		CO1, CO2					
	Unit 2			QUES OF PLANNING	,					
	А	Defination of								
	В	Tools of pla	CO1, CO3							
	С		of planning		CO1, CO3					
	Unit 3		AND INNOV	ATION	CO1, CO3					
	А	Introduction	n to change an	d innovation	CO3,CO4					
	В		ing Groupsand		CO3,CO4					
	С		Changeand Inn		CO3,CO4					
	Unit 4	LEADERS								
	А	Leadership			CO4,CO5					
	В	· ·	s of leadership)	CO4,CO5					
	С	Time Mana			CO4,CO5					
	Unit 5	COST ANI	D EFFICIEN	CEY						
	А	Introduction	to Cost		CO1,CO5					
	В	Introduction	n to efficiency		CO1,CO5					
	С	Tools for co	ost and efficier	ncy.	CO1,CO5					
	Mode of	Theory/Jury	/Practical/Viv	'a						
	examination		_							
	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.

-	ool: School Of	Batch: 2020-24						
	ed Health							
	ences							
	gram:	Current Academic Year: 2023-24						
	helor's of							
phy	siotherapy							
	nch:	Semester:VII						
Phy	siotherapy							
1	Course Code	BPT441						
2	Course Title	Physiotherapy in Neurology & psychosomatic disorder(Practical)						
3	Credits	2						
4	Contact Hours	0-0-4						
	(L-T-P)							
	Course Status	CC						
5	Course	1. The objective of this course in that, the student will be able to						
	Objective	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	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.						
		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.						
		co professionais, to promote individual and community health.						
7	Course	The subject serves to integrate the knowledge gained by the students						
L <u>′</u>	Course	The subject serves to integrate the knowledge gamed by the students						



	Description	in neurology and neurosurgery with skills to apply thes situations of dysfunction and neurological pathology. T of the course is that after the specified hours of lectures demonstrations the student will be able to identify disal neurological dysfunction, plan and set treatment goals a skills gained in exercise therapy and electrotherapy in t situations to restore neurological function.	The objective and bilities due to and apply the
8	Outline syllabu	s	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	CO1,CO4
		conditions.	
		5. Cranial nerve examination, motor and sensory	
		examination.	
		6. Management of neurological conditions.	
	Unit 5	NEUROLOGICAL GAITS & APPLIED YOGA	
	Unit 5	IN NEUROLOGICAL CONDITIONS	CO3 CO4
	Unit 5	IN NEUROLOGICAL CONDITIONS4. Quantitative & qualitative analysis of gait.	CO3,CO4
	Unit 5	IN NEUROLOGICAL CONDITIONS4. Quantitative & qualitative analysis of gait.5. Pre & post surgical assessment and treatment	CO3,CO4
	Unit 5	IN NEUROLOGICAL CONDITIONS4. Quantitative & qualitative analysis of gait.	CO3,CO4
	Unit 5 Mode of	 IN NEUROLOGICAL CONDITIONS 4. Quantitative & qualitative analysis of gait. 5. Pre & post surgical assessment and treatment of neurological conditions. 	CO3,CO4
		 IN NEUROLOGICAL CONDITIONS 4. Quantitative & qualitative analysis of gait. 5. Pre & post surgical assessment and treatment of neurological conditions. 6. Applied yoga in neurological conditions. Practical/Viva 	CO3,CO4
	Mode of examination Weightage	IN NEUROLOGICAL CONDITIONS 4. Quantitative & qualitative analysis of gait. 5. Pre & post surgical assessment and treatment of neurological conditions. 6. Applied yoga in neurological conditions. Practical/Viva CA MTE ETE	CO3,CO4
	Mode of examination Weightage Distribution	IN NEUROLOGICAL CONDITIONS 4. Quantitative & qualitative analysis of gait. 5. Pre & post surgical assessment and treatment of neurological conditions. 6. Applied yoga in neurological conditions. Practical/Viva CA MTE ETE 60% 0%	CO3,CO4
	Mode of examination Weightage	IN NEUROLOGICAL CONDITIONS 4. Quantitative & qualitative analysis of gait. 5. Pre & post surgical assessment and treatment of neurological conditions. 6. Applied yoga in neurological conditions. Practical/Viva CA MTE 60% 0% 1. Cash's textbook of neurology for,	CO3,CO4
	Mode of examination Weightage Distribution	IN NEUROLOGICAL CONDITIONS 4. Quantitative & qualitative analysis of gait. 5. Pre & post surgical assessment and treatment of neurological conditions. 6. Applied yoga in neurological conditions. Practical/Viva CA MTE ETE 60% 0%	CO3,CO4
	Mode of examination Weightage Distribution	IN NEUROLOGICAL CONDITIONS 4. Quantitative & qualitative analysis of gait. 5. Pre & post surgical assessment and treatment of neurological conditions. 6. Applied yoga in neurological conditions. Practical/Viva CA MTE ETE 60% 0% 1. Cash's textbook of neurology for, physiotherapists - Dowani - J P Brothers. 2. Adult Hemiplegia - Evaluation & treatment - Bobath - Oxford ButterworthHeinm an	CO3,CO4
	Mode of examination Weightage Distribution	IN NEUROLOGICAL CONDITIONS 4. Quantitative & qualitative analysis of gait. 5. Pre & post surgical assessment and treatment of neurological conditions. 6. Applied yoga in neurological conditions. Practical/Viva CA MTE ETE 60% 0% 1. Cash's textbook of neurology for, physiotherapists - Dowani - J P Brothers. 2. Adult Hemiplegia - Evaluation & treatment -	CO3,CO4



	 physiotherapist- BromleyChurchill Livingstone. 5. Neurological physiotherapy - A, Problem solving approach – Susan Edwards- Churchill Linvigstone. 6. Neurological Rehabilitation - Urmpherd - Mosby. 7. Geriatric physical therapy- Gucciona- Mosby
Other References	 Motor assessment of Developing Infant - Piper &Darrah - W B. Saunders. Pediatric phySical therapy- Teckling Lippincott Treatment of cerebral Palsy and motor Delay - Levitts- Blackwell Scientific Publications, London. Aging the Health care Challenge - Levis- FA Davis. Physiotherapy in Pediatrics - Shepherd - Butterworth Heinrnan

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

Sc	School: School Of Allied Health Sciences Batch : 2020-2						
Pr	rogram: Bachelor's Of	Current Academic Year: 2023-24					
Pł	nysiotherapy(BPT)						
Bı	ranch: Physiotherapy	Semester:VII					
1	Course Code	BPT442					
2	Course Title	HEALTH PROMOTION, FITNESS AN	ID WELLNESS				
		(PRACTICAL)					
3	Credits	1					
4	Contact Hours	0-0-2					
	(L-T-P)						
	Course Type	PRACTICAL					
5	Course Objective	1.To provide understanding of personal he	alth risks.				



