

Programme Structure Sharda School of Allied Health Sciences

Bachelor of Physiotherapy (BPT)

Programme Code – SAH0103

Batch: 2023-2027

SSAHS/BPT/2023-27

A+	SHARDA UNIVERSITY
NAAC	Beyond Boundaries

Programme Structure Sharda School of Allied Health Sciences Programme: BPT Batch: 2023-2027 Semester: I

S	Paper	Course		Tea	ching l	Load		Type of Course ³ : (CC,	
No.	ID	Code	Course	L	Т	Р	Credits	AECO	C, SEC, DSE)
HEO	RY SUBJE	CTS			I				
1.	35859	PTB107	Human Anatomy- Surface and Systemic	4	1	0	5	Core-CC	
2.	36343	HPY101	Human Physiology – I	4	0	0	4	Core-CC	
3.	35861	PTB103	Biochemistry	2	0	0	2	Core-CC	
4.	35862	PTB104	Psychology & Sociology	3	0	0	3	Co-REQUS	SITE-DSC
6.	35864	PTB106	First aid, & CPR	1	0	0	1	Pre-requisi	te- DSC
acti	cal/Viva-V	oce/Jury					-		
1.	36357	PTB135	Human Anatomy- Surface and Systemic (LAB)	0	0	4	2	Core	DSE
2.	35866	PTB132	Human Physiology –I (LAB)	0	0	4	2	Core	SEC
3.	35867	PTB133	Biochemistry (LAB)	0	0	2	1	Core	CC
4.	35868	PTB134	First Aid & CPR (LAB)	0	0	2	1	Pre- requisite	DSC
5.	16254	ARP101	Communicative English-I	1	0	2	2	Pre- requisite- SEC	
	•	- ·	TOTAL CREDITS		•		23		<u>.</u>

(A+)	SHARDA UNIVERSITY
NAAC	Beyond Boundaries

	Sharda School of Allied Health Sciences Programme: BPT Batch: 2023-2027 Semester: II											
S. No.	Pap er ID	Subject Code	Subjects	Teaching Load Subjects L T P		Load P	Credits	Type of Course ⁴ : (CC, AECC, SEC, DSE)				
THE	ORY SUBJ	IECTS										
1.		PTB116	Human Anatomy- Regional	4	1	0	5	Core- CC				
2.		HPY201	Human Physiology -II	4	0	0	4	Core-CC				
3.	36120	PTB113	Principles of Biophysical Agents	2	0	0	2	Core-CC				
4.	36121	PTB114	Fundamentals of Exercise Science	2	0	0	2	Co-requisite-CC				
5.	36122	PTB115	Nutrition	1	0	0	1	Co-requisite-AECC				
6			OPE				2	Open Elective				
Pract	ical/Viva-V	/oce/Jury	1	I			- 1	1				
1.		PTB146	Human Anatomy-(Regional)	0	0	4	2	Core-CC				
2.		PTB142	Human Physiology -II	0	0	4	2	Core-CC				
3.	36125	PTB143	Principles of Biophysical Agents	0	0	2	1	Core-CC				
4.	36126	PTB144	Fundamentals of Exercise Science	0	0	2	1	Co-requisite-DSE				
5.	36127	PTB145	Yoga Science	0	0	2	1	Co-requisite-AECC				
6		ARP102	Communicative English-II	1	0	2	2	SEC				
	1	1	TOTAL CREDITS		-	- 1	25	1				

			Programn Sharda School of A Program Batch: 2 Semeste	ne Strue Illied H nme: B 2023-20 er: III	cture ealth So PT 27	ciences			
S. No.	Paper ID	Subject Code	Subjects	Tea L	thing L	P	Credits	Core/Electi Co Requisi Type of Co AECC, SEC	ive Pre- Requisite/ te urse ⁵ : (CC, ', DSE)
THE	ORY SUB.	JECTS							
1.		PTB201	Pathology	2	0	0	2	Core-CC	
2.		PTB202	Pharmacology	2	0	0	2	Core-DSC	
3.		PTB203	Electrotherapy	2	0	0	2	Core-CC	
4.		PTB204	Fundamentals of Biomechanics and Exercise Therapy	3	0	0	3	Core-CC	
5		PTB205	Anthropometry	1	0	0	1	Core-DSC	
6		PTB206	Biostatistics & Research Methodology	2	1	0	3	Co-requisite	e-DSC
7			VAC				-	VAC	
Pract	tical/Viva-	Voce/Jury						I.	
1.		PTB231	Pathology	0	0	2	1	Core	CC
2.		PTB232	Pharmacology	0	0	2	1	Core	CC
3.		PTB233	Electrotherapy	0	0	2	1	Core	CC
4.		PTB234	Fundamentals of Biomechanics and Exercise Therapy	0	0	2	1	Core	СС
5.		PTB235	Anthropometry	0	0	2	1	Core	CC
6.		PTB236	Clinical observation – I	0	0	6	3	Core	CC
тот	AL CRED	ITS				I	21		



Programme Structure Sharda School of Allied Health Sciences **Programme: BPT** Batch: 2023-2027 Semester: IV S. Paper ID Subject Subject Teaching Load Credits **Core/Elective Pre- Requisite/** Code **Co Requisite** No. Type of Course⁵: (CC, AECC, L Т Р SEC, DSE) THEORY SUBJECTS 1 Exercise Therapy 3 0 3 Core-CC PTB211 2 2 0 PTB212 Thermotherapy & Actinotherapy 0 2 Core-DSC 3 2 0 0 2 Core-CC PTB213 Medical Law, and Ethics 4 Ergonomics 0 Co-requisite-DSC PTB214 1 0 1 5. PTB215 2 0 0 2 Co-requisite-CC Microbiology 6. 2 2 0 0 Co-requisite-DSC PTB216 Quality Assurance in Clinics 7. 2 2 Elective-OPE **Open Elective** _ Practical/Viva-Voce/Jury Core-CC 1. PTB241 2 Exercise Therapy _ 1 _ 2. Core-CC 2 PTB242 Thermotherapy & Actinotherapy 1 _ _ 3. PTB243 Ergonomics 0 0 2 1 Core-CC 4. PTB244 Microbiology 0 0 2 1 Co-requisite-DSC 5. PTB245 Clinical Observation -II 6 3 Co-requisite-CC _ _ 6. 2 0 0 CCU108 **Community Connect** 4 DSC 23 TOTAL CREDITS

Sharda School of Allied Health Sciences Programme: BPT Batch: 2023-2027 Semester: V										
5. No.	Paper ID	Subject Code	Subjects	Tea	ching L	oad	Credits	Type of Course ⁷ : (CC, AECC, SEC, DSE		
HEOR	Y SUBJECT	s		Ľ	1	1				
1.		PTB301	General Medicine including Endocrinology, Paediatrics & Geriatrics	2	0	0	2	Core-CC		
2.		PTB302	General Surgery including ENT, burns & plastic surgery	2	0	0	2	Core-CC		
3.		PTB303	Orthopaedics, and Traumatology	3	0	0	3	Core-CC		
4.		PTB304	Clinical Neurology & Psychiatry	2	0	0	3	Core-CC		
5.		PTB305	Applied Biomechanics & Kinesiology	3	0	0	3	Core-CC		
6.		INC001	Faculty Student Industry Connect	0	0	0	2	Pre-requisite-FSIC		
7.		RBL001	Research Based Learning-I	0	0	0	0	Pre-requisite-RBL		
8.			VAC					VAC (Audit Course)		
ractica	l/Viva-Voce/J	lury								
1.		PTB331	General Medicine including Endocrinology, Paediatrics & Geriatrics	0	0	2	1	Core-CC		
2		PTB332	General Surgery including ENT, burns & plastic surgery	0	0	2	1	Core-CC		
3		PTB333	Orthopaedics, and Traumatology	0	0	2	1	Core-CC		
4		PTB334	Clinical Neurology & Psychiatry	0	0	2	1	Core-CC		
5		PTB335	Applied Biomechanics & Kinesiology	0	0	2	1	Core-CC		
6.		PTB336	Clinical Education-Evaluation methods	0	0	6	3	Core-CC		
7.		PTB337	Clinical Education-Outcome measures	0	0	6	3	Core-CC		
TOTA	I CREDITS	1		I	1	1	26	I		

Programme: BPT Batch: 2023-2027 Semester: VI											
S.	Paper ID	Subject	Subjects	Tea	aching	Load		Type of Course ⁸ : (CC, AECC, SEC			
No.		Code		L	Т	Р	Credits	DSE			
EOR	Y SUBJECTS										
		PTB311	Obstetrics & Gynaecology	2	0	0	2	Core-CC			
2.		PTB312	Cardiovascular Science Including Lymphatic system	2	0	0	2	Core-DSC			
		PTB313	Respiratory System	1	0	0	1	Core-CC			
4.		PTB314	Environmental health, and health Promotion	1	0	0	1	Core- SEC			
5.		PTB315	Community Medicine	2	0	0	2	Core-CC			
6.		PTB316	Interpretation of Diagnostic imaging technology	2	0	0	2	Core-CC			
7.			Open elective	2	0	0	2	Elective-OPE			
actic	al/Viva-Voce	e/Jury									
•		PTB341	Obstetrics & Gynaecology	0	0	2	1	Core-CC			
2		PTB342	Cardiovascular Science Including Lymphatic system	0	0	2	1	Core-CC			
		PTB343	Respiratory System	0	0	2	1	Core-CC			
		PTB344	Environmental health, and health Promotion	0	0	2	1	Co-requisite -DSC			
i.		PTB345	Clinical Education- Systems interaction	0	0	6	3	Core-CC			
i.		PTB346	Clinical Education - Differential diagnosis	0	0	6	3	Core-CC			
		RBL002	Research Based Learning- II	0	0	0	0	RBL			
6.		PTB346 RBL002	Clinical Education - Differential diagnosis Research Based Learning- II TOTAL CREDITS	0	0	6 0	3 0 22	Core-C RBL			



Sharda School of Allied Health Sciences Programme: BPT Batch: 2023-2027 Semester: VII

S.	Paper ID	Subject	Subject	Теа	aching Loa	ad		Type of Course ⁹ : (CC, AECC,	
No.		Code	s	L	Т	Р	Credits	SEC, DSE	
HEORY	SUBJECTS	S	•					÷	
1.		PTB401	Physiotherapy in Orthopedics & sports medicine	3	0	0	3	Core-CC	
2.		PTB402	Physiotherapy in Neurology and Neurosurgery	3	0	0	3	Core-CC	
3.		PTB403	Physiotherapy in General Medicine and General Surgery	1	0	0	1	Core-CC	
4.		RBL003	Research Based Learning-III	0	0	0	2	Co-requisite-RBL	
5.		PTB404	Complementary Medicine	1	0	0	1	Co-requisite-DSC	
6.		PTB405	Occupational Health	1	0	0	1	Co-requisite-SEC	
			VAC					VAC	
ractical/\	/iva-Voce/Ju	iry							
1.		PTB431	Physiotherapy in Orthopaedics and Sports Medicine	0	0	2	1	Core-CC	
2		PTB432	Physiotherapy in Neurology and Neurosurgery	0	0	2	1	Core-CC	
3		PTB433	Physiotherapy in General Medicine and General Surgery	0	0	2	1	Core-CC	
4		PTB434	Occupational Health	0	0	2	1	Core-CC	
5		PTB435	Complementary Medicine	0	0	2	1	Core-CC	
6		PTB436	PT Clinical Reasoning-I	0	0	4	2	Clinical Training-CT	
7		PTB437	PT Clinical Skills-I	0	0	4	2	Clinical Training-CT	
8		PTB438	PT Clinical Documentation-I	0	0	4	2	Clinical Training-CT	
			TOTAL CREDITS	.	1	I	22	1	

			Sharda School of Allied H Programme: B Batch: 2023-20 Semester: VIII	ealth S PT 127	ciences			Eryond Boundaries
S.	Paper ID	Subject	Subjects	Т	eaching	Load		Type of Course ¹⁰ : (CC, AECC, SEC,
No.		Code		L	Т	Р	Credits	DSE
HEO	RY SUBJEC	TS						
1.		PTB411	Physiotherapy in Cardiopulmonary Sciences	3	0	0	3	Core-CC
			(lymphatic system)					
2.		PTB412	Physiotherapy in Obstetrics, and	2	0	0	2	Core-DSC
			Gynaecology	-				<i></i>
3.		PTB413	Community Based Rehabilitation	2	0	0	2	Core-CC
4.		PTB414	Advanced Rehabilitation Aids and	1	0	0	1	Core- DSC
			Appliances					
5.		PTB415		1	0	0	1	Co-requisite-AECC
		DTD 416	Teamwork and interpersonal communication	2	0	0	2	
		PIB416,	ICU PT; *	2	0	0	2	Co-requisite-SEC
6.								
6		PTB417	DT in Deadistries: *	2	0	0	2	Co-requisite-SEC
6		PTB/18		2	0	0	2	Co requisite SEC
0.		110410	Geriatric PT; *	2	0	0	2	Co-requisite-SEC
6.		PTB419	Hand Rehab*	2	0	0	2	Co-requisite-SEC
An	y one cours	e shall be op	ted					

ractical/Vi	iva-Voce/Jury						
1.	PTB441	Physiotherapy in Cardiopulmonary Sciences (lymphatic system)	0	0	2	1	Core-DSC
2	PTB442	Physiotherapy in Obstetric, and Gynaecology	0	0	2	1	Core-CC
3	PTB443	Community Based Rehabilitation	0	0	2	1	Core-CC
4	RBL004	Project	0	0	4	2	RBL-RBL
5	PTB445	Teamwork and interpersonal communication	0	0	2	1	Co-REQUISITE-AECC
6	PTB446	ICU PT;	0	0	2	1	SEC-SEC
6.	PTB444	PT in Paediatrics;	0	0	2	1	SEC-SEC
6.	PTB450	Geriatric PT;	0	0	2	1	SEC-SEC
6.	PTB451	Hand Rehab	0	0	2	1	SEC-SEC
7	PTB447	PT Clinical Reasoning-II	0	0	4	2	Core-CC
8	PTB448	PT Clinical Skills-II	0	0	4	2	Core-CC
9	PTB449	PT Clinical Documentation-II	0	0	4	2	Core-CC



Sharda School of Allied Health Sciences Programme: BPT Batch: 2023-2027 Semester: IX

	S. No.	Paper ID	Subject Code	Subjects	Теа	aching I	Load	Credits	Type of C AECC, SEC, DS	ourse ¹⁰ : (CC, SE
1	1.		PTB501	Internship	0	0	0	20	Core	C C





First Semester

Sch	ool: SSAHS	Batch: 2023-2027	
Prog	gramme: BPT	•	
Bra Phy	nch: siotherapy	Semester: 1 st	
1	Course Code	PTB 107	
2	Course Title	HUMAN ANATOMY -SURFACE AND SYSTEMIC	
3	Credits	5	
4	Contact Hours (L-T-P)	4-1-0	
	Course Type	CC	
5	Course Objective	 The student will be able to demonstrate knowledge in humana needed for the study and practice of physiotherapy and occupa therapy. In addition the student will be able to fulfill with 75% accurac measured written & oral internal evaluation) thefollowing obj course. 	anatomy as ational cy (as ectives of the
	Outcomes	 CO1: To identify the gross & microscopic structures of various tissue the human body. CO2: To correlate the human anatomical structure with the functions. CO3: To remember & demonstrate the bones, joints, muscles, vascular, supply of upper limb. CO4: To demonstrate boundaries and contents of body cavity. CO5: To apply the structural knowledge of bones, joints, muscles, vas supply. CO6 – To evaluate anatomical deviations and deformity. 	es and organs i and nerve cular and nerve
7	Course Description	It is designed to provide students with the working knowledge o of the human body which is essential foundation for their clinical studies	f the structure
8	Outline syllabu	S	CO Mappin
	Unit 1	General anatomy	
	Α	Introduction, Skeleton, Joints, Muscles	CO1, CO2
	B	Cardiovascular system, Lymphatic system, Nervous system	CO1,CO2
	C	Skin and fascia, Connective tissue, ligaments and raphe, Principles of radiography	C01,C02
	Unit 2	Upper extremity	



Α	Muscles of arr	n, forearm, hand – origin, i	nsertion, nerve supply and actions.	CO1, 0
В	Back , scapul	lar region, pectoral region, I	Breast	CO1, 0
С	Arches of ha Brachial plex vessels and ly	and, skin of the palm and do sus, nerves, blood ymphatic drainage of upper	orsum of hand. <mark>Axilla, cubital fossa,</mark> extremity.	CO1, 0
Unit 3	Upper extremi	ity Joints		
<u>A</u>	Shoulder gird	tle shoulder joint elbow jo	ints	CO1
A	Shoulder gire	ile, shoulder joint, cloow jo	into,	CO6
В	Radio-ulnar j	oint, wrist joint and joints of	of the hand.	CO1, 0
C	Applied anato	omy of all joints of upper li	mb	C01 (
C	Applied allas	only of an joints of upper in		CO6
Unit 4	Thorax			
Α	Thoracic cage	e, thoracic cavity, Intercost	al muscles and Accessory muscles	CO2, 0
	of respiration	: Origin, insertion, nerve su	pply and action	
	Diaphragm: 0	Origin, insertion, nerve sup	piy and action, openings in the	
B	Pleura . lungs	s and respiratory tree		CO2
D		, ,		002,
С	Percardium.H	Heart and great blood vessel	s	CO2,
Unit 5	Head and Necl	k		
Α	Soft parts: Sc	calp, Muscles of the face an	d neck and their nerve andblood	CO1 0
	supply, triang Gross anatom salivary gland	g <mark>les of the neck.,</mark> ny of eyeball, nose, ears and d.	d tongue Thyroid gland,	CO6
В	Course , distr	ributions and applied of cra	nial nerves (IV.V,	CO1,
9		X, XII) n dibulan ioint with muscles	of mostiontion	CO6
L	remporo-ma	noroular joint with muscles		COI,
Mode of	Theory/Jury/P	ractical/Viva		
examination				
Weightage	CA	MTE	ETE	
Distribution	25%	25%	50%	
Text book/s*	1. BDC	Chaurasia's Human Anato	omy.	
	2. Indert	bir Singh- Textbook of A	natomy.	
	3. Textb	ook of Anatomy with col	lor Atlas-Inderbir Singh.	
	4. Richa	rd S. Snell- Clinical Ana	tomy.	
				1



Other	1. Kieth L Moorie, Clinically OrientedAnatomy.
References	2. A K Datta, Essentials Of Human Anatomy: Thorax
	And Abdomen
	3. Inderbir Singh, Human Osteology.

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	2	3	1	2	3	3	2	3	1	1	-	-
CO2	3	2	3	2	3	1	3	2	3	1	3	2	2	-
CO.3	3	3	1	2	1	3	1	3	1	2	3	2	-	3
CO4	1	2	3	3	3	2	2	2	3	3	-	3	1	-
CO5	2	3	3	1	3	2	3	3	3	3	2	3	3	1
CO6	2	2	1	3	3	1	3	2	1	3	3	1	3	2
Avera ge POs	2.166	2.5	2.16	2.33	2.33	1.83	2.5	2.5	2.16	2.5	2.3	2.33	1.5	1.0

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



Sch	ool: SSAHS	Batch: 2023-2027					
Prog	gramme: BPT						
Bra Phy	nch: siotherapy	Semester: 1 st					
1	Course Code	HPY101					
2	Course Title	HUMAN PHYSIOLOGY – I					
3	Credits	4					
4	Contact Hours (L-T-P)	4-0-0					
	Course Type	CC					
5	Course Objective	 To learn and understand the fundamental scientific concepts relatively range of topics in human physiology. To make the students familiar with the basic factual information the mechanisms and functioning of the human body system. To develop investigative skills and to become familiar we techniques of measurement. To help the students to gain practice and confidence in a knowledge, in a quantitative manner where appropriate, to actual 	ng to a broa n concernin ith standar pplying thi experiment				
6	Course Outcomes	 After completion of the course the student shall be able to-CO1: To define the importance of general physiology of the human body CO2: To explain the importance of nerve muscle physiology CO3: To define the importance, function of Blood along with clinical importance CO4:To explain in detail about the information about Cardiovascular sy CO5: To describe the respiratory system and its function CO6:To explain about Digestive system of the body 	rstem				
7	Course Description	 General & nerve muscle physiology Blood Cardiovascular system The respiratory system Digestive system 					
8	Outline syllabu	S	CO Mapping				
	Unit 1	Cell Structure, Nerve Tissue, Muscles					
	Α	Cell and cell organelle Structure & function, transport across cell membrane, homeostasis, membrane potential.	CO1, CO2				
	В	Structure & functions of nerve tissues, physiological properties of nerve fibers, nerve fiber types & functions.	CO1, CO2				
	С	Neuromuscular junction, Difference between skeletal muscle, smooth muscle & cardiac muscle.	CO1, CO2				
	Unit 2	BLOOD					



Α	Composition & fund	ctions of	of blood, plasma proteins & hemoglobin.	CO1, C			
В	Erythrocytes, jaundi	ice, leu	cocytes & platelets.	CO1, C			
С	Blood coagulation, blood groups & immunity						
Unit 3	Cardiovascular Syst	em	× ± •				
A	Cardiac Muscle, ph cardiac cycle.	ical anatomy of the heart & blood vessels,	CO1, C				
В	Conducting system	of hear	t, Heart sounds & ECG.	CO1, C			
С	Heart Rate, Cardiac	Outpu	t, Blood Pressure & Pulse.	CO1, C			
Unit 4	Respiratory System						
A	Physiological anato dead space, graph of	my & f lung v	functions of respiratory system, airways, volume & capacities.	CO1, CO CO6			
В	Transport of Gases. Physiology of Exercise & High Altitude.						
С	Regulation of respiration & Hypoxia.						
Unit 5	Gastrointestinal Syst	tem					
A	Physiological anatomy of GIT, Saliva, Mouth & Oesophagus.						
В	Stomach, Pancreas, Liver & Gall Bladder.						
С	Small Intestine, Large	Intesti	ne, Digestion and Absorption in GIT.	CO1,C0 CO6			
Mode of examination	Theory/Jury/Practica	l/Viva					
Weightage	CA MTE		ETE				
Distribution	25% 25%		50%				
Text book/s*	 Sembulingum, Dr. S.C. Choudh. Dr. C.C. Chatterj Ganong, Review Samson Wright's Guyon & Halls, J 	K., ary, Co ee., Hu of Mee Applie Medica	Essentials of MedicalPhysiology oncise medical physiology uman physiology dical Physiology ed Physiology I Physiology				
Other References	 Sam san writes a keeleericB.Neil Best and Taylor's Best aetal Medical physiolo Bayiaw of the 	pplied s physic ogy Dr.	physiology handbook -by Cyril a ological basic of Medical practice- C.H. A.C. Gutton.				



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	2	2	3	2	2	3	2	2	2	2	2	2	3	2
CO2	3	2	2	3	3	3	3	2	3	2	3	2	2	3
CO3	2	3	2	2	3	3	3	2	2	3	3	3	2	2
CO4	3	2	2	3	2	1	2	3	2	2	2	2	3	3
CO5	2	3	2	3	2	2	3	2	3	3	2	3	2	3
CO6	2	2	3	2	2	3	2	2	2	2	2	2	3	2
Average POs	2.33	2.33	2.33	2.5	2.33	2.5	2.5	2.16	2.33	2.33	2.33	2.33	2.5	2.5

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



		Dattii, 2023-2027					
Prog	gramme: BPT	•					
Brar Phys	nch: siotherapy	Semester: 1 st					
1	Course Code	PTB 103					
2	Course Title	BIOCHEMISTRY					
3	Credits	2					
4	Contact Hours (L-T-P)	2-0-0					
	Course Type	CC					
5	Course Objective	 To make the students able to do routine laboratory testing und conditions. To prepare specimens and operate machines that automatically analy To provide the conceptual basis for understanding biochemical and address the fundamental mechanisms of the biomolecules to facilitat To develop diagnostic skills in clinical biochemistry To provide an advanced understanding of the core principles a Biochemistry and their experimental basis. 	er stipulated yse samples. I particularly e the life. nd topics o				
6	Course Outcomes	CO1: Students are able to know the importance of carbohydrates CO2: Student are able to develop the understanding about the importance of li CO3: Students are able to build the ability to understand the importance of diffied of amino acids and proteins CO4: Student are able to develop the importance of minerals, vitamins and nut CO5: Student are able to develop the understanding about the importance of en nucleic acids CO6:: Students are able to build the ability to understand the function of horm of clinical biochemistry.	pids ferent types trition. nzymes and nones and role				
7	Course Description	 Carbohydrate Chemistry Lipid Chemistry Amino acid and protein chemistry Vitamins, minerals and hormones 					
		• Enzymes, nucleic acids, clinical biochemistry and hormones.	60				
8	Outline syllabu	8	CO Mapping				
	Unit 1	Carbohydrate Chemistry	901				
	A	Definition, general classification with examples.	COI				
	В	Glycosidic bond, Structures, composition, sources, properties and	CO1				



	functions of Monosaccharide's and Disaccharides.	
С	Structures, composition, sources, properties and functions of Oligosaccharides and Polysaccharides.	CO1
Unit 2	Lipid Chemistry	
A	Definition, classification, properties and functions of Fatty acids.	CO2, CO
В	Triacylglycerol and Phospholipids	CO2, CO
С	Cholesterol, Essential fatty acids and their importance, Lipoprotein.	CO2, CO
Unit 3	Amino-acid Chemistry	
A	Amino acid chemistry: Definition, Classification, Peptide bonds. Peptides: Definition, Biologically important peptides	CO3
В	Protein chemistry: Definition, Classification, Functions of proteins, Collagen and Elastin	CO3, CO
С	Primary, Secondary, tertiary and quartenary structure of proteins.	CO3
Unit 4	Minerals, Vitamins and Nutrition	
A	Definition, Sources, RDA, absorption, transport and functions along with clinical significance of various minerals (Sodium, Potassium, Calcium, Phosphate, Sulphur, Iron, Magnesium, Fluoride, Chloride, Zinc and Copper).	CO4, CO6
В	Definition, classification according to solubility, Sources, Coenzyme forms, functions and deficiency manifestations of different vitamins	CO4
С	Importance of nutrition: Calorific values, Respiratory quotient, Energy requirement of a person - Basal metabolic rate, Balanced diet, recommended dietary allowances, Role of carbohydrates, lipid and protein in diet.	CO4, CO
Unit 5	Enzymes, Nucleic acids, Clinical biochemistry and Hormones	
А	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)	CO5
В	Nucleotide and Nucleic acid Chemistry-Nucleotidecomposition, 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.	CO5, CO
C	Clinical Dischamiotry & Hormone, LET KET Condiag montron Linid	CO5



	Mode c examin	of ation	The	eory/Ju	ury/Pra	ctical/	Viva							
	Weight	age			CA	1			MTE			ETE		
	Distrib	ution			25%	6			25%			50%		
	Text bo	ok/s*	1.	Bioch	emstry	/ by	U	Satyan	arayan	a IIEo	lition.			
			2.	Text S. IV	Book Editio	of Bio n.	chems	stry by	D.M.V	Vasude	van and	Sreeku	ımari	
			3.	Textb	ook	of N	Aedica	l Bi	ochem	istry-S.	K.Das	Gupta.		
			4.	Lippi	ncott's]	Illustra	ted	Rev	viewsBi	ochem	istry.		
	Other			Harpe et al	er's Illu 26 Edi	strated	l Biocl	nemstr	y by M	lurry				
				Albor	t Lohi	ingor	Dringi	nlos o	fbioch	mietry	1003			
References			1.	 Anort Lemminger, Emicroice of oto oto oto instry 1775 James M Orten, Human biochemistry. 										
			2.	 James W Orten, Human biochemistry Lubert Straver, Biochemistry 										
			5. 4	Thom	as M I	Devlin	Biolo	lsu y homiet	ry witl	olinica	1 correc	lation		
<u> </u>			Ψ.	THOM	las 1v1 1		, DIO C	nemisi	.1 y witt	lenned		ilation		
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	1	3	3	3	2	3	3	1	2	3	3	3	2
CO2	2	3	1	2	1	3	2	1	3	3	3	3	3	3
CO3	3	3	3	3	3	1	3	3	3	1	3	3	3	3
CO4	3	2	2	3	3	3	3	2	2	3	3	3	1	2
CO5	1	3	3	1	2	3	2	3	3	2	2	3	2	2
CO6	3	2	2	3	1	2	1	2	2	2	2	2	3	3
verage Pos	2.5	2.33	2.33	2.5	2.16	2.33	2.33	2.33	2.33	2.16	2.66	2.83	2.5	2.5

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

A+)	SHARDA UNIVERSITY	
NAAC	Beyond Boundaries	

Scho	ool: SSAHS	Datch: 2023-2027					
Prog	gramme: BPT	•					
Brai Phys	nch: siotherapy	Semester: 1 st					
1	Course Code	PTB 104					
2	Course Title	Psychology & Sociology					
3	Credits	3					
4	Contact Hours (L-T-P)	3-0-0					
	Course Type	DSC					
5	Objective	 The objective of the course is that after lectures, the students will demonstrate an understanding of the role of socio-cultural factor determinants of health and behaviourin health and sickness. They able to relate this to therapeutic situations in the practice of phys The student will be able to recognize and help with the psycholo involved in disability, pain, disfigurement, unconscious patients, illness, death, bereavement and medical surgical patients/conditi- should also understand the elementary principles of behaviourfor in the therapeutic environment. In addition, the students will be a their proficiency based on written and internal evaluation. 	be able to s as y will be iotherapy. gical factors chronic ons. They applying uble to show				
6	Course Outcomes	After completion of the course the student shall be able to- CO1: Understand the role of family and community in the developm behaviour.	ent of				
		 CO2: Develop a holistic outlook toward the structure of society and community resources, understand the significance of social interprocess of rehabilitation. CO3: Identify the subtle influence of culture in the development personality, the role of beliefs and values as determinants of individ behaviour. CO4: Psychosocial assessment of patients in various developmental CO5: Concept of stress and its relationship to health, sickness and on CO6: To Formulate the applicability of psychology and sociology in the structure of stress. 	ractions in the ent of human ual and group stages. e's profession Physiotherap				
7	Course Description	This course is designed to develop the basic knowledge of Sociology to different society and its relation towards health and Physiotherapy This course is also develops the basic knowledge of Psychology with the normal development of a child and the Psychological condition of terms of Health related Psychological introspection. This develops the utilization and importance of Psych with respect to Physiotherapy treatment	y with respect y treatment. n respect to of patient in ology				
8	Outline syllabu	IS STATES AND A ST	CO Mapping				
	Unit 1	Introduction to Sociology					



	b. Methods of Sociological investigations- Case study,	
	social survey, questionnaire, Interview and opinion poll	
	methods.	
	c. Importance of its study with special reference to Health	
D		<u> </u>
В	Socialization:	CO1, CO2
	b Primary Secondary and Anticipatory	
	socialization. Social Groups:	
	a. Concepts of social groups, influence of formal and informal	
	groups on health and sickness. The role of primary groups and	
	secondary groups in the hospital and rehabilitation setup.	
C	Family:	CO1, CO2
	a. The family, meaning and definitions.	
	b. Influence of family on the individual's health, family and	
	nutrition, the effects of sickness in the family and	
	psychosomatic disease and their importance to physiotherapy.	
	a Rural community: Meaning and features_Healthbazards of	
	ruralities health hazards to tribal community	
	h Urban community: Meaning and features- Health hazards	
	of urbanities	
Unit 2	Culture and Health:	
A A	Culture and Health:	CO1 CO2
	a. Concept of Health	001,000
	b. Culture and Health	
	Disorders Social change:	
	a. Meaning of social changes.	
	b. Factors of social changes.	
	c. Social change and stress.	
	d. The role of social planning in the improvement of health	
	and rehabilitation.	
В	Social Problems of disabled	CO1, CO3
	Population explosion	
	a. Poverty and unemployment	
	b. Juvenile delinquency	
	c. Problems of women in employment	
	d. Geriatric problems	
C	Social security and social legislation in relation to the disabled. Social worker: The role of a Medical Social Worker.	CO1, CO3
1		



А	Introduction to Psychology: Schools, Methods and	CO4,CO
	Branches 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	
P	development.	004.00
В	Sensation, attention and perception	C04,C0
	a. Sensation: Vision, Hearing, Olfactory, Gustatory and	
	La Attention, Types of ottention, Determinents of	
	b. Attention: Types of attention, Determinants of	
	altention (subjective determinants and objective determinants).	
	(principle of figure ground and principles of grouping) factors	
	influencing perception (past experience and context)	
	d. Illusion and hallucination: different types.	
С	Motivation	CO4,CO
	a. Motivation cycle (need, drive, incentive, reward).	
	b. Classification of motives.	
Unit 4	Emotions	
A	Emotions	CO4,CO
	a. Three levels of analysis of emotion (physiological	
	level, subjective state, and overt behavior).	
	b. Theories of emotion	
	c. Stress and management of stress.	
В	Intelligence	CO4,CO
	Distribution of Intelligence Assessment of	
	Intelligence	
C	Learning	CO4 CO
e	a Factors effecting learning	04,00
	h Theories of learning: trial and error learning, classical	
	conditioning Operant conditioning insight learning social	
	learning theory.	
Unit 5	Personality	
٨	Parsonality	CO5 CO
Л	Approaches to personality: type & trait hohovioristic	05,00
	a. Approaches to personanty. type & trait, behavioristic,	
	b Personality assessment: observation situational test	
	ouestionnaire rating scale interview and projective	
	techniques	
В	Defense Mechanisms: denial of reality, rationalization, projection.	C05.C0
-	reaction formation, identification, repression, regression,	200,00
	Intellectualization, undoing, introjection, acting out. Social	
	nsychology: Leadership	



C Mode of examination	Clinical psychology–Me assessment, clinical jud, methods, physiotherapis Body awareness, Pediat psychology. Theory/Jury/Practical/V	CO5,CO6		
Weightage	CA	MTE	ETE	
Distribution	25%	25%	50%	
1 ext book/s*	 Morgan, C. T., Rose Study guide for Mor Baron, R.A Introdu Megee-sociology' D Kupuswamy- Social Ahuja- Social proble Gihnsberg- Principle Julian- Social Proble Introduction to social publishing house. 	en, J. W., Morgan, G rgan and King Intro action to Psycholog orydonpressclilinois l Changes in India ems-Bookhive es of sociology ste em- Prentice hall. al psychology- Akc	C. I.,& King, R. A. oduction to psychology: yy	
Other References	 Psychology and soc Porter & Alder - W Parter & Alder': Psy medicine- W.B.Sun 	iology - Applied to V. B.Saunders. chology & sociolo ders.	Medicine gy appliedto	

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	2	3	3	1	3	2	3	3	2	3	3	2
CO2	3	2	3	2	3	3	2	3	3	3	3	3	2	3
CO.3	2	3	3	3	2	2	3	3	2	3	3	2	3	3
CO4	3	3	3	3	2	3	2	3	3	1	3	3	3	3
CO5	3	3	3	3	2	3	2	3	3	3	3	3	3	3
CO6	3	1	1	2	3	1	3	2	3	2	1	1	2	2
Avera ge POs	2.66	2.5	2.5	2.66	2.5	2.166	2.5	2.66	2.83	2.5	2.5	2.5	2.66	2.66

1. Slight (Low) 2. Moderate (Medium)

3. Substantial (High)

A+)		HARDA
NAAC	B www.aharda.ac.in	eyond Boundaries

Sch	ool: SSAHS	Batch: 2023-2027	
Pro	gramme: BPT		
Bra Phy	nch: siotherapy	Semester: 1 st	
1	Course Code	PTB 106	
2	Course Title	FIRST AID AND CARDIOPULMONARY RESUSCITATION	
3	Credits	1	
4	Contact	1-0-0	
	Hours(L-T-		
	P)		
	Course Type	DSC	
5	Course	1. to impart the Knowledge and skills related to first aid, basic and	ł
	Objective	advanced lifesaving protocols.	
		2. to teach first aid, safe transport, lifesaving skills (basic and adva	anced)
		required to be both a team member and a team leader in eithe	er an in-hospita
		or out- of-hospital setting.	
		3. to master these skills among learners and review their knowled	lge constantly.
6	Course	After completion of the course the student shall be able to-	
	Outcomes	CO1: To recognize and initiate the chain of survival as soon as a	
		possible problem is identified.	
		CO2: To understand the basic principles of first aid & CPR.	
		CO3: To secure the life and perform transportation to hospital.	
		CO4: To use Aids and appliances to Initiate rescue breathing &	
		circulation when they are inadequate.	
		CO5: To perform and lead High-quality CPR for adults, children, a CO6: To formulate the applicability of CPR	nd infants.
7		Lifesaving and injury containment are the core of this course. The cla	iss will be taug
		using mannequins, dummies and other aids and appliances as	a face-to-fac
		workshop. Practical skills are the focus.	
		Theory and case-based method for Self-work is also encouraged.	
	Course		
	Description	In addition to assigning the case studies, the course instructor will s	pend
		considerable time in teaching and understanding the concept and ski	lls of
		C PR through the eyes of the learner. The instructor will cover the	ways
		to think skillfully as per guidelines using AHA, and other agencies statements.	
8	Outline syllab	us	CO
			Mapping
	Unit 1	First aid	001.000
	A	Emergency satety panning – triage & transport	CO1, CO2
	В	First aid basics	CO1,CO2



C	Introduction to Disaster	Types and pr	eparedness		CO1,C0	
Unit 2	Introduction to Res	suscitation				
Α	Chain of survival				CO1, C	
В	Calling for help					
С	AHA guidelines and up	AHA guidelines and up-dation				
Unit 3	Basic life support					
Α	CPR & AED				CO1,C	
В	Circulation				CO1,C	
С	Airway & Breathing -	Bag & Mask	ventilation		CO1,C	
Unit 4	Advanced Cardiac	life Support				
Α	Types of arrythmias a	nd cardiac a	rest, Defibrillation		CO2,C	
В	Emergency cart/ cras	h card			CO2,C	
С	Mechanical ventilator	ry support - k	asics		CO2,C	
Unit 5	PALS and infants'	life support				
Α	Pediatric advanced lif	e support			CO5,C	
В	Infant life support					
С	Differences from adu	It life suppor	t		CO5, C	
Mode of						
examination						
Weightage	CA	MSE	ESE			
Distribution	25%	25%	50%			
2 CAL BOOK 5	 International Cor Emergency Card Recommendation International Liai International Cor Emergency Card Recommendation 	asensus on Ca iovascular Ca as. Circulatio ison Commit asensus on Ca iovascular Ca as. Resuscitat	ardiopulmonary Res are Science With Tr n. 2020;142(suppl tee on Resuscitation ardiopulmonary Res are Science with Tr ion. 2020:In press.	suscitation and reatment 1):In press. n. 2020 suscitation and eatment		
Other References	 St John Ambular Aid (English vers IFRC Internation Cross Flanders, F Merchant RM, T summary: 2020 A Cardiopulmonary Care. Circulation 	cce India – In sion) Authori al First Aid (European Firs opjian AA, P American Hea / Resuscitatio 2020;142(s	dian Red Cross Soc sed Manual 6th Edi Guidelines 2011. Be at Aid Materials EF anchal AR, et al. Pa art Association Gui on and Emergency (uppl 2):In press.	ciety. First ition. 2011. elgian Red AM. 2011. art 1: executive delines for Cardiovascular		



POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C01	3	3	2	3	3	2	3	2	3	3	2	3	3	2
CO2	3	2	3	2	3	3	2	3	3	1	3	3	2	3
CO3	2	3	3	1	2	2	3	З	2	3	3	2	3	3
CO4	3	2	1	3	3	3	2	1	3	2	2	3	3	3
CO5	1	3	3	3	2	3	2	3	1	3	3	3	3	3
CO6	2	3	2	3	1	3	1	2	3	3	2	1	1	2
Average Pos	2.33	2.66	2.33	2.5	2.33	2.66	2.16	2.33	2.5	2.5	2.5	2.5	2.5	2.67

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



Practical

Scho	ool: SSAHS	Batch: 2023-2027	
Prog	gramme: BPT	•	
Brai Phys	nch: siotherapy	Semester: 1 st	
1	Course Code	ARP101	
2	Course Title	Communicative English-1	
3	Credits	2	
4	Contact Hours (L-T-P)	1-0-2	
	Course Type	SEC	
5	Course Objective	To minimize the linguistic barriers that emerges in varied socio-linguistic through the use of English. Help students to understand different accents and state existing English. Guide the students to hone the basic communication skill speaking, reading and writing while also uplifting their perception of themselves self-confidence and building positive attitude positive attitude.	environments ndardize their s - listening, s, giving them
6	Course	After completion of this course, students will be able to:	
	Outcomes	CO1 Develop a better understanding of advanced grammar rules and write g correct sentences	rammatically
		CO2 Acquire while vocabulary and punctuation rules and really strategies a communication. CO3 Interpret texts, pictures and improve both reading and writing skills whice them in their academic as well as professional career.	ch would help
		CO4 Comprehend language and improve speaking skills in academic and socia CO5 Develop, share and maximize new ideas with the concept of brainstor	l contexts
		documentation of key critical thoughts articulated towards preparing for a car their potentials and availability of opportunities. CO6 Function effectively in multi-disciplinary teams through the knowledge of	reer based on of team work,
		Inter-personal relationships, conflict management and leadership quality	
7	Course Description	The course is designed to equip students, who are at a very basic level of langt comprehension, to communicate and work with ease in varied workplace environment. The course begins with basic grammar structure and pronunciati- patterns, leading up to apprehension of oneself through written and verbal expression as a first step towards greater employability	Jage
8	Outline syllabu	S	CO Mapping
	Unit 1	Sentence Structure	
	A	Subject Verb Agreement	CO1,



В	Parts of speech			CO1
С	Writing well-forme	ed sentence		
Unit 2	Vocabulary Buildii	ng & Punctu	ation	
А	Homonyms/ homo	phones, Syno	onyms/Antonyms	CO1, CO2
В	Punctuation/ Spelli	ngs (Prefixes	s-suffixes/Unjumbled Words)	
С	Conjunctions/Com	pound Senter	nces	
Unit 3	Writing Skills			
А	Picture Description	ı – Student G	roup Activity	CO3,
В	Positive Thinking Writing inculcating Analysis – Know y	- Dead Poet g the positive ourself	s Society-Full-length feature film - Paragra attitude of a learner through the movie SW0	ph CO3, CO2 DT
С	Story Completion I (Watching a Full le	Exercise –Bu ength Feature	ilding positive attitude - The Man from Earth Film)	CO3, CO2
Unit 4	Speaking Skill			
A	Self-introduction/G	breeting/Mee	ting people – Self branding	CO4
В	Describing people Feature Film)	and situation	s - To Sir With Love (Watching a Full len	gth
С	Dialogues/conversa Plavs)	ations (Situat	ion based Role	CO4
Unit 5	Professional Skills	s Career Sk	ills	
А	Exploring Career C	Opportunities		CO4, CO5
В	Brainstorming Tech	hniques & M	odels	_
С	Social and Cultura	l Etiquettes		
D	Internal Communic	cation		
Unit 6	Leadership and M	Ianagement	Skills	CO6
	Managerial Skills			
	Entrepreneurial Ski	ills		\neg
Mode of examination	Theory/Jury/Pra	ctical/Viva		
Weightage	CA	MTE	ETE	
D' / 1 /	600/	27.1	10	



Text book/s*	 Blum, M. Rosen. How to Build Better Vocabulary. London: Bloomsbury Publication Comfort, Jeremy (et.al). Speaking Effectively. Cambridge University Press
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COs	Р	PO	PS	PSO	PSO										
	01	2	3	4	5	6	7	8	9	10	11	12	01	2	3
ARP101.1	-	-	-	-	-	-	-	-	1	3		2	-	-	-
ARP101.2	-	-	-	-	-	-	-	-	1	3		2	-	-	-
ARP101.3	-	-	-	-	-	-	-	-	1	3		2	-	-	-
ARP101.4	-	-	-	-	-	-	-	-	1	2	1	2	-	-	-
ARP101.5	-	-	-	-	-	-	-	-	1	2	1	2	-	-	-
ARP101.6	-	-	-	-	-	-	-	-	1	2	1	2	-	-	-

1-Slight (Low)

2-Moderate(Medium)

3-Substantial(High)

Sc	chool: SSAHS	Batch: 2023-2027	
Pro	gramme: BPT		
Br	anch.	Semester: I	
Phy	vsiotherany		
1	Course Code	PTB 135	
2	Course Title	HUMAN ANATOMY- SURFACE AND SYSTEMIC (Practical)	
3	Credits	2	
4	Contact Hours	0-0-4	
	(L-T-P)		
	Course Status	DSC	
5	Course Objectiv e	 The student will be able to demonstrate knowledge in human anatoneeded for the study and practice of physiotherapyand occupationa therapy. In addition the student will be able to fulfill with 75% accuracy(as written & oral internal evaluation) the following objectives of the other student will be able to fulfill with 75% accuracy(as written & oral internal evaluation) the following objectives of the other student will be able to fulfill with 75% accuracy(as written & oral internal evaluation) the following objectives of the other student will be able to fulfill with 75% accuracy(as written & oral internal evaluation) the following objectives of the other student will be able to fulfill with 75% accuracy(as written & oral internal evaluation) the following objectives of the other student will be able to fulfill with 75% accuracy(as written & oral internal evaluation) the following objectives of the other student will be able to fulfill with 75% accuracy(as written & oral internal evaluation) the following objectives of the other student will be able to fulfill with 75% accuracy(as written & oral internal evaluation) the following objectives of the other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able to fulfill with 75% accuracy(as written & other student will be able	omy as al measured course.
6	Course	After completion of the course the student shall be able to-	
7	Course	 CO1: To identify the microscopic structures of various fissues and organs in the human body and correlate the structure with the functions. CO2: To apply 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 discuss the bones, joints, muscles, vascular and nerve suppl upper limb. CO4: To know about basic anatomical knowledge of boundaries and contents of thoracic cavity. CO5: To discuss the bones, joints, muscles, vascular and nerve suppl head and neck. CO6: To evaluate the anatomical deviations and deformities. It is designed to provide students with the working knowledge of the 	y of y of
/	Description	It is designed to provide students with the working knowledge of the	
	Description	structure of the number bodywhich is essential foundation for their	
		chinical studies.	
8	Outline syllabu	s	CO
			Mapping
	Unit 1	GENERAL ANATOMY	
		 Human skeleton, types of bones and joints Demonstration. Identification 	CO1, CO2
	Unit 2	UPPER EXTREMITY	
		1. Osteology of bones of upper limb	CO1, CO3
		2. Surface Anatomy	
		3. Demonstration & Examination	
	1		

SHARDA UNIVERSITY

A+ NAAC



	1. Should	ler, elbow,	radioulnar, wrist and small joints of hand	CO2, CO4,
	2. Mover	nents at all j	oints	CO6
	3. Demor	nstration & I	Examination	
Unit 4	THORAX			
	1. Osteol	ogy of bone	s forming thoracic wall	CO1,
	2. Surfac	e Anatomy of	of lungs and heart	CO4, CO6
	3. Demor	nstration & I	Examination	
Unit 5	HEAD AND N	ECK		
	1. Osteolog	y: Mandible	and bones of the skull	CO4,
	2. Surface	CO5, CO6		
	3. <mark>3.Demo</mark>	nstration &	Examination	
Mode of	Practical/Viva			
examination				
Weightage	CA	MTE	ETE	
Distribution	25%	0%	75%	
Text book/s*	1. B D Chaura	isia's Huma	n Anatomy.	
	2. Inderbir Sir	igh- Textbo	ok of Anatomy.	
	3. Textbook of	f Anatomy v	with color Atlas-InderbirSingh.	
	4. Richard S.			
Other	1. Kieth L Mo			
Reference	2. A K Datta,			
s	And Abdon	nen		
	3. Inderbir Sir	igh. Human	Osteology.	