		 2.To provide understanding of how psychologi emotional health are connected to overall well 3.Health risks, screening, and assessment consi epidemiological principles are emphasized. 4.Risk reduction strategies for primary and secon prevention, including programs for special pop covered. 	being. dering ondary ulations are				
6	Course Outcomes	 CO1:The role of health,nutrition,physical activity and wellness in daily life. CO2:Awareness about how psychological and emotional health are connected to our overall well being and health. CO3:Able to identify personal health risks based upon current lifestyle choices CO4:Identify and implement lifestyle changes that will enhance lifelong health. CO5:Evaluation and adaptation of health behaviors and lifestyle. 					
7	Course Description	This course includes discussion on the theories of health and wellness, including motivational theory, locus of control, public health initiative, and psycho-Social, spiritual and cultural consideration. Health risks, screening, and assessment considering epidemiological principles are emphasized. Risk reduction strategies for primary and secondary prevention, including programs for special populations arecovered.					
8	Outline syllabus		СО				
	Unit 1	Prevention practice :a holistic perspective for physiotherapyBrief.Demonstration.Experimentation.	Mapping CO1,CO2				
	Unit 2	HealthyPeople					
		Brief Demonstration Experimentation	CO2,C03				
	Unit 3	Fitness					
		 Defining & Measuring Fitness b.Assessmentof Stresswith a Survey Visualizing Fitness, Screening for Mental and Physical Fitness Body Mass Index calculations. 	CO3,C04				
	Unit 4	Fitnesstraining					
		 Physical Activities Readiness Questionnaire Physical Activities Pyramid Exercise Programs, Evidence-Based Practice 	CO4,CO5				



	Unit 5		Health, fitness,	and wellness	
			Brief	CO1,CO5	
			Demonstration		
			Experimentation	n	
Mod	le of	Jury/Practical	/Viva		
exar	examination				
Wei	Weightage CA		MTE	ETE	
Dist	ribution	60%	0%	40%	

Ī	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
ſ	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

	ool: School of	Batch: 2020-24						
	ed health nces							
	gram:	Current Academic Year: 2023-24						
	helor's of							
Phy	siotherapy							
	nch:	Semester:VII						
Phy	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	 The objective of this course is that after lectures, demonstrations, practical and clinics the student will be able to identify cardio respiratory dysfunction. The students will be able to set treatment goals and apply their skills in exercise therapy, electrotherapy and soft tissue manipulation in clinical situation. The students will be able to restore cardio respiratory function. 						
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 techniques used in treatment of Cardio-respiratory dys CO3: To select strategies for cure, care & prev restorative & rehabilitative measures for maxir functional independence of a patient at home, wor community.	functions. vention; adopt num possible				
		CO4: Be able to execute the effective Physiotherape with appropriate clinical reasoning to improve pulmon CO5: To design & execute effective tailored cardiopul rehabilitation programme.	ary function.				
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 de in addition to clinics the student will be able to demon understanding of Cardio-thoracic conditions causing disability and their management. Particular effort is made in this course to avoid burden student with any detail pertaining to diagnosis which w contribute to their understanding of the limitations imposed by cardiovascular pathology functioning of the individual.	strate an ing the vill not				
8	Outline syllabu		СО				
			Mapping				
	Unit 1	Cardiopulmonary Assessment	CO1 C02				
		1. Brief	CO1,C02				
		2. Demonstration					
		3. Assessment tools and techniques,outcome					
		measures.					
	Unit 2	Physiotherapy Techniques					
		1. Brief, demonstration	CO2,C03				
		2. Drug therapy					
		3. Neonatal techniques					
	Unit 3	Pulmonary Rehabilitation					
		1. Brief	CO3,C04				
		2. Demonstration					
		3. Experimentation					
	Unit 4	Physiotherapy following lung surgeries					
		1. Brief	CO1,CO2				
		2. Rehabilitation Protocol					
		3. Techniques					
	Unit 5	Abdominal surgeries & amputation					
		1. Brief	CO1,CO5				
		2. Rehabilitation Protocol					
		3. Techniques					
	Mode of	Practical/Viva					
J	I	1	1				



examination				
Weightage	CA	MTE	ETE	
Distribution	60%	0%	40%	
Text book/s*	1. Cash Tex			
		1 1	therapists- Donnie Jaypee	
	Brother	·s.		
	2. Essential	of Cariopuli	nonary physical therapy-	
	Hillegas	ss & Sadowsky	W.B. Saunders.	
	3. Cash tex	xtbook of Ch	nest, Heart and Vascular	
	Disorders for	r Physiotherap	ists- Downie- J.P.	
	Brothers.			
	4. The-Brom	pton Guide to	Chest Physical therapy	
	-	• •	sical Therapy- Irwin and	
	Tecknin, Mo	-		
		-	ory physiotherapy- Smith	
	& Ball- Mos	2		
			or exercise testing and	
	prescription-	ACSM- Willi	ams and Wilkins.	
 01	0 (1) (1 1	· · , · ·	
Other refrences	-		in intensive care unit- iams and Wilkins.	
			cal Therapy- Donna Frown	
	Feltter	monary i nysic	ai merapy- Donna Mown	
		nding Machan	ical Ventilation- Hasan	
		U	atory Care- Hough	
	-	1. 1	•	
	-	ory Physiother ry Care- Fink &		
	15. Kespirator	y Cale- Fink &	IIulit	

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	Batch : 2020-24						
Program: Bachelor's Of	Current Academic Year: 2023-24						
Physiotherapy(BPT)							
Branch: Physiotherapy	Semester:VII						
1 Course Code	BPT444						
2 Course Title	CLINICAL EDUCATION						



3	Credits	6							
	Contact Hours	0-0-12							
	(L-T-P)								
	Course Type	CLINICAL PRACTICE							
5	Course Objective	1. Enable student to develop and apply clin							
		knowledge for assessment, treatment of	-						
		2. Explore relevant intellectual approaches	-						
		skills, including those acquired in the tau	ght						
		components, to the choosen topics.							
6	Course Outcomes	CO1:To be able to apply the gained knowledge	in clinical						
		setup.							
		CO2:Develop critically, strategically and in dep	-						
		area of interest arising from the work done with graduate framework and in student's area of aca							
		professional interest.							
		CO3:To be able to utilize the gained knowledge	practically						
		and in hospital setup.	practically						
		CO4:Present and be able to utilize their rational	e, approach or						
		methodology, outcomes and conclusions.							
		CO5:To be able to enhance practical knowledge	-						
		approach,academic rigour,independence and self direction.							
7	Course Description								
		assessment, treatment of the patient.Explore relevant							
		intellectual approaches and practical skills, inclu acquired in the taught components, to the choos							
8	Outline syllabus	acquired in the taught components, to the choos	CO						
0	Outline syndous		Mapping						
	Unit 1	Musculoskelatal physiotherapy	FF8						
		Brief.	CO1,CO2						
		Demonstration.							
		Experimentation.							
	Unit 2	Cardio pulmonary physiotherapy							
		Brief	CO2,C03						
		Demonstration							
	TI:4 2	Experimentation							
	Unit 3	Electrotherapy							
		Brief	CO3,C04						
		Demonstration							
		able to utilize modalities							
	Unit 4	Exercise Therapy							
		Brief	CO4,CO5						
		Demonstration							
		application							
	Unit 5	Intensive care units and IPD							



	Brief			CO1,CO5		
	Demonstration					
	Assessment and application					
Mode of examination	Jury/P1	ractical/Viva				
Weightage Distribution	CA	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

SEMESTER VIII

Scł	nool: School Of	Batch: 2020-24						
	ied Health							
	ences							
	ogram:	Current Academic Year:2023-24						
	chelor's of							
<u> </u>	ysiotherapy							
	anch:Physiothera	Semester:VIII						
py								
1	Course Code	BPT466						
2	Course Title	PHYSIOTHERAPY INCARDIO-VASCULARPULMONARY AND INTENSIVE CARE						
3	Credits	5						
4	Contact Hours (L-T-P)	5-0-0						
	Course Type	SEC						
5	Course Objective	 To provide knowledge in assessing and planning physiotherapy interventions for various General, Medical and Surgical conditions. Thestudentmustbe abletoreassess thepatientas necessary,tomonitor thepatientinregardtotreatment,tomonitor the patient'svital signs. Student must know emergency drugs indication and contra-indication, car ein intensive care unit (ICU) and to provide appropriate interventions to thepatient. 						
6	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. 						



	<u> </u>		ond Boundaries
7	Course Description	The subject is designed to provide knowledge in assessing and planning physiotherapy in for various General, Medical and Surgical conditions. The student must be able to reasse patient as necessary, to monitor the patient in regard to treatment, to monitor the pati signs, student must know emergency drugs indication and contra-indication, care in it care unit (ICU) and to provide appropriate interventions to thepatient.	ess the tient's vital
8	Outline syllabus	,, _,, _	CO Mapping
	Unit 1	ASSESSMENT	
	A	AnatomicalandPhysiologicaldifferencesbetweentheAdultandPediatriclung. 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,CO 4
	Unit 2	Physiotherapy Techniques	
	A	 Physiotherapy rechniques Physiotherapy techniquestodecrease theworkofbreathing – Measurestooptimize the balancebetween energysupply and demand, positioning, Breathingre-education– Breathing control techniques, mechanical aids – IPPB, CPAP, BiPAP. Physiotherapytechniquestoclearsecretions– Hydration,Humidification&Nebulisation, MobilisationandBreathingexercises,PosturalDrainage,Manualtechniques – Percussion, Vibration and Shaking,RibSpringing,ACBT,AutogenicDrainage,MechanicalAids–PEP, Flutter, IPPB, Facilitation ofCough and Huff, NasopharyngealSuctioning. 	CO4,CO 5
		preventandtreatinflammation,DrugstotreatBronchospasm,Drugs totreatBreathlessness,Drugstohelpsputumclearance, Drugstoinhibitcoughing,Drugsto improveventilation, Drugstoreducepulmonary hypertension,Drugdeliverydoses,Inhalers and Nebulisers.	CO3
	С	NeonatalandPediatricPhysiotherapy– Chestphysiotherapyforchildren,Theneonatalunit, Modificationsofchestphysiotherapyfor specificneonataldisorders,Emergenciesinthe neonatal unit.	CO1, CO2
	Unit 3	PULMONARY REHABILITATION	
	A	Physiotherapy in Obstructive lung conditions, PhysiotherapyinRestrictive lungconditions.	CO3,CO 4
	В	Management ofbreathlessness.	
	С	Pulmonary Rehabilitation.	CO4,CO 5
	Unit 4	PHYSIOTHERAPY FOLLOLWING LUNG SURGERIES.	
	А	Physiotherapy following Lung surgeries	CO1,



				d Boundaries					
	Respiratory failure–Oxy		anical Ventilation.	CO2					
В	IntroductiontoICU:ICUr	nonitoring-		CO2,					
	Apparatus, AirwaysandT		PhysiotherapyintheICU-	СОЗ,					
			CU–Tetanus,HeadInjury,Lung						
	Disease, Pulmonary Oedema, Multiple Organ Failure, Neuromus cular								
	Disease,Smoke								
	Inhalation,Poisoning,As		,ARDS,Shock;Dealing						
		y Situation in the ICU.							
C	Physiotherapy manageme	nt following cardiac sur	geries.	CO3,CO					
				4					
Unit 5	ABDOMINAL SURGE	CRIES & AMPUTAT	ION	001.00					
A	AbdominalSurgeries-		C 11 · · · 1	CO4,CO					
	ManagementofPulmonar		onfollowingsurgical	5					
D	procedureson Abdomen		DVD	CO1					
В	ManagementofAmputations			CO1, CO3					
С	Prosthesisinamputations			CO3 CO1,					
C									
	disease conditions: Hype			CO2					
	discuse conditions. Hype	Intension, Diabetes, Re	har I andre and Obesity.						
Mode of	Theory/jury/Practical/Viva								
examination	incorj, jurj, i nachoul, vi								
Weightage	CA	MTE	ETE						
Distribution	30%	20%	50%						
Text book/s*	1. Cash Textbook of	f general medical a	and surgical conditions for						
		onnie Jaypee Brothers.	U U						
	1 1 1	• 1	oy- Hillegass & Sadowsky W.						
	B. Saunders.	monary physical alora							
		st Heart and Vaccular	Disorders for Physiotherapists-						
	Downie- J.P.	st, mart and vascular	Disorders for Thysiotherapists-						
	Brothers.								
	4. The-Brompton Guide	•							
	5. Cardiopulmonary Phy								
	6. Cardiovascular/Respin	atory physiotherapy- S	mith & Ball- Mosby						
	7. ACSM Guidelines for	r exercise testing and p	prescription- ACSM- Williams						
	and Wilkins.								
	8. Chest physiotherapy i	n intensive care unit- N	Aackenzie et al - Williams and						
	Wilkins.								
	9. Cardiopulmonary Phy	sical Therapy- Donna l	Frown Feltter						
	10. Understanding Mech								
	-		3411						
	11. Physiotherapy in res								
	12. Respiratory Physioth								
	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.