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	2	3	1	2	3	3	2	3	1	3	3	2
CO2	3	2	3	2	3	1	3	2	3	1	3	2	2	3
CO.3	3	3	1	2	1	3	1	3	1	2	3	2	3	3
CO4	1	2	3	3	3	2	2	2	3	3	3	3	1	3
CO5	2	3	3	1	3	2	3	3	3	3	2	3	3	1
CO6	2	2	1	3	3	1	3	2	1	3	3	1	3	2
Averag e POs	2.166	2.5	2.16	2.33	2.33	1.83	2.5	2.5	2.16	2.5	2.5	2.33	2.5	2.33

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



School: SSAHS		Batch: 2023-2027						
Programme: BPT		•						
Branch: Physiotherapy		Semester: 1 st						
1	Course Code	PTB 132						
2	Course Title	HUMAN PHYSIOLOGY I (PRACTICAL)						
3	Credits	2						
4	Contact Hours (L-T-P)	0-0-4						
	Course Type	SEC						
5	Course Objective	The objective of this course is that after lectures, demonstrations, pra and clinics the student will beable to demonstrate an understanding of elementary human physiology	nctical of					
6	Course	After completion of the course the student shall be able to-						
	Outcomes	CO1: Relate the Working and usage of Compound microscope in						
		physiology practicals.						
		CO2: Explain the importance of Physiology experiments with their c	linical					
		aspects.						
		CO3: Understand the Importance of Hb estimation, BT, CT, BG, ES	R & PCV					
		determination.						
		CO4: Analyze the clinical aspects of TLC, TRBC Count, DLC and	their relation					
		with blood indices. CO5: Demonstrate in depth knowledge of Nerve	muscle graph					
		& charts; with their importance in						
		Physiotherapy clinics.						
		CO5: Evaluate the Nerve muscle graphs & amp; charts; with their im	portance in					
		physiotherapy clinics.						
		CO6: Discuss the SMT and Effect of temperature on skeletal musch	e, B1, C1,					
7	Course	BG, ESR & amp; PCV determination	24h a					
/	Description	normal human Physiology of various body systems and understand t	he					
	Description	alternation in physiology in disease and practice of Physiotherapy as	lic					
		applicable for each systemic disorder						
8	Outline svllabu	15	CO					
	5		Mapping					
	Unit 1							
		a. Demonstration of Microscope	CO1					
		b. Demonstration of Haemoglobin estimation	,					
		c. Experimentation	CO2					
			, CO3					
	Unit 2							
		a. Total Red Blood Cell Count	CO1,					
		c. Experimentation	CO2, CO3					
			CO_{3}					



Unit 3		
	a. BT, CT, Blood Group.	CO1, CO2
	b. Estimation and Demonstration of ESR	
	c. Estimation and Demonstration of PCV.	
Unit 4		

	a. D b. E c. E C	Demonstrat Effect of ter Effect of tw Genesis of f	ion of SMT nperature on SMT o successive stimuli on skeletalmuscle contraction & atigue inskeletal muscle.	CO2, CO5				
Unit 5								
	a. E b. E c. E c	Effect of ind Effect of ind Effect of loa onduction	creasing strength of stimuli creasing frequency ad on skeletal muscle contractionand determination of velocity of sciatic nerve.	CO5, CO6				
Mode of examination	Practica	al/Viva						
Weightage	CA	MTE	ETE					
Distribution	25%	0%	75%					
Text Book's Recommended	1) Manu O A	1) Manual of Practical Physiology ForPhysical Therapy, OccupationalTherapy,MLT andOther AlliedCourses by Dr A.K.Jain						
	2) A Te	2) A Text book of Practical Physiology by C.L.Ghai.						
	3) A Te							

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	2	2	3	2	2	3	2	2	2	2	2	2	3	2
CO2	3	2	2	3	3	3	3	2	3	2	3	2	2	3
CO3	2	3	2	2	3	3	3	2	2	3	3	3	2	2
CO4	3	2	2	3	2	1	2	3	2	2	2	2	3	3
CO5	2	3	2	3	2	2	3	2	3	3	2	3	2	3
CO6	2	2	3	2	2	3	2	2	2	2	2	2	3	2
Average POs	2.33	2.33	2.33	2.5	2.33	2.5	2.5	2.16	2.33	2.33	2.33	2.33	2.5	2.5



ro	gramme: BPT							
Branch: Physiotherapy		Semester: 1 st						
1	Course Code	PTB 133						
2	Course Title	BIOCHEMISTRY I (PRACTICAL)						
3	Credits	1						
4	Contact Hours (L-T-P)	0-0-2						
	Course Type	СС						
5	Course Outcomes	 CO1: To understand the importance of safety measures and lab protocols CO2: To understand the importance of different types of glass wares CO3: To understand the importance of different types of instruments CO4: To understand the importance of preparation of various sorts of solution CO5: To understand the importance of qualitative analysis of carbohydrates CO6: To understand the importance of different solutions. 						
5	Course Description	 Safety of measurements in Laboratory, Introduction of Glassware's Introduction of Laboratory Equipment's Preparation of Solutions Qualitative analysis of carbohydrates 						
	Practical's		CO mappin					
	Unit 1	Safety measures and Lab protocols	CO1, CO2					
	Α	Safety measures in Biochemistry lab						
	В	General laboratory protocols						
	С	Awareness in a lab						
	Unit 2	Introduction to Laboratory glassware's	CO2, CO3					
	Α	Introduction to Laboratory glassware's -1						
	В	Introduction to Laboratory glassware's -2						


С	Maintenance of Laborate	ory glassw	/are's	
Unit 3	Introduction to Labora	tory appa	aratus	CO3, CO4
Α	Introduction to Laborate	ory appara	atus -1	
В	Introduction to Laborate	ory appara	itus -2	
с	Maintenance of Laborat	ory appar	atus -3	
Unit 4	Preparation of acid and ba	ases of diff	erent concentrations	CO4, CO5
A	Preparation of acids of c	lifferent c	oncentration	
В	Preparation of bases of	different o	concentration	
С	Preparation of solutions	of differe	nt concentration	
Unit 5	Qualitative analysis of Carbohydrate C			
A	Qualitative analysis of C	arbohydra	ites-1	
В	Qualitative analysis of C	arbohydra	ites-2	
С	Qualitative analysis of C	arbohydra	ites-3	
Mode of examination	Theory and Practical			
Weightage	СА	MTE	ETE	
Distribution for Practical's	25%	0%	75%	
Text book/s*	 A text book of Me Text book of bioch Sreekumari Biochemistry by Le Clinical chemistry Harpers Illustrated 	dical Bioch emistry fo chringer by Varley Biochemis	emistry by Chatterjee & Shinde r Medical students by Vasudevan and stryby Robert K.M.	



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
C01	3	1	3	3	3	2	3	3	1	2	3	3	3	2
CO2	2	3	1	2	1	3	2	1	3	3	3	3	3	3
CO3	3	3	3	3	3	1	3	3	3	1	3	3	3	3
CO4	3	2	2	3	3	3	3	2	2	3	3	3	1	2
CO5	1	3	3	1	2	3	2	3	3	2	2	3	2	2
CO6	3	2	2	3	1	2	1	2	2	2	2	2	3	3
Average Pos	2.5	2.33	2.33	2.5	2.16	2.33	2.33	2.33	2.33	2.16	2.66	2.83	2.5	2.5

1- Slight (Low) 2- Moderate (Medium)

3-3-Substantial (High)

A+)	SHARDA UNIVERSIT	Y
NAAC	Beyond Boundarie	1.5

Sc	nool: SSAHS	Batch: 2023-2027	
Prog	gramme: BPT	•	
Bra Phy	nch: siotherapy	Semester: I	
1	Course Code	PTB 134	
2	Course Title	FIRST AID AND CARDIOPULMONARY RESUSCITATION (P	actical)
3	Credits	1	
4	Contact	0-0-2	
	Hours(L-T-		
	P)		
	Course Type	DSC	
5	Course	1. to impart the skills related to first aid basic and advanced lifesavin	g protocols
c	Objective	 to train first aid, safe transport, lifesaving skills (basic and advance be both a team member and a team leader in either an in-hospital or hospital setting. to master these skills among learners and review their knowledge c 	d) required to r out-of- onstantly.
6	Course Outcomes	CO1: To recognize and initiate the chain of survival as soon as a possil problem is identified. CO2: To understand the basic principles of first aid & CPR. CO3: To secure the life and perform transportation to hospital. CO4: To use Aids and appliances to Initiate rescue breathing & circula when they are inadequate. CO5: To perform and lead High-quality CPR for adults, children, and i	ole tion nfants.
7	Course Description	Lifesaving and injury containment are the core of this course. The class using mannequins, dummies and other aids and appliances as a workshop. Practical skills are the focus. Theory and case-based method for Self-work is also encouraged. In addition to assigning the case studies, the course instructor will spe time in teaching and understanding the concept and skills of C PR thro the learner. The instructor will cover the ways to think skillfully as per AHA, and other agencies statements .	will be taught face-to-face nd considerable ugh the eyes of guidelines using
8	Outline syllab	bus	CO Mapping
	Unit 1	First aid	
	Α	Perform Emergency safety panning – triage & transport	CO1, CO2
	В	Demonstrate First aid basics	CO1,CO2
	С	Introduction to Disaster Types and preparedness	CO1,CO2
	Unit 2	Introduction to Resuscitation	
	Α	Demonstrate Chain of survival	CO1, CO3
	В	Demonstrate Calling for help	CO1, CO3
		. .	



С	Perform	n as per AHA guid	lelines and up-dat	ion	CO1, CO3
Unit 3	Basic	e life support			
Α	Perfo	rm CPR & AED			CO1,CO3, CO
B	Asses	s Circulation			CO1,CO3, CO
С	Asses	s Airway & Breath	ning – Bag & Mas	k ventilation	C01,C03, C0
Unit 4	Adva	anced Cardiac lif	fe Support		
Α	Tackle	Types of arrythm	nias and cardiac	arrest, Defibrillation	CO2,CO4
В	Recog	nize Emergency c	art/ crash card	and its components	CO2,CO4
С	Recog	nize Mechanical v	ventilatory supp	ort - basics	CO2,CO4
Unit 5	PAL	S and infants' lif	fe support		
A	Perfor	m Pediatric adva	nced life suppor	t	CO1,CO5, CO
B	Perfor	m Infant life supp	port		C01,C05, CO
С	Appre	ciate Differences	from adult life s	upport	CO1,CO5, CO
Mode of					
examination					
	CA			ESE	
Weightage			CE-VIVA	External Exam Practical	
Distribution	25%		25%	50%	
	2.	International Co Emergency Carc Recommendational Lia International Co Emergency Carc Recommendational Co	biovascular Care liovascular Care ons. Circulation. aison Committee onsensus on Care liovascular Care ons. Resuscitatio	diopulmonary Resuscitation and Science With Treatment 2020;142(suppl 1):In press. e on Resuscitation. 2020 diopulmonary Resuscitation and Science with Treatment on. 2020:In press.	
Other References	2.	St John Ambular (English version International Fir Flanders. Europ Merchant RM, T summary: 2020 Cardiopulmonar Resuscitation ar 2020;142(suppl	nce India – India) Authorised Ma rst Aid Guideline ean First Aid Ma Topjian AA, Panc American Heart ry nd Emergency C 2):In press.	n Red Cross Society. First Aid nual 6th Edition. 2011. IFRC s 2011. Belgian Red Cross terials EFAM. 2011. hal AR, et al. Part 1: executive Association Guidelines for ardiovascular Care. Circulation.	



POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	2	3	3	2	3	2	3	3	2	3	3	2
CO2	3	2	3	2	3	3	2	3	3	1	3	3	2	3
CO3	2	3	3	1	2	2	3	3	2	3	3	2	3	3
CO4	3	2	1	3	3	3	2	1	3	2	2	3	3	3
CO5	1	3	3	3	2	3	2	3	1	3	3	3	3	3
CO6	2	3	2	3	1	3	1	2	3	3	2	1	1	2
Average Pos	2.33	2.66	2.33	2.5	2.33	2.66	2.16	2.33	2.5	2.5	2.5	2.5	2.5	2.6667

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



Second Semester

Pros	pramme: BPT						
Bra Phy	nch: rsiotherapy	Semester: 2 ND					
1	Course Code	PTB 116					
2	Course Title	HUMAN ANATOMY- REGIONAL					
3	Credits	5					
4	Contact Hours (L-T-P)	4-1-0					
	Course Type	CC					
5	Course Objective	It is designed to provide students with the working knowledge of the st the human body which is essential foundation for their clinical studies. concerned with the topographical and functional anatomy of the limbs thorax. Particular attention is paid to the muscles, bones and joints of the abdomen, pelvis, perineum, head and neck and central nervous sy (CNS) are studied with particular reference to topics of importance to physiotherapists. The study of the CNS includes detailed consideration of the control of motor function.	tructure of Studies are and theregions. stem				
6	Course Outcomes	 CO1: Identify the axis and planes of different movement's inhuman l and should be able to tell common anatomical terminology. CO2: Identify the structures and classification of various connective bones, joints and muscles in the human body and correlate the structure the functions. CO3: Discuss about the structural and functional importance of n joints, long and short nerves and different spaces in upper limb and limb, trunk and pelvis including applied aspect. CO4: Gain knowledge of greater vessels, muscles and structure functional importance of different viscera CO5: Identify and describe various parts of nervous system CO6: To evaluate the anatomical deviations and deformities. 	body tissues, ure with nuscles, d lower ral and				
7	Course Description	The study of anatomy will include identification of all gross anatomic Particularly emphasis will be placed on description of bones, joints, m brain, cardio pulmonary and nervous system, as these are related to the application of physiothe and occupational therapy in patients.	al structures suscles, the erapy				
8	Outline syllabu	IS	CO Mapping				
	Unit 1	Neuro Anatomy					
	A	Organization of Central Nervous system, peripheral nervous system Spinal cord- Meninges, external and internal features, Spinal nerves, Brainstem & cranial nerves, tracts of spinal cord	CO1, CO5				



В	Cerebrum(sulci ,gyri and functional areas),	CO1,
	Cerebellum, Thalamus, Hypothalamus, Internal	CO5,
	capsule, ventricle system, CSF flow,	
	Meninges.	
С	Blood supply to brain & spinal cord, Basal Ganglia.	C01,C0
Unit 2	Abdomen	
А	Anterior abdominal wall and posterior abdominal wall.	C01,C0
	Peritoneum: Parietal peritoneum, visceral peritoneum, folds of	
	peritoneum, functions of peritoneum	
В	Large blood vessels of the gut.	CO1,
		CO3
С	Location, size, shape, features, blood supply, nerves supply and	CO1, CO
	functions of the following: Stomach, liver, spleen, pancreas,	
	kidney, urinary bladder, intestines, gall bladder.	
Unit 3	Pelvis	
А	Pelvic diaphragm, Position, shape, size, features, blood supply of the	CO1, CO
	Male reproductive system.	CO6
В	Position, shape, size, features, blood supply of the female reproductive	CO1, CO
	system.	CO6
С	Blood supply and nerve supply of the male and female reproductive system.	CO1, CC
		CO6
Unit 4	Lower Extremity	
А	Skin, Fascia, Muscles of Gluteal region, front	CO3, CC
	and back of thethigh, medial side of the lateral	CO6
	side of the thigh, popliteal fossa, anterior and	
	posterior compartment of leg, sole & dorsum of	
	the foot.	
В	Femoral triangle, femoral canal, inguinal canal	CO3, CC
	Popliteal fossa, Retinaculum, arches offoot, skin	CO6
	of foot.	~~~~~
С	Lymphatic drainage of lower limb, venous drainage	CO3, CO
	of the lower limb, arterial supply & nerve supply (motor &	006
	sensory) of the lower limb,	
Unit 5	Joints of Lower Extremity	
А	Hip Joint	CO2, CO
		CO6



В	Knee joint			CO2, C0			
				CO6			
С	Ankle joint, joints of	CO2, CO					
				CO6			
Mode of examination	Theory/jury/Practi	cal/Viva					
Weightage	CA	MTE	ETE				
Distribution	25%	25%	50%				
Text book/s*	1. B D Chauras	ia's Human Anatom	у.				
	2. Inderbir Singh- Textbook of Anatomy.						
	3. Textbook of Anatomy with color Atlas-						
	Inderbir Sing	gh.					
	4. Richard S. S	nell- Clinical Anaton	ny.				
Other	1. Kieth L Moo	orie, Clinically Orient	edAnatomy.				
references	2. A K Datta, E	ssentials Of Human	Anatomy:Thorax				
	And Abdomen						
	3. Inderbir Sing	zh. Human Osteology	<i>.</i>				
		, ,					
				I			

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	1	3	3	2	3	3	2	2	3	2	2	2	2
CO2	2	2	2	1	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	2	3	2	2	3	3	3	1	3	3	3
CO4	2	2	1	2	2	2	1	2	3	3	2	3	3	2
CO5	1	2	3	3	2	3	2	3	1	2	3	2	3	3
CO6	2	3	2	3	3	2	3	1	2	3	2	1	1	2
Average Pos	2.16	2.16	2.33	2.33	2.5	2.5	2.33	2.33	2.33	2.66	2.16	2.33	2.5	2.5

1- Slight (Low) 2- Moderate (Medium)

3-3-Substantial (High)



C.	L1. CC A TTC	D-4-L- 2022 2027						
SC	nool: 55AH5	Batch: 2023-2027						
Prog	gramme: BPT	•						
Bra	nch:	Semester: 2 ND						
Phy	siotherapy							
1	Course Code	HPY201						
2	Course Title	HUMAN PHYSIOLOGY-II						
3	Credits	4						
4	Contact Hours (L-T-P)	4-0-0						
_	Course Type	CC						
5	Course	• To learn and understand the fundamental scientific concepts relation	ng to a broad					
	Objective	range of topics in human physiology.						
		• To make the students familiar with the basic factual information co	oncerning the					
		mechanisms and functioning of humans body system.						
		• To develop investigative skills and to become familiar with standar	rd techniques					
		of measurement.						
		• To help the students to gain practice and confidence in applying this	s knowledge,					
		in a quantitative manner where appropriate, to actual experiments	•					
6	Course	CO1. To define the physiology of the different system of the human body						
	Outcomes	CO_2 : To explain the importance, function and function of Excretory system	em of body					
		CO3:To get the information about Endocrine system						
		CO4: To describe the Nervous system and its function						
		CO5: To explain the reproductive system and its function						
		CO6:To analyze about special senses of the body						
7	Course	Physiology of Excretion system						
	Description	• Endocrine system						
		Nervous system						
		Reproductive system						
		Special Senses						
8	Outline syllabi	20	CO					
0	Outline synabl		Manning					
	Unit 1	The Excretory System	mapping					
	A	Physiological anatomy of kidney, structure and functions of excretory	CO3.					
		system, structure of nephron.	CO4					
	B	Mechanism of formation of Urine & mechanism of concentration and	CO3					
	-	dilution of urine.	CO4					
	С	The Countercurrent System: Physiology of micturition and Regulation	CO3, CO4					
	-	of Body Temperature in Humans.	200,004					
	Unit 2	Endocrine system						
L								



А	General principles	of endocrinolo	ogy, The	e pituitary Gland.	CO3,		
В	The Thyroid Gland	l, The parathyr	oid, Ca	lcitonin and Vitamin D	CO3,		
C	The Adrenal Corte	x & Pancreas.			CO3,		
Unit 3	Reproductive system	m					
А	Changes during Pu	berty, Classific	cation o	f Male sex hormones and their	CO3,		
	functions, Spermat	ogenesis & ser	men.				
В	Changes during Pu	berty, Classific	cation a	nd Functions of female sex	CO3,		
	hormones, menstru	ation, ovulatio	on and c	ontraception.			
С	Physiological chan	ges during pre	gnancy,	, functions of placenta and	CO3,		
	physiology of lacta	ation.					
Unit 4	Nervous system						
А	Organization of Ne	ervous system.	The Sv	napse. Physiology of receptor	CO2.		
	organs for special a	and general ser	isation.	classification and properties of	CO3		
	reflexes, Physiology of touch, pain and temperature.						
	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		I man			
В	Intro to Sensory an	d motor system	n. Senso	ory and Motor Tracts of spinal	CO2,		
	cord, Functions of	cord, Functions of hypothalamus, thalamus, basal ganglia, cerebrum &					
	cerebellum. Upper and Lower Motor neuron Lesion						
С	Autonomic nervou	s system, Regu	ulation of	of posture, Cerebrospinal Fluid	CO2,		
	and Blood Brain Barrier.						
Unit 5	Special Senses						
А	Taste and Olfaction	n.			CO1,		
В	Vision—structure :	and function of	f the eve	e errors of refraction & their	CO1.		
D	correction Color h	lindness	i une ey.		CO3		
C	Hearing_structure	and function	of ear	veneral outline of mechanism of	CO1.		
0	hearing and percen	tion of sound.	01 041, 2		CO3		
Mode of	Theory/jury/Pract	ical/Viva					
examination	incorg, jury, i nucc						
Weightage	CA	MTE	E	ETE			
Distribution	25%	25%	5	50%			
Text book/s*	1- Textbook Of Physic	ology Volume 1 &	& 2 AK J	ain			
	2.Guyton and Hall Te	xtbook of Medica	l Physiol	ogy			
		I K Dolond Dom	zati Dal		1		



Other	1.	Sam san writes applied physiology handbook -byCyril a	
references		keeleericB.Neil	
	2.	Best and Taylor's physiological basic of Medicalpractice- C.H.	
		Best aetal	
	3.	Medical physiology Dr. A.C. Gutton. Review of MedicalPhysiology	
		William FooGanong	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	2	2	3	2	2	3	2	2	2	2	2	2	3	2
CO2	3	2	2	3	3	3	3	2	3	2	3	2	2	3
CO3	2	3	2	2	3	3	3	2	2	3	3	3	2	2
CO4	3	2	2	3	2	1	2	3	2	2	2	2	3	3
CO5	2	3	2	3	2	2	3	2	3	3	2	3	2	3
CO6	2	2	3	2	2	3	2	2	2	2	2	2	3	2
Average POs	2.33	2.33	2.33	2.5	2.33	2.5	2.5	2.16	2.33	2.33	2.33	2.33	2.5	2.5

1. Slight (Low)

2-Moderate Medium)

3-Substantial (High)



rog	gramme:	•	
PT			
Bra Dh.	anch: usiothoropy	Semester: II	
т пу 1	Course Code	PTR 113	
2	Course Title	Principles of Biophysical Agents	
3	Credits	2	
4	Contact Hours	2-0-0	
	(L-T-P)	<u> </u>	
5	Course Objective	After the completion of the course the student shall be having the bas the principles and the clinical application of Biophysical agents used Physiotherapy for the treatment and diagnosis purpose	ic knowledge of in the
6	Course Outcomes	CO1: Understand the principles, physiological effects and uses of The currents. CO2: Understand the principles, physiological effects and uses of The CO3: Understand the principles, physiological effects and uses of Elec radiations like ultraviolet radiations and Laser CO4: Understand the principles, physiological effects and uses of The Ultrasound CO5: Understand the principles, physiological effects and uses of Hyd CO6: to understand the applicability of biophysical agents in various to modalities	rapeutic Electric rmal Agents. ctromagnetic rapeutic lrotherapy. herapeutic
7	Course Description	The course contains the basic understanding of the principles governi Agents used in Physiotherapy and their clinical application	ng Biophysical
8	Outline sylla	bus	CO Mapping
	Unit 1	Electric Currents	CO1
	А	Current electricity, Principles of electric currents, Electromagnetic spectrum	
	В	Physiological Effects of electric currents	
	C	Clinical application of electric currents	
	Unit 2	Thermal Agents- Heat and Cold	CO2, CO6
	А	Physical Principles of Thermal Energy	
	В	Physiological Effects and uses of Thermotherapy	
	С	Physiological Effects and uses of Cryotherapy	
	Unit 3	Electromagnetic Radiations	CO3. CO6



А	Principles of production and application of Ultraviolet Radiations							
В	Principles of Producti	on and application	on of Laser					
С	Physiological effects a							
Unit 4	Ultrasound			CO4				
А	Principles of production							
В	Physiological Effects : 7	Fhermal, Non The	rmal					
С	Uses of ultrasound							
Unit 5	Hydrotherapy			CO5, CO6				
А	Principles and Physica							
В	Physical effects of Hydrotherapy							
С	Uses of Hydrotherapy	Jses of Hydrotherapy						
Mode of examination	Theory/jury/Practica	l/Viva						
Weightage	CA	MTE	ETE					
Distribution	25%	25%	50%					
Text book/s*								
Other References	 Nelson & Currier, Kahn, Electro The 	Nelson & Currier, Clinical Electro Therapy Appleton & Lange. Kahn, Electro Therapy , Churchill Livingstone, 2000						

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C01	2	3	2	3	3	1	3	3	З	2	3	2	3	2
CO2	3	2	3	2	3	3	2	2	3	1	3	3	2	3
CO3	3	3	3	2	3	2	2	3	3	3	1	3	3	3
CO4	2	2	1	3	2	3	3	2	3	3	2	1	3	2
CO5	1	2	3	3	2	3	2	3	1	2	3	3	1	3
CO6	2	3	2	3	3	2	3	1	2	3	2	2	1	2
Average Pos	2.16	2.5	2.33	2.66	2.66	2.33	2.5	2.33	2.5	2.33	2.33	2.33	2.16	2.5



Pro	gramme:	•								
BP]	Г									
Br	anch:	Semester: 2 ND								
Ph	ysiotherapy									
1	Course Code	PTB 114								
2	Course Title	Fundamental of exercise								
		science								
3	Credits	2								
4	Contact	2-0-0								
	Hours									
	(L-T-P)									
	Course Type	DSE								
5	Course	Describe rephosphorylation of	ATP, anaerobic glycolysis and							
	Objective	oxidative phosphorylation energy	rgy system							
		2. Describe characteristics of c	reatinine phosphate, anaerobic gl	ycolysis and						
		ATD design angulation energy	rgy system and explain how it is t	ised to replace						
		ATP during exercise. 2. Explain the process of earchie metabolism of earbohydrates, fore and								
		5. Explain the process of aerot	ilization	ats and						
		4. Explain the effect of exerci	ise on respiratory and circulatory	system						
6	Course	CO1: At the completion of cou	urse the student shall be able to de	scribe the basics	s of energ					
	Outcomes	utilized during exercise, types	and benefits of exercise.	serie die basies	, or energ					
		CO2: Discuss and explain phy	viology of respiration, major ener	gy system utiliz	ed during					
		exercise.	,	8, -,						
		CO3: Illustrate fat and protein	synthesis							
		CO4: Explain energy utilized of	during fed, fast and starvation							
		CO5: Justify the effect of exer	cise on respiratory and circulatory	systems.						
	<i></i>	CO6: Design the science that are involved during exercise.								
/	Course	At the end of the course, the ca	andidate will have a better underst	anding of the						
	Description	energy system utilized during	and after Exercise.							
		the practical hours	anced through hands on training p	rovided during						
~		the practical notifs.								
8	Outline syllab	bus		СО						
				Mapping						
	Unit 1	Introduction to Energy for E	Exercise	CO1, CO2						
	А	Energy for exercise: ATP basis	cs hydrolysis of ATP re							
		phosphorylation of ADP to AT	TP ATP and energy used by							
		muscle.								
	В	Definition of exercise, types of exercise, benefit of exercise.								
		Meaning of Physiology and Exercise Physiology, Importance &								
		functions of Exercise Physiology in the field of Physical								
		Education.								
			Physiology of respiratory system and types of respiration,							
	С	Physiology of respiratory syste	em and types of respiration,							
	С	Physiology of respiratory syste mechanism of inhibition and e	em and types of respiration, xhibition,							



		· · · · · · · · · · · · · · · · · · ·		1
A	Creatinine phosphate: ch	aracteristics of the c	reatinine phosphate	
	exercise.	it is used to replace.	ATP during	
В	Anaerobic glycolysis: Spe	ecific characteristics	of the anaerobic	
	glycolysis energy system. exercise	, and how it is used t	to replace ATP during	
С	Oxidative phosphorylatio	n: characteristics of	the oxidative	
	phosphorylation (aerobic)	energy system and	how it is used to	
	replace ATP during exerc	ise. Krebs cycle		G01 G02
Unit 3	Fats and Protein synthe			C01,C03
A	Process of aerobic metabo	olism of carbonydrat	tes, fats, and	
	proteins (amino acids),			
В	Concept of measuring fue	el utilization with the	e respiratory exchange	
	ratio,			
C	Factors that influence fue	l utilization.		
Unit 4	Energy utilized			C01,C04
A	Energy utilized during fee	d, fast and starvation	l,	
В	Caloric intake and caloric			
С	Body response to exercise			
	muscle, recovery time			
Unit 5	Effect of exercise			CO5,CO6
Α	Respiratory and circulator			
	and heat affected by exerc			
В	Body recovery from exerc			
	lungs, skeleton and muscl	les.		
С	Long term effect of exerc	ise, testing cardiova	scular fitness,	
	speed, flexibility, balance	, agility and muscle	endurance.	
Mode of	Theory/jury/Practical/Vi	va		
examination	~.			
Weightage	CA	MTE	ETE	
Distribution	25%	25%	50%	
Text book/s*	1. Housh, T. J., Housh, D	. J., & Johnson, G. (D. (2017).	
	Introduction to exercise s	cience (5th ed.). Sco	ottsdale, AZ:	
	Holcollio Hallaway. 2.52	isic Anatomy of Phy	slology of	
	3. Introduction to anatom	v & Physiology of F	Exercise- Sandhva	
·	Tiwari			
	4. Essential of Exercise P			
	5. Guyton, A.C. Text Boo	ology, W.B.		
	Sunders Company.			
	Sunders Company,			
	Philadelpjia, 1981.			
	 Introduction to anatom Tiwari Essential of Exercise P Guyton, A.C. Text Boo Sunders Company. 			



POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C01	3	2	3	1	2	3	3	2	3	3	3	2	2	3
CO2	2	3	3	3	3	2	3	3	2	2	3	1	3	2
CO3	3	3	3	2	3	2	1	3	2	3	3	3	3	3
CO4	3	2	2	3	1	3	2	1	3	2	3	3	2	2
CO5	1	3	2	3	3	3	3	3	2	3	1	2	1	2
CO6	1	2	3	2	2	3	2	2	3	1	2	3	2	3
Average Pos	2.16	2.5	2.66	2.33	2.33	2.66	2.33	2.33	2.5	2.33	2.5	2.33	2.16	2.5

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)



Sc	hool: SSAHS	Batch: 2023-2027	
ro	gramme: BPT	•	
Bra Phy	anch: ysiotherapy	Semester: 2 ND	
1	Course Code	PTB 115	
2	Course Title	Nutrition	
3	Credits	1	
4	Contact Hours (L-T-P)	1-0-0	
	Course Type	AEC	
5	Course Objective	To understand the basic knowledge of food chemistry, nutritive value of foods, and role of macronutrient for energy contribution in body.	different
5	Course	CO1: Understand the basic concept of nutrients	
	Outcomes	CO2: Understand the food guide pyramid and food	
		groups CO3: Knowledge of basic nutrients and their	
		functions.	
		CO4: Understand the role of micronutrients in human body	
		COS: To understand the role of protein in human body	
,	Course	CO6: 10 formulate the applicability of nutrition in numan body.	min a la
	Description	The course Fundamentals of Food and Nutrition alms at develo	ping ba
	Description	understanding about nutrition, its effect on numan health and newer advar	10 10 10 10 10
		technology. This course encompasses physiological, biochemical and so	cial aspe
		of food and discusses relationship between metabolites and human health	. Moreov
		the course is focused on the advances in the most emerging area of appl	lied scier
		of Nutraceuticals (where food is the medicine). The knowledge of nutrition	on under
		extreme climate conditions, space nutrition, and sports nutrition empower knowledge and skills to utilize food as a powerful tool for physical, menta wellbeing.	ers studer l, and soc
3	Outline svllab	us	CO
			Mappin
	T.I	Introduction to Nutrition	
	Unit I		
	A	Introduction to nutrition -Food as source of nutrients, functions of	CO1
		food	001
	B	Basic definition function classification and dietary sources of foods	CO1
	D	nutrition and dietetics	001
	C	Concept of malnutrition	CO1
			001
	Unit 2	Food Guide and water	
	A	Food guide - Basic five food groups. How to use food guide (according to R.D.A.)	CO2
	В	Use of food in body-Digestion, absorption, transport and utilization	CO2
	С	Role of enzymes and hormones in digestion	CO2
		Water - as a nutrient, function, sources	



U	nit 3		Carbo	hydra	tes									
A			Carbol	nydrate	es: clas	sificati	on, foo	od sour	ces, sto	orage in	body.		CO3	3
В			Carbol	nydrate	e: diges	stion a	nd abso	orption					CO3	3
C			Carbol	nydrate	e: Heal	th Effe	cts						CO3	3
			Regula	Regulation of the blood glucose level Lipids and Protiens										
U	nit 4		Lipids											
А			Lipids Proteii Proteii	: Class ns : Cla ns in Fe	sificatio assifica ood	on, hea tion ar	alth ber nd its ro	nefits o ole in b	f lipids ody	6			CO4	Ļ
В			Lipids: Digestion, Absorption and transport									CO4	ļ	
		Protein: Digestion, Absorption and transport												
С			Lipids	Role	in body	у							CO3	3
			Lipids Proteii	in foo 1s role	d in bod	У								
U	nit 5		Role o	f mine	eral an	d vitaı	nins ir	ı body						
Α	A B C			Functions, Sources, Bioavailability							CO3	8, CO6		
В				ency D	isease								CO4	I, CO6
С				Deficiency Disease- Treatment and Prevention							CO3	8, CO6		
Ne	Aode of	of Theory/jury/Practical/Viva												
V	Veighta	ige	CA MTE ETE 25% 25% 50%											
Ι	Distribu	tion												
	Text		Nutrition Science- B.Srilakshmi											
	Book		•	Text	of Hum	nan Nu	trition-	-Anjan	a Agar	wal, Sho	obha Ag	garwal		
POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	3	1	2	3	3	2	3	3	3	2	3	2
CO2	3	2	3	3	3	2	2	3	2	2	3	1	3	3
CO3	3	2	3	2	3	3	3	3	2	3	3	3	1	3
CO4	04 1 3		2	3	2	2	3	2	3	2	3	3	2	1
CO5	3	3	2	3	1	2	1	3	2	3	1	2	3	3
CO6	2	3	3	2	2	3	1	2	3	1	2	3	2	2
verage Pos	2.33	2.66	2.66	2.33	2.16	2.5	2.16	2.5	2.5	2.33	2.5	2.33	2.33	2.33

Practical



Sc	chool: SSAHS	Batch: 2023-2027								
Pro	gramme: BPT	•								
Bra Phy	anch: ysiotherapy	Semester: 2 ND								
1	Course Code	ARP102								
2	Course Title	Communicative English-2								
3	Credits	2								
4	Contact Hours (L-T-P)	1-0-2								
	Course Type									
5	Course Objective	To Develop LSRW skills through audio-visual language acquirement, cro advanced speech et al and MTI Reduction with the aid of certain tools like texts and short essays.	eative writing s, movies, long							
6	Course	After completion of this course, students will be able to:								
	Outcomes	CO1 Acquire Vision, Goals and Strategies through Audio-visual Language T	exts							
		CO2 Synthesize complex concepts and present them in creative writing								
		CO3 Develop MTI Reduction/Neutral Accent through Classroom Sessions &	Practice							
		CO4 Determine their role in achieving team success through defining strategies for communication with different people								
		CO5 Realize their potentials as human beings and conduct themselves proper of world.	ly in the ways							
		CO6 Acquire satisfactory competency in use of Quantitative aptitude and Log	ical Reasoning							
7	Course Description	The course takes the learnings from the previous semester to an advanced lev learning and self-comprehension through the introduction of audio-visual aid enablers. It also leads learners to an advanced level of writing, reading, listening abilities, while also reducing the usage of L1 to minimal in order to increase the chances.	el of language ds as language g and speaking employability							
8	Outline syllabu	IS S	СО							
			Mapping							
	Unit 1	Acquiring Vision, Goals and Strategies through Audio-visual Language Texts	COI							
	A	12 A norv Man / Ethics & Principles	CO1							
	Б		C01							
	C	The King's Speech / Mission statement in life strategies & Action Plans in Life								
	Unit 2	Creative Writing Story Reconstruction - Positive Thinking	002							
	R	Theme based Story Writing - Positive attitude	-							
		Learning Diary Learning Log. Solf intrographics	_							
		Learning Drary Learning Log – Sell-Introspection								
	Unit 3	Writing Skills 1								

			(A+)	SHAR
			NAAC	Beyond Boun
А	Precis			CO2
В	Paraphrasing			
С	Essays (Simple essays)			
Unit 4	MTI Reduction/Neut	ral Accent thro	ugh Classroom Sessions & Practice	CO3
А	Vowel, Consonant, s Tripthongs	ound correctior	a, speech sounds, Monothongs, Dipthongs and	
В	Vowel Sound drills , C	Consonant Sound	drills, Affricates and Fricative Sounds	
С	Speech Sounds Speec Syntax Intonation System Speech Sounds Speech So	ch Music Tone yllable Stress	Volume Diction	CO3
Unit 5	Gauging MTI Reduc	tion Effectiven	ess through Free Speech	CO3
А	Jam sessions			
В	Extempore			
С	Situation-based Role F	Play		
Unit 6	Leadership and Man	agement Skills		CO4
	Innovative Leadership	and Design Thi	nking	
	Ethics and Integrity			
Unit 7	Universal Human Va	lues		CO5
	Love & Compassion, I	Non-Violence &	: Truth	
	Righteousness, Peace			
	Service, Renunciation	(Sacrifice)		
Unit 8	Introduction to Quar	ntitative aptitud	le & Logical Reasoning	CO6
	Analytical Reasoning	& Puzzle Solvin	g	
	Number Systems and	its Application i	n Solving Problems	
Mode of examination	Theory/Jury/Prac	tical/Viva		
Weightage Distribution	CA	MTE	ETE	
Text book/s*	 00% Wren, P.C.&N Composition, Blum, M. Ros London: Bloo Comfort, Jere Cambridge Us The Luncheon http://mistera. 	Martin H. Hig S.Chand& C sen. How to E msbury Publi my(et.al). Sp niversity Pres to by W.Some co.nf/files/sn	40% th English Grammar and ompany Ltd, New Delhi. Build Better Vocabulary. Section eaking Effectively. s. rset Maugham - n_luncheon.pdf	



COs	PO	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1	PO1	PO1	PSO	PSO2	PSO3
	1									0	1	2	1		
ARP102.1	-	-	-	-	-	-	-	-	1	3	1	2	-	-	-
ARP102.2	-	-	-	-	-	-	-	-	1	3	1	2	-	-	-
ARP102.3	-	-	-	-	-	-	-	-	1	3	1	2	-	-	-
ARP102.4	-	-	-	-	-	-	-	-	1	2	1	2	-	-	-
ARP102.5	-	-	-	-	-	-	-	-	1	2	1	2	-	-	-
ARP102.6	1	-	-	-	-	-	-	-	1	2	1	2	-	-	-

4-Slight (Low)

5-Moderate(Medium)