	ool: School of	also needs to be uploaded onto LMS. Batch: 2020-24							
	ed health	Dattii, 2020-27							
scie									
	gram:	Current Academic Year: 2023-24							
	helor's of								
	siotherapy								
	nch:	Semester:VIII							
Phy	siotherapy								
1	Course Code	BPT444							
2	Course Title	PHYSIOTHERAPY INCARDIO-VASCULARPULMONARY							
		AND INTENSIVE CARE(PRACTICAL)							
3	Credits	2							
4	Contact Hours	0-0-4							
	(L-T-P)								
	Course Status	Compulsory/Elective							
5	Course	1. To provide knowledge in assessing and planning physiotherapy							
	Objective	interventions for various General, Medical and Surgical conditions.							
		2. Thestudentmustbe abletoreassess thepatientas necessary,tomonitor							
		thepatientinregardtotreatment,tomonitor the patient'svital signs.							
		3. Student must know emergency drugs indication and contra-indication,							
		car ein intensive care unit (ICU) and to provide appropriate interventions							
		to thepatient.							
6	Course	CO1: Interpretation of different invasive and non invasive							
U	Outcomes	diagnostic investigation to make proper assessment in various							
	outcomes	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	The subject is designed to provide knowledge in assessing and planning							
	Description	physiotherapy 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 (ICLI) and to provide appropriate							
		indication, care in intensive care unit (ICU) and to provide appropriate							



		interventions to thepatient.								
8	Outline syllabu	syllabus								
	Unit 1									
		4. Brief								
		5. Dem								
		6. Asse								
		meas								
	Unit 2									
		4. Brie	CO3,CO4							
		5. Drug								
		6. Neonatal techniques								
	Unit 3									
1		Pulmonary Rehabilitation 4. Brief								
		5. Dem								
		6. ExperimentationUnit 4Physiotherapy following lung surgeries								
	Unit 4									
		4. Brief								
		5. Reha								
		6. Techniques								
	Unit 5	Abdominal								
		4. Brie	CO3,CO5							
			abilitation P	rotocol						
		6. Tech								
	Mode of									
	examination									
	Distribution	WeightageCAMTEETEDistribution60%0%40%								
	Text book/s*									
		 conditions for physiotherapists- Donnie Jaypee Brothers. 2. Essential of Cariopulmonary physical therapy- Hillegass & Sadowsky W. B. Saunders. 								
		r								
		Disorders for Physiotherapists- Downie- J.P.								
		Brothers.								
1		4. The-Bron								
1		5. Cardiopu								
		Tecknin, Mo	•							
1			-	iratory physiotherapy- Smith	n					
		& Ball- Mos	•	for exercise testing and	1					
1			1							
		prescription- ACSM- Williams and Wilkins.								



 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)

~		
	chool:	Batch : 2020-24
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SC	eiences	
P	rogram	Current Academic Year: 2023-24
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	achelor	
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p]	hysioth	
	apy	
	ranch:	Semester:VIII
P	hysioth	
	apy	
1	Cours	BPT467
	e	
	Code	
2	Cours	Community Physiotherapy
	e	
	Title	
3	Credit	4
	S	
4	Conta	4-0-0
	ct	
	Hours	



	(L-T-		
	P)		
	Cours	AECC	
	e Tarra a		
5	Type	1 Students will be able apply knowledge in community medicine and other proces with skills to	maler
5	Cours	1.Students will be able apply knowledge in community medicine and other areas with skills to a these in clinical situation.	арргу
	e Object	2.Students will be able to identify rehabilitation methods to prevent disabilities and dysfunction	a dua
	ive	to various disease conditions.	is uue
	IVC	3. To plan treatment goals	
		and applytheskills gained in rehabilitating and restoring functions.	
6	Cours	CO1:To understand the team approach in rehabilitation of disability.	
-	e	To understand the role of community and other institutions for rehabilitation.	
	Outco	CO2: Identification of residual potentials in patients with partial or total disability (temporary or	ſ
	mes	permanent). Formulation of appropriate goals (long & short term) in treatment & rehabilitation	
		be discussed.	
		CO3:Application of various orthosis, prosthesis, wheelchairs and other assistive devices for dif	ferent
		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	Cours	The subject serves to integrate the knowledge gained by the students in community medicine an	nd
	e D	other areas with skills to apply these in	
	Descri	clinical situations of health and disease and its prevention. The objective of the course is that aft	
	ption	specified hours of lectures and demonstrations the student will be able to identify rehabilitation	
		methods to prevent disabilities and dysfunctions duetovarious disease conditions and plan and s	set
		treatment goals and applytheskills gained in rehabilitating and restoring functions.	
8	Outline		CO
0	Outillic	Synabus	Map
			ping
	Unit 1	Community Rehabilitation	r 8
	A	Defination and definition of Community, Multiplicity of Communities. The Community	CO1,
		based approach, Community Entry strategies.	CO2
	В	Types and CBR and Community development, Community initiated versus community	CO1,
		oriented programme.	CO2
	С	Brief description and Community participation and mobilization	CO1,
			CO2
	Unit 2	Introduction and Principles to Community Based Rehabilitation	
	А	Definition, Historical review, Conceptof CBR, Need for CBRW.H.O.'s policies-about rural	CO1,
		health care- concept of primary/tertiary health centers-district hospitals etc-Role of P.T	CO3
	_	Principles of a team work of Medical person/P.T./O.T.	
	В	Difference between Institution based and Community based Rehabilitation and	CO1,
		Audiologist/speech therapist/P.&O./vocational guide in C.B.R of physically handicapped	CO3
		person Agencies involved in rehabilitation of physical handicapped-Legislation for physically	
	С	handicapped Objectives of CBB. Scene of CBB. Members of CBB team. Models of CBB and Concent of	CO1
	C	Objectives of CBR, Scope of CBR, Members of CBR team, Models of CBR and Concept of multi purpose health worker. Role of family members in the rehabilitation of a physically	CO1, CO3
		handicapped.	005
	Unit 3	Planning and management of CBR Programmes, Disability and DisabilityEvaluation	
	A A	Planning and management of CBR Programmes, CBR Programmed planning and	CO2,
	$\mathbf{\Lambda}$	management,OwnershipandGovernance,DecentralizationandCBR,ManagementofCBR,	CO2, CO4
		Programmedsustainability, Communication and Coordination, Community participation,	
1		rogrammedsustantaomy, communicationand Coordination, Communityparticipation,	1