6-Substantial(High)

A+)	SHARDA UNIVERSITY
NAAC	Beyond Boundaries

Sc	hool: SSAHS	Batch: 2023-2027				
roo	ramme. RPT					
108	gramme, Dr 1	•				
Bra	nch:	Semester: 2 ND				
Phy	siotherapy					
1	Course Code	PTB 146				
2	Course Title	HUMAN ANATOMY- REGIONAL (PRACTICAL)				
3	Credits	2				
4	Contact Hours	0-0-4				
	(L-T-P)					
	Course Type	CC				
5	Course Objective	It is designed to provide students with the working knowledge of the s the human body which is essential foundation for their clinical studies concerned with the topographical and functional anatomy of the limb thorax. Particular attention is paid to the muscles, bones and joints of The abdomen, pelvis, perineum, head and neck and central nervous sy (CNS) are studied with particular reference to topics of importance to physiotherapists. The study of the CNS includes detailed consideration of the control of motor function.	structure of Studies are and theregions. ystem			
6	Course Outcomes	 CO1: Identify the axis and planes of different movement's inhumar and should be able to tell common anatomical terminology. CO2: Identify the structures and classification of various connective t joints and muscles in the human body and correlate the structure with CO3: Discuss about the structural and functional importance of mulong and short nerves and different spaces in upper limb and lower limpelvis 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 CO6: To evaluate the anatomical deviations and deformities. 	h body issues, bone the function uscles, joint mb, trunk an			
7 Course The study of anatomy will include identification of all gross anatomical structures. Particularly emphasis will be placed on description of bones, joi muscles, the brain, cardio pulmonary and nervous system, as these are related the application of physiotherapy and occupational therapy in patients.						
8	Outline syllab	us	CO Mapping			
	Unit 1	Neuro Anatomy				
	А	CNS & PNS	CO1,CO			
	В	Cranial cavity, vertebrae	1			
	С	Demonstration & Examination				
-	Unit 2	Abdomen				
	А	Organs of GIT	CO1,CO3			
	В	Surface Anatomy				



	С		Demo	onstrati	ion & H	Examir	nation							
	Un	it 3	Pelv	is										
	A		Pelvic	bone	osteolo	gy							CO1	,CO3,
	В		Male	and fe	male p	elvic							C	06
	С		Demo	onstrati	ion & I	Examir	nation							
	Unit 4		Low	er Ext	tremity	7								
	А		Ostec	ology o	f bone	s of lo	wer lim	ıb					CO3	,CO4,
	В		Surfa	ce Ana	atomy								C	06
	С		Demo											
	Unit 5		Join	ts of L	ower	Extrer	nity							
	А		Joints and deformity											CO3,
	D		Movements									CC	06	
	D													
	С		Demo	onstrati	ion									
	Mod	le of					Prac	tical/V	'iva					
	exami Woig	nation		CA			MTT	,			DTD			
	Distri	bution		25%			0%	2			EIE 75%			
	Text b	ook/s*	1. B D Chaurasia's Human Anatomy.											
			2. Inderbir Singh-Textbook of Anatomy.											
			3. Textbook of Anatomy with color Atlas-InderbirSingh.											
	Other		Kichard S. Snell- Clinical Anatomy. Kieth L Moorie, Clinically Oriented Anatomy.											
	referen	ces	 A K Datta, Essentials Of Human Anatomy: Thorax 											
				And	Abdor	nen								
			3. Inderbir Singh, Human Osteology.											
POs Cos	s PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	1	3	3	2	3	3	2	2	3	2	2	2	2
CO2	2	2	2	1	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	2	3	2	2	3	3	3	1	3	3	3
CO4	2	2	1	2	2	2	1	2	3	3	2	3	3	2
CO5	1	2	3	3	2	3	2	3	1	2	3	2	3	3
CO6	2	3	2	3	3	2	3	1	2	3	2	1	1	2
Averag Pos	^{ge} 2.16	2.16	2.33	2.33	2.5	2.5	2.33	2.33	2.33	2.66	2.16	2.33	2.5	2.5



Pro		Batch: 2023-2027						
	gramme: BPT	•						
Bra	anch: Physiotherapy	Semester: 2 ND						
1	Course Code	PTB 142						
2	Course Title	HUMAN PHYSIOLOGY II (PRACTICAL)						
3	Credits	2						
4	Contact Hours (L-T-P)	0-0-4						
	Course Type	CC						
5	Course Objective	The objective of this course is that after lectures, demonstrations, p and clinics the student will be ableto demonstrate an understanding elementary human physiology	ractical of					
6	Course Outcomes	 CO1: Define DLC with its clinicalaspects. CO2: Demonstrate the Human andamphibian experiments in Clinic related with physiotherapy. CO3: experiment of General and systemic examination of various with their clinical aspects. CO4: To analyze the physiological ad clinical aspects of Bloodpres Radial pulse measurement in addition to CVS examination. CO5: To explain the cardiac muscle properties with the help of grap and their importance in clinics. CO6: Discuss the Clinical Examination of Cranial nerves and properties of cardiac muscle 	systems sure and phs and chart					
_	0		<u>C (1 1</u>					
/	Description	The course is designed to assist the students to acquire knowledge of human Physiology of various body systems and understand the alte physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder						
	Ĩ	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder	ernation in or each					
8	Outline syllabus	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder	co CO					
8	Outline syllabus	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder	CO Mapping					
8	Outline syllabus	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder	CO Mapping					
8	Outline syllabus	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count.	CO Mapping CO CO1					
8	Outline syllabus Unit 1 A B	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count. Demonstration	CO Mapping CO CO1					
8	Outline syllabus Unit 1 A B C	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count. Demonstration Experimentation	CO Mapping CO CO1					
8	Outline syllabus Unit 1 A B C Unit 2	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count. Demonstration Experimentation B.P. & RADIAL PULSE Examination	CO CO Mapping CO1					
8	Outline syllabus Unit 1 A B C Unit 2	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count. Demonstration Experimentation B.P. & RADIAL PULSE Examination	CO CO Mapping CO1					
8	Outline syllabus Unit 1 A B C Unit 2 A	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count. Demonstration Experimentation B.P. & RADIAL PULSE Examination Arterial Blood Pressure and radial pulse.	CO2, CO3,CO					
8	Outline syllabus Unit 1 A B C Unit 2 A B B	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count. Demonstration Experimentation Arterial Blood Pressure and radial pulse. Effect of Exercise on B.P.	CO CO CO CO CO CO CO CO CO CO CO CO CO C					
8	Outline syllabus Unit 1 A B C Unit 2 A B C C	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count. Demonstration Experimentation Arterial Blood Pressure and radial pulse. Effect of Exercise on B.P. Effect of Posture on B.P.	CO CO CO CO CO CO CO CO CO CO CO CO CO C					
8	Outline syllabus Unit 1 A B C Unit 2 A B C Unit 3	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count. Demonstration Experimentation B.P. & RADIAL PULSE Examination Arterial Blood Pressure and radial pulse. Effect of Exercise on B.P. Effect of Posture on B.P. General & systemic clinical examination	CO CO CO CO CO CO CO CO CO CO CO CO CO C					
8	Outline syllabus Unit 1 A B C Unit 2 A B C Unit 3 A	physiology in diseaseand practice of Physiotherapy as applicable for systemic disorder DLC Differential Leucocyte Count. Demonstration Experimentation B.P. & RADIAL PULSE Examination Arterial Blood Pressure and radial pulse. Effect of Exercise on B.P. Effect of Posture on B.P. General & systemic clinical examination General Clinical Examination	CO CO CO CO CO CO CO CO CO CO CO CO CO C					



С	Clinical Examin	ation of Respir	atory System				
Unit 4	Clinical examin	nation of nervo	ous system				
A	Clinical Examin	ation of Crania	l nerves	CO2,CO3			
В	Clinical Examin	ation of Senso	ry system	CO4			
2	Clinical Examin	ation of Motor	system.				
Unit 5	Properties of ca	ardiac muscle					
A	Demonstration of	of normal frog	cardiogram	CO5, CO6			
В	Effect of temper	ature on it					
C	Demonstration						
Mode of examination	Practical/Viva						
Weightage	CA	MTE	ETE				
Distribution	25%	0%	75%				
Text book/s*	 Text book/s* 1) ManualofPracticalPhysiologyForPhysicalTherapy,Occupational Therapy,MLTand OtherAlliedCourses by Dr A.K.Jain 2) A Text book of Practical Physiology by C.L.Ghai. 3) A Text Book of Practical Physiology by G.K.Pal 						
Other references							

CO6	2	2	3	2	2	3	2	2	2	2	2	2	3	2
CO5	2	3	2	3	2	2	3	2	3	3	2	3	2	3
CO4	3	2	2	3	2	1	2	3	2	2	2	2	3	3
CO3	2	3	2	2	3	3	3	2	2	3	3	3	2	2
CO2	3	2	2	3	3	3	3	2	3	2	3	2	2	3
C01	2	2	3	2	2	3	2	2	2	2	2	2	3	2
COs														
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3



Programme: RPT									
Pro	gramme: BPT	•							
Bra Phy	anch: ysiotherapy	Semester: 2 ND							
1	Course Code	PTB 143							
2	Course Title	Principles of Biophysical Agents (Practical)							
3	Credits	1							
4	Contact Hours (L-T-P)	s 0-0-2							
	Course Type	CC							
5	Course Objective	After the completion of the course the student shall be having the knowledge of the principles and the clinical application of Bioph used in the Physiotherapy for the treatment and diagnosis purpose	e basic ysical agents e						
6	Course Outcomes	CO1: Understand the principles, physiological effects and uses of Therap Electric currents. CO2: Understand the principles, physiological effects and uses of Therma CO3: Understand the principles, physiological effects and uses of Electro							
		CO4: Understand the principles, physiological effects and uses of Ultrasound CO5: Understand the principles, physiological effects and uses of CO6: to understand the applicability of biophysical agents in vario modalities	Therapeutic Hydrotherapy ous therapeutic						
7	Course Description	The course contains the basic understanding of the principles gov Biophysical Agents used in Physiotherapy and their clinical appli	verning ication.						
8	Outline syllab	us	CO Mapping						
	Unit 1	Electric Currents	CO1						
		Identification and Demonstration of application methods of therapeutic electric current stimulators.							
	Unit 2	Thermal Agents- Heat and Cold	CO2, CO6						
		Identification and Demonstration of application methods of Thermotherapy.							
	Unit 3	Electromagnetic Radiations	CO3, CO6						
		Identification and Demonstration of application methods of Ultraviolet radiations and Laser.							
	Unit 4	Ultrasound	CO4, CO6						
		Identification and Demonstration of application methods of therapeutic ultrasound.							
	Unit 5	Hydrotherapy	CO5. CO6						



A	Identification and Demonstration of application methods of hydrotherapy. Practical/Viva							
Mode of examination								
Weig	CA	MTE	ETE					
htage Distri bution	25%	0%	75%					
Text book/s*	 Claytons Electro Therapy, CBS Publishers & Distributors Low & Reed, Electro therapy Explained , Butterworth-Heinemann Limited, 2000 							
Other references	 Nelson & Currier, Clinical Electro Therapy Appleton & Lange. Kahn, Electro Therapy , Churchill Livingstone, 2000 							

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	2	3	3	1	3	3	3	2	3	2	3	2
CO2	3	2	3	2	3	3	2	2	3	1	3	3	2	3
CO3	3	3	3	2	3	2	2	3	З	3	1	3	3	3
CO4	2	2	1	3	2	3	3	2	3	3	2	1	3	2
CO5	1	2	3	3	2	3	2	3	1	2	3	3	1	3
CO6	2	3	2	3	3	2	3	1	2	3	2	2	1	2
Average Pos	2.16	2.5	2.33	2.66	2.66	2.33	2.5	2.33	2.5	2.33	2.33	2.33	2.16	2.5

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



S	chool: SSAHS	Batch: 2023-2027								
Pro	gramme: BPT	•								
Bra	anch:	Semester: 2 ND								
Ph ₁	vsiotherapy	DTD 144								
1	Course Code									
2	Course Thie	rundamental OT exercise science (Practical)								
5	Credits	•								
4	Contact Hours (L-T-P)									
	Course Type	DSC								
5	Course	Describe rephosphorylation of ATP, anaerobic glycolysis and oxidat	tive							
	Objective	phosphorylation energy system								
		2. Describe characteristics of creatinine phosphate, anaerobic glyco	olysis and							
		oxidative phosphorylation energy system and explain how it is use	d to replace							
		ATP during exercise.								
		3. Explain the process of aerobic metabolism of carbohydrates, fat	s and prote							
		and concept of fuel utilization.								
6	Course	4. Explain the effect of exercise on respiratory and circulatory syst	ystem							
0	Course	COT: At the completion of course the student shall be able to describe	be the basi							
	Outcomes	Outcomes of energy utilized during exercise, types and benefits of exercise.								
		utilized during exercise	system							
		CO3: Illustrate fat and protein synthesis								
		CO4: Explain energy utilized during fed, fast and starvation								
		CO5: Justify the effect of exercise on respiratory and circulatory system	stems.							
		CO6: Design the science that are involved during exercise.								
7	Course	At the end of the course, the candidate will have a better understa	nding of th							
	Description	energy system utilized during and after Exercise.								
	-	The student's skill will be enhanced through hands on training prov	vided durin							
		the practical hours.								
8	Outline syllabu		CO							
			Mapping							
	Unit 1	Energetics of Exercise	CO1. CO2							
		ATP & Muscular Work	,							
		Owegen Consumption								
		PMP and its influence during Exercise								
	11		001 002							
		Physiological system during exercise	01,002							
		Respiratory System Responses to Exercise								
		Cardiovascular System Responses to Exercise								
	11-14-2	Endocrine and immune system Responses to Exercise	CO1 CO2							
	Unit 3	Biochemical aspect of exercise	CO1, CO3							
		Aerobic exercise								
		Anaerobic exercise								
		Respiratory exchange ratio								
	Unit 4	Exercise in health fitness and disease	CO1, CO4							

A+)	SHARDA UNIVERSITY
NAAC	Beyond Boundaries

	Exercise and Weight Control							
	Exercise for lifes	style						
	Physical activity	7						
Unit 5	General Exercise	e science and pu	blic health		CO1, CO			
	Endurance exercise							
	General exercise	e for Pediatric						
	General exercise	e for geriatrics						
Mode of examination	Practical/Viva							
Weigh	CA	MTE	ETE					
tage	25%	0%	75%					
Distrib								
ution								
Text book/s*	 Housh, T. J., H exercise science Basic Anatomy Introduction t Tiwari Essential of Exits Guyton, A.C. T Company, Philadelpjia, 198 Devries, H.A.F Athletics. London: Staoles 	Ioush, D. J., & Jol (<i>5th ed.).</i> Scottso (of Physiology o to anatomy & Ph kercise Physiolog Fext Book of Med 1. Physiology of Exe Press, 1976.	hnson, G. O. (20: dale, AZ: Holcom f exercise-Piyush ysiology of Exerc y – Lessy G. Sho dical Physiology, rcise for Physica	17). Introduction t nb Hathaway. n Jain cise- Sandhya wer. W.B. Sunders Il Education and	0			

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C01	3	2	3	1	2	З	3	2	З	З	3	2	2	3
CO2	2	3	3	3	3	2	3	3	2	2	3	1	3	2
CO3	3	3	3	2	3	2	1	3	2	3	3	3	3	3
CO4	3	2	2	3	1	3	2	1	3	2	3	3	2	2
CO5	1	3	2	3	3	3	3	3	2	3	1	2	1	2
CO6	1	2	3	2	2	3	2	2	3	1	2	3	2	3
Average Pos	2.16	2.5	2.66	2.33	2.33	2.66	2.33	2.33	2.5	2.33	2.5	2.33	2.16	2.5



mo	gramma. RPT		
- TU	gramme: DF I	·	
Bra	anch: vsiothoropy	Semester: 2 ⁴⁵	
<u>гц</u> 1	Course Code	DTD 145	
1 2	Course Title		
2	Course Thie		
3	Credits		
4	Contact	0-0-2	
	Hours		
	(L-T-P)		
	Course Type	AEC	
5	Course	Student will be able to perform various perform of Yoga asana, pranay	ama &
	Objective	Mudras.	
		In addition, the student will be able to fulfill with 75% accuracy (as measured	by written &
6	Course	CO1: Remembering the concents of vegic sciences CO2: Inde	rotonding
0	Outcomes	various asanas pranavama krivas & Mudras CO3 Understandi	no various
	Outcomes	types of meditations.	ig valious
		CO4: Applying knowledge in demonstration of Kiriyas, Asanas, Pranay	/ams, Mudra
		and Meditations.	
		CO5: Applying the knowledge of yogic exercises for improving function	ning of vario
		body systems	
		body systems C06 : To formulate the applicability of various asanas.	
7	Course	body systems C06 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr	anayama, krij
7	Course Description	body systems C06 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes	anayama, krij conditions &
7	Course Description	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal o athletes	anayama, kriv conditions &
7	Course Description Outline syllab	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal o athletes	anayama, krij conditions & CO
7	Course Description Outline syllab	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal o athletes bus	anayama, kri conditions & CO Mappin,
7	Course Description Outline syllat	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga	anayama, kriv conditions & CO Mappin; CO1
7	Course Description Outline syllal Unit 1	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga	anayama, kri conditions & CO Mappin CO1
7	Course Description Outline syllat Unit 1	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief	anayama, kri conditions & CO Mappin CO1
7	Course Description Outline syllat Unit 1	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice	conditions & CO Mappin
8	Course Description Outline syllat Unit 1	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice	CO Mappin CO
7	Course Description Outline syllat Unit 1 Unit 2	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama	CO Mappin CO CO CO1 CO2, CO
8	Course Description Outline syllat Unit 1 Unit 2	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama Brief	CO Mappin CO CO CO1
8	Course Description Outline syllat Unit 1 Unit 2	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama Brief Demonstration	anayama, kriy conditions & CO Mappin; CO1 CO2, CO
7	Course Description Outline syllat Unit 1 Unit 2	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama Brief Demonstration Practice	anayama, krivonditions &
8	Course Description Outline syllat Unit 1 Unit 2 Unit 3	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama Brief Demonstration Practice Kriyas	anayama, kriy conditions & CO Mappin; CO1 CO2, CO
8	Course Description Outline syllat Unit 1 Unit 2 Unit 2 Unit 3	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama Brief Demonstration Practice Kriyas	CO Mappin; CO CO2, CO CO2, CO CO2, CO
7 8	Course Description Outline syllal Unit 1 Unit 2 Unit 2 Unit 3	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama Brief Demonstration Practice Kriyas Brief	CO Mappin; CO CO2, CO CO2, CO CO2, CO
7 8	Course Description Outline syllal Unit 1 Unit 2 Unit 3	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama Brief Demonstration Practice Kriyas Brief Demonstration	anayama, kriy conditions & CO Mapping CO1 CO2, CO CO2, CO CO6
7 8	Course Description Outline syllal Unit 1 Unit 2 Unit 3	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama Brief Demonstration Practice Kriyas Brief Demonstration Practice	anayama, kriy conditions & CO Mapping CO1 CO2, CO CO2, CO CO6
7 8	Course Description Outline syllat Unit 1 Unit 2 Unit 3 Unit 3	body systems CO6 : To formulate the applicability of various asanas. This course is designed to provide students' knowledge of various asanas, pr mudras of Yoga, meditation and its application in different musculoskeletal of athletes bus Introduction of AstangaYoga :Bahirang Yoga & Antarang Yoga Brief Demonstration Practice Asanas and Pranayama Brief Demonstration Practice Kriyas Brief Demonstration Practice Mudras and Meditations	anayama, kriy conditions & CO Mapping CO1 CO2, CO CO2, CO CO6



	Brief			
	Demonstration			
	Practice			
Unit 5	Yoga			CO1,
A	Brief			
	Demonstration			
	Practice.			
Mode of examination	Practical/Viva			
Weightage	CA	MTE	ETE	
Distribution	25%	0%	75%	
	2. Gore, Anatomy an KanchanPrkashan. 3. Helen Purperhart , A Hunter House book 4. Ivengar, B.K.S. Lic	d Physiology of Yo The Yoga Adventi k. aht on Yoga, New I	gic Practices. Lonavata: ure for Children. Netherlands: Delhi: Harper Collins Publishers	
Other References	 Karbelkar N.V Amravati: Har Kenghe. C.T. (Vol-I): Histori Background, Y 	/. PatanjalYogasuti numan VyayamPra . Yoga as Depth-Ps ical Varanasi: Bharatal	aBhashya (Marathi Edition) sarakMandal sychology and para-Psychology ⁄Ianishai.	
	 Kuvalyananad Principles and New Delhi: Go Moorthy A.M Coimbatore: 1 	da Swami & S.L. Vi d Methods. ovt. of India, Centra . &Alagesan. S. Yo Feachers Publicatio	nekar, Yogic Therapy – Basic al Health Education and Bureau. ga Therapy. on House	

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	2	1	2	3	3	2	З	3	3	2	3	3
CO2	1	3	3	3	3	2	3	3	2	2	3	3	2	2
CO3	3	1	3	2	3	2	3	З	2	3	3	3	3	3
CO4	3	2	1	3	1	3	2	2	3	2	3	2	2	3
CO5	2	3	3	3	3	3	2	З	2	3	1	1	2	1
CO6	3	2	2	2	2	3	3	2	3	1	2	2	3	1
Average Pos	2.33	2.33	2.33	2.33	2.33	2.66	2.66	2.5	2.5	2.33	2.5	2.16	2.5	2.16



Third Semester

~		Batch: 2023-2027								
S	SAHS									
Pro	ogramme:	•								
BP	Т									
B	ranch: SAHS	Semester:3 rd								
1	Course Code	PTB 201								
2	Course title	PATHOLOGY								
3	Credits	2								
4	Contact	2-0-0								
	Hours									
	(L-T-P)									
	Course Type	00								
5	Course Objective	The student will be able tounderstand the concepts of cell injury and changes in relation towards the pathological effects of infectious and non infectious diseases &understand the disease process, the clinical significance (with special emphasis on neuro-musculoskeletal and cardio-respiratorysystem)								
6	Course	At the end of the course, the student will be able to								
	Outcomes	CO1: Acquire the knowledge of concepts of cell injury and changes Produced thereby indifferent tissues and organs; Capacity of the body in healing Process. CO2: Recall the Etio-pathological effects and the Clinical pathological Correlation of common infection. Able to 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. CO3: Acquire the knowledge of concepts of Neoplasia with reference to the Etiology, gross andfeatures diagnosis and prognosis in different tissues and organs of the body. They are able to characterize, understand the pathogenicity of disease. CO4: Understand in brief, about the Hematological diseases and their resultant effects on the human body. CO5: Understand in brief, about the general features, pathogenicity, diagnosis, treatment and prevention CO6: to understand the investigations for various infections, cell injury and other pathology in the human body.								



7	Course Description	The course is designed to develop the basic knowledge about the injury, its healing process and its resultant effects on the human bod Pathology is the study of the causes and effects of disease or injur	e concept of ly. y. The word
		pathology also refers to the study of disease in general, incorpora range of biology research fields and medical practices. However, we the context of modern medical treatment, the term is often used in fashion to refer to processes and tests which fall within the contempor field of "general pathology", an area which includes a number of inter-related medical specialties that diagnose disease, mostly through of figure call, and hody thuid camples	ating a wide when used ir n a narrowe rary medica distinct bu ugh analysis
0	Outling gullo	bus	CO
0	Outline syna	Dus	Mapping
	Unit 1	General Pathology	
	A	 Cell injury Irreversible cell injury Extra- cellular accumulation-amyloidosis, Pigments and pigmentations 	CO1,C02
	В	Inflammation and repair	CO1,CO2
		 Acute inflammations Inflammatory cell & mediators, Chronic inflammation:-causes, types, non-specific & granulomatous with examples Wound healing by primary & amp; secondary intention factors promoting & delaying Healing process, healing at various sites including bones, nerve & 	
		muscle. Regeneration & repair.	
	Unit 2	Vascular disorder	
	A	Hyperemia /Ischemia and Hemorrhage Edema: Pathogenesis and types. Chronic venous congestion: Lung , Systemic Pathology Thrombosis and Embolism: Formation, Fate and Effects. Infarction: Types, Common sites Shock: Pathogenesis, types, morphologic changes.	CO2
	В	Growth Disturbances:	CO2
	_	 Atrophy, Hypertrophy, Hyperplasia, Aplasia, Hypoplasia, Metaplasia, Malformation, Agenesis, dysplasia. Precancerous lesions. 	
	С	Genetic disorders: Genetic Disorders–. Basic concepts of genetic disorders and some common examples and congenital malformation.	CO2, CO6
	Unit 3	Hematology	
	A	Nutritional anemia's. Acquired hemolytic anemias	CO4. CO6
	B	Haemostatic disorders, Vascular and Platelet disorders& lab diagnosis.	CO4, CO6
	С	Coagulopathies, Leukocytic disorders, Leukemia, Blood transfusion	CO4, CO6



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В		(Carcinogenesis: Environmental carcinogens, chemical, viral, occupational, Heredity and cellular oncogenes and prevention of cancer. Benign & Malignant epithelial tumours Eg. Squamous papilloma, Squamous cell carcinoma, Malignant melanoma. Benign& Malignant mesenchymal tumours Eg: Fibroma, Lipoma, Neurofibroma, Fibrosarcoma,Liposarcoma, Rhabdo-myosarcoma, Taratoma											
C	, ,													
U	nit 5]	Introd	uction	, gene	ral fe	ature	s, path	ogeni	icity,				
			diagnosis, treatment and prevention											
A	L]	Polio virus											
В]	Hepatitis, Herpesvirus											05, CO
С]	HIV											05, CO
Mo	ode of aminatio	on	Theory/Jury/Practical/Viva											
We	eightage	. (CA			MT	MTE							
Dis	stributio	n _	250/			250	,			500/				
т			25%	1 1.	- f	25%	0 . 1 T		· ۲ - ۱	50%				
10 bo	ext		1. Text book of pathology by Harsh Mohan											
	50 R /5	4	2. Dasi	c pain	ology	by col	i ali K	uillai f	CODUII	15				
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
	1		1				1			1		1		1

Average Pos	2.33	2.33	2.33	2.5	2.33	2.5	2.5	2.16	2.33	2.33	2.33	2.33	2.5	2.5
CO6	2	2	3	2	2	3	2	2	2	2	2	2	3	2
CO5	2	3	2	3	2	2	3	2	3	3	2	3	2	3
CO4	3	2	2	3	2	1	2	3	2	2	2	2	3	3
CO3	2	3	2	2	3	3	3	2	2	3	3	3	2	2
CO2	3	2	2	3	3	3	3	2	3	2	3	2	2	3
001	-	-	0	-	-	Ŭ	-	-	-	-	-	-	Ű	-

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



Sc	hool: SSAHS	Batch: 2023-2027	
Prog	gramme: BPT	•	
Bra	anch:Pharma	Semester:3 rd	
1	Course Code	PTB 202	
2	Course Title	Pharmacology	
3	Credits	2	
4	Contact	2-0-0	
	Hours		
	(L-T-P)		
	Course Type	DSC	
5	Course	1. Introduce the students to basic pharmacology of various common	
	Objective	medication used and its effects on patients in physical therapy	
		2. Treatment of ailment of cardiovascular system, GIT, endocrine system	stem,by
		drugs	
		3. To make student understand the drug and physiotherapy contribut	ion in the
~	0	outcome of the treatment.	• • , ,•
6	Course	COI: 10 understand the various routes of drugs adm	inistration,
	Outcomes	$CO2$: To understand the various drugs used for the treatment of ΔN^{0}	S PNS and
		CNS conditions with their mechanism of action and adverse effects.	5, 1 145 and
		CO3: To understand the various drugs used for the treatment of	endocrine
		system with their mechanism of action and adverse effects.	
		CO4: To understand the various drugs used for the treatment of GI	Γ problems
		with their mechanism of action and adverse effects	
		CO5: To understand the various antibiotic drugs with their mechanism	m of action
		and adverse effects.	
		CO6: 10 understand the various drugs used for the treatment of allme	nt of cardio
		and adverse effects	II OF action
7	Course	This course introduces the student to basic pharmacology of com	mon drugs
	Description	used their importance in the overall treatment including Physioth	erany. The
	1	student after completing the course will be able to understand t	he general
		principles of drug action and the handling of drugs by the body. The s	tudent will
		be aware of the contribution of both drug and physiotherapy fac	tors in the
		outcome of treatment	tors in the
0	Outline gullab		CO
0	Outille syllab	us	Monning
	TI	Comment Discourse and a set	Mapping
		Introduction Definitions Classification of drugs Sources of drugs	CO1
	A D	Poutos of drug administration Distribution of	C01
	D	drugs Metabolism and Excretion of drugs	01
		drugs, we adolishi and Exerction of drugs	
	С	Pharmacokinetics Pharmacodynamics Factors modifying drug	CO1
		response. Adverse effects	201
			1



Unit 2	AutonomicNervous system&Cardiovascular Pharmacology–	
A	General considerations- The Sympathetic and Parasympathetic Systems, Receptors, Somatic Nervous System Cholinergic and Anti- Cholinergic drugs, Adrenergic and Adrenergic blocking drugs, Peripheral muscle relaxants.	CO2
В	Antiarrhythmic Drugs-Drugs used in the treatment of vascular disease and tissue ischemia	CO2
С	Drugs used in the treatment of heart failure: Digitalis, Diuretics, Vasodilators, ACE inhibitors.Antihypertensive Drugs: Diuretics, Beta Blockers, Calcium Channel Blockers, ACE Inhibitors, Central Acting Alpha Agonists, Peripheral Alpha Antagonists, Direct acting Vasodilators	CO2
Unit 3	Neuropharmacology & Disorders of Movement	
A	Sedative-Hypnotic Drugs: Barbiturates, Benzodiazepines Antianxiety Drugs: Benzodiazepines, Other Anxiolytics Drugs Used in Treatment to food Disorders: Monoamine Oxidase Inhibitors, Tricyclic	CO2
В	Antidepressants, Atypical Antidepressants, Lithium d. Antipsychotic drugs	CO2
С	Drugs used in Treatment of Parkinson'sdisease Antiepileptic Drugs, Spasticity and Skeletal Muscle Relaxants	CO2
Unit 4	Inflammatory/Immune Diseases	
A	Non-narcoticAnalgesics and NonsteroidalAnti- InflammatoryDrugs:Acetaminophen,NSAIDs, Aspirin, Nonaspirin NSAIDs, drug Interactwith NSAIDs	CO5
В	Glucocorticoids: Pharmacological Uses of Glucocorticoid s,adverse effects, Physiologic Use of Glucocorticoids	
C	Drugs Used in Treatment of Arthritic Diseases: Rheumatoid Arthritis, Osteoarthritis, Gout, Myasthenia gravis ,IdiopathicInfl ammatoryMyopathies,systemiclupusErythematous,Sclerod erma,Demyelinating Disease Respiratory Pharmacology: Obstructive Airway Diseases, Drugs used in Treatment of Obstructive airway Diseases, Allergic Rhinitis.	Co5,C0 6
Unit 5	Digestion and Metabolism & Geriatrics-	
A	Gastrointestinal Pharmacology: Peptic Ulcer Disease, Constipation, Diarrhea	CO4
	Duran II. In Transforment of Disheter Multiture In sufficiency	COA


	С			Pharn specia	nacolo al conc	gy an cern in	d the g the E	geriatr Iderly	ic Pop , Dem	ulatior entia, 1	n: Adve Postura	erse effe il hypot	ects of ension		C05
	Mode of examination Theory/Jury/Practical/Viva														
	Weightage CA MTE ETE														
	Dis	tributi	on	25%		25% 50%									
	Tex	t bool	ĸ∕s*	1.Ess	entials	of ph	armac	ology	by KI) Tripa	athi				
				 2. Pha 3. Cli 	armaco nical H	ology Pharm	by Bh acolog	attach gy by S	arya S Sennet	en ray	choice	editor	P.K. D	as	
PO	s	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CC)s														

COs														
C01	2	2	3	3	2	2	2	3	3	3	3	3	3	2
CO2	3	2	2	2	3	3	1	2	1	3	2	2	2	2
CO3	3	2	3	1	2	2	3	3	2	3	2	2	1	2
CO4	2	2	2	3	3	3	2	1	2	2	2	2	2	3
CO5	3	2	3	3	2	2	3	2	3	2	2	3	3	3
CO6	2	2	3	2	2	2	2	3	2	3	3	3	3	2
Average	2.5	2	2.66	2.33	2.33	2.33	2.16	2.33	2.16	2.66	2.33	2.5	2.33	2.33
Pos														



1 U	gramme: BPT	•									
Br	anch:	Semester: 3 rd									
1	Course Code	PTB 203									
$\frac{1}{2}$	Course Title	Flactrotherapy									
2	Cradita	2									
5 1	Contest	2									
+	Contact	2-0-0									
	Hours (L-1-										
	P)										
	Course Type	CC									
5	Course	The objective of this course is that the student will be able to list the	ie .								
	Objective	indications and contraindications of various types of electrotherape	eutic								
		modalities, demonstrate the different techniques, and describe them	r								
6	Cauraa	effects									
5	Outcomes	CO1: Able to select the appropriate modulities in different condition	me								
	Outcomes	CO3: Able to select the appropriate dosages of different Electrothe	rany								
		modalities to achieve the different goals									
		CO4:Demonstrate the indication and contraindications of various r	nodalities								
		CO5:Demonstrate the treatment time, intensity according to the Ac	cute.								
		subacute & chronic conditions.	,								
		CO6: To formulate the applicability of modalities in different cond	litions.								
7	Course	In this course the student will learn the principles, technique, and e	effects of								
	Description	electrotherapy as a therapeutic modality in the restoration of physic	cal								
		function									
	Outline syllab	us	CO								
8	Outline synab		CO								
3	Outline synab		Mappin								
3	Unit 1	Bioelectronics	Mappin								
3	Unit 1 A	Bioelectronics Electron theory, static and current electricity.	CO Mappin CO1								
3	Unit 1 A	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference,	Mappin CO1								
3	Unit 1 A	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity.	Mappin CO1								
3	Unit 1 A	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents.	Mappin CO1								
3	Unit 1 A	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves,	Mappin CO1								
3	Unit 1 A	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves, Semiconductors, Transistors ,Amplifiers, Transducers Oscillator	Mappin CO1								
3	Unit 1 A	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves, Semiconductors, Transistors ,Amplifiers, Transducers Oscillator circuits.	Mappin CO1								
8	Unit 1 A	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves, Semiconductors, Transistors ,Amplifiers, Transducers Oscillator circuits. Capacitance, condensers in DC and AC Circuits.	Mappin CO1								
3	Unit 1 A	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves, Semiconductors, Transistors ,Amplifiers, Transducers Oscillator circuits. Capacitance, condensers in DC and AC Circuits. Display devices & indicators – analogue & digital.	Mappin CO1								
8	Unit 1 A	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves, Semiconductors, Transistors ,Amplifiers, Transducers Oscillator circuits. Capacitance, condensers in DC and AC Circuits. Display devices & indicators – analogue & digital. Effects of Current Electricity: Chernical effects – Incendentechnical Indicators – Deviced of the second	CO1								
8	Unit 1 A B	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves, Semiconductors, Transistors ,Amplifiers, Transducers Oscillator circuits. Capacitance, condensers in DC and AC Circuits. Display devices & indicators – analogue & digital. Effects of Current Electricity: Chemical effects - Ions and electrolytes, Ionisation,Production of a F M F by chemical actions.	CO1 CO1								
8	Unit 1 A B	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves, Semiconductors, Transistors ,Amplifiers, Transducers Oscillator circuits. Capacitance, condensers in DC and AC Circuits. Display devices & indicators – analogue & digital. Effects of Current Electricity: Chemical effects - Ions and electrolytes, Ionisation,Production of a E.M.F. by chemical actions. Magnetic, affect, Molecular theory of Magneticm	CO1 CO1								
8	Unit 1 A B	Bioelectronics Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves, Semiconductors, Transistors ,Amplifiers, Transducers Oscillator circuits. Capacitance, condensers in DC and AC Circuits. Display devices & indicators – analogue & digital. Effects of Current Electricity: Chemical effects - Ions and electrolytes, Ionisation,Production of a E.M.F. by chemical actions. Magnetic effects, Molecular theory of Magnetism, Magnetic fields Electromagnetic Induction eddycurrents Mili ammeter and	CO1								



С	Thermal Effects	CO1					
	- Joule's Law and Heat production.						
	Physical Principles of sound and its properties. Physical Principles						
	of light and its properties, Electromagnetic spectrum - biophysical						
	application, Laws of Transmission- reflection, refraction,						
	absorption, attenuation						
Unit 2	Low frequency current						
Α	Physiological effects, therapeutic uses, indications	CO2,					
	and contraindications and dangers of faradic type	CO6					
	current, intermittent galvanic current and galvanic						
	Current Cathodal /Anodal Galvanism, Iontophoresis -						
	withvarious ions & Pharmaco therapeutic drugs.						
	Electrical stimulation for re-education - short /long						
	pulse motor points Strong surged faradic current under						
	pressure/elevation.						
	Electrical Reactions and Electro - diagnostic tests: Electrical						
	Stimuli and normal behavior of Nerve						
	and muscle tissue						
В	Types of lesion and development of reaction of degeneration	CO2,					
	Faradic - Intermittent direct current test S.D. Curve and its	CO6					
	application and characteristics Chronaxie, Rheobase& pulse ratio						
	High voltage pulsed galvanic current						
С	TENS: Define, Principles of production, types, dosage, electrode	CO2,					
	placement, Physiological and therapeutic effects, indication and	CO6					
	contraindications.						
Unit 3	Medium frequency current						
Α	Interferential therapy: Define, Principles of	CO2,CO3					
	production, staticInterferential system,						
	dynamic interference system, dosage,						
	electrode placement, Physiological and						
	therapeutic effects, indication and						
	contraindications.						
В	Russian currents	CO2,CO3					
С	Rebox type currents	CO2,CO3					
Unit 4	Biofeedback method						
А	Biofeedback method: Instrumentation, principles, therapeutic	CO3,CO4					
	effects, indications, contraindications, limitations, precautions.						
В	Electro – diagnosis – Instrumentation, definition & basic						
	techniques of E.M.G.						
С	operational skills and patient preparation	CO3,CO4					
Unit 5	Other electrotherapy modalities						
А	Therapeutic mechanical pressure (Intermittent compression	CO5,					
	therapy) – Principle, biophysical effects, types, therapeutic effects,	CO6					
	indications, contraindications, precautions, operational skills and						



В	Iontophoresis : ind	lication , contrai	ndication, mechanism and its	CO5,							
	effects	effects									
Mode of	Practical/Viva	Practical/Viva									
examination											
Weight age	СА	CA MTE ETE									
Distribution	25%	25% 25% 50%									
Text book/s*	Clayton's Electro	Therapy									
	2 Electro therapy I	Explained – by I	Low &Reed								
	3 Electro Therapy	– by Kahn									
	4 Therapeutic Ele	4 Therapeutic Electricity – by Sydney Litch									
Other	Clinical Electro Th	Clinical Electro Therapy – by Nelson & Currier									
References											

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	2	3	3	3	2	3	3	3	1	2	2	3	3	3
CO2	3	1	3	2	1	3	3	2	3	3	3	1	2	1
CO3	1	3	3	3	3	3	3	3	3	1	3	3	3	3
CO4	3	2	1	3	3	3	3	3	2	3	2	3	3	2
CO5	3	3	2	2	2	2	3	1	3	2	2	2	2	3
CO6	2	2	3	2	2	2	2	3	2	2	3	1	1	2
Average Pos	2.33	2.33	2.5	2.5	2.16	2.66	2.83	2.5	2.33	2.16	2.5	2.16	2.33	2.33



Pro	ogramme:	•									
BP D-	1	a card									
BI	ranch:	Semester:3 rd									
I	Course	P1B 204									
2	Course Title	Fundamentals of Biomechanics and Evercise Therapy									
3	Credits	3									
4	Contact	3-0-0									
т	Hours (L-T-P)										
	Course	CC									
	Туре										
5	Course	1. Describe basic concepts of biomechanics and exercise therapy-pos	itions,								
	Objective	types of movements, classification									
		2. Demonstrate principles, application of techniques like goniometry, MMT									
		3. Describe types of pelvic tilt, normal and abnormal, muscle work involved.									
~	Comme	4. Acquire knowledge of resisted exercises, types and techniques	1								
0	Course	CO1: At the completion of course the student shall be able to describ	be the								
	Outcomes	basics of mechanics involved in exercise therapy.									
		basics of mechanics involved in exercise therapy. CO2: Describe and demonstrate fundamental and derived position									
		CO3: Describe and demonstrate active, passive, resisted movements	and soft								
		tissue manipulation									
		CO4: Demonstrate and apply relaxation techniques, soft tissue manip	pulation								
		region									
		CO6: To formulate the relation between biomechanics and exercise t	therapy to								
		be applied on the subjects									
7	Course	At the end of the course, the candidate will have a better understar	nding of t								
	Description	principles of exercise therapy and biomechanics both basic and advan	nced as we								
		as assessment techniques. The student's skillwill be enhanced through	gh hands (
		training provided during the practical hours.									
8	Outline sylla		CO								
0	Outline syna	545	Mannin								
	Unit 1	Introduction to Exercise Therapy	wiappin								
	A	Introduction to Exercise Therapy-	CO1								
		ThetechniquesofExercise	001								
		Therapy, Approach to patient's problems, Assessment of patient's									
		condition									
	В	Starting Positions–Fundamental positions & derived Positions,	CO1,								
		Planning of Treatment	CO2								
	С	Method of testing – goniometery, MMT. Measurement of	CO1,								
		LimbLength: truelimblength, apparent limblength, seg mental	CO2								
		limblength, Measurement of the angle of Pelvic Inclination									
	Unit 2	Relaxation therapy and soft tissue manipulation									



A	Stress mechani on the body me Methods &tecl	ics, types of stresses echanism, Indicatior hniques of relaxatior	, Effects of stress as of relaxation, h.	CO4				
В	Principles& us additional met	es: General, Local, . hods	Jacobson's ,Mitchel's,	CO4				
С	Soft tissue man techniques Phy Manipulations	nipulation : indication visiological and There	n contraindication, types, apeutic Uses of Specific	CO4				
Unit 3	Basic Concept	ts in Biomechanics:	Kinematics and Kinetics					
А	Types of Motio Magnitude of M	on, Location of Mot Motion, Definition o	ion, Direction of Motion, f Forces	CO1. CO6				
В	Force of Gravit Force of friction	y, Reaction forces, I	Equilibrium, Objects in Motion	CO1 CO6				
C	Concurrent for arm of force, F	ce systems, Parallel Force components, E	force system, Work, Moment quilibrium of levers	CO1 CO6				
Unit 4	Joint, muscle	structure and func	tion					
А	Joint design, Materials used in human joints							
В	Joint function, Joint motion, General effects of disease, injury and immobilization.							
С	Elements of m	uscle structure, Mus	cle function,	CO5 CO6				
Unit 5	Biomechanics	of the Thorax and	Chest wall					
А	General structu	are and function		CO5 CO6				
В	Rib cage and the Ventilatory mo	he muscles associate ptions: its coordination	d with the rib cage on and integration	CO5. CO6				
С	Developmental normal structur and COPD	l aspects of structure re and function in re	e and function Changes in lation to pregnancy, scoliosis	CO5 CO6				
Mode of examination	Theory/Jury/Pr	ractical/Viva						
Weight age	CA	MTE	ETE					
Distribution	25%	25%	50%					
Text book/s*	 Practical exercise therapy - Hollis Blackwell scientific publication. Therapeutic exercises basmajian William & amp; Wilkins. Therapeutic exercises foundations and techniques kisner & amp; Colby La Davis. Principle of exercise therapy Gardiner cbs Delhi. 							