	mobilization and awareness, CBRprogrammeinfluenceon promoting and developingpublic policies.	
В	Disability: Definition of Impairment, Handicap and Disability, Difference between impairment, handicap and disability, Causes of disability, Types of disability, Prevention of disability , Disability indeveloped countries, Disability indeveloping countries. Disability Surveys: Demography. Screening: Early detection of disabilities and developmental disorders, Prevention of disabilities- Types and levels.	CO2, CO4
С	DisabilityEvaluation:Introduction,What,WhyandHowtoevaluate,Quantitativeversus Qualitativedata, Usesof evaluation findings.	CO2, CO4
Unit 4	RoleofGovernmentinCBR	
А	RoleofGovernmentinCBR:Laws,Policies,Programmes,HumanRightsPolicy,Present	CO3,
	rehabilitation services, Legal aspectsof rehabilitation.	CO4
	RoleofSocialworkinCBR:Definitionofsocialwork,Methodsofsocialwork,Historyof social	
	work, Role of socialworker in rehabilitation.	
	RoleofvoluntaryOrganizationsinCBR:CharitableOrganizations,Voluntaryhealthagencies– National level and International NGO's, Multilateral and Bilateral agencies.	
В	National DistrictLevel Rehabilitation Programme: Primary rehabilitation unit, Regional	CO3,
D	trainingcenter, District rehabilitation center, Primary Health center, Villagerehabilitation worker,	CO4
	Anganwadi worker	
С	InternationalHealthOrganizations:WHO,UNICEF,UNDP,	CO3,
	UNFPA, FAO, ILO, Worldbank, USAID, SIDA, DANIDA, Rockfeller, Ford foundation,	CO4
	CARE, RED CROSS	
Unit 5 A	Role of Physiotherapy in CBR and Role of Physiotherapy in CBR 1. RoleofPhysiotherapyinCBR:Screeningfordisabilities,Prescribingexerciseprogram	CO4,
	 me, Prescribinganddevising lowcostlocallyavailableassisstiveaids, Modificationsphysicaland architecturalbarriers for disabled, Disabilityprevention, Strategiestoimprove ADL, Rehabilitation programmesforvariousneuro-musculoskeletal andcardiothoracicdisabilities. 2. Screeningandrehabilitationofpaediatricdisordersinthecommunity: Earlydetectiono fhigh riskbabies, Maternalnutritionand education, Rehabilitationof CerebralPalsy, Polio, Downs Syndrome, Muscular Dystrophies etc., Prevention andrehabilitationof mentalretardation and Behaviouraldisorders, Immunizationprogrammes, Earlyinterventionin highriskbabies, Genetic counselling. 	CO5
В	 Extension services and mobileunits: Introduction,Need, Camp approach. Vocationaltraininginrehabilitation:Introduction,Need,Vocationalevaluation,Vocat ional rehabilitation services. Geriatrics-PhysiologyofAging/degenerativechanges- Musculoskeletal/Neuromotor/cardio –respiratory-/Metabolic, Endocrine, Cognitive,Immunesystems. Roleof Physio Therapyin Hospitalbasedcare,Half-wayhomes,Residential homes,Mealson wheelsetc.Homefor the aged,Institutionbased Geriatric Rehabilitation.Fewconditions:-Alzheimer'sdisease, Dementia, Parkinson's Disease, Incontinence, Iatrogenic drug reactions, etc. Ethics of Geriatric Rehabilitation. 	CO4, CO5
C	RoleofPhysiotherapyinCBR -OccupationalHazardsintheindustrialarea Accidentsdue to a. Physical agents-e.gHeat/cold, light, noise,Vibration, U.V. radiation, Ionizingradiation, b. Chemical agents-Inhalation, local action,ingestion, c. Mechanicalhazards-	CO4, CO5



ofwor i. ii. iii. iv.	k place-mechanical stre sedentary table work— inappropriate seating a drivers constant standing- wat surgeons,	esses per hierarchy executives, clerk, arrangement- vehi tchman-Defense f	on&ergonomic evaluation y– icle	S
execut workc nt- rel	ologicalhazards-e.g tives,monotonicity&dis ompletionwithquality,F axation modes.		•	ie
ory/Jury/Practical/Viv	va			
		MTE	ETE	
		20%	50%	
sen's handbook of P	MR- Kottke & lehman-	W.B Saunders	d Morgan- FA Davis	
	execut workc nt- rel e. Biolog ory/Jury/Practical/Vi sical rehabilitation-a sen's handbook of P	 d. Psychologicalhazards-e.g executives,monotonicity&dis workcompletionwithquality,F nt- relaxation modes. e. Biological Hazards 	d. Psychologicalhazards-e.g executives,monotonicity&dissatisfactioninjob, workcompletionwithquality,RoleofP.T.inIndus nt- relaxation modes. e. Biological Hazards ory/Jury/Practical/Viva <u>MTE</u> 20% sical rehabilitation-assessment & treatment- Sullivan sen's handbook of PMR- Kottke & lehman-W.B Saunders	 d. Psychologicalhazards-e.g executives,monotonicity&dissatisfactioninjob,anxietyof workcompletionwithquality,RoleofP.T.inIndustrialsetup&Stressmanagem nt- relaxation modes. e. Biological Hazards ory/Jury/Practical/Viva MTE ETE 20% 50% sical rehabilitation-assessment & treatment- Sullivan

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)



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.

		also needs to be uploaded onto LMS.							
	ool: School of	Batch: 2020-24							
	ed health								
scie									
	gram:	Current Academic Year: 2023-24							
	helor's of								
	siotherapy								
	nch:	Semester: VIII							
	siotherapy								
1	Course Code	BPT445							
2	Course Title	COMMUNITY PHYSIOTHERAPY(PRACTICAL)							
3	Credits	1							
4	Contact Hours (L-T-P)	0-0-2							
	Course Status	Compulsory/Elective							
5	Course	1.Students will be able apply knowledge in community							
	Objective	and other areas with skills to apply these in clinical situ							
		2.Students will be able to identify rehabilitation metho							
		disabilities and dysfunctions due to various disease con	nditions.						
		3.To plan treatment goals							
	~	and applytheskills gained in rehabilitating and restorin							
6	Course	CO1:To understand the team approach in rehabilitation	•						
	Outcomes	To understand the role of community and other institut	tions for						
		rehabilitation.	41						
		CO2:Identification of residual potentials in patients wi	-						
		total disability (temporary or permanent). Formulation							
		appropriate goals (long & short term) in treatment & re will be discussed.	enabilitation						
		CO3:Application of various orthosis, prosthesis, whee	lebairs and						
		other assistive devices for different medical and Physic							
		CO4:To understand the importance of administration i							
		department.	ii setting of						
		CO5:To understand the organizational structure of a de	enartment or						
		an organization.	epuriment of						
7	Course	The subject serves to integrate the knowledge gained b	by the students						
	Description	in community medicine and other areas with skills to a							
	1 	clinical situations of health and disease and its prevent	11 •						
		objective of the course is that after the specified hours							
		and demonstrations the student will be able to identify							
		methods to prevent disabilities and dysfunctions dueto							
		disease conditions and plan and set treatment goals							
		and applytheskills gained in rehabilitating and restorin	g functions.						
8	Outline syllabus	3	СО						
			Mapping						
	Unit 1	Introduction of community physiotherapy							
		-Brief	CO1,CO2						
		-Demonstration							
L		-Community visit							
	Unit 2	Enviornment and health							
		-Brief	CO2,C03						