Oth	ier Serenco	es	1) Bio 2)Join Biome	mecha t Struc chanic	anical cture & s and k	princi &Func tinesol	ples: F tions : ogy- N	Frenke Norki euman	l ns					
POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	1	3	2	3	2	3	3	1	2	3	3	3	3
CO2	2	3	3	3	1	3	1	2	3	3	2	1	3	3
CO3	3	3	3	3	3	1	3	3	3	1	3	3	3	3
CO4	3	2	1	2	3	3	2	3	2	3	3	2	3	3
CO5	1	3	2	2	2	3	3	1	3	2	2	3	2	3
CO6	3	2	3	3	1	2	2	3	2	2	1	2	2	2
Average Pos	2.5	2.33	2.5	2.5	2.16	2.33	2.33	2.5	2.33	2.16	2.33	2.33	2.66	2.83



Pro RP	ogramme: T	•								
Br Ph	anch: anch: aysiotherapy	Semester:3 rd								
1	Course Code	PTB 205								
2	Course Title	Anthropometry (Theory)								
3	Credits	1								
4	Contact Hours (L-T-P)	1-0-0								
	Course Type	DSC								
5	Course	1. To educate the students about the concepts of Anthropometry	1. To educate the students about the concepts of Anthropometry							
	Objective	2.To educate the students about different body measurements								
		3. To develop understanding about the concept of age determinati	on							
		and body proportion								
		4. To develop understanding about the methods of Somatotyping								
6	Course	CO1. Recalling about the concepts of Anthropometry								
	Outcomes	CO2. Understand about different body measurements								
		CO3: Understand about different body composition methods								
		CO4. Understanding the concept of age determination and body p	roportion							
		CO5. Applying the concept methods of Somatotyping								
		CO6: Evaluate performance using principles of growth, maturatio performance	n and							
7	Course Description	The course is designed to enable the students to have knowledge a understanding about role of anthropometry.	and							
8	Outline syllab	bus	CO Mapping							
	Unit 1	Introduction to anthropometry								
	A	Definition, aims and objectives of anthropometry	CO1							
	В	Planes and Axes of body	CO1							
	С	Landmarks on body	CO1							



А	Lengths or heights of bo	ody parts		CO2				
В	Circumferences of body	parts		CO2				
С	Skinfold thickness			CO2				
Unit 3	Body composition-I							
А	Definition of body comp	osition and	1 its types	CO3				
В	Methods to estimate bod Bioelectrical impedance	y composit analysis, U	ion: Water displacement method, Jltrasound assessment of fat	CO3				
С	Skinfold thickness meas	urements		CO3				
Unit 4	Age Determination an	d Body pr	oportion					
A	Skeletal Age: Methods to estimate skeletal age							
В	Dental age							
С	Body proportion			CO4				
Unit 5	Somatotyping							
А	Introduction to somatoty	ping: Clas	sification	CO5, CO				
В	Heath – Carter method	of somatot	yping	CO5, C0				
С	Growth, maturation and	physical p	erformance	CO5, CO6				
Mode of examination	Theory							
Weightage	CA M	TE	ESE					
Distribution	25 25	i	50					
Text book/s* Other	 Singh and Malhotra: Kinanthropometry, Lunar Publications H.S. Sodhi: Sports Anthropometry (A Kinanthropometric Approach), Anova Publications Verma and Mokha: Nutrition, Exercise and Weight Reduction, Exercise Science Publication Society 4. Ostym, Beunen and Simons: Kinanthropometry II, University Park Press, Baltimore James A.P. Day: Perspectives in Kinanthropometry, Human Kinetics Publishers, Inc. Champaign, Illinois 							
References	Performance, IASSPE 2. L.S. Sidhu Et. Al: Trends in Sports Sciences, IASSPE							



DOs	PO1	PO2	PO2	PO4	PO5	PO6	DO7	POS	PO0	PO10	PO11	DSO1	DSO2	DSO3
PUS	FOI	F02	105	F04	FOS	100	107	100	109	1010	FUIT	1301	F302	1303
COs														
CO1	3	1	3	3	3	2	3	3	1	2	3	3	3	2
CO2	2	3	1	2	1	3	2	1	3	3	3	3	3	3
CO3	3	3	3	3	3	1	3	3	3	1	3	3	3	3
CO4	3	2	2	3	3	3	3	2	2	3	3	3	1	2
CO5	1	3	3	1	2	3	2	3	3	2	2	3	2	2
CO6	3	2	2	3	1	2	1	2	2	2	2	2	3	3
Average														
Pos	2.5	2.33	2.33	2.5	2.16	2.33	2.33	2.33	2.33	2.16	2.66	2.83	2.5	2.5



n -	chool: bbAllb	Datch: 2025-2027						
Pr	ogramme: BPT	•						
B	ranch: BPT	Semester:3 rd						
1	Course Code	PTB 206						
2	Course Title	Biostatistics & Research Methodology						
3	Credits	3						
4	Contact	2-1-0						
	Hours							
	(L-T-P)							
	Course Type	DSC						
5	Course	1. To enable students, comprehend research issues						
	Objective	 To enable students to identify research questions and formulate n hypothesis 	research					
		3. To equip students with various techniques of research design and collection	l data					
		4. To	a sta sha i sa sa					
6	Course	enablestudentstosynthesizequalitativeandquantitativedatacrunch	ingtechniqu es					
0	Outcomes	CO1: To understand the basic concepts and methods of research.						
	o decomes	CO2. To enable students comprehend research issues						
		CO3.10 apply the application of descriptive statistics on data.						
		collection	und dutu					
		CO5:To enable students to synthesize quantitative data crunching	techniques					
		CO6: To enable the student to formulate of research design	-					
		coor ro endore die student to rorindiate or researen design						
7	Course	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r	esearch					
7	Course Description	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata.	esearch					
7	Course Description Outline syllabu	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata.	esearch CO					
7	Course Description Outline syllabu	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s	esearch CO Mapping					
7	Course Description Outline syllabu Unit 1	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research	esearch CO Mapping					
7	Course Description Outline syllabu Unit 1 A	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process	cO CO Mapping CO1, C O2					
7	Course Description Outline syllabu Unit 1 A B	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review	CO Mapping CO1, CO2 CO1,					
7	Course Description Outline syllabu Unit 1 A B	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics	CO Mapping CO1, CO1, CO2 CO1, CO2					
7	Course Description Outline syllabu Unit 1 A B	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics Primary data, Secondary data and exploration	esearch CO Mapping CO1, CO2 CO1, CO2					
7	Course Description Outline syllabu Unit 1 A B C	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics Primary data, Secondary data and exploration Theoretical Frame work and Hypothesis Formulation	esearch CO Mapping CO1, CO2 CO1, CO2 CO1, CO2					
7 8	Course Description Outline syllabu Unit 1 A B C	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics Primary data, Secondary data and exploration Theoretical Frame work and Hypothesis Formulation Types of variables	esearch CO Mapping CO1, CO2 CO1, CO2 CO1, CO2 CO1, CO2					
7 8	Course Description Outline syllabu Unit 1 A B C	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics Primary data, Secondary data and exploration Theoretical Frame work and Hypothesis Formulation Types of variables Exogenous and Endogenous variables	esearch CO Mapping CO1, CO2 CO1, CO2 CO1, CO2 CO1, CO2					
7	Course Description Outline syllabu Unit 1 A B C	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics Primary data, Secondary data and exploration Theoretical Frame work and Hypothesis Formulation Types of variables Exogenous and Endogenous variables Formulation of Hypothesis and Research question	esearch CO Mapping CO1, CO2 CO1, CO2 CO1, CO2					
8	Course Description Outline syllabu Unit 1 A B C Unit 2	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics Primary data, Secondary data and exploration Theoretical Frame work and Hypothesis Formulation Types of variables Exogenous and Endogenous variables Formulation of Hypothesis and Research question Research Design	esearch CO Mapping CO1, CO2 CO1, CO2 CO1, CO2 CO1, CO2					
7 8	Course Description Outline syllabu Unit 1 A B C C Unit 2 A	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics Primary data, Secondary data and exploration Theoretical Frame work and Hypothesis Formulation Types of variables Exogenous and Endogenous variables Formulation of Hypothesis and Research question Research Design Types of Research design	esearch CO Mapping CO1, CO2 CO1, CO2 CO1, CO2 CO1, CO2 CO1, CO2					
7	Course Description Outline syllabu Unit 1 A B C C Unit 2 A	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics Primary data, Secondary data and exploration Theoretical Frame work and Hypothesis Formulation Types of variables Exogenous and Endogenous variables Formulation of Hypothesis and Research question Research Design Types of Research design Instrument design, Scale formation	esearch CO Mapping CO1, CO2 CO3 CO2 CO1, CO2 CO3 CO3 CO3 CO3 CO3 CO3 CO3 CO3					
7 8	Course Description Outline syllabu Unit 1 A B C C Unit 2 A B	Tohelpthestudentstounderstandthebasicprinciplesofbiostatistics&r methodo logy and appliedtodrawtheinferencesfromthedata. s Introduction to Research Meaning of research, Types of research, Research Process Literature review Literature review basics Primary data, Secondary data and exploration Theoretical Frame work and Hypothesis Formulation Types of variables Exogenous and Endogenous variables Formulation of Hypothesis and Research question Research Design Types of Research design Instrument design, Scale formation Basics Biostatistics	esearch CO Mapping CO1, CO2 CO2 CO1, CO2 CO1, CO2 CO1, CO2 CO2 CO2 CO2 CO2 CO3 CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2					



С	Methods of	CO2,CO3		
	Questionn	, CO6		
	Sampling	Design.		
Unit 3	Data Anal	ysis & Interpretatio	ı	
Α	Descriptiv	e Analysis		CO3,CO4
	Normality	tests		, CO6
В	Outlier tes	sts.		CO3,CO4
				,CO6
С	Hypothesi	s testing		CO3,CO4
Unit 4	Referenci	ng		
Α	APA form	at		CO2,CO3
	MLA form			
В	Harvard S	CO2,CO3		
	IEEE forma			
С	Report Wr	iting.		CO2,CO3
Unit 5	Ethical P	ractices in Research	L	
А	Plagiarism	CO4,CO5		
В	Introductio	CO4,CO5		
С	Legal, Go	CO4,CO5		
Mode of	Theory/Ju	ry/Practical/Viva		
examination		-		
Weightage Distribution	CA	MTE	ETE	
	25%	25%	50%	
Text book/s*	1. Text bo	ok of pathology by H	Iarsh Mohan	
	2. Basic pa	athology by cotran K	umar Robbins	

POs	PO 1	PO	PO	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs	1	2	3											
CO1	3	3	3	3	3	2	3	3	3	1	3	2	1	2
CO2	2	1	1	2	3	3	3	3	2	3	1	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	1	3	1
CO4	3	2	2	3	1	2	3	3	3	2	3	3	2	3
CO5	2	3	3	1	2	2	2	3	1	3	2	3	3	2
CO6	1	2	2	3	3	3	2	2	3	2	1	2	2	2
Averag e Pos	2.33	2.33	2.33	2.5	2.5	2.5	2.66	2.83	2.5	2.33	2.16	2.33	2.33	2.16



PRACTICAL

S	School: SSAHS Batch: 2023-2027							
Pr	ogramme: BPT							
В	ranch: BPT	Semester:3 rd						
1	Course Code	PTB 231						
2	Course Title	PATHOLOGY (PR)						
3	Credits	1						
4	Contact Hours	0-0-2						
	(L-T-P)							
	Course Type	CC						
5	Course	The student will be able tounderstand the concepts of cell injury and	changes in					
	Objective	relation towards the pathological effects of infectious and non infectio &understand the disease process ,the clinical significance (with speci on neuro-musculoskeletal and cardio-respiratorysystem)	ous diseases al emphasis					
6	Course Outcomes	At the end of the course, the student will be able to CO1: Acquire the knowledge of concepts of cell injury and changes I thereby indifferent tissues and organs; Capacity of the body in healin CO2: Recall the Etio-pathological effects and the Clinico pathologica Correlation of common infection. Ableto understand the importance a procedure of sterilization for hospitals, lab, ICU, OT and during surg manage biomedical waste products and to understand the nosocomial and their prevention and non infectious diseases. CO3: Acquire the knowledge of concepts of Neoplasia with refer Etiology, gross and features diagnosis and prognosis in different organs of the body. They are able to characterize, understand the pa of disease. CO4: Understand in brief, about the Hematological diseases and their effects on the human body. CO5: Understand in brief, about the general features, pathogenicity, diagnosis, treatment and prevention CO6: to understand the investigations for various infections, cell inju- other pathology in the human body.	Produced g Process al and ery, to l infection ence to the tissues and thogenicity r resultant					
7	Course Description	rse cription The course is designed to develop the basic knowledge about the concept of injury, its healing process and its resultant effects on the human body. Pathology is the study of the causes and effects of disease or injury. The wor pathology also refers to the study of disease in general, incorporating a wide rang of biology research fields and medical practices. However, when used in th context of modern medical treatment, the term is often used in a narrower fashio to refer to processes and tests which fall within the contemporary medical fiel of "general pathology", an area which includes a number of distinct but interrelated medical specialties that diagnose disease, mostly through analysis of tissue, cell, and body fluid samples.						
8	8 Outline syllabus CO Mappin							



Unit 1	General Pathology	
A	 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,C02
B	Inflammation and repair 1)Acute inflammations features; causes, vascular & amp; cellular events, morphologic Variations 2) Inflammatory cell & mediators, Chronic inflammation:-causes, types, non-specific & granulomatous with examples 3) Wound healing by primary & amp; secondary intention factors promoting & delaying Healing process, healing at various sites including bones, nerve & muscle Pagaparation & rapair	CO1,CO2
Unit 2	Vascular disordar	
A	Hyperemia /Ischemia and Hemorrhage Edema: Pathogenesis and types. Chronic venous congestion: Lung , Systemic Pathology Thrombosis and Embolism: Formation, Fate and Effects. Infarction: Types, Common sites Shock: Pathogenesis, types, morphologic changes.	CO2
В	 Growth Disturbances: 1) Atrophy, Hypertrophy, Hyperplasia, Aplasia, Hypoplasia, Metaplasia, Malformation, Agenesis, dysplasia, Precancerous lesions. 	CO2
С	Genetic disorders: Genetic Disorders–. Basic concepts of genetic disorders and some common examples and congenitalmalformation.	CO2, CO6
Unit 3	Hematology	
Α	Nutritional anemia's, Acquired hemolytic anemias.	CO4, CO6
В	Haemostatic disorders, Vascular and Platelet disorders& lab diagnosis.	CO4, CO6
С	Coagulopathies,Leukocytic disorders,Leukemia,Blood transfusion	CO4, CO6
Unit 4	Neoplasia	
A	Neoplasia: Definition, classification, Biological behaviour: Benign and Malignant, Carcinoma and Sarcoma. Malignant Neoplasia: Grades and Stages, Local & Distant spread.	CO3



В	Carcinogenesis:Enviro occupational, Heredity	onmentalcarcin yand cellularon	ogens,chemical,viral, acogenes and prevention of	CO3
С	Benign & Malignant Squamous cell carcino mesenchymal tumou Fibrosarcoma,Liposar	epithelial tur oma, Malignan urs Eg: Fib coma, Rhabdo	nours Eg. Squamous papilloma, t melanoma. Benign & Malignant roma, Lipoma, Neurofibroma, -myosarcoma, Teratoma.	CO3
Unit 5	Introduction, genera	l features, pa	hogenicity,	
	diagnosis, treatment	and prevention	n	
A	Polio virus			CO5,
				CO6
В	Hepatitis, Herpesvirus	3		CO5,
				CO6
C	HIV			CO5,
				CO6
		(* 7*		
Mode of examination	Theory/Jury/Practical	/Viva		
Weightage	CA	MTE	ETE	

Distribution	CA	IVI I E	DID	
	25%	25%	50%	
Text book/s*	 Text book of patho Basic pathology by 	logy by Harsh Mohan cotran Kumar Robbir	18	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	2	2	3	2	2	3	2	2	2	2	2	2	3	2
CO2	3	2	2	3	3	3	3	2	3	2	3	2	2	3
CO3	2	3	2	2	3	3	3	2	2	3	3	3	2	2
CO4	3	2	2	3	2	1	2	3	2	2	2	2	3	3
CO5	2	3	2	3	2	2	3	2	3	3	2	3	2	3
CO6	2	2	3	2	2	3	2	2	2	2	2	2	3	2
Average Pos	2.33	2.33	2.33	2.5	2.33	2.5	2.5	2.16	2.33	2.33	2.33	2.33	2.5	2.5

Sahaali	Patab. 2022 2027
School:	Batch: 2025-2027
SSAHS	



Pro RP	ogramme: T		
л R	1 ranch:	Somooton 2rd	
1	Course Code	DTD 222	
1 2	Course Title	Pharmacology (DP)	
2	Cradita		
Э Л	Contact		
4	Line	0-0-2	
	Hours		
_	(L-I-P)		
_	Course Type		
5	Course	1. Introduce the students to basic pharmacology of various common	
	Objective	2 Treatment of ailment of aerdiovacaular system. CIT and arring system	om hv dm
		2. Treatment of annent of cardiovascular system, G11, endocrine system 3. To make student understand the drug and physiotherapy contribution	em, by aruş
		the outcome of the treatment	/11 111
6	Course	CO1:To understand the various routes of drugs administration, pharm	nacodvnam
	Outcomes	and pharmacokinetics of drugs.	
		CO2: To understand the various drugs used for the treatment of ANS, I	PNS and C
		conditions with their mechanism of action and adverse effects.	
		CO3: To understand the various drugs used for the treatment of ende	ocrine syst
		with their mechanism of action and adverse effects.	
		CO4: To understand the various drugs used for the treatment of GIT p	problems v
		their mechanism of action and adverse effects	of action
		cos: 10 understand the various antibiotic drugs with their mechanism	of action
		CO6: To understand the various drugs used for the treatment of ailn	ent of car
		vascular system bronchial asthma skin lesions with their mechanism	of action a
		adverse effects.	
7	Course	This course introduces the student to basic pharmacology of commo	n drugs us
	Description	their importance in the overall treatment including Physiotherapy. The	e student a
		completing the course will be able to understand the general principles	of drug act
		and the handling of drugs by the body. The student will be aware of	
		the contribution of both drug and physiotherapy factors in the outcome	e of treatmo
8	Outline syllab	us	CO
			Mapping
	Unit 1	General Pharmacology-	
	Α	Introduction, Definitions, Classification of drugs, Sources of drugs	CO1
	В	Routes of drug administration, Distribution of drugs, Metabolism and	CO1
		Excretion of drugs	
ŀ	С	Pharmacokinetics.Pharmacodynamics. Factors modifying drug	CO1
	~	response Adverse effects	
	Unit 2	AutonomicNervous system&Cardiovascular Pharmacology_	
		ratonomici () vus systemet carutovascular i narmatology–	



А	General considerations- The Sympathetic and Parasympathetic Systems, Receptors, Somatic Nervous System Cholinergic and Anti- Cholinergic drugs, Adrenergic and Adrenergic blocking drugs, Peripheral muscle relaxants.	CO2
В	Antiarrhythmic Drugs-Drugs used in the treatment of vascular disease and tissue ischemia	CO2
С	Drugs used in the treatment of heart failure: Digitalis, Diuretics, Vasodilators, ACE inhibitors.Antihypertensive Drugs: Diuretics, Beta Blockers, Calcium Channel Blockers, ACE Inhibitors, Central Acting Alpha Agonists, Peripheral Alpha Antagonists, Direct acting Vasodilators	CO2
Unit 3	Neuropharmacology & Disorders of Movement	
A	Sedative-Hypnotic Drugs: Barbiturates, BenzodiazepinesAntianxiety Drugs: Benzodiazepines, Other AnxiolyticsDrugsUsedinTreatmentofMoodDisorders:MonoamineOx idaseInhibitors,Tricyclic Drugs: Drugs: Drugs:	CO2
В	Antidepressants, Atypical Antidepressants, Lithium d. Antipsychotic drugs	CO2
С	Drugsused in Treatment of Parkinson'sdisease AntiepilepticDrugs,Spasticity and Skeletal MuscleRelaxants	CO2
Unit 4	Inflammatory/ImmuneDiseases	
А	Non-narcoticAnalgesicsandNonsteroidalAnti- InflammatoryDrugs:Acetaminophen,NSAIDs, Aspirin, Nonaspirin NSAIDs, drug Interactwith NSAIDs	CO5
В	Glucocorticoids:PharmacologicalUsesofGlucocorticoids ,adverseeffects,Physiologic Use ofGlucocorticoids	
С	DrugsUsedinTreatmentofArthriticDiseases:RheumatoidArt hritis,Osteoarthritis,Gout,Myastheniagravis,IdiopathicInfla mmatoryMyopathies,systemiclupusErythematous,Scleroder ma,Demyelinating Disease RespiratoryPharmacology:ObstructiveAirwayDiseas es,DrugsusedinTreatmentofObstructive airway Diseases, Allergic Rhinitis.	Co5,CO6
Unit 5	Digestion and Metabolism & Geriatrics-	
A	Gastrointestinal Pharmacology: Peptic Ulcer Disease, Constipation, Diarrhea	CO4



С	Pharmacol	Pharmacology and the geriatric Population: Adverse effects of						
	special con	pecial concern in the Elderly, Dementia, Postural hypotension						
Mode of examination	Theory/Jur	heory/Jury/Practical/Viva						
Weightage	CA	MTE	ETE					
Distribution	25%	25%	50%					
Text book/s*	1.Essential	s of pharmacology by	KD Tripathi					
	 Pharmac Clinical 	cology by Bhattachary Pharmacology by Ser	a Sen ray choice editor P.K. Das net.					

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	3	3	3	3	3	1	2	3	1	3	2	3	2
CO2	2	1	3	3	1	2	3	3	2	3	1	3	3	3
CO3	3	3	3	3	3	3	3	1	3	3	3	1	3	3
CO4	3	2	3	3	2	3	2	3	3	2	3	3	1	2
CO5	2	3	2	3	3	1	3	2	1	3	2	3	2	2
CO6	1	2	2	2	2	3	2	2	3	2	1	2	3	3
Average Pos	2.33	2.33	2.66	2.83	2.33	2.5	2.33	2.16	2.5	2.33	2.16	2.33	2.5	2.5



	UUI: SSAIS	Dawn; 2025-2027	
ro	gramme: BPT	•	
BI	anch:	Semester:3 rd	
1	Course	PTB 233	
	Code		
2	Course	Electrotherapy (PR)	
	Title		
3	Credits	1	
4	Contact	0-0-2	
	Hours		
	(L-T-P)		
	Course	CC	
	Type		
5	Course Objective	The objective of this course is that the student will be able to list the and contraindications of various types of electrotherapeutic modalitie demonstrate the different echniques, and describe their effects	indication es,
6	Outcomes	CO1: Able to understand the various properties of electrotherpay CO2: to demonstate appropriate modalities in different conditions CO3: Able to select the appropriate dosages of different Electrothera modalities to achieve the different goals CO4:Demonstrate the indication and contraindications of various mo CO5:Demonstrate the treatment time,intensity according to the Acut & chronic conditions.	ру odalities e,subacute
_	~	CO6: To formulate the applicability of modalities in different condit	ions.
/	Description	In this course the student will learn the principles, technique, and eff electrotherapy as atherapeutic modality in the restoration of physical	function
8	Outline sylla	bus	CO
			Mapping
	Unit 1	Bioelectronics	
	A	Electron theory, static and current electricity. Conductors, Insulators, Potential difference, Resistance & Intensity. Ohm's Law – Its application to AC & DC currents. Rectifying Devices – Thermionic Valves, Semiconductors, Transistors,Amplifiers, Transducers Oscillator circuits. Capacitance, condensers in DC and AC Circuits. Display devices & indicators – analogue & digital. Effects of Current Electricity:	COI
	B	Chemical effects - Ions and electrolytes,Ionisation,Production of a E.M.F. by chemical actions. Magnetic effects, Molecular theory of Magnetism,Magnetic fields, Electromagnetic Induction, eddycurrents,Mili ammeter and Voltmeter, Transformers andChoke Coil	CO1



С	Thermal Effects			CO1			
-	– Joule's Law ar	nd Heat prod	uction.				
	Physical Princip	les of sound	and its properties. Physical Principles				
	of light and its p	properties, E	lectromagnetic spectrum – biophysical				
	application, Law	s of Transmi	ssion-reflection, refraction, absorption,				
	attenuation						
Unit 2	Low frequency	current					
A	Physiological contraindication galvanic current Electrical stimu points Strong su Electrical Reacti and normal beha	effects, the s and dange and galvani- lation for re- rged faradic ons and Elec- vior of Nerv	erapeutic uses, indications and rs of faradic type current, intermittent c current -education – short /long pulse motor current under pressure/elevation. tro – diagnostic tests: Electrical Stimuli e and muscle tissue	CO2			
В	S D Curve and i	ts applicatio	n and characteristics Chronaxie	CO2			
D	Bleobase& puls	e ratio High	voltage pulsed galvanic current	002			
C	TENS: indication	n and contro	indiactions	CO2			
U	TENS: Indicatio	n and contra	indications.	02			
	Mealum freque			CO2 CO3			
A	Interferential the	rapy: Define	e, Principles of production, static	02,00			
	Interferential sys	tem, dynam	ic interference system, dosage,				
	electrode placement, Physiological and therapeutic effects,						
	indication and co	ontraindicati	ons.				
В	Russian currents			CO2,CO3			
С	Rebox type curre	ents		CO2,CO3			
Unit 4	Biofeedback me	ethod					
Α	Biofeedback m	ethod: Inst	rumentation, principles, therapeutic	CO3,CO4			
	effects, indicatio	ns, contrain	lications, limitations, precautions.	CO6			
В	Electro - diag	gnosis – I	nstrumentation, definition & basic	CO3,CO4			
	techniques of E.I	M.G.		CO6			
С	operational skills	s and patient	preparation	CO3,CO4			
Unit 5	Other electroth	erapy moda	lities				
А	Therapeutic mec	hanical pres	sure (Intermittent compression therapy)	CO5, CO			
	- Principle, b	iophysical	effects, types, therapeutic effects,				
	indications, con	traindication	s, precautions, operational skills and				
	patient preparati	on.					
В	Iontophoresis : i	ndication, c	ontraindication, mechanism and its	CO5, CO			
	effects						
Mode of	Practical/Viva						
examination							
Weight age	СА	MTE	ETE				
Distribution	25%	-	75%				
Text	-						
book/s*	Clayton's Electr	o Therany					
	2 Electro thereas	v Evplained	by Low & Reed				
1	∠ Liecuo merap	у Блріашей.	- UY LUW ARCCU	1			

A+	SHARDA UNIVERSITY	
NAAC	Beyond Boundaries	

verage Pos	2.33	2.33	2.5	2.5	2.16	2.66	2.83	2.5	2.33	2.16	2.5	2.16	2.33	2.33
CO6	2	2	3	2	2	2	2	3	2	2	3	1	1	2
CO5	3	3	2	2	2	2	3	1	3	2	2	2	2	3
CO4	3	2	1	3	3	3	3	3	2	3	2	3	3	2
CO3	1	3	3	3	3	3	3	3	3	1	3	3	3	3
CO2	3	1	3	2	1	3	3	2	3	3	3	1	2	1
CO1	2	3	3	3	2	3	3	3	1	2	2	3	3	3
COs	rUI	PO2	P03	rU4	PUS	rU0	r0/	FU8	FU9	FUIU	FUIT	r501	r502	r503
Ot Re	her ferenc	es (Clinica	al Elec	etro Th	PO6	– by N	Jelson	& Cur	Tier	PO11	PSO1	PSO2	PSO3
			4 The	rapeut	ic Elec	ctricity	r – by S	Sydne	y Litch	1				

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)



BPT Semester: 3 rd 1 Course Code PTB 234 2 Course Title Fundamentals of Biomechanics and Exercise Therapy (PR) 3 Credits 4 4 Contact 0-0-2 Hours 1. Describe basic concepts of biomechanics and exercise therapy-positions, types of movements, classification 5 Course 1. Describe basic concepts of preside exercise, types and techniques 6 Course Objective of movements, classification 2 Demonstrate principles, application of techniques like goniometry, MMT 3 Describe types of pelvic tilt, normal and abnormal, muscle work involved. 4 Acquire knowledge of resisted exercise, types and techniques 6 Course CO1:At the completion of course the student shall be able to describe the basics of mechanicsinvolved in exercise therapy. CO2: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation 7 Course Description At the relation between biomechanics and exercise therapy to be applied on the subjects 7 Course Descriptin At the end of	ro	gramme:	•	
Branch: Semester:3 rd 1 Course Code PTB 234 2 Course Title Fundamentals of Biomechanics and Exercise Therapy (PR) 3 Credits 4 4 Contact 0-0-2 Hours (L-T-P) CC 5 Course Type CC 6 Course Type of pelvic tilt, normal and abnormal, muscle work involved. 7 Describe types of pelvic tilt, normal and abnormal, muscle work involved. 8 Outcomes CO1:At the completion of course the student shall be able to describe the basics of mechanics involved in exercise therapy. CO2: Describe and demonstrate fundamental and derived positions, CO3: Describe and demonstrate fundamental and derived positions, CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation CO4: Demonstrate and applyrelaxation techniques, soft tissue manipulation CO: Describe the various biomechanics properties of joint structure and thorax regior CO6: To formulate the relation between biomechanics and exercise therapy to be applied on the subjects 7 Course At the end of the course, the candidate will have a better understanding of t principles ofexercise Therapy. 8 Outline syllabus CO 8 Outline syllabus CO	P	Г		
1 Course Code PTB 234 2 Course Title Fundamentals of Biomechanics and Exercise Therapy (PR) 3 Credits 4 4 Contact 0-0-2 Hours (L-T-P) Course Type CC Source Type CC 5 Course Type CC 6 Objective 1.Describe basic concepts of biomechanics and exercise therapy-positions, types 6 Course 1.Describe basic properties (personal 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 mechanicsinvolved in exercise therapy. CO2: Describe and demonstrate fundamental and derived positions, CO3: Describe the various biomechanics properties of joint structure and thorax regior CO6: To formulate the relation between biomechanics and exercise therapy to be applied on the subjects 7 Course Description At the end of the course, the candidate will have a better understanding of t principles ofexercise therapy and biomechanics both basic and advanced as well assessment techniques. The student's skillwill be enhanced through hands or anises straining provided during the practical hours. 8 Outline syllabus CO 1 Introduct	Bı	anch:	Semester:3 rd	
2 Course Title Fundamentals of Biomechanics and Exercise Therapy (PR) 3 Credits 4 4 Contact 0-0-2 Hours 0-10 Hours 0-2 Hours 0-2 Hours 0-2 Corres Type CC 5 Course Type 6 Course Type 7 Describe types of pelvic tilt, normal and abnormal, muscle work involved. 4 Acquire knowledge of resisted exercises , types and techniques 6 Course 0utcomes CO1:At the completion of course the student shall be able to describe the basics of mechanicsinvolved in exercise therapy. CO2: Describe and demonstrate fundamental and derived positions, CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation CO4: Demonstrate and applyrelaxation techniques, soft tissue manipulation CO5 Description At the end of the course, the candidate will have a better understanding of t principles of exercise therapy and biomechanics both basic and advanced as well assessment techniques. The student's skillwill be enhanced through hands or training provided during the practical hours. 8 Outline syllabus CO Coll Introductionto Exercise Therapy- TheaimsofExercise Therapy- Theaims	1	Course Code	PTB 234	
3 Credits 4 4 Contact 0-0-2 Hours (L-T-P) Course Type CC 5 Course 1. Describe basic concepts of biomechanics and exercise therapy-positions, types of movements, classification 2. Demonstrate principles, application of techniques like goniometry, MMT 3. Describe types of pelvic tilt, normal and abnormal, muscle work involved. 4. Acquire knowledge of resisted exercises , types and techniques 6 Course Outcomes CO1:At the completion of course the student shall be able to describe the basics of mechanicsinvolved in exercise therapy. CO2: Describe and demonstrate fundamental and derived positions, CO3: Describe and demonstrate rundamental and trived positions, CO4: Demonstrate and applyrelaxation techniques, soft tissue manipulation CO4 CO4: Demonstrate trincipues. The student's skillwill be enhanced through hands of training provided during the practical hours. 7 Course 8 Outline syllabus CO Unit 1 Introduction to Exercise Therapy CO1 A Introductionto Exercise Therapy. CO1 A Introductionto Exercise Therapy. CO1 A Introductionto Exercise Therapy. CO1 Course Sta	2	Course Title	Fundamentals of Biomechanics and Exercise Therapy (PR)	
4 Contact Hours (L-T-P) 0-0-2 Course Type CC 5 Course Objective 1.Describe basic concepts of biomechanics and exercise therapy-positions, types of movements, classification 2 Demonstrate principles, application of techniques like goniometry, MMT 3 Describe types of pelvic tilt, normal and abnormal, muscle work involved. 4 Acquire knowledge of resisted exercises, types and techniques 6 Course Outcomes CO1:At the completion of course the student shall be able to describe the basics of mechanicsinvolved in exercise therapy. C02: Describe and demonstrate fundamental and derived positions, CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation C04: Demonstrate and applyrelaxation techniques, soft tissue manipulation CO4: Demonstrate and applyrelaxation techniques, soft tissue manipulation CO5 7 Course Description 8 Outline subjects 8 Outline syllabus CO1 9 Introduction to Exercise Therapy TheaimsofExercise Therapy. TheaimsofExercise Therapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. TheaimsofExerciseTherapy. Theaimso	3	Credits	4	
Hours (L-T-P) Course Type CC Course Type CC 1. Describe basic concepts of biomechanics and exercise therapy-positions, types of movements, classification 2. Demonstrate principles, application of techniques like goniometry, MMT 3. Describe types of pelvic tilt, normal and abnormal, muscle work involved. 4. Acquire knowledge of resisted exercises, types and techniques 6 Course Outcomes CO1:At the completion of course the student shall be able to describe the basics of mechanicsinvolved in exercise therapy. CO2: Describe and demonstrate fundamental and derived positions, CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation CO4: Demonstrate and applyrelaxation techniques, soft tissue manipulation CO4: Demonstrate and applyrelaxation techniques, soft tissue manipulation CO2 7 Course 8 Outline syllabus 8 Outline syllabus CO1 9 Starting Positions-Fundamental positions & derived Positions 9 Starting Positions-Fundamental positions & derived Positions 9 CO1 11 Introduction to Exercise Therapy 14 Introduction to Exercise Therapy 15 Introduction to Exercise Therapy. 16 Starting Po	4	Contact	0-0-2	
(L-T-P) Course Type CC Sourse Objective 1.Describe basic concepts of biomechanics and exercise therapy-positions, types of movements, classification 2.Demonstrate principles, application of techniques like goniometry, MMT 3.Describe types of pelvic tilt, normal and abnormal, muscle work involved. 4.Acquire knowledge of resisted exercises, types and techniques 6 Course Outcomes CO1:At the completion of course the student shall be able to describe the basics of mechanicsinvolved in exercise therapy. CO2:Describe and demonstrate fundamental and derived positions, CO3:Describe and demonstrate fundamental and derived positions, CO3:Describe the various biomechanics properties of joint structure and thorax region CO4:Demonstrate and applyrelaxation techniques, soft tissue manipulation CO2:Describe the various biomechanics properties of joint structure and thorax region CO6: To formulate the relation between biomechanics and exercise therapy to be applied on the subjects 7 Course At the end of the course, the candidate will have a better understanding of t principles of exercise therapy and biomechanics both basic and advanced as well assessment techniques. The student's skillwill be enhanced through hands of training provided during the practical hours. 8 Outline syllabus CO 6 Introduction to Exercise Therapy CO1 7 Introduction to Exercise Therapy. CO1 8 Outline		Hours		
Course Type CC 5 Course 1.Describe basic concepts of biomechanics and exercise therapy-positions, types of movements, classification 2. Demonstrate principles, application of techniques like goniometry, MMT 3. Describe types of pelvic tilt, normal and abnormal, muscle work involved. 4. Acquire knowledge of resisted exercises , types and techniques 6 Course CO1:At the completion of course the student shall be able to describe the basics of mechanicsinvolved in exercise therapy. CO2: Describe and demonstrate fundamental and derived positions, CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation CO4: Demonstrate and applyrelaxation techniques, soft tissue manipulation CO5 CO6: To formulate the relation between biomechanics and exercise therapy to be applied on the subjects 7 Course At the end of the course, the candidate will have a better understanding of t principles ofexercise therapy and biomechanics both basic and advanced as well assessment techniques. The student's skillwill be enhanced through hands of training provided during the practical hours. 8 Outline syllabus CO Co1 IntroductiontoExerciseTherapy. TheaimsofExerciseTherapy.ThetechniquesofExercise Therapy, Approach to patient's problems, Assessment of patient's condition CO1 B		(L-T-P)		
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4. Acquire knowledge of resisted exercises , types and techniques 6 Course Outcomes CO1:At the completion of course the student shall be able to describe the basics of mechanicsinvolved in exercise therapy. CO2: Describe and demonstrate fundamental and derived positions, CO3: Describe and demonstrate active, passive, resisted movements and soft tissue manipulation CO4: Demonstrate and applyrelaxation techniques, soft tissue manipulation CO2 Describe the various biomechanics properties of joint structure and thorax regior CO6: To formulate the relation between biomechanics and exercise therapy to be applied on the subjects 7 Course Description At the end of the course, the candidate will have a better understanding of t principles of exercise therapy and biomechanics both basic and advanced as well assessment techniques. The student's skillwill be enhanced through hands of training provided during the practical hours. 8 Outline syllabus CO Mapping Unit 1 Introduction to Exercise Therapy TheaimsoftExerciseTherapy. TheaimsoftExerciseTherapy. TheaimsoftExerciseTherapy. TheaimsoftExerciseTherapy. TheaimsoftExerciseTherapy. TheaimsoftExerciseTherapy. Method of testing – goniometery, MMT. Measurement of Limb Length: true limb length, apparent limb length, seg mental limb length, Measurement of the angle of Pelvic Inclination CO1. CO2 Unit 2 Relaxation therapy and soft tissue manipulation CO4 A Methods & techniques of relaxation. CO4			3. Describe types of pelvic tilt, normal and abnormal, muscle work in	nvolved.
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Methods & techniques of relaxation.			Relaxation therapy and soft tissue manipulation	CO4
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D FILICIDIES& USES, GENETAL, LOCAL JACODSON S INFICUELS, ADDITIONAL 10.04		в	Principles & uses: General Local Jacobson's Mitchel's additional	CO4



С	Soft tissue manipulatio	n : techniques		CO4			
Unit 3	Basic Concepts in Bio	mechanics: Kine	matics and Kinetics				
A	Types of Motion, Loca	tion of Motion, Di	rection of Motion,	CO1,			
	Magnitude of Motion,	Definition of Forc	es	CO6			
В	Forceof Gravity, React	ion forces, Equilit	orium, Objects in Motion	CO1,			
	Force of friction			CO6			
С	Concurrent force system arm of force, Force cor	ms, Parallel force nponents, Equilibre	system, Work, Moment rium of levers	CO1, CO6			
Unit 4	Joint, muscle structur	re and function					
A	Joint design, Materials used in human joints						
				CO6			
В	Joint function, Joint me	otion, General effe	ects of disease, injury	CO5,			
	and immobilization.			CO6			
С	Elements of muscle structure, Muscle function						
Unit 5	Biomechanics of the T	Thorax and Chest	twall				
A	General structure and f	unction		CO5,			
В	Rib cage and the muscles associated with the rib cage						
	Ventilatory motions: its coordination and integration						
С	Developmental aspects normal structure and fu and COPD	of structure and f inction in relation	unction Changes in to pregnancy, scoliosis	CO5, CO6			
Mode of examination	Theory/Jury/Practical/	Viva					
Weight age	CA M	TE	ETE				
Distribution	- 25%		75%				
Text book/s*	 Practical exercise therapy - Hollis Blackwell scientific publication. Therapeutic exercises Basmajian William & amp; Wilkins. Therapeutic exercises foundations and techniques kisner& Colby La Davis. Principle of exercise therapy Gardiner cbs Delhi. 						
Other	1) Biomechanical princ	ciples: Frenkel					
References	2)Joint Structure &Fun	ctions :Norkins					
	3) Biomechanics and kinesology- Neuman						

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														



CO1	3	1	3	2	3	2	3	3	1	2	3	3	3	3
CO2	2	3	3	3	1	3	1	2	3	3	2	1	3	3
CO3	3	3	3	3	3	1	3	3	3	1	3	3	3	3
CO4	3	2	1	2	3	3	2	3	2	3	3	2	3	3
CO5	1	3	2	2	2	3	3	1	3	2	2	3	2	3
CO6	3	2	3	3	1	2	2	3	2	2	1	2	2	2
Average Pos	2.5	2.33	2.5	2.5	2.16	2.33	2.33	2.5	2.33	2.16	2.33	2.33	2.66	2.83

1-Slight (Low) 2-Moderate (Medium)

3-Substantial (High)

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School: SSAHS	Batch: 2023-2027	
Programme: BPT	•	
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Br Ph	anch: lysiotherapy	3 rd Semester						
1	Course Code	PTB 235						
2	Course Title	Anthropometry (Practical)						
3	Credits	1						
4	Contact Hours (L-T-P)	0-0-2						
	Course Type	СС						
5	Course Objective	 To educate the students about the concepts of Anthropometry To educate the students about different body measurements To develop understanding about the concept of age determina and body proportion To develop understanding about the concept of age determina 	tion					
5	Course Outcomes	CO1. Recalling about the concepts of Anthropometry CO2. Understand about different body measurements CO3: Understand about different body composition methods CO4. Understanding the concept of age determination and body proportion						
		CO5. Applying the concept methods of SomatotypingCO6: Evaluate performance using principles of growth, maturation and performance						
7	Course Description	The course is designed to enable the students to have knowledge understanding about role of anthropometry.	and					
8	Outline syllabu	S	CO Mapping					
	Unit 1	Introduction to anthropometry						
	А	Demonstration of basic concepts of anthropometry	CO1					
	В	Demonstration of Planes and Axes of body	CO1					
	С	Demonstration of Landmarks on body	CO1					
	Unit 2	Body measurement						
	А	Demonstration of measurement of Lengths or heights of body parts	CO2					
	В	Demonstration of measurement of Circumferences of upper limb	CO2					
	С	Demonstration of measurement of Circumferences of lower limb	CO2					



Unit 3 A	Body composition Demonstration of	measurement of skinfold thickness in upper	CO3			
В	Demonstration of limb	measurement of skinfold thickness in lower	CO3			
С	Demonstration of abdomen	measurement of skinfold thickness in back and	CO3			
Unit 4	Age Determinat	ion and Body proportion				
A	Skeletal Age: Met	hods to estimate skeletal age	CO4			
В	Dental age		CO4			
С	Body proportion		CO4			
Unit 5	Somatotyping					
A	Introduction to so	CO5, CO6				
В	Heath – Carter method of somatotyping					
С	Growth, maturatio	on and physical performance	CO5, CO6			
Mode of examination	Theory					
Weightage	CA	ESE				
Distribution	25	75				
Text book/s*	1. Singh and Mall 2. H.S. Sodhi: Spe Approach), Anova 3. Verma and Moi Exercise Science Publication Societ Kinanthropometry Press, Baltimore 5. James A.P. Day Kinetics Publisher Champaign, Illing	notra: Kinanthropometry, Lunar Publications orts Anthropometry (A Kinanthropometric a Publications kha: Nutrition, Exercise and Weight Reduction, ty 4. Ostym, Beunen and Simons: / II, University Park /: Perspectives in Kinanthropometry, Human rs, Inc.				
Other	1.L.S. Sidhu Et. A	l: Sports Sciences – Health, Fitness and				
	Performance, IAS	SPE				

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														



CO1	3	1	3	3	3	2	3	3	1	2	3	3	3	2
CO2	2	3	1	2	1	3	2	1	3	3	3	3	3	3
CO3	3	3	3	3	3	1	3	3	3	1	3	3	3	3
CO4	3	2	2	3	3	3	3	2	2	3	3	3	1	2
CO5	1	3	3	1	2	3	2	3	3	2	2	3	2	2
CO6	3	2	2	3	1	2	1	2	2	2	2	2	3	3
Average Pos	2.5	2.33	2.33	2.5	2.16	2.33	2.33	2.33	2.33	2.16	2.66	2.83	2.5	2.5

School: SSAHS Batch: 2023-2027



Br	anch:	III Semester	
Ph	vsiotherapy	III Schester	
1	Course Co to	DTD 007	
1.	Course Code		
2.	Course Title	Clinical Observation I	
3.	Hours/Week	6	
4.	Contact Hours (L-T-P)	0-0-3	
	Course Type	CC	
5	Course Objective	This course aims to study about the hospital settings and the basics of cli	inicals.
6.	Course	CO1-To make the student remember about the functions of hospital.	
	Outcomes	CO2- To understand about the hospital setting and patient communication CO3- To apply what they have learned about the hand hygiene, regardin confidentiality of patient. CO4- To analyse when and where to use about above things in clinical s	on. g the
		CO5: To apply what they have learned about the hand hygiene, regardin	g the
		confidentiality of patient. CO6: To design and formulate the necessary functions and clinical setup and clinical settings.	in hospital
7.	Course	This course is to teach the students the basic elements of hospita	l, make thei
	Description	aware with the basic medical terminologies and about the confidentiality.	the patient'
8.	Outline		CO
	Syllabus		Mapping
	Unit 1	Introduction to the Hospital	
	Α	Introduction to Hospital set-up	CO1, CO2
	В	Functions of Hospital	CO2, CO3 CO5
	С	Introduction to Physiotherapy OPD	CO4
	Unit 2	Communication	
	Α	To maintain good interpersonal relationship	CO3
	В	Patient to therapist	CO2, CO3
	С	Therapist to peer, other doctors	CO2, CO3
-	Unit 3	Confidentiality	
	A	Autonomy	CO4, CO3 CO2, CO6
	В	Privacy	CO2, CO3,CO4, CO6
		Promise keeping and Utility	C03, CO4 CO6
	Unit 4	Universal Precautions	
	Α	Medical hand hygiene practices	CO1, CO2, CO3
	D	Sustion Hypiona	CO4
	D	Suction rygiene	CO3, CO4
			000



				Vacci	nation										C	01, CO2	2,
0	2														C	03, CO4	4,
_															C	06	
U	Unit	t 5		Medic	al Ter	minolo	ogies										
A	1			Comp	onents	and pi	ocess	of hun	nan boo	ły					CO3, CO4,		
	_														CO5, CO6		5
F	3			Medica	al proc	edures	, disea	ses, dis	sorders						CO3, CO4,		1, <
(7			Dharm	acolog	X 7									CO5, CO6		<u>)</u>
, i	0			1 1141111	acolog	y									CO3, CO4,		
N	Mod	le of													0	05,00	_
E	Exa	ninat	ion														
V	Wei	ghtag	e	CA					ETH	3							
Ι	Dist	ributi	on	100													
1	Textbook/s*																
	I CALOUDINS																
POs	s	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSC	02	PSO3	l
CO	s																Ì
CO1	L	3	3	1	2	3	3	3	3	3	1	3	2		3	2	
CO2	2	3	3	3	3	1	2	2	1	2	3	1	3		3	3	
CO3	3	3	3	3	1	3	3	3	3	3	3	3	1		3	3	
CO4	1	3	3	2	3	2	3	3	2	3	2	3	3		1	2	
CO5	5	2	3	3	2	3	1	2	3	1	3	2	3		2	2	
COG	5	2	2	2	2	2	3	1	2	3	2	1	2		3	3	
Avera Pos	ge	2.66	2.83	2.33	2.16	2.33	2.5	2.33	2.33	2.5	2.33	2.16	2.33	2	.5	2.5	

Fourth Semester

School: B

Batch: 2023-2027



S	SAHS								
Pro	gramme:	•							
BP	Т								
B	ranch: BPT	Semester:4 th							
1	Course	PTB 211							
	Code								
2	Course	EXERCISE THERAPY							
	Title								
3	Credits	3							
4	Contact	3-0-0							
	Hours								
	(L-T-P)								
	Course	CC							
	Туре								
5	Course	In this course, the students will learn the principles and effects of exe	ercise as						
	Objective	therapeutic modality and will learn the techniques in the restoration of physi							
	-	functions.	I J						
6	Course	CO1: At the end of the year the student will be able: To understand& desc	ribe						
Ő	Outcomes	advanced therapeutic exercises							
		CO2:To be able to perform various types of stretching of upper limb & lo	wer limb						
		strengthening and use of walking aids.							
		CO3: To know the benefits of hydrotherapy, balance and coordination exe	rcise.						
		CO4: To acquire the skills of application of manual therapy to improve to	regain						
		maximum strength of muscles, its therapeutic uses and merits-demerits of	the sam						
		CO6: To formulate the various exercise Programme with required							
		measures							
7	Course	After the course on exercise therapy student will be able to understand the	e differer						
	Description	types of exercise for the benefit of patient in different situations							
		and conditions both in health and disease or disorder.							
8	Outline sylla	bus	CO						
	-		Mappi						
	Unit 1	Introduction to exercise therapy							
	А		CO1						
	D	Specific exercise regimens	CO1						
	B	Froprioceptive NeuromuscularFacilitation	C01						
	Unit 2	Verious forms of evencies	COI						
		Aerobic Evercise	CO2						
	B	Stretching and strengthening	CO2						
	C	Walking aids	CO2						
	Unit 3	Balance and posture	002						
	A	Balance	CO3						
			,						
			CO6						
	В	Co-ordinationExercise	CO3						
			│,						



				CO
С	Posture			CO
				, CO
Unit 4	Manual therapy			
А	Manual Therapy &l	Peripheral JointMobilization		CO
				, CO
В	Basics in Manual T	herapy & Applications with		CO
	clinical reasoning			, CO
С	.Maitland,mulligan,	Mckenzie, MuscleEnergyTechn	que,Myofascialstretc	CO
	hing,CyriaxNeuro I	Dynamic Testing		,
				CO
Unit 5	Other techniques			60
A	Hydrotherapy			,
				CC
В	Individual and Grou	upExercises		CC
				, CC
С	Suspension therapy			CO
				, CO
Mode of examination	Theory/Jury/Practic	al/Viva		
Weightage	СА	MTE	ETE	
Distribution	25%	25%	50%	
Text book/s*	 Kisner and Colby and Techniques Williams and Wi Hollis, Lab Exerce Gardiner, Princip Norkins& White to Goniometry Wood - W.B. Sat 	y. F.A. Davis, Therapeutic Exerc lkins, Therapeutic Exercise, Bas cise Therapy, Blackwell Scientif ble of Exercise Therapy, C.B.S. J F.A. Davis, Measurement of Jo unders, Beard's Massage.	rises Foundations smajian. Fic Publications. Delhi. Int Motion: A Guide	
Other References	Reference Books: 1. Butterworth Heir Campion .	nmann, Hydrotherapy, Principles	s and Practices,	



		2.	Kend	lal , M	luscle	testing	g and f	unctio	ns , W	lliams	& Wil	kins.		
		3.	Dani	els and	d Wor	thingh	am's -	Musc	le test	ing - Hi	islop &	Montg	gomery	
		- `	W.B.	Saund	er.									
		4.	Edm	ond M	osby	Manip	ulation	n and I	Mobili	zations	extren	nities a	nd	
		sp 5	Potor	ecnnic	jues,.	n Aa	untia I	Ivoroic	o Tho	rony V	VDS	undore		
		5.	Wad	sworth	I I inn	incott	Manu:	alexar	ninati	on and	treatme	aunuers	nine	
		ar	nd ext	remiti	es.	meote	10Iunu	ai entai	mmun	on and	ci cutilite	Jint OI 5	pine	
		7.	Marg	garett I	Hollis	, Mass	age fo	r thera	pist: N	Aargare	ett Holl	is		
	1		r	r	1		r	r	1	r	r	1	1	
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	3	3	2	1	2	3	3	3	1	3	2	3	3
CO2	1	2	3	3	3	3	3	3	2	3	1	3	2	1
CO3	3	3	3	3	3	1	3	3	3	3	3	1	3	3
CO4	2	3	1	2	2	3	3	3	3	2	3	3	3	2
CO5	3	1	2	2	3	2	2	3	1	3	2	3	2	3
CO6	2	3	3	3	2	2	2	2	3	2	1	2	1	2
Average Pos	2.33	2.5	2.5	2.5	2.33	2.16	2.66	2.83	2.5	2.33	2.16	2.33	2.33	2.33



Sc	chool: SSAHS	Batch: 2023-2027	
Pro	gramme: BPT	•	
Br	anch: SSAHS	Semester:4 th	
1	Course Code	PTB 212	
2	Course Title	Thermotherapy and Actinotherapy	
3	Credits	2	
4	Contact	2-0-0	
	Hours		
	(L-T-P)		
	Course Type	DSC	
5	Course	The objective of this course is that the student will be able to list the i	ndications
	Objective	and contraindications of various types of electrotherapeutic n	nodalities,
		demonstrate the different techniques, and describe their effects.	
6	Course	CO1: Able to Understand the use of superficial heating modalities	
	Outcomes	CO2: Able to select the appropriate modalities in different	
		conditions	
		CO3: Able to select the appropriate dosages of different Electrother	apy
		CO4: Demonstrate the indication and contraindications of various r	nodalities
		CO5: Demonstrate the treatment time, intensity according	to the
		Acute, subacute & chronic conditions for different type of modalitit	es
		CO6: To demonstrate the formulate the applicability of various mod	dalities.
7	Course	In this course the student will learn the principles, technique, and	effects of
-	Description	thermotherapy and actinotherapy as atherapeutic modality in the res	toration of
		physical function.	
8	Outline svllabu	IS	CO
-			Mapping
	Unit 1	SUPERFICIAL HEATING MODALITIES	11 0
	А	Wax Therapy, Contrast Bath, Moist Heat Therapy Method	C01,C0
		of Application Therapeutic Uses, Indications and	2
		Contraindications.	
	В	Fluidotherapy, WhirlPool Bath Method of	C01.C0
		Application, Therapeutic Uses, Indications &	2
		Contraindications	_
	C	Cryotherapy: Principle Physiological Therapeutics effects	CO1 CO
	e	Techniques of Applications Indications& Contraindications	2
		Dangers, and Methods of application with dosages.	
	Unit 2	UVR and IRR	
	А	Ultra – violet rays (UVR):	CO2,CO
		Wavelength, frequency, types & sources of UVR generation,	3
		techniques of irradiation, physiological& therapeutic effects,	
		indications, contraindications, precautions, Dosimetry of UVR.	
	В	Infra red rays - Wavelength, frequency, types & sources of IRR	CO2,CO
		generation, techniques of irradiation, physiological & therapeutic	3
		effects indications contraindications precautions	



С	operational skills of equipment & patient preparation.	CO2,C								
	X 4 GPD	3								
Unit 3	LASER	<i></i>								
A	Light Amplification of stimulated Emission of Radiation	CO3,								
	(LASER)– Definition, historical background, physical	CO4,								
D	Principles. precautions, operational skills and patient preparation	C06								
В	biophysical effects, types, production, therapeutic	CO3,								
	Effects, techniques of application, indications, contraindications.	CO4,								
		CO6								
С	precautions, operational skil\ls and patient preparation	CO3,								
		CO4,								
		CO6								
Unit 4	HIGH FREOUENCY CURRENTS									
A	Physiological responses to heat gain or loss onvarious tissues of	CO3.								
	the body.									
	Therapeutic effects of heat, cold, Physical principles of Electro –	CO6								
	magnetic radiation. , Physics of sound including characteristics									
	andpropagation									
В	High frequency currents (S.W.D.) Production, biophysical effects,									
	types, therapeutic effects, techniques of application, indications,									
types, therapeutic effects, techniques of application, indications, contraindications, precautions, operational skills and patient										
	contraindications, precautions, operational skills and patient preparation. High frequency sound waves (Ultrasound): Production									
C	High frequency sound waves (Ultrasound): Production,									
e	biophysical effects, types, therapeutic effects, techniques of									
	application indications contraindications									
	application, indications, contraindications,	000								
Tinit 5	Combination Theorem.									
Unit 5		CO4								
А	US + TENS	C04,								
		CO5,								
		CO6								
В	US+ electrical stimulation therapy	CO4,								
		CO5,								
~		CO6								
С	Recent advances for combination therapy	CO4,								
		CO5								
Mode of	Theory/Jury/Practical/Viva									
examination										
Weightage	CA MTE ETE									
Distribution	25% 25% 50%									
Text book/s*	1. Clayton"s Electro Therapy, CBS Publishers & Distributors									
	2. Low & Read. Electro therapy Explained Butterworth-									
	Heinemann Limited, 2000									
Other	1. Therapeutic heat and cold by Lehmann.									
References	2. Principle and practice of Electrotherapy by Joseph Kahn									
-	2. Frinciple and practice of Electrotherapy by Joseph Kahn.									



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
C01	3	1	3	2	3	2	3	3	1	2	3	3	3	3
CO2	2	3	3	3	1	3	1	2	3	3	2	1	3	3
CO3	3	3	3	3	3	1	3	3	3	1	3	3	3	3
CO4	3	2	1	2	3	3	2	3	2	3	3	2	3	3
CO5	1	3	2	2	2	3	3	1	3	2	2	3	2	3
CO6	3	2	3	3	1	2	2	3	2	2	1	2	2	2
Average Pos	2.5	2.33	2.5	2.5	2.16	2.33	2.33	2.5	2.33	2.16	2.33	2.33	2.66	2.83



Pro	gramme: BPT		
Br	anch: BPT	Semester: 4 th	
1	Course Code	PTR 213	
1 2	Course Title	MEDICAL DUVSIOTHED ADVIAW & ETHICS	
2	Cradite	MEDICAL FITISIOTHERAFT LAW & ETHICS	
5 Л	Contact	2 2 0 0	
+	Hours	2-0-0	
	(I T P)		
	(L-I-F)	<u> </u>	
5	Course Type	To know about evolution of Dhysiothereny, identify verious laws	and
5	Objective	regulation that should be followed during clinical practice of Phys Therapy.	ical
6	Course Outcomes	 CO1: On completion of the course the students should be able to be medical law and ethics CO2: Able to know the legal and illegal issues faced in hospital CO3: The students should understand the code of ethics for physic CO4: They will be able to treat patient more lawfully in clinical and setting and maintain their records. CO5: Understand the importance of Ethics in the relative field & be concepts of Ethics. CO6: To formulate treatment and assessment keeping the ethical at law under considerations. 	cnow the otherapist nd hospital pasic and medica
7	Course	The students will enable to know about evolution of Physiotherap	y, identify
	Description	various laws and regulation that should be followed during clinic	al practice
		of Physical Therapy.	-
8	Outline syllabu	15	CO
	-		Mapping
	Unit 1	Medical ethics versus medical law	
	А	Introduction to Code of conduct	C01,C0
	В	Basic principles of medical ethics–Confidentiality	C01.C0
	С	Malpractice and negligence-Rational and irrational drug therapy	C01,C0
	Unit 2	Autonomy and informed consent-Right of patients	
	A	Care of the terminally ill-Euthanasia	CO2,CO
	В	Organ transplantation	CO2,CO
	С	Medical diagnosis versus physiotherapy diagnosis	CO2,CO
	Unit 3	Medicolegal Aspects of Medical Records	
		Medico legal case and type-Records and document related to	CO3
	А	incluies negativase and type needed and document related to	005,
	A	MLC- ownership of medical records-	CO6
	A B	MLC- ownership of medical records- Confidentiality Privilege communication	CO6 CO3,
	A B	MLC- ownership of medical records- Confidentiality Privilege communication	CO6 CO3, CO6
	A B C	MLC- ownership of medical records- Confidentiality Privilege communication Release of medical information- Unauthorized	CO6 CO3, CO6 CO3,


Unit 4	Professional	Indemnity ins	surance policy	
А	Development	of standardize	d protocol to avoid near miss or	CO4,
	sentinel event	ts		CO6
В	Obtaining an	informed cons	ent	CO4,
				CO6
С	Biomedical e	thical principle	s	CO4,
				CO6
Unit 5	Code of ethic	es		
А	Code of ethic	s for physiothe	rapists	CO5,
				CO6
В	Ethics docum	ents for physic	therapists	CO5,
				CO6
С	Laws affectin	g physiotherap	by practice	CO5,
				CO6
Mode of	Theory/Jury/I	Practical/Viva		
examination				
Weight age	CA	MTE	ETE	
Distribution	25%	25%	50%	
Text book/s*				
Other				
References				

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	2	3	3	3	1	3	3	3	2	1	2	3	3
CO2	1	3	2	1	2	3	3	3	3	3	3	3	1	2
CO3	3	1	3	3	3	3	3	3	3	3	3	1	3	3
CO4	3	3	3	2	3	2	3	3	1	2	2	3	2	3
CO5	2	3	2	3	1	3	2	3	2	2	3	2	3	1
CO6	1	2	1	2	3	2	2	2	3	3	2	2	2	3
Average Pos	2.16	2.33	2.33	2.33	2.5	2.33	2.66	2.83	2.5	2.5	2.33	2.16	2.33	2.5



-	gramme. Dr 1	•								
Br	anch:	Semester: IV								
Ph	ysiotherapy									
1	Course Code	PTB 214								
2	Course Title	ERGONOMICS								
3	Credits	1								
4	Contact	1-0-0								
	Hours									
	(L-T-P)									
	Course Type	DSC								
5	Course	The objective of this course is that after 60 hrs of lectures and dis	cussion the							
	Objective	student will be able to demonstrate an understanding of various aspects of								
		health and disease list the methods of health administration, health	h education							
		and disease preventive measures.								
6	Course	CO1: To understand concept of ergonomics								
	Outcomes	CO2: To understand the posture and body mechanics								
		CO3: To demonstrate an understanding for designing the equipm	ents							
		and workplace.								
		CO4: To understand the assessment of various work-related musc	culoskeletal							
		conditions								
		CO5: To understand the rehabilitation of various work-related								
		musculoskeletal conditions.								
		CO6: To design the lifestyle modifications for better ergonomics.								
7	Course	Subject follows the basic science to provide the knowledge about	ergonomics							
	Description	and conditions the therapist would encounter due to workplace st	ress and							
		injuries.								
8	Outline syllab	us	CO							
			Mapping							
-	Unit 1	Introduction								
	Α	Focus of ergonomics, Ergonomics and its areas of application in the	CO1,							
		work system	CO2							
	В	Brief history of ergonomics, Modern ergonomics	CO3,							
			CO4							
	C	Attempts to 'humanise' work, Effectiveness and cost effectiveness,	CO4,							
		Future directions for ergonomics	CO5							
	Unit 2	Posture and body mechanics								
	А	Basic body mechanics, Postural stability and postural adaptation	CO2,							
			CO4,							
		Disk factors for mycaulaskal-tal-lin-ulaus in the media								
	В	Risk factors for musculoskeletal disorders in the workplace,	CO3,							
		Behavioural aspects of posture	CO5,							
			CO6							
		West service stars and fact and								
	1 C	work capacity, stress and fatigue	CO4							



				CO5, CO6
Unit 3	Designing equipm	ent, static w	ork, and repetitive task.	
A	Anthropometrics p	rinciples in w	orkplace and its uses in erganomics	CO1.
	1 1	1		CO2.
				CO6
В	Fundamental aspe	ects of stand	ing and sitting, design for standing	CO3,
	workers and sittir	ng workers,	Ergonomics approach to workstatio	on CO4.
	design, workspac	e and visual	units	CO6
С	Design for manua	al handling t	asks, carrying.	CO4,
				CO5,
				CO6
Unit 4	Work place relation	ted Muscul	oskeletal disorders	
А	Upper back			CO2,
				CO4,
				CO6
В	Lower back			CO3,
				CO5,
				CO6
С	Upper limb and lo	ower limb.		CO4,
				CO5,
				CO6
Unit 5	Assessment and	rehabilitati	on.	
А	Musculoskeletal As	ssessment		CO1,
				CO4,
				C06
В	Rehabilitation			CO2,C
C	Madifications			,000
C	Modifications			C01,
				CO6
Mode of examination	Theory/Jury/Prac	tical/Viva		
Weightage	CA	MTE	ETE	-
0 0	25%	25%	50%	-
Distribution	2370	2570	5070	



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	5	5	5		5	5	5	5	5		5	1	5	1
CO4		2	2	3	1	2	3		3	2		3	2	3
CO5	2	3	3	1	2	2	2	3	1	3	2		3	2
CO6	1	2	2	3	3	3	2	2		2	1	2	2	
Average Pos	2. 2	2. 6	2. 2	2 4	2.5	2 4	2. 6	2. 8	2 4	2.2	2	2.2	2.2	2. 2

1-Slight (Low)

2-Moderate (Medium) 3-Substantial (High)



Branch: SSAID Semester: 4" 1 Course Code PTB 215 2 Course Title MICROBIOLOGY 3 Credits 2 4 Contact 2-0-0 Hours (L-T-P) Course Type Course Type CC 5 Course The student will be able to Understand the importance of sterilization & the noinfection and its prevention in the relative field. 6 Course At the end of the course, the student will be able to Outcomes CO1: Acquire the knowledge of introduction of microbiology CO2: to understand the immunological reaction and Acquire knowledge CO3: Acquire the knowledge of concepts sterilization and disinfection CO4: to understand the concept of laboratory diagnosis of infection CO5: Understand in brief, about the general classification of micro ora and applied microbiology CO6: To create the possible analysis and mechanisms involved in the microbial diversity and lab diagnosis. 7 Course Description The course is designed to develop the basic knowledge about the co uing nosocomial infections and precautionary measures to protect acquiring infections. The knowledge	n		•							
1 Course Code PTB 215 2 Course Title MICROBIOLOGY 3 Credits 2 4 Contact 2-0-0 Hours (L-T-P) Course Type CC 5 Course of microbiology, the importance of sterilization & the no. infection and its prevention in the relative field. 6 Course At the end of the course, the student will be able to Outcomes CO1: Acquire the knowledge of introduction of microbiology CO2: to understand the immunological reaction and Acquire knowledg 0 common immunological disorders and their resultant effects on the hur body CO3: Acquire the knowledge of concepts sterilization and disinfection CO4: to understand the concept of laboratory diagnosis of infection CO4: to understand the concept of laboratory diagnosis of infection CO5: Understand in brief, about the general classification of micro ora and applied microbiology 7 Course The course is designed to develop the basic knowledge about the cot injury, its healing process and its resultant effects on the human body. Microbiology involves the study of common organisms causing including noscormial infections and precautionary measures to protect a acquiring infections. The knowledge and understanding Microbioled diseases is essential to institute appropriate treatment or suggest preasures to the patient. Particular effort is made in this course to avoid burdening the student. 8 Outline syllabu	Br	anch: SSAHS	Semester:4 th							
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4 Contact Hours (L-T-P) 2-0-0 Course Type CC 5 Course Type 6 Course 7 Course Description 7 Course Description 7 Course Description 8 Outline syllabus 7 Course Description 7 Course Description 7 Course Description 7 Course Description 7 Course Description 8 Outline syllabus 6 Outline syllabus	3	Credits	2							
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8 Outline syllabus Comparison 8 Unit 1 Introduction of Microbiology and Immunology: Comparison 1 Microbiology Comparison 1 Microbiology Comparison 2 Outline syllabus Comparison 2 Course Comparison 3 Outline syllabus Comparison 4 Course Comparison 5 Outline syllabus Comparison 2 Comparison Comparison 2 Comparison Comparison 3 Outline syllabus Comparison 4 Comparison Comparison 4 Comparison Comparison 5 Outline syllabus Comparison 6 Comparison Comparison 7 Comparison Comparison 8 Outline syllabus Comparison 9 Comparison Comparison 9 Comparison Comparison 9 Comparison Comparison 9 Comparison Comparison			CO6: To create the possible analysis and mechanisms involved in t	he						
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8 Outline syllabus COMM Unit 1 Introduction of Microbiology and Immunology: A 1)Medical terminologies , Importance and applications of medical microbiology COMM 2) Sterilization COMM			burdening the student.	, ora						
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2) Sterilization			medical microbiology							
			2) Sterilization							
3) Antiseptic and disinfection			3) Antiseptic and disinfection							



В	Immune system	CO1
	1) Organ and cells involved in immune response	
	2) Antigen	
	3) Immunoglobulins (antibody)	
	4) Antigen – antibody reaction	
	5) Innate and acquired immunity	
	6) Hypersensitivity	
	7) Immunity (vaccines)	
C	Hypersensitivity & auto-immunity -	CO1 CO6
C	Definition Classification Anaphylaxis – mechanism	001,000
	manifestations & tests for Anaphylaxis definitions of	
	autoimmunity, Classification& Mechanism.	
Unit 2	Sterilization & disinfection	
А	Definition of Sterilization, Disinfection, Enumeration of	CO2,
	physical methods of sterilization including principles and their	CO3, CO6
	Applications, commonly used Disinfectants.	
В	Hospital Acquired Infection	CO2,
	Must know - Definition, factor influencing infection, mode of	CO3, CO6
	transmission & prevention of MAI.	
С	Universal safety precautions, definition of waste classification,	CO2,
	segregation Transport & disposal	CO3, CO6
Unit 3	Laboratory diagnosis of Infection	
Α	Host parasite relationship & bacterial infections.	CO4, CO6
	 Different sources and modes of transmission of infection, 	
	microbial factors leading to establishment of infection.	
В	Methods of identification of bacteria -	CO4, CO6
	- Principle of laboratory diagnosis of infectious	
~	diseases, General procedure for collection	
С	Diagnosis of infectious diseases.	CO4, CO6
	Transport and processing of specimen for Microbial diagnosis.	
Unit 4	General classification of microorganisms & characteristics	~~~
Α	Bacteriology:	CO5
	2)Classification of bacteria & characteristics	~~~
В	Systemic bacteriology: Introduction, general features,	CO5
	pathogenicity, diagnosis, treatment	
	and prevention Mycobacterium tuberculosis. Mycobacterium leprae	
	COVID	
С	SARS	CO5
	SWINE Flu	
	Ebola	
Unit 5	Introduction, general features	CO5,
	diagnosis, treatment and prevention	CO6
А	1. Polio virus	CO5, CO6
	2. Hepatitis	
1		



			4. HIV	r										
C			Applie 1)Hosj 2)Cent	ed Mie pital ae ral ne	crobio cquire rvous	logy d infe Syste	ction m infe	ctions					CC	05, CO
Mode of Theory/Jury/Practical/Viva														
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			25%			25%	6	-		50%				
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POs COs CO1 CO2 CO3	PO1 3 2 3	PO2 3 1 3	PO3 3 3 3	PO4 3 3 3	PO5 3 1 3	1 Mic: n PO6 3 2 3	PO7 1 3 3	PO8	PO9 3 2 3	Arya p a S Sas PO10 1 3 3	PO11 3 1 3	PSO1 2 3 1	dhyaBh PSO2 3 3 3	at, PSO3 2 3 3
POs COs CO1 CO2 CO3 CO4	PO1 3 2 3 3	E J. PO2 3 1 3 2	PO3 3 3 3 3 3	PO4 BO4 BO4 BO4 BO4 BO4 BO4 BO4 BO4 BO4 B	PO5 3 1 3 2	1 Mic n PO6 3 2 3 3 3	PO7 1 3 3 2	PO8 2 3 1 3	PO9 3 2 3 3	Arya p a S Sas PO10 1 3 3 2	POI1 POI1 3 1 3 3	PSO1 2 3 1 3	PSO2 3 3 3 1	at, PSO3 2 3 3 2
POs COs CO1 CO2 CO3 CO4 O5	PO1 3 2 3 3 3 2	E J. PO2 3 1 3 2 3	PO3 3 3 3 3 2	PO4 PO4 3 3 3 3 3 3	PO5 PO5 3 1 3 2 3	PO6 3 2 3 3 1	PO7 PO7 1 3 2 3	PO8 2 3 1 3 2	PO9 3 2 3 3 1	Arya p a S Sas PO10 1 3 3 2 3	PO11 PO11 3 1 3 2	PSO1 2 3 1 3 3 3	PSO2 3 3 3 1 2	at, PSO3 2 3 3 3 2 2 2
POs COs CO1 CO2 CO3 CO4 O5 CO6	PO1 3 2 3 3 2 1	E J. PO2 3 1 3 2 3 2 2	PO3 PO3 3 3 3 3 3 2 2 2	PO4 PO4 3 3 3 3 3 2	PO5 PO5 3 1 3 2 3 2 2	PO6 3 2 3 3 1 3	PO7 1 3 3 2 3 2	PO8 PO8 2 3 1 3 2 2 2	PO9 3 2 3 1 3	Arya p a S Sas PO10 1 3 3 2 3 2 2 2	PO11 3 3 2 1	PSO1 PSO1 2 3 1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PSO2 3 3 3 1 2 3	at, PSO3 2 3 3 2 2 2 3



Sch	100l:	Batch: 2023-27	
SS	AHS		
Pro BP	ogramme: T	4 th Semester	
1.	Course Code	PTB 216	
2.	Course Title	Quality Assurance in Clinics	
3.	Credits	2	
4.	Contact Hours (L-T-P)	2-0-0	
	Course Type	DSC	
5	Course Objective	This course aims to study about the Quality Assurance in Clinical setti	ng.
6.	Course Outcomes	CO1: To make them remember about the Quality assurance in hospital CO2-: To make them understand about the importance of medical record the health care evaluation. CO3: To apply what they have learned about the quality assurance syst CO4: To analyse when and where to use about above things in clinical CO5: To appraise the qualitative aspects of clinical practice in different CO6: to design quality process flow and SOPs for physiotherapy clinical constraints.	s. ords and about tem setup tt settings. cs
7.	Course Description	This course is to teach the students about the quality assurance in settings	n clinical
8.	Outline Syllabus		CO Mapping
	Unit 1	Introduction to Quality Assurance	
	Α	Define Quality Assurance	CO1, CO2
	В	Quality requirements	CO2, CO3
	С	Types of Quality System	CO4
	Unit 2	Ouality of Medical Record Content	
	A	Quality training in departments	CO3
	В	Assessment Record	CO2, CO3
	С	Progress sheets	CO2, CO3
	Unit 3	Health Care Evaluation	
	A	To promote effective and efficient use of avail-able health facilities	CO4, CO3
	В	To identify and analyse patterns of patient care	CO2, CO3,CO4
		Appropriateness of medical care for most frequent diagnosis	C03, CO4
	Unit 4	Credentials	
	Α	evaluation of the physician's Curriculum Vitae,	CO1, CO2, CO3 CO4
	В	Results of all Quality Assurance activities	CO1, CO2 CO3, CO4
	С	copies of current licenses	CO1, CO2 CO3, CO4
	Unit 5	Annual Review	
	٨	Revision on annual basis	CO1. CO2



В			Evider	nce of 1	review	/							CC	D1, CO2	<u>,</u>
													CC	03, CO4	ŀ
С			Docun	nentati	on of	changes	5						CC	D1, CO2	2,
													CC	03, CO4	ŀ
Mo	de of		Theor	у											
Exa	minat	tion													
We	ightag	ge (MTE			CA]	ETE						-
Dis	tribut	ion	25%			25%		4	50%						
Тех	tbook	/s*													
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	1
COs															

COs														
CO1	3	3	3	3	3	3	1	2	3	1	3	2	3	2
CO2	2	1	3	3	1	2	3	3	2	3	1	3	3	3
CO3	3	3	3	3	3	3	3	1	3	3	3	1	3	3
CO4	3	2	3	3	2	3	2	3	3	2	3	3	1	2
CO5	2	3	2	3	3	1	3	2	1	3	2	3	2	2
CO6	1	2	2	2	2	3	2	2	3	2	1	2	3	3
Average														
Pos	2.33	2.33	2.66	2.83	2.33	2.5	2.33	2.16	2.5	2.33	2.16	2.33	2.5	2.5



Practical

S	chool:	Batch: 2023-2027									
S	SAHS										
Pro	ogramme:	•									
BP	Т										
B	ranch:	Semester:4 th									
SS	SAHS										
1	Course	PTB 241									
	Code										
2	Course	EXERCISE THERAPY (PR)									
	Title										
3	Credits	1									
4	Contact	0-0-2									
	Hours										
	(L-T-P)										
	Course	CC									
	Туре										
5	Course	In this course, the students will learn the principles and effects	of exercise as a								
	Objective	therapeutic modality and will learn the techniques in the restoration of physic									
		functions.									
6	Course	CO1:At the end of the year the student will be able: To understand	& describe								
	Outcomes	advanced therapeutic exercises									
		CO2: To be able to perform various types of stretching of upper limit	b & lower limb,								
		strengthening and use of walking aids.									
		CO3: To know the benefits of hydrotherapy, balance and coordinate CO4: To acquire the skills of application of manual therapy to impr	ion exercise.								
		maximum strength of muscles, its therapeutic uses and merits-demerits of the same.									
		CO5. To demonstrate various techniques hydrotherapy, suspension	therapy.								
		CO6: To formulate the various exercise Programme with required measures.									
7	Course	After the course on exercise therapy student will be able to understand the									
	Description	different types of exercise for the benefit of patient in different situations and									
	_	conditions both in health and disease or disorder.									
8	Outline sylla	hus	CO Manning								
0	Unit 1	Introduction to exercise therapy	CO Mapping								
		Introduction to excretise therapy	CO1								
	11	Specific exercise regimens	001								
	В	Proprioceptive Neuromuscular Facilitation : UPPER LIMB,	CO1								
		LOWER LIMB, TRUNK									
	С	Functional Re-education	CO1								
	Unit 2	Various forms of exercise									
	А	Aerobic Exercise	CO2								
	В	Stretching and strengthening	CO2								
C Walking aids : types and uses CO2											
	Unit 3	Balance and posture									
	А	Balance : tests CO3, CO6									
	В	Co-ordination Exercise · equilibrium and non equilibrium test	CO3 CO6								



С		Р	osture										(CO3, CC
Unit	t 4	N	lanua	l ther	apy									
А		N	Ianual	Thera	apy &l	Periph	eral Jo	oint Mo	obiliza	ation			(CO4, CC
В		В	asics i	in Mai	nual T	herapy	y &Ap	plicati	ons w	ith			(CO4, CC
		cl	inical	reason	ning									
С		.N	Aaitlaı	nd, mu	ılligan	, Mck	enzie,	Muscl	leEner	gyTech	nnique,		(CO4, CC
		N	Iyofas	cialst	retchi	ng,Cy	riaxNe	uro D	ynami	c Testi	ng			
Unit	t 5	0	ther t	echni	ques									
А		Н	ydrotł	nerapy	,								0	CO5, CC
В		Ir	divid	ual an	d Grou	ıp Exe	ercises						(CO5, CC
С		S	uspens	sion th	erapy								(CO5, CC
Mod	le of	Т	heory	/Jury/I	Practic	al/Viv	va 🛛							
exar	ninatio	on												
Wei	ghtage	e C	A					Μ	ITE			ETE		
Dist	ributio	$n \frac{1}{2}$	- 5%					-				75%		
Text	t	1	Kisn	er and	Colby	ΤΕΔ	Davis	Ther	aneuti	ic Ever	rises E	oundati	ons and	1
Othe	Text 1. Kisner and Colby. F.A. Davis, Therapeutic Exercises Foundations book/s* book/s* Techniques 2. Williams and Wilkins, Therapeutic Exercise, Basmajian. 3. Hollis, Lab Exercise Therapy, Blackwell Scientific Publications. 4. Gardiner, Principle of Exercise Therapy, C.B.S. Delhi. 5. Norkins& White F.A. Davis, Measurement of Joint Motion: A Gui Goniometry Wood - W.B. Saunders, Beard's Massage. Other References 1. Butterworth Heinmann, Hydrotherapy, Principles and Practices , C 2. Kendal , Muscle testing and functions , Williams & Wilkins. 3. Daniels and Worthingham's - Muscle testing - Hislop & Montgome W.B. Saunder. 4. Edmond Mosby Manipulation and Mobilizations extremities and spitechniques,. 5. Bates and Hanson , Aquatic Exercise Therapy , W.B. Saunders. 6. Wadsworth Lippincott Manual examination and treatment of spine extremities. Margarett Hollis							s, Cam gomery nd spina	to pion . - al d					
POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	3	2	1	2	3	3	3	1	3	2	3	3
CO2	1	2	3	3	3	3	3	3	2	3	1	3	2	1
CO3	3	3	3	3	3	1	3	3	3	3	3	1	3	3
	2	3	1	2	2	3	3	3	3	2	3	3	3	2
CO4			2	2	3	2	2	3	1	3	2	3	2	3
CO4 CO5	3	1	-											
CO4 CO5 CO6	3	1	3	3	2	2	2	2	3	2	1	2	1	2



S	chool:	Batch: 2023-2027	
S	SAHS		
ro	ogramme:	•	
3P D-	l		
BI	cancn: BP1	Semester:4 th	
1	Code	P1B 242	
2	Course	Thermotherapy and Actinotherapy (PR)	
3	Cradita	1	
3 1	Contact		
+	Hours (L-T-P)		
	Course Type	CC	
5	Course Objective	The objective of this course is that the student will be able to list the ind contraindications of various types of electrotherapeutic modalities, dem different techniques, and describe their effects.	ications and ionstrate the
6	Course Outcomes	 CO1: Able to Understand the use of superficial heating modalities CO2: Able to select the appropriate modalities in different conditions CO3: Able to select the appropriate dosages of different Electrotherapy is to achieve the different goals CO4: Demonstrate the indication and contraindications of various modal CO5: Demonstrate the treatment time, intensity according to the Acute, se chronic conditions for different type of modalitites CO6: To demonstrate the formulate the applicability of various modalities 	nodalities lities subacute & es.
7	Course Description	In this course the student will learn the principles, technique, and thermotherapy and actinotherapy as atherapeutic modality in the re- physical function.	l effects o storation o
8	Outline sylla	bus	CO
	-		Mapping
	Unit 1	SUPERFICIAL HEATING MODALITIES	
	А	Wax Therapy, Contrast Bath, Moist Heat Therapy Method of Application, Therapeutic Uses, Indications & Contraindications.	CO1, CO2
	В	Fluidotherapy, WhirlPool Bath Method of Application, Therapeutic Uses, Indications & Contraindications	CO1, CO2
	С	Cryotherapy: Principle, Physiological Therapeutics effects, Techniques of Applications, Indications& Contraindications, Dangers, and Methods of application with dosages.	CO1, CO2, CO6
	Unit 2	UVR and IRR	
	A	Ultra – violet rays (UVR): Wavelength, frequency, types & sources of UVRgeneration, techniques of irradiation, physiological& therapeutic effects, indications, contraindications precessions Designates of UVR	CO2, CO3



В	Infra red rays – W generation, technic effects indications	avelength, frequen- ques of irradiation,	cy, types & physiologi	sources of IRR cal & therapeutic	CO2, CO3, CO				
C	operational skills	s, contraindications	iont propor	ation	CO2				
C	operational skills o	or equipment & par	iem prepar	ation.	CO_2				
Ilmit 2	LASED				005,00				
	LASER Light Amplification	n of stimulated En	viscion of I	adiation	CO3				
A	(LASED) Definit	ion historical had	iissioii oi i	variant	C03, C04, C0				
	(LASER)- Definit	ion, nistorical daci	ground, pr		04,00				
D	Principles: precautions, operational skins and patient preparation								
В	biophysical effects	hophysical effects, types, production, therapeutic							
	Effects, technique	s of application, in	lications, c	ontraindications.	000				
С	precautions, opera	tional skills and pa	tient prepa	ration	CO3,				
	1 1	1			CO4, CC				
Unit 4	HIGH FREQUE	NCY CURRENTS	6		,				
A	Physiological rest	onses to heat gain	n or loss o	nvarious tissues of the	CO3.				
	body.	U			CO4, CC				
	Therapeutic effect	ets of heat, cold,	Physical p	orinciples of Electro -					
	magnetic radiation	on. , Physics of	sound in	cluding characteristics					
	andpropagation								
В	High frequency	currents (S.W.D.)	Productio	n, biophysical effects,	CO3,				
	types,therapeutic	effects, techniq	ues of	application, indications,	CO4, CC				
	contraindications,	precautions, operation	onal skills	and patient preparation.					
С	High frequency s	ound waves (Ultr	asound): H	Production, biophysical	CO3.				
-	effects, types, ther	apeutic effects, tecl	niques of	application, indications,	CO4, CC				
	contraindications,	precautions, operat	ional skills	and					
	patient preparation	1.							
Unit 5	Combination The	erapy			CO4 CO				
A	US + 1EINS	aulation themens			CO4,CO				
Б	DS+ electrical still	or combination the			CO4,CO				
C Mode of	Theory/Jury/Proct	icol/Wiyo	ару		04,00				
would be of	Theory/July/Flact	ical/ v Iva							
Waiahtaaa	C A	MTE		ETE					
Distribution	CA 250/	MIE		EIE 75%					
Tavt	1 Clayton"a Float	ro Therapy CDC D	ublicharc	7.5%					
hook/s*	1. Clayton S Elect	loatro thorany E	ained Dret	c Distributors					
0000/3	2. LOW & Kead, E	lectro therapy Expl	amed ,But	erworth-Heinemann					
01	Limited, 2000								
Other	1. Therapeutic heat and cold by Lehmann.								
Keterences	 Principle and practice of Electrotherapy by Joseph Kahn. Electrotherapy Clinics in physical therapy. Wolf. 								
	5. Electrotherapy:	Clinics in physical	tnerapy- V	VOII.					