	-Demonstrat	ion		
	-Community	visit		
Unit 3	Disability a	nd disability	evaluation	
	-Brief	Ľ		CO3,C04
	-Institutional	l visit to PMR	department	
	-Demonstrat	ion	-	
Unit 4	Health prob	olems & vulne	erable groups	
	-brief			CO2,CO4
	-in rural area requiring phy -demonstrati			
Unit 5	Orthotics &	Prosthetics		
	-brief	CO4,CO5		
	-demonstrati			
	-Experiment			
Mode of examination	Jury/Practica	ul/Viva		
Weightage	CA	MTE	ETE	
Distribution	60%	0%	40%	
Text book/s*	J.E Park -Physical ref Sullivan -Krusen's ha Saunders -Orthotics in	nabilitation-as	nd social medicine by Dr. sessment & treatment- IR- Kottke & lehman-W.B n-splinting the limb & - 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

Sc	chool:	Batch : 2020-24
Program:		Current Academic Year: 2023-24
Branch:		Semester:
1	Course	BPT468
	Code	
2	Course	CLINICALREASONING AND EVIDENCE BASED PHYSIOTHERAPYPRACTICE
	Title	
3	Credits	1



4	Contact	1-0-0	
	Hours		
	(L-T-P)		
	Course	DSE	
	Туре		
5	Course	1. To understand the need of evidence based practice.	
	Objective	2. To apply evidence based practice in clinical setup.	
		3. To know recent trend and advanced treatment in physiotherapy.	
		4. To know the need of evidence based practice	
6	0		
6	Course	CO1: The students will be able to find recent trends in physiotherapy.	atmont
	Outcomes	CO2: The students will be able to apply recent techniques & trends in assessment and tre protocols.	atment
		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 dev	velon
		clinical reasoning.	ciop
7	Course	The course is related to clinical reasoning and evidence based practice. It utilizes evidence	ce based
	Descriptio	practice in physiotherapy.	
	n		
8	Outline syll	abus	СО
			Mappin
			g
	Unit 1	Introduction to evidence based practice	
	А	Introduction to Evidence Based Practice: Definitions, Evidence Based Practice	CO1,
	D		CO2
	В	Concepts of Evidence based Physiotherapy: Awareness, Consultation, Judgement, and	CO1,
	С	Creativity	CO2
	C	DevelopmentofEvidencebasedknowledge,TheIndividualProfessionalwithin adiscipline, and Professionalsacrossdisciplines	CO1, CO2
	Unit 2	Evidence based practitioners	02
	A A	Evidence based practitioner: The Reflective Practitioner, The EModel, Using the EModel	CO1,
	11		CO3
	В	FindingtheEvidence:MeasuringoutcomesinEvidenceBasedPractice,M	CO1,
	2	easuringHealth	CO3
		Outcomes, Measuring clinical outcomes, Inferential statistics and Cau	
		sation	
	С	Saarahin afortha Evidence: Asking Questions Identifying differents our as of avidence	CO1,
	C	SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsourcesofevidence LectronicBibliographic databasesandWorld	CO1, CO3
			005
		WideWeb,Conductingaliteraturesearch.Step by- step searchforevidence	
	Unit 3	Aggagging the oridonae	
	A A	Assessing the evidence AssessingtheEvidence:Evaluatingtheevidence;Levelsofevidenceinres	CO2,C
	Α	earchusing quantitative methods, Levels of evidence classification	03
			05
	D	system, Outcome Measurement,	COLC
	В	Biostatistics, The critical review of research using qualitative methods.	CO2,C O3
	С	Systematically reviewing the avidence: Stages of existematic reviews. Mote analysis	
	C	Systematically reviewing the evidence: Stages of systematic reviews, Meta-analysis, The Cochrane collaboration	CO2,C O3
	Unit 4	Economic evaluation of evidence	05
L			



			Beyond	Boundaries			
А			valuation, conducting economic	CO1,C			
	evaluation, criticallyrevie	wingeconomicevaluation, loc	catingeconomicevaluation in the	03			
	literature						
В	Usingtheevidence:Buildinge	videnceinpractice;CriticallyApp	raisedTopics(C01,C			
	CATs),CAT format, Using	g CATs, DrawbacksofCATs		03			
С	Practiceguidelines, algorit	Practiceguidelines, algorithms, and clinical pathways: Recenttrends inhealth care, Clinical					
	 PracticeGuidelines(CPG),Algorithms,Clinicalpathways,Legalimplications inclinical pathways andCPG, Comparison ofCPGs, Algorithmsand Clinical Pathways Communicating evidence to clients, managers and funders 						
Unit 5							
А	Communicating evidence	to clients, managers and fund	lers: Effectively communicating	CO3,C			
	evidence, Evidencebased	communication in the face of uncertainty; Evidence based					
	communication opportunit						
В	Researchdisseminationan	dtransferofknowledge:Model	sofresearchtransfer,Concrete	CO3,C			
	research transfer strategie	es		O4			
С	Evidencebased policy			CO3,C			
				04			
Mode of	Theory/Jury						
examinati							
on							
Weightag	CA	MTE	ETE				
e	30%	20%	50%				
Distributi							
on							
Text	1. APTA journal						
book/s*	2. International journ	nal 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