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	1	3	2	3	2	3	3	1	2	3	3	3	3
CO2	2	3	3	3	1	3	1	2	3	3	2	1	3	3
CO3	3	3	3	3	3	1	3	3	3	1	3	3	3	3
CO4	3	2	1	2	3	3	2	3	2	3	3	2	3	3
CO5	1	3	2	2	2	3	3	1	3	2	2	3	2	3
CO6	3	2	3	3	1	2	2	3	2	2	1	2	2	2
Average	25	2 22	25	25	2 16	2 22	2 22	25	2 22	2 16	2 22	2 22	2 66	2 83
r05	2.5	2.33	2.3	2.5	2.10	2.33	2.33	2.3	2.33	2.10	2.33	2.33	2.00	2.05



S	chool:	Batch: 2023-2027	
S	SAHS		
Pr	ogramme:	•	
BP	Ť		
B	ranch:	Semester: IV	
P	hysiotherapy		
1	Course Code	PTB 243	
2	Course Title	ERGONOMICS (PR)	
3	Credits	1	
4	Contact	0-0-2	
	Hours		
	(I -T-P)		
	(ETT)	CC	
	Type		
5	Course	The objective of this course is that after 60 hrs of lectures and dis	cussion the
5	Objective	student will be able to demonstrate an understanding of various a	spects of
	esjeente	health and disease list the methods of health administration, health	h education
		and disease preventive measures.	
6	Course	CO1: To demonstrate concept of ergonomics	
	Outcomes	CO2: To demonstrate the posture and body mechanics	
		CO3: To demonstrate an understanding for designing the equipm	ents
		and workplace.	
		CO4: To demonstrate the assessment of various workre	elated
		musculoskeletal conditions	
		CO5:To demonstrate the rehabilitation of various work related	
		musculoskeletal conditions	
		CO6: To design the lifestyle modifications for better ergonomics.	
7	Course	Subject follows the basic science to provide the knowledge about	ergonomics
	Description	and conditions the therapist would encounter due to workplace str	ress and
		injuries.	
8	Outline syllab	bus	CO
			Mapping
	Unit 1	Introduction	
	Α	Focus of ergonomics, Ergonomics and its areas of application in the	CO1, CC
		work system	
	B	Brief history of ergonomics, Modern ergonomics	CO3, CC
	C	Attempts to 'humanise' work, Effectiveness and cost effectiveness,	CO4, CC
	11 .4 0	Future directions for ergonomics	
	Unit 2	Posture and body mechanics	000.00
	A	Basic body mechanics, Postural stability and postural adaptation	CO2, CC
	в	Risk factors for musculoskeletal disorders in the workplace,	C03,
	C	Benavioural aspects of posture	
	U	work capacity, stress and ratigue	CO4, CC
	Unit 5	Designing equipment, static work, and repetitive task.	



A			Anthro	pometr	ics pri	nciples	s in wo	rkplac	e and it	s uses ii	n ergano	omics		CO CO	1, 2. CO		
В			Fundar worker design	mental s and work	aspec sitting	cts of s g work and y	standin ers, E	ng and rgono mits	l sitting mics aj	g, desig pproach	n for st 1 to wo	anding rkstatio	n	CO CO	3, 4, CO		
С			Design	for m	anual	handl	ing tas	sks, c	arrying					CO4,			
							Ū							CO	5, CO		
Uni	t 4		Work	place	relate	ed Mu	sculos	skelet	al diso	rders							
A			Upper back												2, 4, CO		
В			Lower back												3, 5, CO		
С			Upper limb and lower limb.												CO4,		
															5, CC		
Uni	t 5		Assessment and rehabilitation.														
А			Musculoskeletal Assessment										CO1, CO4				
В			Rehabilitation											CO2,CO			
															6		
С			Modifications											CO1,			
														CO	5, CC		
Mod	de of		Theory	//Jury/	Practi	cal/Vi	va										
exai	minati	on															
Wei	ghtage	e [CA			MTE	2	E	ГЕ								
Dist	ributio	on	25% 25% 50%														
Tex	t		2. Intro	oductio	on to I	Ergono	omics,	R. S.	Bridge	er							
boo	k/s*																
Os	PO1	PO	2 PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	Р	SO2	PSO3		
Os																	
01	3		2 3	3	3	1	1	2	3	3	3	2		3	3		

Average Pos	2.16	2.33	2.66	2.83	2.5	2.33	2.33	2.16	2.33	2.5	2.5	2.5	2.33	2.33
CO6	1	2	2	2	3	2	2	2	2	3	3	3	1	2
CO5	2	3	2	3	1	3	3	2	3	1	2	2	2	3
CO4	3	3	3	3	3	2	2	3	2	3	1	2	3	2
CO3	3	1	3	3	3	3	3	1	3	3	3	3	3	3
CO2	1	3	3	3	2	3	3	3	1	2	3	3	2	1
C01	3	2	3	3	3	1	1	2	3	3	3	2	3	3
COs														



Pro	gramme:		
BP	Г		
Br	anch: BPT	Semester:4 th	
1	Course	PTB 244	
	Code		
2	Course Title	MICROBIOLOGY (PR)	
3	Credits	1	
4	Contact	0-0-2	
	Hours		
	(L-T-P)		
	Course	CC	
	Туре		
5	Course	The student will be able toUnderstand the importance of microbiolo	ogy,the bas
	Objective	concepts of microbiology, the importance of sterilization & the	nosocomi
		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 introduction of microbiology	
		CO2: to understand the immunological reaction and Acquire kn	nowledge
		common immunological disorders and their resultant effects on the	human boo
		CO3:Acquire the knowledge of concepts sterilization and disinfect	ion
		CO4: to understand the concept of laboratory diagnosis of infection	n
		CO5: Understand in brief, about the general classification of	
		microoragnism and applied microbiology	.1
		CO6: To create the possible analysis and mechanisms involved in t	the
		microbial assortment and management.	
7	Course	The course is designed to develop the basic knowledge about the	e concept
	Description	injury, its healing process and its resultant effects on the human bo	dy.
		Microbiology involves the study of common organisms cause	ing diseas
		including nosocomial infections and precautionary measures to prot	tect one fro
		diseases is essential to institute appropriate treatment or sugges	t preventiv
		measures to the patient. Particular effort is made in this cour	rse to avo
		burdening the student.	
8	Outline sylla	bus	CO
			Mappin
	Unit 1	Introduction of Microbiology and Immunology:	
	А	Medical terminologies, Importance and applications of medical	CO1
		microbiology	
		Sterilization	
		Antiseptic and disinfection	



В	Immune system	CO1
	Organ and cells involved in immune response	
	Antigen	
	Immunoglobulins (antibody)	
	Antigen – antibody reaction	
	Innate and acquired immunity	
	Hypersensitivity	
	Immunity (vaccines)	
С	Hypersensitivity & auto-immunity -	CO1
	Definition, Classification Anaphylaxis – mechanism,	
	manifestations & tests for Anaphylaxis, definitions of	
	autoimmunity, Classification& Mechanism.	
Unit 2	Sterilization & disinfection	
<u>A</u>	Definition of Sterilization Disinfection Enumeration of	CO2
11	physical methods of starilization including principles and their	CO2,
	Applications commonly used Disinfectors	CO3,
_	Applications, commonly used Disinfectants.	000
В	Hospital Acquired Infection	CO2,
	Must know – Definition, factor influencing infection, mode of	CO3
~	transmission & prevention of MAI.	~~~
С	Universal safety precautions, definition of waste classification,	CO2,
	segregation Transport & disposal	CO3
Unit 3	Laboratory diagnosis of Infection	
A	Host parasite relationship & bacterial infections.	CO4,
	- Different sources and modes of transmission of infection,	CO6
	microbial factors leading to establishment of infection.	
В	Methods of identification of bacteria -	CO4,
	– Principle of laboratory diagnosis of	CO6
	infectious diseases, General procedure for	
	collection	
С	Diagnosis of infectious diseases.	CO4,
	Transport and processing of specimen for Microbial diagnosis.	CO6
Unit 4	Ceneral classification of microorganisms & characteristics	
	Beteriologya:	C05
11	Classification of bacteria & characteristics	CO6
R	Systemic bacterialogy Mycobacterium tuberculosis	C05
D	Mycobacterium lenrae	CO5,
	COVID	000
C	SARS	COS
C	SWINE Flu	CO5,
	Ebola	000
	Looid	
Unit 5	Introduction, general features	CO5
cint c	diagnosis, treatment and prevention	CO6
	anguosis, ir cument and prevention	000
A	Polio virus	CO5
	Henatitis	CO6
		200
	I I ama a avaima a	
	Herpesvirus	



	HIV			
С	Applied Micro Hospital acqui Central nervou	biology red infection s System infections		CO5, CO6
Mode of examinatio	Meningitis Theory/Jury/P	actical/Viva		
Weight	CA	MTE	ETE	
age Distributio n	25%	25%	50%	
Text	1. Text book o	f pathology by Harsh	Mohan	
book/s*	2. Basic pathol	ogy by cotran Kumar	Robbins	
	1. Text books of R.Ananthnaray 2. Textbook of 3. Essential of Sastry&:S	fMicrobiology– yan& C.K.Jayran Microbiology-C.P.B Medical Microbiolog andhyaBhat IAYPEE	nPanikar aweja, Arya publications y – Apurba S apublication	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	3	3	3	3	3	1	2	3	1	3	2	3	2
CO2	2	1	3	3	1	2	3	3	2	3	1	3	3	3
CO3	3	3	3	3	3	3	3	1	3	3	3	1	3	3
CO4	3	2	3	3	2	3	2	3	3	2	3	3	1	2
CO5	2	3	2	3	3	1	3	2	1	3	2	3	2	2
CO6	1	2	2	2	2	3	2	2	3	2	1	2	3	3
Average Pos	2.33	2.33	2.66	2.83	2.33	2.5	2.33	2.16	2.5	2.33	2.16	2.33	2.5	2.5



Dre	gromme. DDT		
PTO	gramme: DP I	•	
Bra	anch:	4 th Semester	
Pn 1	Course Code	DTB 245	
1. 2	Course Title	Clinical Observation II	
2.	Lourse Thie		
J.	Hours/week		
4.	(L-T-P)	0-0-3	
	Course Type	CC	
5	Course Objective	This course aims to study about the physiotherapy functioning in OPD	and IPD.
6.	Course	CO1-To make the student remember about the biomedical waste mana	gement and
	Outcomes	about the physiotherapy opd setup.	
		CO2- To understand about the functioning of modalities and manual	
		Incrapy.	lities
		CO4: To analyse when and where to use about above things in clinical	setup.
		CO5: to judge emergency situations based on observational findings.	1
		CO6: To compile the observational findings for development and plan	ning of further
		assessment.	
7.	Course	This course is to teach the students the basic elements of hospita	l, make them
	Description	aware with the basic medical terminologies and about the patient	ťs
		confidentiality.	
8.	Outline		CO
	Syllabus		Mapping
	Unit 1	Biomedical Waste Management	
	Α	Different kinds of medical waste	CO1, CO2
	В	Colour coding of biomedical waste	CO2, CO3
	С	3 R of waste management	CO4
	Unit 2	Equipment Functioning	
	Δ	Types of Modalities used	CO3
	7	Types of filodulities used	005
	B	Indications	CO2 CO3
	C C	Contraindications	CO2 CO3
	Unit 3	Manual Thorany	
			<u> </u>
	А	rechniques used in various deformities	C04,
	R	Indication	CO2
	D	Indication	CO3 CO4
			CO6
		Contraindication	C03, CO4,
			CO6
	Unit 4	Hospital Documentation	
	Α	Physiotherapy Progress Notes	CO2, CO3,
			CO4, CO6
	В	Assessment of Different conditions	CO2, CO3,
	1		001 000



	Dos and Don'ts			CO2, CO3,				
С				CO4, CO6				
Unit 5	OPD Manageme	ent						
Α	Patient manager	nent in opd		CO1, CO2				
В	Biomedical Func	tioning for mo	odalities	CO2, CO3				
				CO4, CO6				
С	Handover of duti	es		CO2, CO3				
				CO4, CO6				
Mode of	Practical							
Examination								
Weightage	CA	MSE	ETE					
Distribution	25	25	50					
Textbook/s*		- #						

POs	PO	PO	PO	PO	РО	РО	РО	РО	РО	PO1	PO1	PSO	PSO	PSO
COs	1	2	3	4	5	6	7	8	9	0	1	1	2	3
CO1	3	3	1	2	3	3	3	3	3	1	3	2	3	2
CO2	3	3	3	3	1	2	2	1	2	3	1	3	3	3
CO3	3	3	3	1	3	3	3	3	3	3	3	1	3	3
CO4	3	3	2	3	2	3	3	2	3	2	3	3	1	2
CO5	2	3	3	2	3	1	2	3	1	3	2	3	2	2
CO6	2	2	2	2	2	3	1	2	3	2	1	2	3	3
Averag														
e Pos	2.66	2.83	2.33	2.16	2.33	2.5	2.33	2.33	2.5	2.33	2.16	2.33	2.5	2.5



Fifth Semester

Sc	hool: SSAHS	Batch: 2023-2027	
Pro	gramme:	•	
BPI	Г		
Br	anch:	Semester: 5 th semester	
Ph	ysiotherapy		
1	Course Code	PTB 301	
2	CourseTitle	General Medicine including endocrinology, Paediatrics and Geriatrics (theory))
3	Credits	2	
4	Contact	2-0-0	
	Hours (L)		
5	CourseType	СС	
6	Course Objective	The objective of this course is that after 60 hours of lectures, demonstrate addition to clinics the student will be able to demonstrate a general undof the diseases that therapists would encounter in their practice. They subject idea of the etiology and pathology, what the patient's symptoms a resultant functional disability. This would help the candidates to understimitation imposed by the diseases on any therapy that may be prescribed.	ations, in lerstanding hould have a nd the stand the ed.
7 8	Course Outcomes Course Description	The student will be able to: CO1 : To understand pathophysiological changes in infectious and metabolic of the treatment CO2 : To understand pathophysiological changes in respiratory and skin disord their treatment CO3 : To understand pathophysiological changes in cardiovascular and hemate disorders with their treatment CO4: To understand clinical features, investigations and management of psyc disorders. CO5: The student will be able to differentiate paediatric cases and handling t become easier as they can relate theoretical knowledge with practical learning CO6: To formulate the diagnosis and prognosis of various medical pathologie It covers relevant aspects of General Medicine and Pediatrics condition in which Physiotherapy play a significant role . This course is designed to develop the basic knowledge of Pediatrics and to u pediatric patient, its special needs in relation to physical therapy which will h	disorders with ders with ological chiatric the cases will g s nderstand a elp them
9	Outline sylla	provide good renabilitation.	CO
1	Sutine syna		Mapping
	Unit 1	Immunological factors in disease	
	Α	Infection	CO1, CO2
	В	Poisoning	
	С	Endocrine diseases	
	Unit 2	Environmental and nutritional factors in disease	
	Α	Diseases of the blood	



В	Food and Nutrition			CO1, 0			
С	Diseases of the digestive sys	stem					
				1			
Unit 3	Oncology						
Α	Congenital abnormalities and	d manage	ement	CO2, 0			
В	Diseases of skin						
С	Carcinoma of oesophagus ar	nd GI ble	eding				
Unit 4	Neurological disease						
Α	Problems and management o	of LBW in	fants	CO4, CO5,C			
В	Learning and behavioural pr	oblems a	and Brief description of Etio-				
	pathogenesis, manifestations	s, and ma	nagement of psychiatric illness				
	a. Drug dependence and alco	oholism b	b. Somatoform and Dissociate				
	Disorders - conversion react	tions, So	matization, Dissociate Amnesia,				
	and Dissociate Fugue c. Pers	sonality d	lisorders. Geriatric Psychiatry.				
С	Epilepsies and Modalities of	f psychia	tric treatment, Psychiatric				
	illness and physical therapy	link					
Unit 5	Infectious disease			CO4, CO5,CO			
A	Viral Hepatitis, Wilson's Di	sease, Al	pha1-antitrypsin deficiency,				
	Tumors of the Liver, Gall stones, Cholycystitis						
В	Problems and management of	of LBW i	infants, Cerebral				
	Palsy- causes, complications	s, clinical	I manifestations, treatment; Spina				
	Bifida- management and tre	atment					
С	Epilepsies-types, diagnosis	and treat	tment; Recognizing				
	developmental delay, comm	on cause	s of delay; Orthopedic and				
	Neuromuscular disorders in	childhoo	d, clinical features and				
	management; Sensory disord	ders-prot	blems resulting from loss of				
	vision and						
Mode of	Theory						
examination	r neor y						
Weightage	CA MTE		ETE	1			
Distribution	25% 25%		50%				
Text	Davidson principle and pract	tice of					
book/s*	medicine. Clinical methods of	of medici	ne by				
	Hutchinson						
	11atemiii50ii	D I	man &varahan				
	Nelson text book of pediatric	ne Rohmon					
	Nelson text book of pediatric	cs-Behrai					



POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C01	1	3	3	2	2	2	3	3	2	3	3	2	3	3
CO2	2	2	1	1	3	3	2	3	3	2	2	3	3	3
CO3	2	1	3	3	3	1	1	3	2	3	3	3	3	3
CO4	3	3	2	3	3	3	3	3	3	3	1	3	3	3
CO5	3	3	2	3	3	2	1	3	3	3	2	3	3	3
CO6	3	2	1	2	3	1	2	2	1	2	3	3	2	3
Average PO's	2.33	2.33	2	2.33	2.83	2	2	2.83	2.33	2.66	2.33	2.83	2.83	3

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)



Pro 3P7	gramme:	•	
Br	anch:	Semester: 5 th semester	
1 II.	Course	PTB 302	
1	Code	110 302	
2	Course Title	General Surgery including ENT. Burns and Plastic Surgery	
3	Credits	2	
4	Contact Hours (L)	2-0-0	
	Course Type	CC	
5	Course Objective	The objective of this course is that after 60 hrs of lectures and discuss student will be able to demonstrate an understanding f surgical condi- causing disability, list the etiology, clinical features and methods of ir and management.	ion the tions ivestigations
6	Course Outcomes	The student will be able to: CO1: List the indications for surgery, aetiology, clinical features and surgical 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 in antenatal and postnatal care. CO5: To understand various injuries with its post-surgeries' treatment gynae conditions treatment. CO6: To formulate management of various surgical interventions	al methods investigation t Protocol and
7	Course Descriptio n	This course is designed to develop the basic science subjects which w provide the basic knowledge about relevant aspects of General Surger help student gain better understanding of various surgical conditions a encounters during their practice. It will help them understand common conditions and procedures so that implication of rehabilitation to surg become easy.	ill help to y. This will a therapist a surgical ical patients
8	Outline		CO
	syllabus		Mapping
	Unit 1	Pre-operative evaluation and management of surgical patients	
	A	Fluid, Electrolyte and Acid-Base disturbances, Nutrition in surgical patient.	C01, C0
	В	Wound healing	
	С	Causes, Clinical Presentation, Diagnosis and treatment of the following Thoracic Trauma situations	
	Unit 2	Surgical Oncology	CO1, CO
	А	Diseases of the Arteries and Veins,	,
	В	Disorders of the Heart	
	С	Surgical Oncology	
	Unit 3	Burns and Chest Surgeries	
	A	Burn and shock	C03 C0



	В		Di	sorde	rs of t	he Che	st Wall	l, Lung	and Me	ediastin	um				
	С		Th	noraci	c, lung	g and c	ardiac	surgerie	es						
	Unit	4	Cor	nmon	ı Gyne	cology	surgeri	es						CO2, C	204
	Α		Inc	dicatio	on, Inc	ision, P	hysiolo	gical ch	anges a	nd of					
			Co	mmo	n oper	ations									
	В		De	escribe	e the n	ormal a	and abn	ormal p	hysiolo	gical ev	entin gyi	nae			
			co	nditio	ns				•	-					
	С		Physiological changes during pregnancy and musculoskeletal												
			dis	sorder	s durii	ng preg	nancy.								
	Unit	5	Sur	rgical	inter	ventio	ns							CO4, CO5,C	06
	A		Co - C Ga	omplic Cholec astrect	cations cystect tomy, l	and m omy, C Hernias	anagem oloston . Acute	ent of f ny, Ileo appen	ollowin stomy, dicitis.	g opera	tions I				
	В		Co Ap Ne	omplic opend	cations icector ctomy,	and m ny Mas Prostee	anagem stectom ctomy,	ient of f y, diabetic	ollowin foot	goperat	ions II-				
	С		Ch	nild bi	irth co	mplica	tions, i	nvestig	ation a	nd man	agement	and			
			Pre	Prolapse of uterus and pelvic											
			inf ma	flamn anage	natory ment.	diseas	es and	other gy	ynae co	ndition	s with				
	Mod exan	e of ninatio	Th n	neory											
	Weig	ghtag	CA	4		MT	E	ETE]						
	e Distr on	ributi	25	%		25%	þ	50%	•						
	Text		Ge	General Surgical Operations – by Kirk / Williamson											
	book	t∕s*	2.	Surge	ery by	Nan 3.	Bailev	andLo	ve's –	Short P	ractice o	f Surger	v		
			4. bo	Chest ok of	t Disea Heart	ase by (, Chest	Croftor Vascu	andDo lar Dise	ouglas. ease for	5. Patri physic	ca A Do otherapis	wnie, Te ts,JP Br	ext		
L					-	-									
POsCO	Os P	PO1 P	02 I	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PS

POsCOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	2	2	2	3	3	1	3	3	1	2	3	3
CO2	2	2	3	3	3	3	3	3	3	2	2	3	3	3
CO3	2	3	1	1	3	2	3	3	1	3	3	3	3	3
CO4	3	1	2	3	3	3	1	3	3	3	1	3	3	3
CO5	3	3	3	1	3	3	3	1	3	1	2	3	3	3
CO6	1	2	3	3	2	1	2	3	1	2	3	3	2	3
Average PO's	2.33	2.33	2.33	2.16	2.66	2.5	2.5	2.33	2.33	2.33	2	2.83	2.83	3



	ogramme: BPT	•	
ł	Branch:	Semester: 5 th semester	
ł	hysiotherapy		
1	Course Code	PTB 303	
2	Course Title	Orthopedics &Traumatology	
3	Credits	3	
4	Contact Hours (L)	3-0-0	
	Course Type	СС	
5	Course Objective	The objective of this course is that after 60 hrs of lectures ar student will be able to demonstrate an understanding of orth causing disability, list the aetiology, clinical features and me investigations and management.	d discussion the opaedic conditions ethods of
6	Course Outcomes	The student will be able to: CO1: To understand the traumatology of upper and lower lin management. CO2: To understand the pathophysiology of various muscul- congenital and acquired anomalies with its treatment protoco CO3: Demonstrate an understanding of orthopaedic condition list the aetiology, clinical features and methods of investigat CO4: To understand the management of various orthopaedic CO5: To understand various injuries, factures and deformities system with its treatment Protocol. CO6: To formulate the management of orthopedic condition	nb fractures with thei oskeletal conditions, ol. ons causing disability, ions and managemen c surgeries. es of musculoskeletal s
7	Course	This subject follows the basic science subjects to provide the	
	Description	Orthopaedic conditions the therapist would encounter in the	e knowledge about
			e knowledge about ir practice.
8	Outline syllab	110	e knowledge about ir practice.
8	Outline syllab Unit 1	us General Orthopaedics	e knowledge about ir practice. CO Mapping
8	Outline syllab Unit 1 A	us General Orthopaedics Assessment & Diagnosis	e knowledge about ir practice. CO Mapping CO1, CO2
8	Outline syllab Unit 1 A B	us General Orthopaedics Assessment & Diagnosis Inflammatory conditions	e knowledge about ir practice. CO Mapping CO1, CO2 CO3, CO4
8	Outline syllab Unit 1 A B C	us General Orthopaedics Assessment & Diagnosis Inflammatory conditions Degenerative Conditions	e knowledge about ir practice. CO Mapping CO1, CO2 CO3, CO4 CO4, CO5, CO6
8	Outline syllab Unit 1 A B C Unit 2	us General Orthopaedics Assessment & Diagnosis Inflammatory conditions Degenerative Conditions Regional Orthopaedics	cO1, CO2 CO3, CO4 CO4, CO5, CO6
8	Outline syllab Unit 1 A B C Unit 2 A	US General Orthopaedics Assessment & Diagnosis Inflammatory conditions Degenerative Conditions Regional Orthopaedics Upper limb conditions	e knowledge about ir practice. CO Mapping CO1, CO2 CO3, CO4 CO4, CO5, CO6 CO2, CO4



Γ														CC	05,CO6		
		С		Spina	l Cond	itions								CC	04,		
-														CC	05,CO6		
		Unit 3		Trau	matolo	gy & (Orthop	paedic	surgei	·у							
		А		Ortho	paedic	Surger	ries, A	mputat	ion					CO1, CO2			
		В		Fractu	res – Int	roducti	on, type	s, stage	s of hea	ling, U	pper limb	Fracture	s	CO3, CO4			
		С		Lowe	r limb	and spi	inal fra	ctures						CC	04, CO5		
_		Unit 4		Defor	mities	and D	isorde	ers									
		А		Defor	mities	– Cong	genital	and A	cquired	l.				CC	02, CO4		
		В		Uppe	r limb,	lower	limb aı	nd spin	al diso	rders				CC	03, CO5		
		C Bone and joint diseases									CC	04, CO5					
		Unit 5		Patho	ology a	nd cor	dition	S									
		А		Cereb	ral pals	y, Lep	rosy,							CC	01, CO4		
		В		Poliomyelitis										CO2,CO5,CO6			
		С		Skele	tal Tun	nours								CC	01, CO5		
		Mode of examina	tion	Theory/													
		Weighta	ge	CA			MTE	1			ETE						
		Distribu	tion	25%			25%				50%						
		Text boo	ok/s*	Outlin Ortho Ortho Textb	ne of Fr pedics pedics ook of	racture .— Joh .—Mal Orthoj	s—Joh in Crav neswar pedics	n Crav vford A i. 4. Aj and Tr	vford A Adams. pley's (aumato	Adams 3. Tex Orthop ology–	2. Outl at book o edics. 5 – M.N.N	ine of of Natarajar	1				
POs CO:	5 5	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO	01	PSO2	PSO3	
CO	D1	3	3	2	2	2	3	3	1	3	3	1	3		3	2	
CC	52	2	2	3	3	3	3	3	3	3	2	2	2		2	3	
CO	D3	2	3	1	1	3	2	3	3	1	3	3	2		3	2	
CO	D4	3	1	2	3	3	3	1	3	3	3	1	3		3	2	
CO	D5	3	3	3	1	3	3	3	1	3	1	2	3		3	3	
CO	D6	1	2	3	3	2	1	2	3	1	2	3	3		2	3	
Avera	ge	2 22	2 22	2 22	2 16	2 66	25	25	2 22	2 22	2 22		20		2.66	25	



S	chool: SSAHS	Batch: 2023-2027	
Pro	gramme: BPT		
Bı	anch:	Semester: 5 th semester	
Pł	ysiotherapy		
1	Course Code	PTB 304	
2	Course Title	Clinical Neurology& Psychiatry	
3	Credits	3	
4	Contact	3-0-0	
	Hours (L)		
	Course Type	CC	
5	Course Objective	The objective of this course is that after 60 hours of lectures & demo adding to clinics, the students will be able to demonstrate an und neurological conditions causing disabilityand their management in student will be able to fulfill with 75% accuracy (as measured by w practical, internal evaluation)the following objectives of the course. An understanding of the approach of neurologists to the health care of neurologic conditions. Begin to understand an educational plan for continuous learning the professional career. An understanding of the influence of family, community, and society of people with neurological	onstrations. Ir erstanding of addition, the written, oral& of people with hroughoutthe y inthe care
6	Course Outcomes	The student will be able to: CO1: To understand pathophysiological changes in neurological disorder assessment CO2: To understand the management of various neurological disorders CO3: Clinical decision-making ability and management expertise CO4: Plan a better rehabilitation care for patients pre and post neurosurge CO5: To understand the medical and surgical management of various neu- condition.	s withtheir ery irological
7	Course	CO6: To evaluate and assess the patient's condition and design the manage	gement
1	Description	introduces the student to the neurological and differential	
	Description	commonly cause disability	
8	Outline syllabu	s	CO Mapping
	Unit 1	Neurological Assessment	111
	А	Neurological assessment, classification and disorders	CO1, CO2
	В	Neuro ophthalmology	
	С	Deafness, vertigo, and imbalance	
	Unit 2	Traumatic/ Non traumatic conditions	
	А	Cerebro-vascular diseases	
	В	Lower cranial nerve paralysis	CO1, CO3
	С	Head injury, metabolic, environmental disorders	,
	Unit 3	Cerebellar disorders	CO4, CO5
	٨	Movement and carebral disorders	,



В	Cerebellar and coordination disorders	
С	Spinal cord disorders, peripheral and polyneuropathy	
Unit 4	Surgical intervention	CO3, CO3
А	Multiple sclerosis and tumors	
В	Neuromuscular junction disorders and polyneuropathy	
С	Neurosurgery I-Craniotomy, cranioplasty and Stereotactic surgery,	
	Deep brain stimulation	
Unit 5	Motor Neuron Disease	CO4, CO
A	Motor neuron disorders and paediatric disorders	
В	Psychiatric disorders	
С	Neurosurgeries II- Laminectomy,	
		1
	Hemilaminectomy, Rhizotomy	
Mode of	Theory	

			2	
Mode of	Theory			
examination				
Weightage	CA	MTE	ETE	
Distribution	25%	25%	50%	
Text book/s*	Davidson's Neurology- .Illustrated of Nervous	Principles an VictorAdam Neurology & System	nd Practice of Medicine 2. Textbook of as 3. Brains Clinical Neurology. 4 2. Neurosurgery 5.Brains Diseases	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	2	1	1	2	3	3	2	1	2	3	3	2	3
CO2	3	3	3	2	2	2	2	3	1	3	3	2	3	2
CO3	3	1	3	2	3	2	3	1	3	2	1	3	2	3
CO4	2	3	3	2	3	3	2	3	3	2	3	3	3	3
CO5	3	2	1	3	2	3	1	3	2	1	3	3	2	3
CO6	2	1	3	1	1	1	3	2	2	3	2	2	3	2
Average												2 66	25	2 66
PO's	2.66	2	2.33	1.83	2.16	2.33	2.3	2.33	2	2.16	2.5	2.00	2.5	2.00

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)



	DDT										
ro	gramme: BPT	•									
B	ranch:	Semester: 5 th semester									
1	nysiotherapy	DTD 205									
1	Course Code	P1B 305									
2	Course Title	Applied Biomechanics & Kinesiology									
3	Credits	3									
4	Contact Hours	3-0-0									
	(L-T-P)										
	Course Type	СС									
5	Course Objective	1. Describe the joint structure, classification and function of joints And biomechanics of Connective tissue									
		2. Describe the muscle structure and function of muscles, types of musc contractions and factors effecting muscle recruitment and function	eles,								
		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 dynam relation with LOG, Pathomechanics of abnormal gait and posture.										
6	Course Outcomes	CO1:On successful completion of this Programme, students should be ab to describe the understanding of basics of mechanics, muscle structure an contraction, factors affecting muscle contraction and recruitment									
		CO2:Explain mechanics of chest wall during various movements and the mechanics associated with various chest conditions and deformities	e patho-								
		CO3:Illustrate normal mechanics and patho mechanics of TMJ associat with various conditions	ed								
		CO4:Analyse normal mechanics of posture and gait in various planes a	nd axis								
		CO5: Describe biomechanics of shoulder, elbow, wrist, hip, knee, ankle vertebral column.	e joint and								
		CO6: To evaluate the gait and posture and differentiate normal from pathological.									
7	Course Description	This Course Supplements the Knowledge of anatomy and enables the sub- have a better understanding of the principles of biomechanics and their in musculoskeletal and various other dysfunctions.	tudent to application								
8	Outline syllab	us	СО								
			Mappin								
	Unit 1	Biomechanics of tissue and structure of musculoskeletal system									



		1
С	Effects of posture on age, age and gender, pregnancy, occupation and recreation	CO4, CO5
В	Ideal posture analysis of posture, Upper Cross Syndrome, Lower Cross Syndrome	CO4, CO5
А	Static and dynamic posture, postural control, kinetics and kinematics of posture	CO4, CO5
Unit 4	Analysis of posture	
	subtalarjoint, transversetarsaljoint, tarsometatarsaljoints, metatarsophalangeal joints, interphalangeal joints, structure and function of the plantar arches, muscles of the ankle and foot, deviations from normal structure and function– Pes Planus and PesCavus	
C	Patelloremoral joint; effects of injury and disease The ankle and foot complex: structure and function of the anklejoint,	CO1,CO6
В	The knee complex: structure and function of the knee joint- tibiofemoral joint and	CO1,CO6
A	The hip complex: structure and function of the hip joint; hip joint force and muscle function, hip joint pathology	CO1,CO6
Unit 3	Biomechanics of the Lower Limb	
С	The wrist and hand complex: Structural components and functions of the wrist complex; structure of the hand complex, prehension; functional position of the wrist and hand	Co1,CO6
В	The elbow complex: Structure and function of the elbow joint, mobility and stability, effect of age gender and injury	Co1,CO6
	and injury.	
А	The shoulder complex: Structure and their integrated function & the effects of immobilization	Co1,CO6
Unit 2	Biomechanics of the Upper Limb	
С	Muscles of the vertebral column & General effects of injury and aging	CO1, CO6
	lumbar region, sacral region	000
В	Biomechanics of the vertebral column: Regional	CO1,
	Biomechanics of bone, articular cartilage, tendon, ligament, nerve and muscles.	CO1, CO6



	А		Genera energy	l featur require	es of g ments	gait, ga ,	ait initia	tion, ki	nemat	ics and l	kinetics	of gait	, CO4 CO5	,		
	В		Kinema to gait, assistiv the low	atics an staircas ye devic yer extre	d kine se clin es, dis emitie	etics of nbing a sease, 1 s	the trun and run muscle	nk and u ning, ef weakne	upper fects c ss, par	extremit of age, g calysis, a	ties in re ender, asymme	elation etries of	CO4 CO5	,		
	C Injuries and malalignments in gait; Movement Analysis: ADL activities like sitting– to standing, lifting, various grips, pinches												CO4 CO5	,		
	Mode of Theory/Jury/Practical/Viva examination															
	Weighta	ige tion	CA			MT	E ETE									
	Distribu	uon	25% 25% 50%													
	Text book/s* 1. Biomechanical principles: Frenkel 2. Joint Structure & amp; Functions : Norkins Discussion Norkins															
	Other Referen	ces	 Ther Muse Clinit 	apeutic cle testi ical eva	exerc ing an luatio	ise by d func n - Lao	Basmij tions - H cote (for	jan & V Kendall r Isolate	Volf. - Will ed asse	iams &	Wilkin: of abdo	s. minal 1	nuscles)			
	Churchill Livingstone.												-			
POs PO1 PO2 PO3 PO4 PO5 PO6 PO7 COs							PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3			
CO1 3 3 3 2					2	3	3	1	1	3	1	3	3	3		

	-	-	-	_	-	-	-	-	-	-	-	-	-	-
CO2	2	2	3	3	1	2	1	2	3	2	3	2	2	3
CO3	2	3	3	3	3	3	3	3	3	3	3	2	3	3
CO4	3	1	2	2	2	1	2	2	2	1	2	3	2	2
CO5	3	3	2	3	3	3	3	3	3	3	3	3	3	2
CO6	1	2	1	1	3	2	3	1	2	2	3	3	2	2
Average PO's	2.33	2.33	2.33	2.33	2.33	2.33	2.5	2	2.33	2.33	2.5	2.66	2.5	2.5

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



PRACTICAL

S	chool: SSAHS	Batch: 2023-2027								
Pro	gramme: BPT	•								
Bı	ranch:	Semester: 5 th semester								
Pł	nysiotherapy									
1	CourseCode	PTB 331								
2	CourseTitle	General Medicine including endocrinology, Paediatrics & Geriat (Practical)	rics							
3	Credits	1								
4	Contact	0-0-2								
	Hours									
	Course	CC								
	Type									
5	Course Objectiv e	The objective of this course is that after 60 hours of lectures, demonstrations, addition to clinics the student will be able to demonstrate a general understant of the diseases that therapists would encounter in their practice. They should 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 limitation imposed by the diseases on any therapy that may be prescribed.								
6	6 Course Outcom The student will be able to: CO1 : To understand pathophysiological changes in infectious and metabolic disorders with the treatment CO2 : To understand pathophysiological changes in respiratory and skin diso with their treatment CO3 : To understand pathophysiological changes in cardiovascular and hematological disorders with their treatment CO4 : To understand clinical features, investigations and management of psychiatric disorders. CO5: The student will be able to differentiate paediatric cases and handling t cases will become easier as they can relate theoretical knowledge with practic learning.									
7	Course Descripti on	It covers relevant aspects of General Medicine and Pediatrics condit Physiotherapy play a significant role .	ions in which							
		This course is designed to develop the basic knowledge of Pediatric: understand a pediatric patient, its special needs in relation to physica which will help them provide good rehabilitation.	s and to al therapy							
8	Outline syllabus		CO Mapping							
	Unit 1	Immunological factors in disease								
	А	Infection	CO1, CO2							
	В	Poisoning								
	С	Endocrine diseases								
	Unit 2	Environmental and nutritional factors in disease								



R	Food and Nutrition	CO1 CO3								
<u>Б</u>	Diseases of the directive system	01,005								
Unit 3	Oncology									
	Congenital abnormalities and management	CO2 CO4								
B	Diseases of skin	02,004								
<u>Б</u>	Carcinoma of oeconhagus and GL bleeding									
Unit 4	Varchoma of oesophagus and of bleeding									
	Problems and management of LBW infants	CO4 CO5								
D D	Learning and habevioural problems and Brief description of	04,005								
Б	Eta not because is manifectations									
	Etto-pathogenesis, mannestations,									
	and management of psychiatric illness a. Drug dependence and									
	acconolism b. Somatororm and Dissociate Disorders – conversion									
	Fugue c. Personality disorders. Geriatric Psychiatry									
	r ugue e. r ersonanty alsoraers. Contaire r syematry.									
С	Epilepsies and Modalities of psychiatric treatment, Psychiatric									
	illness and physical therapy link									
Unit 5	Infectious disease	CO4, CO6								
А	Viral Hepatitis, Wilson's Disease, Alpha1-antitrypsindeficiency,									
	Tumorsof the Liver, Gall stones,									
	Cholycystitis									
В	Problems and management of LBW infants, Cerebral									
	Palsy- causes, complications, clinical manifestations, treatment; Spina									
	Bifida– management and treatment									
C	Epilepsies– types, diagnosis and treatment; Recognizing									
	developmental delay, common causes ordelay; Orthopedic and									
	management: Sensory disorders_problems resulting from loss of									
	vision and									
	hearing.									
Mode of	Practical									
examination										
Weightage	CA MTE ETE									
Distribution	25% 0% 75%									
Text	1. Davidson principle and practice of medicine.									
book/s*	2 Clinical methods of medicine by Hutchinson									
	2. Valson taxt back of radiatrics Babroman Swarshan									
	5. Freison text book of pediatrics-defination α valgitali.									
	4. Essential pediatre by 0.1 Ghai									
	1	1								



COs														
CO1	3	2	1	3	3	2	1	3	3	2	1	3	3	2
CO2	3	1	3	3	1	3	2	2	2	3	2	2	2	3
CO3	3	3	2	2	3	2	3	3	3	3	3	2	3	2
CO4	2	3	3	3	2	3	2	1	3	2	3	3	2	2
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO6	1	2	2	3	1	2	3	1	2	1	3	3	2	3
Average PO's	2.5	2.16	2.33	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.66	2.5	2.5

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)


So	chool:	Batch: 2023-2027	
S	SAHS		
Pro	gram: BPT	•	
Br	anch:	Semester: 5 th semester	
Ph	vsiothera	Semester. 5 semester	
nv	iy storner a		
1	Cour	PTB 302	
1	cour se	110 502	
	Cod		
	cou		
2	Course	Conorol Surgery including ENT Durns and Plastic Surgery	
2	Title	General Surgery including ENT, Burns and Flashe Surgery	
2	Cradita	2	
3	Contact	2	
4	Lours	2-0-0	
	(I)		
	Course	CC	
	Type		
5	Course	The objective of this course is that after 60 hrs of lectures and discussion	on the
5	Objecti	student will be able to demonstrate an understanding of surgical conditi	ons
	ve	causing disability, list the etiology, clinical features and methods of	
		investigations and management.	
6	Course	The student will be able to:	
0	Outcom	CO1. List the indications for surgery setislasty elimical features and surgical	
	es	methods for various conditions	L
		CO^2 : 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 post-surgeries' treatment	Protocol
		and gynae conditions treatment.	
		CO6: To formulate management of various surgical interventions	
7	Course	This course is designed to develop the basic science subjects which wi	ll help to
	Descrip	provide the basic knowledge about relevant aspects of General Surgery	7. This
	tio n	will help student gain better understanding of various surgical conditio	ns a
		therapist encounters during their practice. It will help them understand	
		common surgical conditions and procedures so that implication of	
		hereing and hereing an	
8	Outli	become casy.	CO
0	ne		Mannir
	syllab		mappin
	us		
Π	Unit 1	Pre-operative evaluation and management of surgical patients	
	А	Fluid, Electrolyte and Acid-Base disturbances, Nutrition	CO1,
		in surgical patient.	CO2
-	B	Wound healing	



C	treatment of	f the following	on, Diagnosis and Thoracic Trauma					
	situations	i the following						
Unit ?	Surgical On	cology		C01				
Unit 2	Surgical Olio	cology		C01				
А	Diseases of	the Arteries and	d Veins					
B	Disorders of	of the Heart	a · •••••••					
<u>с</u>	Surgical Or							
Unit 3	Burns and C	best Surgeries						
	Burn and s	hock		CO3				
Π	Durn and si	IIOCK		C05				
D	Disordors	f the Chest W	ll Lung and Madiastinum					
D C	Thoracia h	ing and cordio						
	Commune Co			C02				
Ullit 4	Common Gy	necology surge	ries					
•				04				
А	Indication,	incision, Physio	logical changes and of					
	Common o	perations						
В	Describe the	e normal and at	onormal physiological eventin gynae					
	conditions							
С	Physiologic							
	disorders du	iring pregnancy	•					
Unit 5	Surgical int	CO4,						
				C05,				
	<u> </u>			06				
A	Complicatio							
	I - Cholecys							
D	Gastrectom	y, Hernias. Acu	te appendicitis.					
В	Complicatio	ons and manage	ment of followingoperations					
	II- Appendi Nephractor	v Prostectomy	cioniy, diabetic foot					
C	Child birth	complications	investigation and management					
~	and Proland	se of uterus and	have been and management					
	inflommate	my diagonag and	t other groups conditions with					
	innammato	ny uiseases and	other gynae conditions with					
	managemen	nt.						
Mode of	Theory							
examinati								
on								
Weight	CA MTE ETE 25% 25% 50%							
ag e	25%							
Distrib								
uti								
on								



 Text
 General Surgical Operations – by Kirk / Williamson

 book/
 2. Surgery by Nan 3. Bailey andLove's – Short Practice of Surgery

 s*
 4. Chest Disease by Crofton andDouglas. 5. Patrica A Downie,

 Text book of Heart, Chest Vascular Disease for
 physiotherapists,JP Br

DO ₂ CO ₂	D	DO	DO	DO	DO	DO	D	DO	DOO	DO1	DO1	DC	DC	DC
POSCOS	r	PU	PU	PO	PU	PO	r	PU	P09	POI	POI	P3	PS	PS
	0	2	3	4	5	6	0	8		0	1	01	02	05
	1						7							
CO1	3	3	2	2	2	3	3	1	3	3	1	2	3	3
CO2	2	2	3	3	3	3	3	3	3	2	2	3	3	3
CO3	2	3	1	1	3	2	3	3	1	3	3	3	3	3
CO4	3	1	2	3	3	3	1	3	3	3	1	3	3	3
CO5	3	3	3	1	3	3	3	1	3	1	2	3	3	3
С	1	2	3	3	2	1	2	3	1	2	3	3	2	3
06														
Average	2.	2.3	2.	2.	2.	2.5	2.	2.	2.3	2.3	2	2.8	2.8	3
PO's	33	3	33	16	6		5	33	3	3		3	3	
					6									

1-Slight (Low)

2-Moderate (Medium)