School: Batch : 2020-24



р		Current A and amin Vacue 2022 24	Boundaries						
	ogram:	Current Academic Year: 2023-24							
	ranch:	Semester:VIII							
1		BPT446							
2	Code	CUNICALDEACONINC AND EVIDENCE DAGED DUVGLOTHED ADVDDACTION							
2	Course Title	CLINICALREASONING AND EVIDENCE BASED PHYSIOTHERAPYPRACTICE							
3	Credits	1							
<u> </u>	Contact	0-0-1							
4	Hours	0-0-1							
	(L-T-P)								
	Course	Practical							
	Type	Tactical							
5	Course	1. To understand the need of evidence based practice.							
J	Objective	2. To apply evidence based practice in clinical setup.							
		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.							
	Outcomes	CO2: The students will be able to apply recent techniques & trends in assessment and tre	atment						
		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 dev	elop						
7	Course	clinical reasoning. The course is related to clinical reasoning and evidence based practice. It utilizes evidence	a based						
/	Descriptio	practice in physiotherapy.	ce based						
	n	practice in physiotherapy.							
8	Outline syll	abus	CO Mappin g						
	Unit 1	Introduction to evidence based practice	0						
		Introduction to Evidence Based Practice: Definitions, Evidence Based Practice	CO1,						
		Concepts of Evidence based Physiotherapy: Awareness, Consultation, Judgement, and Creativity	CO2						
		DevelopmentofEvidencebasedknowledge, TheIndividualProfessional within adiscipline,							
		and Professionalsacrossdisciplines							
	Unit 2	Evidence based practitioners							
		Evidence Based Practitioner: The Reflective Practitioner, The EM odel, Using the EM odel and the empirical structure of the test of test	CO1,						
		FindingtheEvidence:MeasuringoutcomesinEvidenceBasedPractice,M	CO3						
		easuringHealth							
		CasulingTicatu							
		Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau							
		Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau sation							
		Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau sation SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsources,							
		Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau sation SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsources, ElectronicBibliographic databasesandWorld							
		Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau sation SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsources,							
	Unit 3	Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau sation SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsources, ElectronicBibliographic databasesandWorld WideWeb,ConductingaliteraturesearchStep by- step searchforevidence							
	Unit 3	Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau sation SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsources, ElectronicBibliographic databasesandWorld WideWeb,ConductingaliteraturesearchStep by- step searchforevidence Assessing the evidence	C02.C						
	Unit 3	Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau sation SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsources, ElectronicBibliographic databasesandWorld WideWeb,ConductingaliteraturesearchStep by- step searchforevidence Assessing the evidence Assessing the evidence:Evaluatingtheevidence;Levelsofevidenceinres	CO2,C O3						
	Unit 3	Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau sation SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsources, ElectronicBibliographic databasesandWorld WideWeb,ConductingaliteraturesearchStep by- step searchforevidence Assessing the evidence Assessing the evidence:Evaluating the evidence;Levelsofevidence inres earchusing quantitative methods, Levels of evidence classification							
	Unit 3	Outcomes,Measuringclinicaloutcomes,InferentialstatisticsandCau sation SearchingfortheEvidence:AskingQuestions,Identifyingdifferentsources, ElectronicBibliographic databasesandWorld WideWeb,ConductingaliteraturesearchStep by- step searchforevidence Assessing the evidence Assessing the evidence:Evaluatingtheevidence;Levelsofevidenceinres							



	The Cochrane coll	aboration	systematic reviews, Meta-analysis,					
Unit 4	Economic evaluation of evidence							
			omicevaluation, conducting economic	CO				
	evaluation, critical literature	lyreviewingeconomicevaluation	on, locatingeconomicevaluation in the	03				
	Usingtheevidence:Buildingevidenceinpractice;CriticallyAppraisedTopics(
	CATs),CAT format, Using CATs, DrawbacksofCATs							
	Practiceguidelines, algorithms, and clinical pathways: Recenttrends inhealth care, Clinical							
	PracticeGuidelines(CPG),Algorithms,Clinicalpathways,Legalimplications inclinical pathways andCPG, Comparison ofCPGs, Algorithmsand Clinical Pathways							
Unit 5	Communicating evidence to clients, managers and funders							
	Communicating evidenceto clients, managers and funders: Effectively communicating							
	evidence, Evidencebased communication in the face of uncertainty; Evidence based							
	communication opportunities in everyday practice							
	Researchdisseminationandtransferofknowledge:Modelsofresearchtransfer,Concrete							
	research transfer strategies							
	Evidencebased policy							
Mode of examinati on	Practical/viva							
Weightag	СА	MTE	ETE	1				
e	60%	0%	40%					
Distributi								
on								
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)



	hool: School	Batch : 2020-24							
	Allied								
	ealth								
	iences								
	ogram:	Current Academic Year: 2023-24							
Ba	chelor's of								
ph	ysiotherapy								
Br	anch:	Semester:VIII							
Ph	ysiotherapy								
1	Course	BPT469							
	Code								
2	Course	ADMINISTRATION & TEACHING SKILLS							
	Title								
3	Credits	1							
4	Contact	1-0-0							
	Hours								
	(L-T-P)								
	Course	CC							
	Туре								
5									
	Objective	2. To understand ethics of physiotherapist and various theories of management and							
	5	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.							
	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 r	ules of an						
		organization.							
7	Course	This course presents knowledge and application of different teaching methodology	to the						
	Description	students. The course begins with core topics of concepts of teaching and learning. T							
	I I I	also covers administration and management and role of physiotherapist in organizat							
8	Outline syllab	DUS	СО						
	-		Mapping						
	Unit 1	Introduction to administration							
	А	Branchesofadministration, Natureandscopeofadministration.	CO1,						
			CO2						
	В	How to be an effective administrator.							
		CO2							
	С	Planninghospitaladministrationas part of abalanced health careprogram.	CO1,						
	-		CO2						
	Unit 2	Introduction to management							
	A	Principles of hospital administration and itsapplications to physiotherapy.	CO2,CO3						
	B	Planningandorganization:Planningcycle,Principlesoforganizationalcharts,Resource	CO1,						
		and quality management, planning change-innovation	CO1, CO3						
			005						



С			gbudget and inco	megeneration	CO2,C			
Unit 3		itment						
A				affing, Information, Communication,	CO3,C			
D			rvices, Monitorin					
В	-		erapydepartment:	Planning,Space,Manpower,Otherbasic	CO3,C			
	resour		mmittage and no	actistions				
С			mmittees, and neg	anceappraisalsystem, Quality caredelivery	CO3,C			
C		ne staff.	ersonnerperforma	anceappraisaisystem, Quantycaredenvery	C05,C			
	nomu	ic starr.						
Unit 4	Aims	of physiotherapy	education					
A	Ethics	of physiotherapy,			CO4,C			
	A.Con	A.Conceptsof teachingandlearning						
В	e. Guidance and counseling							
D	f. Faculty development program							
	g.							
С	h.	Use of A-V aidsi			CO4,C			
	i.	Taxonomy of ed	ucation					
Unit 5		culum developme						
A		ulum developmen			CO1,C			
B			of academic and c	clinical teaching	C01,C			
C		rement and evaluation			C01,C			
Mode of	Theory	/Jury/Practical/V	iva					
examination Weightage	CA		MTE	ETE				
Distribution	30%		20%	50%	-			
Text		Hospital adminis		g by BM Sakharkar				
book/s*	2	-						
	 Pedagogy in physiotherapy education by C.S Ram A textbook of curriculum,pedagogy and evaluation by Dr.S.K Bhatia 							
	 Principle of management by PC Tripathi Bodefining healthcare by Michael E Porter 							
	5. Redefining healthcare by Michael 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
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

Prepared by : SU/SAHS



of He	hool: School Allied ealth iences	Batch : 2020-24							
	ogram:	Current Academic Year: 2023-24							
	chelor's of								
-	ysiotherapy anch:	Semester:VIII							
	vanch: siotherapy	Semester: VIII							
1	Course	BPT467							
1	Code								
2	Course	ADMINISTRATION & TEACHING SKILLS							
	Title								
3	Credits	1							
4	Contact	0-0-1							
	Hours								
	(L-T-P)								
	Course	Practical							
	Туре								
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 education4.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 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 r	rules of an						
		organization.							
7	Course Description	This course presents knowledge and application of different teaching methodology t students. The course begins with core topics of concepts of teaching and learning. T also covers administration and management and role of physiotherapist in organizat	he course						
8	Outline syllal	DUS	CO						
	2		Mapping						
	Unit 1	Introduction to administration							
		Branchesofadministration, Natureandscopeofadministration.	CO1,						
		How to be an effective administrator.	CO2						
		Planninghospitaladministrationas part of abalanced health careprogram.							
	Unit 2	Introduction to management							
		Principles of hospital administration and itsapplications to physiotherapy.	CO2,CO3						
		Planningandorganization:Planningcycle,Principlesoforganizationalcharts,Resource and quality management,planningchange-innovation							
	U	Financial issues includingbudget and incomegeneration							
	Unit 3	Recruitment	CO2 CO4						
		Hospital administration: Organization, Staffing, Information, Communication, Coordination, Cost of services, Monitoring and evaluation.	CO3,CO4						



					ond Boundarie			
		resources.		ning,Space,Manpower,Otherbasic				
		Organizing meetings, committees, and negotiations Personnelmanagement:Personnelperformanceappraisalsystem,Qualitycaredelivery from the staff.						
ι	Unit 4	Aims of physiotherapy ed	ucation					
		Ethics of physiotherapy, A.Conceptsof teachingandle			CO4,CO5			
	 e. Guidance and counseling f. Faculty development program g. Administration in clinical setting 							
		g.Administration in clinicalsettingh.Use of A-V aidsin teachingi.Taxonomy of education						
U	Unit 5	Curriculum development						
		Curriculum development						
		Principles and methods of academic and clinical teaching						
		Measurement and evaluation						
	Mode of examination	Practical/Viva						
	Veightage	CA	MTE	ETE				
E	Distribution	60%	0%	40%				
	ſext	1. Hospital administrat	tion & planning by	BM Sakharkar				
b	ook/s*	2. Pedagogy in physiotherapy education by C.S Ram						
		3. A textbook of curriculum, pedagogy and evaluation by Dr.S.K Bhatia						
		4. Principle of management by PC Tripathi						
		5. Redefining healthcare by Michael 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
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)



Sch	ool: School Of Allied	Health Sciences	Batch : 2020-24							
Pro	gram: Bachelor's Of	Current Academic Year: 2023-24								
•	vsiotherapy(BPT)									
Bra	nch: Physiotherapy	Semester:VIII								
1 (Course Code	BPT443								
2 0	Course Title	CLINICAL EDUCATION								
3 (Credits	6								
	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	nt of the patient.							
		2. Explore relevant intellectual approa	aches and practical							
		skills, including those acquired in th	e taught							
		components, to the choosen topics.	U U							
		r r r r r r r r r r r r r r r r r r r								
6	Course Outcomes	CO1:To be able to apply the gained knowledge	edge in clinical							
		setup.								
		CO2:Develop critically, strategically and in								
		area of interest arising from the work done	_							
		graduate framework and in student's area of	of academic or							
		professional interest.								
		CO3:To be able to utilize the gained know	ledge practically							
		and in hospital setup.								
		CO4:Present and be able to utilize their rat	ionale, approach or							
		methodology, outcomes and conclusions.	ladaa maafaasianal							
		CO5:To be able to enhance practical know								
7	Course Description	approach,academic rigour,independence ar Enable student to develop and apply clinica								
/	Course Description	assessment, treatment of the patient.Explor	-							
		intellectual approaches and practical skills,								
		acquired in the taught components, to the c								
8	Outline syllabus	dequired in the taught components; to the e	CO							
U			Mapping							
	Unit 1	Musculoskelatal physiotherapy								
		Brief.	CO1,CO2							
		Demonstration.								
		Experimentation.								
		Able to utilize modalities								
	Unit 2	Cardio pulmonary physiotherapy								
		Brief CO2,C03								
		Demonstration								
		Experimentation								
	Unit 3	Sport's Rehabilitation								



		onstration sment and treat	CO3,C04	
Unit 4	Neur		pediatric physiotherapy	
		Brief	CO4,CO5	
		Demonstratio		
		application		
Unit 5			and IPD, general nd gynaecology	
	Brief			CO1,CO5
	Demo	onstration		
Mode of examination				
Weightage Distribution	CA	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

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

Prepared by : SU/SAHS



3	Credits	2	V		
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.			
		2. Engage students in study which demands a			
		professional approach,academic			
		rigour, independence and self direction.			
		figour, independence and sen 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		
	Unit 1	Introduction	Achievement		
		1. Outline of the problem, issue or topic for the	CO1,CO4		
		project and why it has been chosen.			
		 A review of background material should be 			
		included to put the project in context of recent			
		relevant literature and with other work done in			
		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	, -		
		 Statement hypothesis 			
	Unit 3	nit 3 Ehical considerations			
		1. Brief	CO3,CO4		
		2. Approval forms	000,004		



	3. Apj	propriate eviden	ce				
Unit 4	Method/P	rotocol					
	1. Brie	 Brief Outline of the method to be applied Data collection 					
	2. Out						
	3. Dat						
Unit 5	Presentati	on/Finalization					
	1. App	 Approval References 					
	2. Ref						
	3. Presentation						
Mode of examination	Jury/Practic	Jury/Practical/Viva					
Weightage	CA	MTE	ETE				
Distribution	60%	0%	40%				
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	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