Sch	ool: SSAHS	Batch: 2023-2027								
rogi	ramme: BPT	•								
Bra Phy	nnch: vsiotherapy	Semester: 5 th semester								
1	Course Code	PTB 333								
2	Course Title	Orthopaedics & Traumatology (Practical)								
3	Credits	1								
4	Contact	0-0-2								
	Hours									
	(L)									
	Course Type	CC								
5	Course	The objective of this course is that after 60 hrs of lectures and d	iscussion the							
	Objective	The objective of this course is that after 60 hrs of lectures and discussion the student will be able to demonstrate an understanding of orthopaedic conditions								
		causing disability, list the aetiology, clinical features and method	ls of							
		investigations and management.								
6	Course	The student will be able to:								
	Outcomes	CO1: To understand the traumatology of upper and lower limb fractur	res with their							
		management. CO_2 : To understand the pathophysiology of various musculoskeletal d	conditions							
		congenital and acquired anomalies with its treatment protocol	conditions,							
		CO3: Demonstrate an understanding of orthopaedic conditions causin	g disability, list the							
		aetiology, clinical features and methods of investigations and manager	nent.							
		CO4: To understand the management of various orthopaedic surgeries	S.							
		CO5: To understand various injuries, factures and deformities of muse	culoskeletal system							
		with its treatment Protocol.								
		CO6: To formulate the management of orthopedic conditions								
7	Course	This subject follows the basic science subjects to provide the know	owledge about							
	Description	Orthopaedic conditions the therapist would encounter in their pra	actice.							
8	Outline syllab		CO Mapping							
	Unit 1	General Orthopaedics								
	A	Assessment & Diagnosis	CO1, CO2							
	В	Inflammatory conditions	CO3, CO4							
	C	Degenerative Conditions	CO4, CO5							
	Unit 2	Regional Orthopaedics								
	A	Upper limb conditions	CO2,							
			CO4,CO6							
	В	Lower limb Conditions	CO3,							
			CO5,CO6							
	C	Spinal Conditions	CO4, CO5							
	Unit 3	Traumatology & Orthopaedic surgery								
	А	Orthopaedic Surgeries, Amputation	CO1, CO2							
	В	Fractures - Introduction, types, stages of healing, Upper limb Fractures	CO3, CO4							



С	Lower limb and spinal fractures		CO4, CO5		
Unit 4	Deformities and Disorders				
А	Deformities - Congenital and Acquired.	CO2, CO4			
В	Upper limb, lower limb and spinal disorder	CO3, CO5			
С	Bone and joint diseases	CO4, CO5			
Unit 5	Pathology and conditions				
А	Cerebral palsy, Leprosy,	CO1, CO4			
В	Poliomyelitis	CO2,CO5,CO6			
С	Skeletal Tumours	CO1, CO5			
Mode of	Theory/				
examination					
Weightage	CA	ETE			
Distribution	25%	75%			
Text book/s*	Outline of Fractures-John Crawford Ada	ms. 2. Outline of Ortho	pedics.— John		
	Crawford Adams. 3. Text book of				
	OrthopedicsMaheswari. 4. Apley's Orth	of Orthopedics an			
	Traumatology— M.N.Natarajan				

POs	PO	РО	РО	PO	PO	PO	PO	PO	PO	PO1	PO1	PSO	PSO	PSO
COs	1	2	3	4	5	6	7	8	9	0	1	1	2	3
CO1	3	2	1	3	3	2	1	3	3	2	1	3	2	3
CO2	3	1	3	3	1	3	2	2	2	3	2	3	2	3
CO3	3	3	2	2	3	2	3	3	3	3	3	3	3	2
CO4	2	3	3	3	2	3	2	1	3	2	3	2	3	3
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO6	1	2	2	3	1	2	3	1	2	1	3	1	2	2
Averag e PO's	2.5	2.16	2.3 3	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.5	2.5	2.66

2-Moderate (Medium)



		Dattii, 2023-2027								
Prog	gramme: BPT	•								
Bi Pl	ranch: hysiotherapy	Semester: 5 th semester								
1	Course Code	PTB 334								
2	Course Title	Clinical Neurology & Psychiatry (Practical)								
3	Credits	1								
4	Contact	0-0-2								
	Hours (P)									
	Course Type	Compulsory								
5	Objective	adding to clinics, the students will be able to demonstrate an und neurological conditions causing disability and their management in student will be able to fulfill with 75% accuracy (as measured by w practical, internal evaluation) the following objectives of the course. An understanding of the approach of neurologists to the health care o neurologic conditions. Begin to understand an educational plan for continuous learning th professional career.	nstrations. If erstanding o addition, the ritten, oral& f people with roughout the							
		An understanding of the influence of family, community, and society	in the care							
		of people with neurological								
6	Course Outcomes	The student will be able to: CO1:To understand pathophysiological changes in neurological disorders assessment and treatment CO2: To understand the assessment and management of various neurologic CO3: Clinical decision-making ability and management expertise CO4: Plan a better rehabilitation care for patients with pre and post neuros assessment. CO5: To understand the medical and surgical management of various neur condition. CO6: To evaluate and assess the patient's condition and design the management	with their cal disorders urgery ological gement							
7	Course	Following the basic science and clinical science course, this course in	ntroduces the							
	Description	student to the neurological conditions which commonly cause disabil	ity.							
8	Outline syllab	us	CO Mapping							
	Unit 1	Neurological assessment								
	А	Neurological assessment, classification and disorders	CO1, CO2,CO							
	В	Neuro ophthalmology								
	С	Deafness, vertigo, and imbalance								
	Unit 2	Cerebrovaacular diseases								
	А	Cerebro-vascular diseases								
	В	Lower cranial nerve paralysis	CO1,							
			235,00							



Unit 3	Cerebellar disor	rders		CO4,				
				CO5				
А	Movement and c	erebral disord	lers					
В	Cerebellar and co	ordination dis	orders					
С	Spinal cord disor	ders, periphe	ral and polyneuropathy					
Unit 4	Surgerical Inter	СОЗ,						
				CO5				
А	Multiple sclerosi							
В	Neuromuscular j							
С	Neurosurgery I-Craniotomy, cranioplasty and Stereotactic surgery, Deep brain stimulation							
Unit 5	Motor Neuron I	Disease		CO4, CO5.CO6				
А	Motor neuron dis	sorders and p	aediatric disorders					
В	Psychiatric disor	ders						
Mode of	Practical							
examination								
Weightage	CA	MTE	ETE					
Distribution	25%	0% 75%						
Text book/s*	ctice of Medicine 2. Textbook of							
	Neurology- Victor Adams 3. Brains Clinical Neurology. 4 .Illustrated Neurology & Neurosurgery 5. Brains Diseases of Nervous System							

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	2	1	3	3	2	1	3	3	2	1	3	3	2
CO2	3	1	3	3	1	3	2	2	2	3	2	3	3	3
CO3	3	3	2	2	3	2	3	3	3	3	3	2	3	3
CO4	2	3	3	3	2	3	2	1	3	2	3	3	3	3
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO6	1	2	2	3	1	2	3	1	2	1	3	3	2	2
Average PO's	2.5	2.16	2.33	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.83	2.83	2.66

2-Moderate (Medium)



TO	gramme: BPT	•									
B	ranch:	Semester: 5 th semester									
P	hysiotherapy										
1	Course Code	PTB 335									
2	Course Title	Applied Biomechanics & Kinesiology (practical)									
3	Credits	1									
4	Contact Hours (L-T-P)	0-0-2									
	Course Type	CC									
5	Course Objective	1. Describe the joint structure, classification and function of joints	s And								
		biomechanics of Connective tissue									
		2. Describe the muscle structure and function of muscles, types of muscles, contractions and factors effecting muscle recruitment an function	f d								
		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 dyna movement, relation with LOG, Pathomechanics of abnormal gait	mic and posture.								
6	Course Outcomes	CO1:On successful completion of this Programme, students should describe the understanding of basics of mechanics, muscle structur contraction, factors affecting muscle contraction and recruitment	ld be able to ire and								
		CO2:Explain mechanics of chest wall during various movements mechanics associated with various chest conditions and deformities	and the patho- es								
		CO3:Illustrate normal mechanics and patho mechanics of TMJ as with various conditions	sociated								
		CO4:Analyze normal mechanics of posture and gait in various pla	anes and axis								
		CO5: Describe biomechanics of shoulder, elbow, wrist, hip, knee, vertebral column.	, ankle joint and								
		CO6: To evaluate the gait and posture and differentiate normal from	om pathological								
7	Course Description	This Course Supplements the Knowledge of anatomy and enables have a better understanding of the principles of biomechanics and in musculoskeletal and various other dysfunctions.	the student to their applicatio								
8	Outline syllab	us	CO Mapping								
	Unit 1	Riemachanias of tissue and structure of musculasticists									



	system			
A	Brief			CO1, CO6
В	Movement			
С	Muscles palp	ation of the	Spine	
Unit 2	Biomechanic	Co1,CO6		
A	Brief			
В	Movement			
С	Muscles palp	ation &join		
Unit 3	Biomechanic	cs of the Lo	C01,C06	
A	Brief			
В	Movements			
С	Muscles palp	ation &join		
Unit 4	Analysis of p	CO4,CO5,CO6		
A	kinematics of			
В	Normal postu			
С	Abnormal po			
Unit 5	Analysis Of	CO4,CO5,CO0		
А	Kinematics a			
В	Normal Gait			
С	Identify abno	ormal Gait		
Mode of examination	Practical/Viv	a		
Weightage	CA	MTE	ETE	
Distribution	25%	0%	75%	
Text book/s*	1. Biomechar			
	2. Joint Struc	ture &	; Functions : Norkins	
	3. Biomechar	nics- Nordii	1	



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 COSPO1 9PO2 1PO3 1PO4 9PO5 9PO6 9PO7 9PO8 9PO9 9PO10 9PO11 9PS01 9PS02 9PS03 9POs CO3133132233323CO1321321332333333CO2313233 <th>Averag PO's</th> <th>ge 25</th> <th>-</th> <th>2 16</th> <th>2 22</th> <th>25</th> <th>2 16</th> <th>2 22</th> <th>2</th> <th>2 16</th> <th>25</th> <th>2 22</th> <th>2 22</th> <th>2.6</th> <th>2.6</th> <th>2.66</th>	Averag PO's	ge 25	-	2 16	2 22	25	2 16	2 22	2	2 16	25	2 22	2 22	2.6	2.6	2.66
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 	CO6	1		2	2	3	1	2	3	1	2	1	3	3	2	3
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 COSPO1 3PO2 2PO3 3PO4 3PO5 2PO6 3PO7 2PO8 2PO9 2PO10 2PO11 2PSO2 2PSO2 2PSO3 2CO13 3213213323CO231313223333CO3332233333333CO42333232133333	CO5	05 3 2 3 1 3 2 1 3 2 2 2											2	3	2	
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 COSPO1 2PO2 2PO3 2PO4 2PO5 2PO6 2PO7 2PO8 2PO9 2PO10 2PO11 2PSO1 2PSO2 2PSO3 2PO2 CO132132223233CO2313223333333CO333223233333233	CO4	2		3	3 3 2 3 2 1 3 2 3 3						3	3	3			
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.Note: Pos POS PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PS01PS02PS02PS03CO13213321332333CO23133132232333	CO3	3		3	2	2	3	2	3	3	3	3	3	2	3	2
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 COs PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PS01 PS02 PS03 CO1 3 2 1 3 3 2 1 3 2 3	CO2	3		1	3	3	1	3	2	2	2	3	2	3	3	3
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 COs PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PS02 PS03	CO1	3		2	1	3	3	2	1	3	3	2	1	3	2	3
 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 COs	PC)1	PO2	PO3	PO4	PO5	PO6	PO/	PO8	PO9	PO10	POII	PSOI	PSO2	PSO:
	POs	PC)1	PO2	4. Mus Rehab 5. Orth posture 6. Phys Note: I	cle stre Forlag opedic), Sau siology Latest e	etching Evalu nders I of join edition	g & Au ation- Elsevie nts: Ka of the	to stre Mageo r. apanji; sugges	tching e (only vol 1,2 sted bo	- Olaf for ass 2 & 3 poks ar	Evjenth sessmen e recom	n, Alpta nt of mendec	l.	PSO2	PSO
	ŀ	Referen	nces	5	2. Mus	cle tes	ting an	d func	tions -	Kenda	ull - Wi	illiams o	& Wilki	ins.		
References 2. Muscle testing and functions - Kendall - Williams & Wilkins.	0	Other			1. Ther	apeuti	c exerc	ise by	Basm	ijjan &	Wolf.					

2-Moderate (Medium)



S	chool: SSAHS	Batch: 2023-2027	
Pro	ogramme: BPT	•	
F F	Branch: Physiotherapy	Semester: 5 th semester	
1	Course Code	PTB 336	
2	Course Title	Clinical Education: Evaluation Methods	
3	Credits	3	
4	Contact Hours (L-T-P)	0-0-6	
	Course Type	CC	
5	Course	The course would enable the students to evaluate the different systems of	of the
	Objective	body, and reach to an appropriate diagnosis thereby helping in formulat effective treatment plan.	ion of an
6	Course Outcomes	 CO1. Application of the principles of subjective and objective assessme evaluation of the nervous system. CO2. Application of the principles of assessment in evaluation of the Cardiopulmonary system. CO3. Application of the principles of assessment in evaluation of the Musculoskeletal system. CO4. Application of the principles of assessment in evaluation of Pain. CO5. Application of the principles of assessment in evaluation of Obesi CO6: To design the evaluation and assessment methods for various contraction. 	nt in ty. ditions
7	Course Description	This course shall equip the students with the skill of assessment of vario systems of the body, providing a base for the developing an efficient rel	ous nabilitation
-		Programme.	
8	Outline syllabus		CO Mapping
	Unit 1	Assessment Of Nervous System Higher Mental Functions, Cranial Nerves, Perception, Cognition, Sensory Assessment, Motor Assessment (Joint mobility, muscle strength, LLD, girth measurement), Joint Mobility, Tone, Reflexes (Primitive, Superficial	
	А	Higher Mental Functions, Cranial Nerves, Sensory Assessment, Motor	CO1,
	В	Assessment Joint Mobility, Tone, Reflexes (Primitive, Superficial & Deep), Voluntary Control, Muscle Strength, Limb Length & Girth Measurement	CO1, CO2
	С	Coordination & Balance Assessment. Involuntary Movements	CO1.
	-		,



Unit 2	Assessment of Cardio Vascu	ılar & Pulmonary System						
	Vital parameters. Chest expan	nsion. Symmetry of chest						
	movement, Breath Sounds & heart sound, Exercise							
	Tolerance - six minutes walk test, Theoretical bases of							
	Bruce's protocol, PFT, X-ray Chest, Ankle Brachial							
	Index,							
А	Tests for Peripheral Arterial &	& Venous circulation	CO2,CO					
			3					
В	ECG &Echo, ABG analysis		CO2,CO					
			3					
С	Stress Testing & its protocols		CO2.CO					
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		3					
Unit 3	Assessment of Museuleskel	stal System	5					
Ollit 5	Assessment of Musculosker	star System						
	Overview of SOAP Format &	ICE Format Detailed						
	subjective & objective musc	uloskeletal assessment						
	Special tests for spine, upper	limb and lower limb.						
	Electrodiagnostic tests: EMO	G/ NCV						
A	SOAP Format & ICF Format							
			4,CO6					
В	Detailed subjective & objecti	ve musculoskeletal assessment	C03,C0					
_			4,CO6					
С	Special tests for spine, upper	limb and lower limb	C03,C0					
			4,CO6					
Unit 4	Assessment of pain							
A	Theories of Pain		CO4,CO					
			5					
В	Types, nature, Intensity & qu	ality	CO4,CO					
			5					
С	Scales: VAS, Mc Gill's modif	ied questionnaire, Numerical Rating	CO4,CO					
	Scale		5.CO6					
Unit 5	Assessment of Obesity		-,					
A	Patho physiology		CO5					
B	Assessment - BMI. Waist - H	ip Ratio	CO5					
<u> </u>	Body fat percentage Hydrost	-r	C05 C0					
~	Body fut percontage, frydrost	and wordning	6					
Mode of	Practical		-					
examination								
Weightage	CA	FTF						
Distribution	25	75						
Distribution	23	15						



Text book/s*	<ol> <li>Susan B O's Sullivan, Physical Rehabilitation, Assessment and treatment, F a Davis Company</li> <li>Magee, Orthopaedic Physical examination, Saunders Elsevier</li> <li>Patricia Downie, Cash textbook of Physiotherapy in neurological conditions, JP Publications.</li> </ol>
Other References	<ol> <li>Donnatelli, Orthopaedic Physical therapy, Churchill Livingstone Elsevier.</li> <li>Franck I. Katch, Victor L. Katch, Exercise physiology : energy, nutrition, and human Performance</li> </ol>

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO2	3	2	3	2	2	3	2	3	2	3	3	2	2	3
CO3	1	3	2	3	3	2	3	3	3	2	3	3	3	2
CO4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO6	2	3	1	1	2	3	1	2	3	3	2	1	2	2
Average														
Po's	2.5	2.8	2.5	2.5	2.66	2.83	2.5	2.66	2.83	2.83	2.83	2.5	2.66	2.66

2-Moderate (Medium)



S	chool: SSAHS	Batch: 2023-2027	
Pro	gramme: RPT		
F	granch.	Somoctor: 5 th somostor	
	hvsiotherany	Semester. 5 Semester	
1	Course Code	PTB 337	
2	Course Title	Clinical Education: Outcome Measures	
3	Credits	3	
4	Contact Hours	0-0-6	
-	(I_T_P)	0-0-0	
	(L-1-1)	Core	
5	Course Type	Cole This course shall enable the students to goin knowledge shout various	outcomo
5	Objective	This course shall enable the students to gain knowledge about various	ditions
	Objective	measures used for the chinical and physiotherapeutic evaluation of cor	lations
_	9	affecting the systems of the human body.	11.1 0
6	Course	CO1. Understand and apply the outcome measures related to various of	conditions of
	Outcomes	the Nervous System.	onditions of
		the Cardiovascular and Pulmonary System	conditions of
		CO3. Understand and apply the outcome measures related to various of	conditions of
		the Musculoskeletal System.	
		CO4. Understand and apply the outcome measures used in the evaluat	tion of pain,
		obesity and anthropometry.	-
		CO5. Understand and apply the outcome measures related to various a	aspects of the
		Sports.	
		CO6: To design the evaluation and assessment methods participation	measures
7	Course	The course contains the knowledge of different outcome measures use	ed in the
	Description	evaluation of different systems of the body.	
8	Outline syllabus		CO
			Mapping
	Unit 1	Nervous System- Higher Mental Functions, Cranial	CO1
		Nerves, Perception, Cognition, Sensory Assessment,	
		Motor Assessment (Joint mobility, muscle strength, LLD,	
		girth measurement), Joint Mobility, Tone, Reflexes	
	٨	(Fininitive, Superincial Outcome measures related to predictric and Neonatal conditions	
	B	Outcome measures related to Neurological conditions	
	<u>Б</u> С	Outcome measures related to Geriatric conditions	
	Unit 2	Cardia Vascular & Pulmonary System[ 20 hrs] Vita]	CO2
		parameters Chest expansion Symmetry of chest	02
		movement, Breath Sounds & heart sound, Exercise	
		Tolerance - six minutes walk test, Theoretical bases of	
		Bruce's protocol, PFT, X-ray Chest, Ankle Brachial	
		Index,	
1	Α	Outcome measures used in ICU	
	В	Outcome measures related to Cardiac conditions	



		Ov	erviev	w of SC	AP Fo	ormat &	ICF	Format	, Detaile	ed				
		Sp Ele	ecial t ectrod	ests for iagnosti	spine.	, upper l s: EMG/	imb a NCV	and low √	er limb.					
А		Ou	Outcome measures related to upper limb											
В		Out	Outcome measures related to spine											
С		Out	Outcome measures related to lower limb											
Unit 4		Pai	Pain, Obesity and Anthropometry										CC	)4
А		Out	Outcome measures related to Pain											
B		Out	Outcome measures related to obesity											
C	Anthropometric measures									00	- 00			
Unit 5		Spo	orts										CO	5,00
A	Pre	Partic	ipation	measu	ires									
В		On	field r	neasure	s									
C	c	Off	field	measure	es									
Mode of	t 	Pra	ctical											
examina	ation													
Weighta	ige	CA 25	CA EIE 25 75											
Text bo	ok/s*	4. Susan B O's Sullivan, Physical Rehabilitation, Assessment and								and				
		-	treatment, F A Davis Company											
		5.	5. Magee, Orthopaedic Physical examination, Saunders Elsevier											
		6.	<ol> <li>Patricia Downie, Cash textbook of Physiotherapy in neurological conditions, JP Publications.</li> </ol>											
Other	ces	3. E	3. Donnatelli, Orthopaedic Physical therapy, Churchill Livingstone Elsevier.											
Keleleli		DO	DO	PO4	PO	PO6	PO	PO8	PO9	PO	PO	PS	PSO	PSC
POs	PO1		P()			100	10	100	107	10	11	01	2	150
POs COs	PO1	2 2	20 3	101	5		7			10				3
POs COs CO1	PO1 3	2 3	PO 3 3	3	5 3	3	7 3	2	3	3	3	3	3	3
POs COs CO1 CO2	PO1 3 3	2 3 2	PO 3 3 3	3	10       5       3       2	3	7 3 2	2 3	3 2	3	3	3	3	3 3 3
POs COs CO1 CO2 CO3	PO1 3 3 1	PO 2 3 2 3	PO 3 3 2	3 2 3	10       5       3       2       3	3 3 2	7 3 2 3	2 3 3	3 2 3	3 3 2	3 3 3	3 2 3	3 2 3	3 3 3 2
POs COs CO1 CO2 CO3 CO4	PO1 3 3 1 3	PO       2       3       2       3       3	PO 3 3 3 2 3	3 2 3 3	2 3 3 3	3 3 2 3	7 3 2 3 3	2 3 3 3	3 2 3 3	3 3 2 3	3 3 3 3	3 2 3 3	3 2 3 3	3 3 3 2 3
POs COs CO1 CO2 CO3 CO4 CO5	PO1 3 3 1 3 3 3	PO 2 3 2 3 3 3 3	PO 3 3 2 3 3 3	3 2 3 3 3 3	10       5       3       2       3       3       3       3       3	3 3 2 3 3 3	7 3 2 3 3 3 3	2 3 3 3 3 3	3 2 3 3 3	3 3 2 3 3	3 3 3 3 3 3	3 2 3 3 3	3 2 3 3 3	3 3 2 3 3 3
POs COs CO1 CO2 CO3 CO4 CO5 CO6	PO1 3 3 1 3 3 2	PO 2 3 2 3 3 3 3 3	PO 3 3 2 3 3 1	3 2 3 3 3 1	10       5       3       2       3       3       3       3       2       3       3       2	3 3 2 3 3 3 3	7 3 2 3 3 3 1	2 3 3 3 3 2	3 2 3 3 3 3 3	3 3 2 3 3 3 3	3 3 3 3 3 2	3 2 3 3 3 1	3 2 3 3 3 2	3 3 2 3 3 2 2



## Sixth Semester

S	chool: SSAHS	Batch: 2023-2027						
Pro	gramme: BPT	•						
B P	Franch: Hysiotherapy	Semester: 6 ^h semester						
1	Course Code	PTB 311						
2	Course Title	Obstetrics and gynecology						
3	Credits	2						
4	Contact Hours (L-T- P)	2-0-0						
	Course Type	СС						
5	Course Objective	The student will be able to Understand the importance of in gynecology, the basic concepts of techniques, the importan gynecological conditions and procedures (in brief). Know the anat & Pathophysiolgy of reproductive system and its common condition	n obstetrics and ice of common omy, Physiology on					
6	Course	CO1 - understanding of the changing knowledge base in this clinic	al area					
	Outcomes	CO2- Understand the physiology and anatomy of pregnancy, menstruation.						
		CO3- Understand the pathophysiology of various medical condition women health.	on related to					
		CO4- Identify the legal and safety issue associated with women we physical need.	ith specific					
		CO5 - Plan, and treatment Programmes for specific women's grou community and family planning	ps of the					
		CO6 – To compile the observations and findings for development various gynecological conditions	and planning of					
7	Course Description	In this course the student will learn about the various medical cond women health, technique, and effects of physiotherapy in various of gynecological conditions.	lition related to obstetrics and					
8	Outline syllabu	ls	CO Mapping					
	Unit 1	Introduction						
	А	Anatomy of female reproductive system	CO1,CO2					
	В	physiology of female reproductive system	CO1,CO2					



C	Basic prince prognosis o	iples of clinical of female reprodu	examination, in active system	vestigation, diagnosis,	C01,C02
Unit 2	Obstetrics				
A	Physiologic menstruatio	CO2,CO3			
В	Normal Lat Obstetrical	CO2,CO3			
С	Operative p	CO2,CO3			
Unit 3	Gynecolog				
А	Menstrual a	CO3,CO4			
В	Reproductiv secondary Hirsutism, o	CO3,CO4,CO			
С	Endometric managemer	CO3,CO4			
Unit 4	Other gyne				
А	Genital pro	C03,C04,C0			
В	Common u	CO3,CO4			
С	Cancer scre	ening - genital,	breast.		C03,C04.C0
Unit 5	FAMILY I				
A	Contracepti issues	on - Temporary	methods, Pern	nanent methods. Legal	CO4,CO5
В	MTP Act an	nd procedures of	f MTP in first a	& second trimester	CO4,CO5,CO
С	Emergency	contraception			CO4,CO5,CO
Mode of examination	Theory/Jury	y/Practical/Viva			
Weightage	CA	MTE	ETE		
Distribution	25%	25%	50%		
Text book/s*	1. C.S. 2. Nov 3. Fam	Dawn's Text bo vacs Gynecology nily Planning Pra	bok of Obstetrie Jeffcoat's Prin actices by SK (	cs and Neonatology nciple of Gynaecology Chaudhary	
Other					



POs	PO	PO2	PO	PO	PO	PO	PO	PO	PO	PO1	PO1	PSO	PSO	PSO
COs	1		3	4	5	6	7	8	9	0	1	1	2	3
CO1	3	2	1	3	3	2	1	3	3	2	1	2	3	3
CO2	3	1	3	3	1	3	2	2	2	3	2	3	3	2
CO3	3	3	2	2	3	2	3	3	3	3	3	2	2	2
CO4	2	3	3	3	2	3	2	1	3	2	3	3	3	2
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	2
CO6	1	2	2	3	1	2	3	1	2	1	3	2	2	3
Averag e PO's	2.5	2.1 6	2.33	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.5	2.66	2.3

2-Moderate (Medium)



Pro	gramme: BPT	•					
B	Franch:	Semester: 6 th semester					
P	hysiotherapy						
1	Course Code	PTB 312					
2	Course Title	Cardiovascular Sciences including lympathic system					
3	Credits	2					
4	Contact Hours	2-0-0					
	(L-T-P)						
	Course Type	СС					
5	Course Objective	<ol> <li>The objective of this course is that after lectures, demonstrations, praclinics the student will be able to identify cardio respiratory dysfunct</li> <li>The students will be able to identify the signs and symptoms of cardi conditions.</li> <li>The students will be able to identify medical and surgical manageme cardiovascular and pulmonary conditions</li> </ol>	actical and tion. to respiratory ent of				
6	Course Outcomes	<ul> <li>The student will be able to:</li> <li>CO1: Recalling the anatomy and physiology of cardiovascular and system</li> <li>CO2: Remembering the etiology, pathology, clinical features and surgical management of various diseases/disorders affecting the car and pulmonary conditions.</li> <li>CO3: Understanding the basic concepts of diagnostic assessment cardiovascular and pulmonary diseases/disorders.</li> <li>CO4: Understanding the basic concepts of medical and surgical man various cardiovascular and pulmonary diseases/disorders.</li> <li>CO5: Understanding the objective examination of cardiovascular and conditions</li> <li>CO6: To evaluate and assess various cardiovascular conditions and of medical management</li> </ul>	pulmonary medical or diovascular of various agement of pulmonary design their				
7	Course Description	The objective of this course is that after lectures and demonstration in a clinics the student will be able to demonstrate an understanding of Card conditions causing disability and their management. Particular effort is made in this course to avoid burdening the student w detail pertaining to diagnosis which will not contribute to their understa limitations imposed by cardiovascular pathology on the functioning of t individual.	dditionto lio- thoracic ith any nding of the the				
8	Outline syllabu	s	CO Mapping				
	Unit 1	Anatomy and Physiology					



А	Respiratory system-	CO1,
	Upper and Lower respiratory tract–Trachea, Bronchial tree, Broncho- pulmonary segments, Respiratory unit, hilum of lung, Pleura, intra pleural space, intrapleural pressure, surfactant.	02
	Muscles of respiration	
В	Cardio vascular system-	CO1,
	Chambers of heart, semi-lunar and atrioventricular valves, Coronary circulation, conductive system of heart, Cardiac cycle, ECG, Heart sounds, Blood pressure, pulse, cardiac output.	CO2
С	Mechanics of respiration – Chest wall movements, lung & chest wall compliance, V/Q relationship, airway resistance , Respiratory center	CO1, CO2
Unit 2	Cardiopulmonary system	
A	Definition ,etiology , pathogenesis , clinical features and management of the following disorders: Coronary heart disease, Heart failure, Cardiac arrest, Rheumatic fever, Hypertension, Infective endocarditis, Myocarditis & cardiomyopathy, Congenital Heart diseases, Valvular heart disease, Cardiac tumors, Peripheral Vascular Disease ( beurger's disease, raynauld's disease, Deep vein thrombosis, Thromboangitis obliterans ),	CO1, CO2 CO3
В	Definition, etiology pathogenesis, clinical features and management of the following disorders: COPD, Respiratory failure, Asthma, Bronchiectasis, Cystic Fibrosis, Upper Respiratory Tract Infections, Pneumonia, Tuberculosis, Interstitial Lung Diseases and Diseases of the pleura, diaphragm and chest wall.	CO1, CO2, CO3
С	Examination of the Cardio-vascular System: ECG, Exercise Stress Testing, Radiology, Examination and Investigations of diseases of arteries and veins, Examination of the Respiratory System – Breath sounds, Chest Radiographs, Pulmonary Function Testing, Arterial Blood Gas Analysis	CO3,CO5, CO6
Unit 3	RESPIRATORY SYSTEM	
A	Chest wall disorders Definition, Clinical features, diagnosis and management for the following disorders– Chest wall deformities, Chest wall tumors, Pneumothorax, Pleural Effusion, Empyema Thoracis, Lung abscess	CO1,C O2,CO3
В	Cancers and tumors - Bronchogenic Carcinoma, Bronchial Adenomas, Metastatic tumors of the Lung, tracheal Stenosis, Congenital trachea malacia	CO1,C O2,CO3
С	Neoplasms of the trachea, Lesions of the Mediastinum.	CO2,C



Unit 4	Lymphatic syst	tem								
A	Lymph and its c of lymph , lymp	compositi h nodes a	on, lymphatic vessels, lymphatic ducts, flow and its functions	CO3,0 O4						
В	Major accessory	/ lympath	ic organs( tonsils, spleen , thymus)	CO3,0 O4						
	General functio Blood, Returns Hemopoiesis, B	ns of lyn Large M ody Defe	nphatic system (Returns Fluid from Tissues to olecules to Blood, Absorb and Transport Fats, ense/Immunity)							
С	Diseases of Lyn Edema Metastatic Cano	iseases of Lymphatic System : lema etastatic Cancers								
	Hodgkin Disease Non-Hodgkin Lymphoma									
	Lymphadenitis									
	Lymphangitis Lymphocytosis									
Unit 5	REGULATIO	N OF RE	CSPIRATION							
А	Neural & chemi	cal regul	ation of respiration	CO1,0 O2						
В	Lung volumes a	nd lung o	capacities, Spirometer, lung function test	CO3,0 O5						
С	Pulmonary circu	ulation, L	ung sounds, cough reflex.	CO3,0 O5,C0						
Mode of examination	Theory/Jury/Pra	actical/Vi	va	- , -						
Weightage	CA	MTE	ETE							
Distribution	25%	25%	50%							



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

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	3	3	2	2	3	3	1	1	3	1	3	3	3
CO2	2	2	3	3	1	2	1	2	3	2	3	2	2	3
CO3	2	3	3	3	3	3	3	3	3	3	3	2	3	3
CO4	3	1	2	2	2	1	2	2	2	1	2	3	2	2
CO5	3	3	2	3	3	3	3	3	3	3	3	3	3	2
CO6	1	2	1	1	3	2	3	1	2	2	3	3	2	2
Average PO's	2.33	2.33	2.33	2.33	2.33	2.33	2.5	2	2.33	2.33	2.5	2.66	2.5	2.5

2-Moderate (Medium)



S	chool: SSAHS	Batch: 2023-2027	
Pro	gramme: BPT	•	
B	Branch:	Semester: 6 th semester	
P	hysiotherapy		
1	Course Code	PTB 313	
2	Course Title	Respiratory System	
3	Credits	1	
4	Contact Hours	1-0-0	
	(L-T-P)		
	Course Type	СС	
5	Course	1. To impart the Knowledge and skills related to respirate	ory system diseases.
	Objective	2. To teach clinical aspects, manifestations, investigation	s and approach to
		the diseases of the respiratory system.	
		3. To master these skills among learners and review their	rknowledge
_	0	constantly.	
6	Course	The student will be able to:	
	Outcomes	cor. To recognize and initiate assessment for diseases of	the respiratory
		CO2: To understand the basic principles of Pulmonary me	licine
		CO3: To secure the pulmonary disease diagnosis and relate	ad implications
		CO4: To use Aids and appliances to Initiate breathing asse	ssment.
		CO5: To perform in and be part of respiratory care team.	
		CO6: To evaluate and assess various pulmonary conditions	and design their
		medical management	
7	Course	Pulmonary medicine covering the respiratory system is an i	nnortant aspect of
<i>'</i>	Description	clinical learning. It is as per the standard clinical curriculum	
8	Outline syllabu	s	CO Mapping
	Unit 1	Functional Anatomy, Physiology, and Investigations.	
	A	Applied anatomy and Physiology	CO1, CO2
	В	Lung defense	CO1, CO2
	С	Pulmonary investigations	CO1.
			CO2,CO6
	Unit 2	Major manifestations of respiratory diseases.	
	А	Dyspnea	CO1, CO3
	В	Chest pain	CO1, CO3



<b>RESPIRATO</b> Obstructive a COPD	RY SYSTI	EM							
Obstructive a COPD	nd restrictiv	<b>RESPIRATORY SYSTEM</b>							
COPD		ve diseases	C01,C03						
			CO1,CO3						
Tumors			CO1,CO3						
Infections of t	he respirato	ory system							
Upper respirat	Upper respiratory tract infections								
Pneumonias in	Pneumonias including Covid-19								
Pulmonary TB	C02,C04,C0								
Diseases of p									
Diseases of the	e pleura		C01,C05						
Diseases of the	e diaphragm	1	CO1,CO5						
Deformities of	the chest w	vall.	C01,C05,C0						
Theory/Jury/P	ractical/Viv	'a							
СА	MTE	ETE							
25%	25%	50%							
<ol> <li>Harrison's F Petersdorf (Md</li> <li>Cecil Text</li> <li>Crofton &amp; E al (Oxford)</li> </ol>									
4. Pulmon (McGraw Hill)	4. Pulmonary diseases & disorders by Fishman (McGraw Hill)								
	Tumors Infections of t Upper respirat Pneumonias in Pulmonary TB Diseases of p Diseases of the Deformities of Theory/Jury/P CA 25% 1. Harrison's I Petersdorf (Me 2. Cecil Text 3. Crofton & I al (Oxford) 4. Pulmon (McGraw Hill 5. 5. Text	Tumors         Infections of the respiratory tract infections of the respiratory tract infection of the series of the diaphragm         Pulmonary TB         Diseases of pleura, diap         Diseases of the pleura         Diseases of the chest of th	TumorsInfections of the respiratory systemUpper respiratory tract infectionsPneumonias including Covid-19Pulmonary TBDiseases of pleura, diaphragm and chest wallDiseases of the pleuraDiseases of the pleuraDiseases of the chest wall.Deformities of the chest wall.Theory/Jury/Practical/VivaCAMTEETE25%25%5. Cecil Text book of Medicine ed. Wyngaarden3. Crofton & Douglas Respiratory diseases ed. Seaton et al (Oxford)4. Pulmonary diseases & disorders by Fishman (McGraw Hill)5. Textbook on Pulmonary disease by Fraser & Pare						



						-	-							
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	3	3	2	2	3	3	1	1	3	1	3	3	3
CO2	2	2	3	3	1	2	1	2	3	2	3	2	2	3
CO3	2	3	3	3	3	3	3	3	3	3	3	2	3	3
CO4	3	1	2	2	2	1	2	2	2	1	2	3	2	2
CO5	3	3	2	3	3	3	3	3	3	3	3	3	3	2
C06	1	2	1	1	3	2	3	1	2	2	3	3	2	2
Average PO's	2.33	2.33	2.33	2.33	2.33	2.33	2.5	2	2.33	2.33	2.5	2.66	2.5	2.5

2-Moderate (Medium)



9	cnool: SSAHS	Batch: 2023-2027	
Pro	gramme: BPT	•	
Br Pł	anch: ivsiotherapy	Semester: 6 th semester	
1	Course Code	PTB 314	
2	Course Title	Environmental Health And Health Promotion	
3	Credits	1	
4	Contact	1-0-0	
	Hours		
	(L-T-P)		
	Course Type	SEC	
5	Course	1. To impart the Knowledge and skills related to environmental health ar	nd
	Objective	health promotion.	
	-	2. To teach environmental health promotion required to be both a team	
		member and a team leader in either an in-hospital or out-of-hospital s	etting.
		3. To master these skills among learners and review their knowledge cor	istantly.
6	Course	CO1: 1. To Integrate philosophical, ethical, epidemiological, and environmental	issues in
	Outcomes	the analysis of health promotion, health education, and compliance theories and c	oncepts.
		CO2: 2. Relate health belief models to observed health behaviors of individuals thr	oughout
		the lifespan.	
		spiritual variables on client health and health promotion	iral, and
		CO4: Identify sources and routes of environmental exposures to chemical physic	al
		and biological hazards for defined populations.	,
		CO5: Specify approaches for assessing, preventing and controlling environmenta	l hazards
		that pose risks to human health and safety	
		CO6: To incorporate various environmental and health strategies into daily	practice
7	Course	Topics covered include basic principles of exposure assessment; essentials of env	ironmental
	Description	history-taking, and laws and regulations relating to environmental health and heal	th
		promotion. Clinical topics include heavy metal exposures; and environmental lung	g diseases,
		noise induced hearing loss, neurotoxicants, MSK injuries, and travel medicine. Re	egulatory and
		other approaches to reduce exposure will be examined and important public near	n
8	Outline syllabu	s	CO
0	Outline synabu		Manning
	Unit 1	Health and health promotion	wapping
	A	Basic Concepts and definitions	CO1. CO2
	B	Risk Assessment & Strategies for Health Promotion	CO1,CO2
	С	Health promotion for different populations.	CO1,CO2,
			CO6
	Unit 2	Air Pollutions and Health	
	Α	AQI-PM 2.5and PM 10	CO1, CO3
	В	Indoor Pollution	CO1, CO3



C	Strategies for air pollutio	on		CO1
Unit 3	Water pollution			
A	Water filtration and trea	atments		CO1
B	Natural mineral water y	versus RO water		C01
	Water storage, recyclin	g and policies		C01
Unit 4	Indoor environment	g, and policies		01
A	AC			CO2
В	Indoor lighting			CO2
С	Lifestyle and Physical act	tivity for health		CO2
T	Environmental health	numetion		CO6
	Technology and its usage			COL
A		E		01
В	Assessment for risk			CO1
C				C06
C	Local and Global outlook	¢ (		COI
Mode of				
examination				
Weig	CA	MTE	ETE	
htage	25%	25%	50%	
Distri				
butio				
n Text book/s*	Barry R G 2003	Atmosphere We	ather and Climate Routledge	Pross IIK
	Philander, S.G. 2 Change (2nd edi	012. Encyclopedia tion). Sage Publica	of Global Warming and Clim tions.	ate
	Textbook of Clin Linda Rosenstoc	ical and Environme k, Mark Cullen, Ca	ental Medicine, 2nd Edition, 2 I Brodken, and Carrie Redlich	2004, by 1
Other References	Grimm, N. B., Fa Cities. Science 3	eth, S. H., et al. 20 19: 756-760.	08. Global Change and the Ec	ology of
	Morgan, M.T. (2	003). Environment	al Health. (3rd ed.). Belmont	, CA:



POs	PO	PO	PO	PO	PO5	PO	PO	PO8	PO	PO	PO1	PSO	PSO	PSO
COs	1	2	3	4		6	7		9	10	1	1	2	3
CO1	3	3	3	3	3	2	3	3	3	2	3	3	2	3
CO2	1	3	2	3	1	3	2	3	2	3	3	2	3	3
CO3	3	3	3	2	3	3	3	3	3	3	3	3	2	3
CO4	2	3	1	3	2	3	3	1	3	3	3	3	3	3
CO5	3	2	3	3	3	3	3	3	2	3	3	3	3	3
CO6	2	3	1	2	2	2	3	2	1	2	3	2	3	2
Averag					2.3									
e PO's	2.33	2.83	2.16	2.66	3	2.66	2.83	2.5	2.33	2.66	3	2.66	2.66	2.83

2-Moderate (Medium)



S	chool: SSAHS	Batch: 2023-2027
Pro	gramme: BPT	
B P	Branch: Physiotherapy	Semester: 6 th semester
1	Course Code	PTB 315
2	Course Title	Community Medicine
3	Credits	2
4	Contact Hrs	2-0-0
	(L)	
	Course Type	CC
5	Course Objective	The objective of this course is that after 60 hrs of lectures and discussion the student will be able to demonstrate an understanding of various aspects of health and disease list the methods of health administration, health education and disease preventive measures.
6	Course Outcomes	The student will be able to: 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 an in treatment	d home remedies
		CO4:To understand various aspect of health and disease in community	
		CO5: To understand health education and disease preventive measure	es.
		CO6: To be ready to go in community for serving by spreading awar	eness.
7	Course	Subject follows the basic science subjects to provide the knowledge a	about
	Description	conditions the therapist would encounter in their practice in the comm	nunity
8	Outline syllab	15	СО
			Mapping
	Unit 1	Introduction	
	А	Health and Disease	CO1, CO
	В	Epidemiology, definition and scope	C01,C02
	С	Public health administration	CO1,CO2
	Unit 2	Policies and control management	
	A	Health Programme in India	C01, C0
	В	Hospital waste management	CO3,CO6
	С	Disaster Management	CO5,CO6
	Unit 3	Occupational health	
	A	Occupational environment, Occupational hazards, Occupational diseases	CO2, CO
	В	Prevention of occupational diseases	CO3,CO6
	С	Nutritional education	CO3,CO6
	Unit 4	National schemes and acts	CO4, CO
	А	National health care and delivery system	CO4,CO
	В	Introduction to quality and patient safety	CO5,CO
	С	Health Education	CO6
	Unit 5	Health management	
	А	Mental health	CO4, CO
	В	Approaches to health education	CO5,CO
	С	Principles of health education	CO5,CO



Mode of examination	Theory			
Weightage	CA	MTE	ETE	
Distribution	25%	25%	50%	
Text book/s*	Park and Park			

POs	PO	PO	Р	PO	PO	PO	РО	PO8	РО	PO	PO11	PSO1	PSO2	PSO3
COs	1	2	0	4	5	6	7		9	10				
			3											
CO1	3	2	1	3	3	2	1	3	3	2	1	3	2	3
CO2	3	1	3	3	1	3	2	2	2	3	2	2	3	3
CO3	3	3	2	2	3	2	3	3	3	3	3	3	2	3
CO4	2	3	3	3	2	3	2	1	3	2	3	3	3	3
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO6	1	2	2	3	1	2	3	1	2	1	3	2	3	2
Avera														
ge														
PO's	2.5	2.16	2.33	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.66	2.66	2.83

2-Moderate (Medium)



S	chool: SSAHS	Batch: 2023-2027					
Pro	gramme: BPT	•					
Bı	ranch:	Semester: 6 th semester					
Pł	nysiotherapy						
1	Course Code	PTB 316					
2	Course Title	Interpretation of Diagnostic imaging technology					
3	Credits	2					
4	Contact Hours (L)	2-0-0					
	Course Type	Compulsory					
5	Course Objective	This course covers the study of commondiagnostic and therapeutic At the end of the course students will be aware of the indications ar of commonly used diagnostic imaging tests as they pertain to patient's management.	Imaging tests. nd implications				
6	Course Outcomes	The student will be able to: CO1:Understand the CLINICAL and TECHNICAL (including, the scien 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 procedures, safety issues in Radiology clinic CO5: To understand interpretation of CT and MRI CO6: To correlate the physical findings with Radiographic findings	ce and  alpractice				
7	Course Description	The course will cover that howX-Ray, CT, MRI, Ultrasound and O Images are created and how they help the health professionals tosay	ther Medical ve lives.				
8	Outline syllabu	CO Mapping					
	Unit 1	Introduction	11 0				
	А	Image interpretation of various investigations	CO1, CO2				
	В	History and how medical image helps	CO1, CO2				
	С	What imaging studies reveals-Interpretation	CO1, CO2				
	Unit 2	RADIOGRAPHY					
	А	Procedures for radiography	CO1, CO3				
	В	mammography	CO2,CO4				
	С	Indications and contraindications of radio andmammography	CO2,CO6				
	Unit 3	FLUROSCOPY	CO2, CO3				
	А	Fluoroscopy and US	CO4,CO5,C O6				
	В	Procedure of fluoroscopy and US					
	С	Indications and contraindications of variousradiographs					
	Unit 4	MRI					
	А	MRI	CO4,CO5				
	В	Equipment used in MRI	CO5 CO6				



C	Procedure indications a	nd contraindic	ationsMRI	CO4, CO5			
Unit 5	CT SCAN						
А	Equipment used in CT s	CO4, CO5					
В	Procedure indications a	nd contraindic	ations Ctscan	CO5,CO6			
С	Radiation protection, TL Patient care	.D, TDS ROLE,	Basics of AERB guide line,	CO5,CO6			
Mode of examination	Theory						
Weightage	CA	MTE	ETE				
Distribution	30%	30% 20% 50%					
Text book/s*	Textbook of radiology	Textbook of radiology					
Text book/s*	Textbook of radiology						

Averag PO's	^{ge} 2.5	2.33	2.33	2.16	2.33	2.33	2.33	2.16	2.16	2.33	2.16	2.66	2.66	2.83
CO6	1	2	2	3	1	2	3	1	2	1	3	2	3	2
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO4	2	3	1	3	2	3	2	1	3	2	2	3	3	3
CO3	3	3	2	2	3	2	3	3	1	3	3	3	2	3
CO2	3	2	3	1	3	3	2	2	2	3	2	2	3	3
CO1	3	2	3	3	2	2	3	3	3	2	1	3	2	3
POsCO	PS PO	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3

2-Moderate (Medium)



## PRACTICAL

S	School: SSAHS	Batch : 2022-26				
F F	Programme: BPT	Current Academic Year: 2022-23				
F	Branch:	Semester: 6 th semester				
F	Physiotherapy					
1	Course Code	PTB 341				
2	Course Title	Obstetrics and gynecology (Practical)				
3	Credits	1				
4	Contact Hours	2-0-0				
	(L-T-P)					
	Course Type	Compulsory /Elective/Open Elective				



5	Course Objective	The student will be able to Understand the importance of in obstetric the basic concepts of techniques, the importance of common gyneco and procedures (in brief). Know the anatomy, Physiology & F reproductive	s and gynecology, logical conditions Pathophysiolgy of					
		system and its common condition						
6	Course	CO1 - understanding of the changing knowledge base in this clinicated	al area					
	Outcomes	CO2- Understand the physiology and anatomy of pregnancy,						
		menstruation.						
		CO3- Understand the pathophysiology of various medical condition health.	related to women					
		CO4- Identify the legal and safety issue associated with women with physical need.	th specific					
		CO5 - Plan, and treatment Programmes for specific women's group community and family planning	os of the					
		CO6 – To compile the observations and findings for development a various gynecological conditions	and planning of					
7         Course         In this course the student will learn about the various medic           Description         women health, technique, and effects of physiotherapy in various gynecological conditions.		In this course the student will learn about the various medical cond women health, technique, and effects of physiotherapy in various of synecological conditions	ition related to bstetrics and					
		gyneeological conditions.						
8	Outline syllabu	IS	CO Mapping					
8	Outline syllabu Unit 1	Is Introduction	CO Mapping					
8	Outline syllabu Unit 1 A	Introduction Anatomy of female reproductive system	CO Mapping CO1,CO2					
8	Outline syllabu Unit 1 A B	Introduction Anatomy of female reproductive system physiology of female reproductive system	CO Mapping CO1,CO2 CO1,CO2					
8	Outline syllabu Unit 1 A B C	Introduction Anatomy of female reproductive system physiology of female reproductive system Basic principles of clinical examination, investigation, diagnosis, prognosis of female	CO Mapping CO1,CO2 CO1,CO2 CO1,CO2,CO6					
8	Outline syllabu Unit 1 A B C	Is Introduction Anatomy of female reproductive system physiology of female reproductive system Basic principles of clinical examination, investigation, diagnosis, prognosis of female reproductive system	CO Mapping CO1,CO2 CO1,CO2 CO1,CO2 CO1,CO2,CO6					
8	Outline syllabu Unit 1 A B C Unit 2	Introduction Anatomy of female reproductive system physiology of female reproductive system Basic principles of clinical examination, investigation, diagnosis, prognosis of female reproductive system Obstetrics	CO Mapping CO1,CO2 CO1,CO2 CO1,CO2,CO6					
8	Outline syllabu Unit 1 A B C Unit 2 A	Introduction         Anatomy of female reproductive system         physiology of female reproductive system         Basic principles of clinical examination, investigation, diagnosis, prognosis of female         reproductive system         Obstetrics         Physiological changes during pregnancy, Physiology of menstruation	CO Mapping CO1,CO2 CO1,CO2 CO1,CO2,CO6 CO2,CO3					
8	Outline syllabu Unit 1 A B C Unit 2 A B	gynecological conditions.         Introduction         Anatomy of female reproductive system         physiology of female reproductive system         Basic principles of clinical examination, investigation, diagnosis, prognosis of female         reproductive system         Obstetrics         Physiological changes during pregnancy, Physiology of menstruation         Normal Labor and Delivery , Complication in early pregnancy, Obstetrical complications during pregnancy	CO Mapping CO1,CO2 CO1,CO2 CO1,CO2,CO6 CO2,CO3 CO2,CO3					
8	Outline syllabu Unit 1 A B C Unit 2 A B C	gynecological contributions.         Introduction         Anatomy of female reproductive system         physiology of female reproductive system         Basic principles of clinical examination, investigation, diagnosis, prognosis of female         reproductive system         Obstetrics         Physiological changes during pregnancy, Physiology of menstruation         Normal Labor and Delivery , Complication in early pregnancy, Obstetrical complications during pregnancy         Operative procedures in Obstetrics	CO Mapping CO1,CO2 CO1,CO2 CO1,CO2,CO6 CO2,CO3 CO2,CO3 CO2,CO3,CO6					
8	Outline syllabu Unit 1 A B C Unit 2 A B C Unit 3	Introduction Anatomy of female reproductive system physiology of female reproductive system Basic principles of clinical examination, investigation, diagnosis, prognosis of female reproductive system Obstetrics Physiological changes during pregnancy, Physiology of menstruation Normal Labor and Delivery, Complication in early pregnancy, Obstetrical complications during pregnancy Operative procedures in Obstetrics Gynecology	CO Mapping CO1,CO2 CO1,CO2 CO1,CO2 CO1,CO2,CO6 CO2,CO3 CO2,CO3 CO2,CO3					



Reproductive amenorrhea, ovulation and	Endocrinolog management PCOD	y: Evaluation of primary and secondar of hyperprolactinemia, Hirsutisn	y CO3,CO4 h,
Endometriosi management	s and adenomy	osis - medical and surgical	CO3,CO4
Other gynec	ological condi	tions	
Genital prola	pse, surgical m	anagement of genital prolapse.	CO3,CO4
Common uro	logical probler	ns in gynaecology	CO3,CO4
Cancer screen	ning - genital, I	preast.	CO3,CO4,C
FAMILY PI	ANNING		
Contraception issues	CO4,CO5,C		
MTP Act and	CO4,CO5,C		
Emergency c	CO4,CO5		
Theory/Jury/J	Practical/Viva		
СА	MTE	ETE	
25%	25%	50%	
1. C.S.D 2. Novac 3. Famil			
	Reproductive amenorrhea, ovulation and Endometriosi management Other gynec Genital prola Common uro Cancer screen FAMILY PI Contraception issues MTP Act and Emergency c Theory/Jury/ CA 25% 1. C.S.E 2. Novad 3. Famil	Reproductive Endocrinolog amenorrhea, management ovulation and PCOD         Endometriosis and adenomy management         Other gynecological condi         Genital prolapse, surgical m         Common urological probler         Cancer screening - genital, I         FAMILY PLANNING         Contraception - Temporary issues         MTP Act and procedures of         Emergency contraception         Theory/Jury/Practical/Viva         CA       MTE         25%       25%         1. C.S.Dawn's Text bo       2. Novacs Gynecology         3. Family Planning Pra	Reproductive Endocrinology: Evaluation of primary and secondar amenorrhea, management of hyperprolactinemia, Hirsutism ovulation and PCOD         Endometriosis and adenomyosis - medical and surgical management         Other gynecological conditions         Genital prolapse, surgical management of genital prolapse.         Common urological problems in gynaecology         Cancer screening - genital, breast.         FAMILY PLANNING         Contraception - Temporary methods, Permanent methods. Legal issues         MTP Act and procedures of MTP in first & second trimester         Emergency contraception         Theory/Jury/Practical/Viva         CA       MTE         ETE         25%       25%         1. C.S.Dawn's Text book of Obstetrics and Neonatology         2. Novacs Gynecology Jeffcoat's Principle of Gynaecology         3. Family Planning Practices by SK Chaudhary


POs	РО	PO	Р	PO	РО	РО	PO	РО	PO	РО	PO11	PSO1	PSO2	PSO3
COs	1	2	0	4	5	6	7	8	9	10				
			3											
CO1	3	3	2	3	3	3	3	2	2	1	2	2	3	2
CO2	3	2	3	1	3	3	2	2	2	3	2	2	3	3
CO3	3	3	2	2	3	2	3	3	2	3	3	3	2	3
CO4	2	3	1	3	2	3	2	1	3	2	2	3	3	3
CO5	3	2	3	3	3	2	1	3	2	3	2	2	3	3
CO6	1	2	2	3	2	2	3	3	2	1	3	2	3	2
Averag e PO's	2.5	2.5	2.16	2.5	2.66	2.5	2.33	2.5	2.16	2.16	2.33	2.33	2.833	2.66

2-Moderate (Medium)



C.	abool SCAUS	Potob. 2022 2027								
Due	CHOOL: SSARS	Batch: 2023-2027								
Pro	gramme: DP I	•								
B	Franch:	Semester: 6 th semester								
	<b>nysiotnerapy</b>	DTD 242								
2	Course Code	r 1D 342 Cordiousseuler sciences including Lymphotic System (Prestical)								
2	Credits									
1	Contact									
4	Loura	0-0-2								
	(L-I-F)	00								
-	Course Status	CC								
5	Objective	1. The objective of this course is that after fectures, demonstrations, clinics the student will be able to identify cardio respiratory dysfu	practical and							
	Objective	2 The students will be able to identify the signs and symptoms of ca	rdio respiratory							
		2. The students will be able to identify the signs and symptoms of ca conditions	utilo respiratory							
		3. The students will be able to identify medical and surgical manage	ment of							
		cardiovascular and pulmonary conditions								
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.								
		rehabilitative measures for maximum possible functional independ	ence of a patient							
		at home work place & in community	ence of a patient							
		CO4: Be able to execute the effective measures with appropriate c	linical reasoning							
		to improve pulmonary function.	e							
		CO5: Understanding the basic concepts of diagnostic assessm	ent of various							
		cardiovascular and pulmonary diseases/disorders.								
		CO6: To evaluate and assess various cardiovascular conditions and	l design their							
-	-	medical management								
7	Course	Following the basic science and clinical science course, this course i	ntroduces the							
	Description	Student in cardio-thoracic conditions which commonly cause disabi	lity.							
		clinics the student will be able to demonstrate an understanding of (	Tardio_thoracic							
		conditions causing disability and their management.								
		Particular effort is made in this course to avoid burdening the studer	nt with any							
		detail pertaining to diagnosis which will not contribute to their unde	erstanding							
		of the limitations imposed by cardiovascular pathology on the funct	ioning of the							
		individual.								
8	Outline syllabu		CO Mapping							
	Unit 1	Cardiopulmonary Assessment								
	А	Brief	CO1, C02							
	В	Demonstration	CO1, C02							



С	Assesment to	ols and techni	ques, outcome measures.	CO1, C02					
Unit 2	Examination percussion n	of Heart and	l lung sounds and Intercost	al					
А	Brief			CO3,CO4					
В	Demonstratio	n		CO3,CO4					
С	Experimantat	tion		CO3,CO4					
Unit 3	Monitoring	of Blood Pres	sure, ECG, PFT and ABG						
А	Brief			CO3,C04					
В	Demonstratio	on		CO3,C04,					
С	Experimantat	tion		CO3,C04,					
Unit 4	Exercise stre	ess testing							
А	Brief			C01,C02					
В	Demonstratio	C01,C02							
С	Techniques								
Unit 5	Peripheral a	d Toe							
Δ	Brachial Ind	lex) and Lym	phedema stages	C01 C05					
D	Domonstratic	'n		C01.C05					
В	Demonstratio	Л		01,003					
C	Techniques			01,005					
Mode of	Practical/Viv	9							
examination	Theorem (1)	u							
	CA	MTE	ETE						
Weightage	25%	0%	75%						
Distribution									
Text book/s*	1. Cash Textb	ook of general	medical and surgical conditions	for physiotherapists- Do					
	Jaypee B	srothers.							
	2. Essential of Cariopulmonary physical therapy-Hillegass & Sadowsky W. B. Saunder								
	3. Cash textbook of Chest, Heart and Vascular Disorders for Physiotherapists- Downie-								
	Brothers.								
	4. The-Brompton Guide to Chest Physical therapy								
	<ol> <li>The Drompton Guide to Chest Physical inerapy</li> <li>Cardionulmonary Physical Therapy- Irwin and Tecknin Mosby</li> </ol>								
	6. Cardiovascular/Respiratory physiotherapy- Smith & Ball- Mosby								
	6 Cardiovas	cular/Respirato	ry physiotherapy_ Smith & Ball	- Moshy					



Oth	er		8. C	hest p	hysiot	herapy	in inter	nsive c	are uni	it- Macl	kenzie et a	al - Willia	ms and W	ilkins.		
refre	ences		9. C	ardiop	ulmon	ary Ph	ysical T	Therap	y- Don	na Frov	vn Feltter					
			10. 1	Under	standir	ng Meo	chanical	Venti	lation-	Hasan						
			11. Physiotherapy in respiratory Care- Hough													
			12. 1	Respir	atory I	Physio	iysiotherapy- Harden									
			Respi	ratory	Care-	Fink &	k Hunt									
POs	PO	PO	Р	PO	PO	PO	PO	PO	PO	PO	PO11	PSO1	PSO2	PSO3		
COs	1	2	0	4	5	6	7	8	9	10						
			3													
CO1	3	2	3	3	2	2	3	3	3	2	1	3	2	3		
CO2	3	2	3	1	3	3	2	2	2	3	2	2	3	3		
CO3	3	3	2	2	3	2	3	3	1	3	3	3	2	3		
CO4	2	3	1	3	2	3	2	1	3	2	2	3	3	3		
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3		
CO6	1	2	2	3	1	2	3	1	2	1	3	2	3	2		
Averag e PO's	2.5	52.33	2.33	2.16	2.33	2.33	2.33	2.	2.16	2.33	2.16	2.66	2.66	2.83		

2-Moderate (Medium)



S	chool: SSAHS	Batch: 2023-2027									
Pro	gramme: BPT	•									
B	ranch:	Semester: 6 th semester									
P	hysiotherapy										
1	Course Code	PTB 343									
2	Course Title	Respiratory System									
3	Credits	1									
4	Contact Hours	1-0-0									
	(L-T-P)										
	Course Type	CC									
5	Course	1. To impart the Knowledge and skills related to respiratory syste	m diseases.								
	Objective 2. To teach clinical aspects, manifestations, investigations and approach the diseases of the respiratory system.										
<ol> <li>To master these skills among learners and review their knowledge constantly.</li> </ol>											
6 Course The student will be able to:											
	Outcomes	CO1: To recognize and initiate assessment for diseases of the respiratory	system.								
		CO2: To understand the basic principles of Pulmonary medicine.									
		CO3: To secure the pulmonary disease diagnosis and related implications	. CO4:								
		To use Aids and appliances to Initiate breathing assessment.									
		COS: To perform in and be part of respiratory care team.									
		CO6: To evaluate and assess various pulmonary conditions and design their management	r medical								
7	Course	Pulmonary medicine covering the respiratory system is an important	aspect of								
	Description	clinical learning. It is as per the standard clinical curriculum.									
8	Outline syllabu	8	CO								
			Mapping								
	TT •4 1	Even d'an el Anederen Blandele en en l'Inne d'anderen									
	Unit I	r unctional Anatomy, r'nysiology, and investigations.									
	A	Applied anatomy and Physiology	CO1, CO2								
	В	Lung defense	CO1, CO2								
	С	Pulmonary investigations	CO1,								
			CO2,CO6								
	Unit 2	Major manifestations of respiratory diseases.									
	А	Dyspnea	CO1, CO								
	В	Chest pain	CO1, CO								
	С	Sputum production, & Haemoptysis	CO1, CO								
	Unit 3	RESPIRATORY SYSTEM									



	A			Ob	structi	ive an	d restric	tive dis	eases					CO1,CO	03	
	В			CO	PD									CO1,CO	03	
	С			Tur	nors									C01,C0	)3	
	Un	it 4		Inf	ection	s of th	e respira	ntory sy	stem							
	А			Upp	er res	pirato	ry tract i	nfectio	ns					CO2,CO4		
	В			Pneu	ımoni	as inc	luding C	Covid-1	9					CO2,CC	04	
	С			Puln	nonar	y TB								CO2,C0	04	
	Un	it 5		Dis	eases	of pl	eura, dia	aphrag	m and o	chest w	all					
	А			Dise	ases o	of the	pleura							CO1,CO	)5	
	В	B Diseases of the diaphragm												CO1,CO	)5	
	C Deformities of the chest wall.												CO1,CO	)5		
	Mode of Theory/Jury/Practical/Viva															
	WeightageCAMTEETE															
	Dis	stribu	tion	25%			25%	50	%							
	Te	xt boo	ok/s*	1. Ha	rrison	's Pri	nciples c	of Inter	nal Med	icine ed	l. Petersc	lorf (Mc	Graw H	ill)		
				2. C Croft	Cecil T on & I	ext b Doug	ook of N las Respi	ledicin iratory	e ed. Wy diseases	yngaard ed. Sea	en aton et al	(Oxford	l)			
	Oth Rei	her ferend	ces	4. 5. Te	Pu xtbool	lmona k on F	ary disea Pulmonai	ses & o y disea	lisorders ise by Fi	s by Fis raser &	hman (N Pare	IcGraw 1	Hill)			
POs		PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	
CO	1	3	2	3	3	2	2	3	3	3	2	1	3	2	3	
CO	2	3	2	3	1	3	3	2	2	2	3	2	2	3	3	
CO	3	3	3	2	2	3	2	3	3	1	3	3	3	2	3	
CO	4	2	3	1	3	2	3	2	1	3	2	2	3	3	3	
CO	5	3	2	3	1	3	2	1	3	2	3	2	3	3	3	
CO	6	1	2	2	3	1	2	3	1	2	1	3	2	3	2	
Avera PO	age 's	2.	2.33	2.33	2.16	2.33	2.33	2.33	2.16	2.16	2.33	2.16	2.66	2.66	2.83	
	1.0		(т. )	1	1	1	-1	1	1	I	1	1	I	1	1	

2-Moderate (Medium) 3-Substantial (High)



S	chool: SSAHS	Batch: 2023-2027									
Pro	gramme: BPT	•									
Br Ph	anch: Tysiotherapy	Semester: 6 th semester									
1	Course Code	PTB 344									
2	Course Title	ENVIRONMENTAL HEALTH AND HEALTH PROMOTION (Pra	ctical)								
3	Credits	1									
4	Contact	0-0-2									
	Hours										
	(L-T-P)										
_	Course Type										
5	Objective	1. to impart the skills related to environmental health and health prom	otion.								
	objective	<ol> <li>to inculcate environmental health promotion required to be both a team member and a team leader in either an in-hospital or out-of-hospital setting.</li> <li>to master these skills among learners and review their knowledge constantly.</li> </ol>									
6	Course Outcomes	CO1: 1. To show expertise in the analysis of health promotion, health education, and compliance theories and concepts. CO2: 2. To explain health belief models to observed health behaviors of individuals throughout the lifespan.									
		CO3: 3. To Analyze the effect of psychological, physiological, sociological, cul and spiritual variables on client health and health promotion. CO4: Identify sources and routes of environmental exposures to chemical, phys	ltural, ical,								
		and biological hazards for defined populations. CO5: Specify approaches for assessing, preventing and controlling environment	tal								
		hazards that pose risks to human health and safety	vpractico								
7	Course Description	Topics covered include basic principles of exposure assessment; essentials of environmental history-taking, and laws and regulations relating to environmental	[								
		health and health promotion. Clinical topics include heavy metal exposures; and									
		environmental lung diseases, noise induced hearing loss, neurotoxicants, MSK									
		exposure will be examined and important public health implications will be									
		discussed.									
8	Outline syllabu	IS	CO								
	-		Mappin								
	Unit 1	Health and health promotion									
	Α	Application of Basic Concepts and definitions	CO1, CO								
	В	Risk Assessment & Strategies for Health Promotion	CO1,CO2								
_	С	Application Health promotion for different populations.	C01,C02								
	Unit 2	Air Pollutions and Health									
	A A	Application of AOI-PM 2.5and PM 10	CO1, CO								
	B	Indoor Pollution	C01. C0								
	С	Strategies for air pollution	CO1 CO								



Unit 3	Water pol	lution							
Α	Applicatio	n of Water filtratio	n and treatments		CO1,C				
В	Natural mir	eral water versus F	O water		C01,0				
С	Water stora	ge, recycling, and p	oolicies		C01,0				
Unit 4	Indoor env	ironment							
A	AC				CO2,C				
В	Indoor lighti	ng			CO2,C				
С	Application	of Lifestyle and P	hysical activity for health	h	CO2,C				
Unit 5	Environme	ental health promo	otion						
Α	Technology a	and its usage			C01,0				
В	Assessment	Assessment for risk							
С	Application	Application of Local and Global outlook							
Mode of examination									
Weightage	CA		ESE						
Distribution		CE-VIVA	External Exam Pra	actical					
	25%	25%	50%						
Text book/s*	Barr UK Phila	y, R. G. 2003. Atmo nder, S.G. 2012. Er	sphere, Weather and Cli ncyclopedia of Global Wa	imate. Routledge Pr arming and Climate	ress, Chane				
	(2nd	edition). Sage Pub	lications.						
	Textbook of Clinical and Environmental Medicine, 2nd Edition, 2004, by Linda Rosenstock, Mark Cullen, Carl Brodken, and Carrie Redlich								
Other References	Grimm, N. B., Faeth, S. H., et al. 2008. Global Change and the Ecology of Cities. Science 319: 756-760.								
	Morgan, M.T. (2003). Environmental Health. (3rd ed.). Belmont, CA: Wadsworth/Thomason Learning.								



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO	PO1	PO11	PSO1	PSO2	PSO3
COs									9	0				
CO1	3	3	3	3	3	2	3	3	3	2	3	3	2	3
CO2	1	3	2	3	1	3	2	3	2	3	3	2	3	3
CO3	3	3	3	2	3	3	3	3	3	3	3	3	2	3
CO4	2	3	1	3	2	3	3	1	3	3	3	3	3	3
CO5	3	2	3	3	3	3	3	3	2	3	3	3	3	3
CO6	2	3	1	2	2	2	3	2	1	2	3	2	3	2
Average PO's	2.33	2.83	2.16	2.66	2.33	2.66	2.83	2.5	2.33	2.66	3	2.66	2.66	2.83

2-Moderate (Medium)



Sc	hool: SSAHS	Batch: 2023-2027								
Prog	gramme: BPT	•								
Bra Phy	anch: ysiotherapy	Semester: 6 th semester								
1	Course Code	PTB 345								
2	Course Title	Clinical Education – Systems interaction (CT)								
3	Credits	3								
4	Contact	0-0-6								
	Hours									
	(L-T-P)									
	Course Type	CC								
5	Course	1. To enable the students to perform reflective thinking for systems inte	raction.							
	Objective	2. To enable the students to make cognitive maps for systems interaction	n							
		3. To enable the students to perform clinical concept map of case present	ntation and							
		make implications for further assessment.								
6	Course	CO1: To perform reflective thinking.								
	Outcomes	CO2: To perform planning for assessment using cognitive								
		man CO3: To demonstrate development of clinical concept								
		map. COS. To demonstrate development of ennietal concept								
		COA: To demonstrate implications for further assessment								
		CO5: To demonstrate mastery of clinical assessment for systems interact	ion							
		CO6: To design the evaluation and assessment methods and physiotherau	nv							
		treatment for various conditions	29							
7	Course	Systems interaction in clinical settings represents a milestone for bette	r							
,	Description	national management. It is for all stakeholder's accountability and	n d							
	1	responsibility. It has reflective practice and concept maps as well								
		Physiotheranists within the scope of practice shall take part in this								
		effectively								
8	Outline syllab		CO							
0	outilite synuo		Manni							
	Unit 1	Reflective thinking	mappi							
	A	Introduction to reflection in action	CO1, C0							
	В	Introduction to reflection on action	CO1,CC							
	С	Cases	CO1,CC							
			CO6							
	Unit 2	Cognitive maps								
	Α	Making cognitive maps	CO1, C0							
	В	Using Cognitive maps	CO1, C0							
	С	Cases	CO1.							
	-	CO3								
	Unit 3	Clinical concept maps								
	Α	Making clinical concept maps	CO1,CC							
	B	Using clinical concept maps	CO1 CC							



С	Cases			CO1,CO3					
				CO6					
Unit 4	Systems interaction								
Α	Mirroring of presentation in d	ifferent systems		CO2,CO4					
В	Referred symptoms			CO2,CO4					
С	Cases			CO2,CO4					
Unit 5	Implications for PT			CO6					
	On the primary presentation			CO1 CO5					
A	On the primary presentation			01,005					
В	On the secondary presentation	l		CO1,CO5					
С	Cases			CO1,CO5					
				CO6					
Mode of	Clinical examination								
examination									
Weig	CA		ESE						
htage		CE-VIVA	External Exam Practical						
Distri	25%	25%	50%						
butio									
n									
Text book/s*	Watts, N. (1990) Handbook of	f Clinical Teachi	ng, Churchill Livingstone,						
	Melbourne.	C	d and dimensional method						
	Barrows, H.S. (1984) A specific	her a solution and the solution of the solutio	a, self-directed learning method						
	retention and recall in Schmid	dt H G and de V	Volder M L (eds) Tutorials in						
	Problem-Based Learning Nex	v Directions for	Training in the Health Professions						
	Masstricht Van Gorcum Ass	en	framing in the freature rolessions.						
	Benner, P. and Wrubel, J. (19	82a) Skilled clini	ical knowledge: the value of						
	perceptual awareness. Part 1.	The Journal of N	ursing Administration, May, 11-14						
Kolb, D.A. (1984) Experiential Learning: Experiences as the Source of Learning and Development, Prentice-Hall, New Jersey.									
							Other	https://www.apta.c	org/uploadedFil
References	<u>/ BOD/Practice/DocumentationPatientClientMgmt.pdf</u>								
	<ul> <li>http://www.framinghamheartstudy.org/share/protocols/bmd1_7</li> </ul>								
	protocol.pdf								



POs	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PO1	PSO	PSO	PSO
COs	1	2	3	4	5	6	7	8	9	0	1	1	2	3
CO1	3	3	2	3	3	2	3	2	3	1	3	2	3	3
CO2	3	2	3	2	2	3	2	3	2	3	1	3	2	3
CO3	3	3	2	3	1	2	3	1	3	2	3	3	3	2
CO4	3	3	2	3	3	2	3	3	1	3	3	3	3	3
CO5	3	3	3	3	2	3	3	2	3	3	1	3	3	3
CO6	1	2	3	3	2	1	1	2	3	3	2	1	3	2
Averag e PO's	2.66	2.66	2.5	2.83	2.16	2.16	2.5	2.16	2.5	2.5	2.16	2.5	2.83	2.66

2-Moderate (Medium)



~ ~	noon boand	<b>Datch:</b> 2023-2027									
Pro	gramme: BPT										
Br	anch:	Semester: 6 th semester									
Ph	ysiotherapy										
1	Course Code	PTB 346									
2	Course Title	Clinical Education - Differential Diagnosis (CT)									
3	Credits	2									
4	Contact	0-0-4									
	Hours										
	(L-T-P)										
	Course Type	Compulsory									
5	Course	<b>4.</b> To enable the students to perform differential diagnosis									
	Objective	5. To enable the students to make plan of confirmatory diagnosis.									
	·	6. To enable the students to perform physiotherapy diagnosis and make	e implications								
		for PT.	1								
6	Course	CO1: To perform differential diagnosis.									
	Outcomes	CO2: To perform planning for confirmatory diagnosis.									
		CO3: To demonstrate development of Physiotherapy diagnosis.									
		CO4: To demonstrate implications for physiotherapy.									
		CO5: To demonstrate mastery of clinical differential diagnosis.									
		CO6: To design the evaluation and assessment methods and physiothera	ру								
		treatment for various conditions									
7	Course	Differential diagnosis in clinical settings represents a milestone for bet	ter								
	Description	patient management. It is for all stakeholder's accountability a	nd								
		responsibility. It has medico-legal implications as well. Physiotherapists	5								
		within the scope of practice shall take part in this effectively									
8	Outline svllabu	s	СО								
	- · · · · · · · · · · · · · · · · · · ·		Mapping								
	Unit 1	Differential diagnosis (DD) in neuromusculoskeletal presentation.									
	Α	Neuromusculoskeletal presentations in PT	CO1, CO2								
	В	Differential diagnosis	CO1,CO2								
	С	Cases	CO1,CO2,								
			CO6								
	Unit 2	Differential diagnosis in systemic presentation.									
	A	Systemic Presentations	CO1, CO3								
	В	Differential diagnosis	CO1, CO3								
	С	Cases	CO1,								
			CO3,CO6								
	Unit 3	DD & Contraindications, precautions, and red flags.									
	٨	Contraindications	CO1 CO3								



В	Precautions			CO1,				
С	Indications for referral			CO1,				
Unit 4	Functional diagnosis							
Α	Functional diagnosis			CO2,				
В	Physiotherapy terms for functi	onal diagnosis		CO2,				
С	Cases			CO2,				
Unit 5	Physiotherapy diagnosis &	implications for	r PT					
Α	PT diagnosis							
B	PT implications &Problem based PT plan							
С	Cases							
Mode of examination	Clinical examination							
Weig	СА		ESE					
htage	-	CE-VIVA	External Exam Practical					
Distri	25%	25%	50%					
butio								
n								
Text book/s*	Watts, N. (1990) Handbook of Melbourne. Barrows, H.S. (1984) A specifi designed to teach medical prol retention and recall, in Schmid Problem-Based Learning. New Masstricht. Van Gorcum, Asse Benner, P. and Wrubel, J. (198 perceptual awareness. Part 1. 7 Kolb, D.A. (1984) Experientia	Clinical Teachi ic problem-base blem-solving ski lt, H.G. and de V v Directions for ' en 32a) Skilled clini fhe Journal of N I Learning: Expo	ng, Churchill Livingstone, d, self-directed learning method lls, and enhance knowledge /older, M.L. (eds) Tutorials in Training in the Health Professions. ical knowledge: the value of ursing Administration, May, 11-14. eriences as the Source of Learning					
No.         (1964) Experiential Learning: Experiences as the Source of Learning and Development, Prentice-Hall, New Jersey.           Other         https://www.apta.org/uploadedFiles/APTAorg/About_Us/Policies/ BOD/Practice/DocumentationPatientClientMgmt.pdf           • http://www.framinghamheartstudy.org/share/protocols/bmd1_7s _protocol.pdf								



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs	101	102	100	10.	100	100	107	100	107	1010	1011	1501	1502	1000
CO1	2	3	2	3	3	2	3	2	3	2	2	3	3	2
CO2	3	3	2	3	1	3	3	3	3	3	3	3	3	3
CO3	3	3	2	3	3	2	3	3	1	3	3	2	3	3
CO4	3	1	3	3	1	3	3	1	2	3	2	3	2	3
CO5	3	3	2	2	3	2	3	3	3	3	2	3	3	3
CO6	3	2	1	3	2	1	1	2	3	3	2	1	2	3
Average PO's	2.83	2.5	2	2.83	2.16	2.16	2.66	2.33	2.5	2.83	2.33	2.5	2.66	2.83

2-Moderate (Medium)



## Semester Seven

S	chool: SSAHS	Batch: 2023-2027										
Pro	gramme: BPT	•										
B	sranch:	Som octory 7TH comentar										
Р	hysiotherapy											
1	Course Code	PTB 401										
2	Course Title	Physiotherapy in Orthopedics & sports medicine										
3	Credits	3										
4	Contact	3-0-0										
	Hours											
	(L)											
	Course Type	Compulsory										
5	Course	The objective of the course is that after the specified hours of lectures and	d									
	Objective	demonstrations the student will be able to identify disabilities due to mus	culoskeletal									
		dysfunction, plan and set treatment goals and apply the skills gained in exercise therapy										
		and electrotherapy in these clinical situations to restore musculoskeletal fund	ction.									
6	Course	The student will be able to:										
	Outcomes	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	d infective									
		conditions of musculoskeletal system with its treatment protocol.										
		CO4: To understand PT evaluation of Orthopedic conditions.										
		CO6: To design a physiotherapy protocol for various orthopaedic con	ditions									
7	Course	Following the basic science course, this course introduces the student to the	orthopedic									
'	Description	conditions which commonly cause disability. Particular effort is made in this	s course to									
	F	avoid burdening the student with any detail pertaining to diagnosis which with	ill not									
		contribute to their understanding of the limitation imposed by orthopedic pathology on the functioning of the individual										
8	Outline syllabi		CO									
0	e aunie synabi		Manning									
	Unit 1	General assessment and physiotherapyTreatment	inapping									
	A	Assessment & Diagnosis	CO1. CO2									
	В	Inflammatory conditions	CO4, CO6									
	С	Degenerative Conditions	CO5, CO6									
	Unit 2	Regional Physiotherapy assessment and treatment										
	А	Upper limb conditions	CO2, CO4,									
			CO6									
	В	Lower limb Conditions	CO3, CO6									
	С	Spinal Conditions	CO3, CO6									
	Unit 3	Physiotherapy for Traumatic conditions & Orthopaedic surgery	CO3, CO4									
	А	Orthopaedic Surgeries, Amputation	CO3, CO4									
	В	Fractures – Introduction, types, stages of healing. Upper limb Fractures	CO5 CO6									



С	Lower limb and spinal fractu	ires		CO4, CO				
Unit 4	Physiotherapy for Deformi	ties and Disorders						
А	Deformities - Congenital and	d Acquired.		CO5, C0				
				CO6				
В	Upper limb, lower limb and	spinal disorders		CO5, C0				
С	Bone and joint diseases	Bone and joint diseases						
		CO6						
Unit 5	Physiotherapy in Pathology	y and conditions						
А	Cerebral palsy, Leprosy,							
				CO6				
В	Poliomyelitis			CO1, C0				
				CO6				
С	Skeletal Tumours			CO1, C0				
				CO6				
Mode of	Theory							
examination								
Weightage	CA	MTE	ETE					
Distribution	25%	25%	50%					
Text book/s*	Tidy's physiotherapy. 2. Tex	tbook of orthopedics-	Cash. 3. Clinical					
	orthopedic rehabilitation- Br	otzman. 4. Orthopedi	c physiotherapy -					
	Jayant Joshi. 5. Physical Reh	abilitation Assessmen	nt and Treament –					
	O'Sullivan Schmitz 6. Sports physiotherapy- Maria Zuluaga							

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	3	2	2	2	3	3	1	3	3	1	3	3	2
CO2	2	2	3	3	3	3	3	3	3	2	2	2	2	3
CO3	2	3	1	1	3	2	3	3	1	3	3	2	3	2
CO4	3	1	2	3	3	3	1	3	3	3	1	3	3	2
CO5	3	3	3	1	3	3	3	1	3	1	2	3	3	3
CO6	1	2	3	3	2	1	2	3	1	2	3	3	2	3
Average														
PO's	2.33	2.33	2.33	2.16	2.66	2.5	2.5	2.33	2.33	2.33	2	2.66	2.66	2.5



S	chool:SSAHS	Batch : 2023-27							
Pı	rogramme: BPT	Current Academic Year: 2022-23							
Bi Pl	ranch: hysiotherapy	Semester: 7 th Semester							
1	Course Code	PTB 402							
2	Course Title	Physiotherapy In Neurology And Neurosurgery							
3	Credits	3							
4	Contact Hours (L-T-P)	3-0-0							
	Course Type	CC							
5	Course	1. The objective of this course is , the student will be able to iden	tify disability						
	Objective	due to neurological dysfunction, set treatment goals and apply their skill.							
		2. Students will understand the role exercise therapy, electrothera recent therapeutic advancement in clinical situation to restore neu function	py and rological						
		3. In addition, the student will be able to diagnose the conditions.							
6	Course Outcomes	<ul> <li>CO1: Be able to develop assessment skills to implement timely ar physiotherapy assessment tools/techniques to ensure a holistic apple valuation in order to prioritize patient's problems.</li> <li>CO2: Be able to select timely physiotherapeutic interventions to r and physiotherapy management strategies, suitable for the patient indicator conditions based on the best available evidence.</li> <li>CO3: Implement appropriate neuro-physiotherapeutic approaches electrotherapeutic modalities, joint and soft tissue mobilizations a advice for neuromuscular.</li> <li>CO4:Be able to develop behavioural skills and humanitarian approximations</li> <li>CO5: Be able to develop behavioural skills and humanitarian approximation individual and community health.</li> <li>CO6: To design the physiotherapy protocol for various neurologic conditions.</li> </ul>	nd appropriate proach to patient educe morbidity s' problems and , nd ergonomic rent neurological roach while nals, to promote cal						
7	Course Description	The subject serves to integrate the knowledge gained by the stude and neurosurgery with skills to apply these in clinical situations of dysfunction and neurological pathology.	nts in neurology						
8	Outline syllabus		CO Mapping						
-	Unit 1	Nourological Assessment	······································						



A	Materials, Chief complaints, History taking–Present, Past	CO1, CO2
	medical, family ,personal history ,Observation	
	,Palpation, Higher mental function Consciousness, Orientation,	
	Wakefulness, memory, Speech, Reading, Language,	
	Writing, Calculations, Perception, Leftright confusion, Reas	
	oning,andJudgment	<b>GO1 GO</b> 2
В	Special tests–Romberg's, Kernig's sign, Brudenzki sign,	C01,C02
	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 scale,	CO1,CO2
	Berg balance scale, FIM, Barthel index, Glasgow coma scale,	
	Mini mental state examination, Rancho Los Amigos Scale for	
	Head injury, APGAR score, ASIA	
	scale, Reflex Grading. Differential diagnosis.	
Unit 2	Neurophysiological Techniques	
A	Concepts, Principles, Techniques ,Effects of following	CO1, CO3,
	Neurophysiological techniques: NDT ,PNF, Vojta therapy	CO6
В	Rood's Sensorimotor Approach, Sensory Integration	CO1, CO3,
	Approach, Brunnstorm's movement therapy, Motor relearning Programme.	CO6
С	Contemporary task oriented approach, Muscle re-	CO1, CO3
	education approach and Constraint induced movement therapy.	
Unit 3	Paediatric Neurology	
A	Developmental milestones, developmental reflexes, Neuro	CO2, CO4,
	developmental screening tests. Evaluation & Management-	CO6
	History, Observation, Palpation, Milestone Examination	
	developmental reflex Examination ,Higher mental	
	function, Cranial nerve	
	examination	
В	Motor& Sensory examination, Reflex testing,	CO2, CO4,
	differentialDiagnosis, Balance and Coordination examination,	CO6
	Gaitanalysis, Functional analysis, List of Problems &	
	Complications, short &Long Term goals	
С	Management of systemic complications, Management of	CO2,CO4
	Mechanical Complications	
	Evolution and Management	1



А	Brain and Spinal Cord Disorders: History, Observation,	CO1, CO4,
	Palpation, Higher mental function, Cranial nerve examination	CO6
	,Motor and Sensory examination, Reflex testing, differential	
	diagnosis, Balance and Coordination examination, Gait analysis,	
	Functional analysis, List of Problems and Complications, short	
	and Long Term goals, Management of systemic complications	
	Management of Mechanical Complications. Use of various	
	Neuro physiological approaches and Modalities in	
	Cerebrovascular Accident .Meningitis. Encephalitis	
	Head Injury, Brain Tumors, Perceptual disorders,	
	Amyotrophic lateral sclerosis, and Multiple sclerosis.	
B	Cerebellar Spinal Cord and Muscle Disorders : History	CO1 CO4
D	Observation Palpation Motor & Sensory examination Reflex	CO1, CO4,
	testing differential Diagnosis Balance & Coordination	000
	examination Gait analysis Functional analysis List of	
	Problems & Complications short	
	& A ong Term goals. Management of systemic	
	complications. Management of Mechanical Complications	
	Use of various Neuro physiological approaches & Modelities	
	in Ataxia Sansary Ataxia Barkingan's disassa Musaular	
	dystronby (DMD) Myasthenia Gravis Eaton Lambert	
	Syndrome Spinal tumors Spinal cord injury Transverse	
	myelitis Bladder & Bowel Dysfunction Spinal muscular	
	atrophies Poliomvelitis Post-Polio	
	Syndrome	
	Syndionio.	
С	Peripheral Nerve Injuries and Disorders :History,	CO1, CO4,
	Observation, Palpation ,Motor & Sensory examination,	CO6
	Reflex testing, differential Diagnosis, Balance &	
	Coordination examination, Functional analysis, List of Problems & Complications, short & Long Termocols	
	Management of systemic complications, Management of	
	Mechanical Complications, Use of various Neuro	
	physiological approaches & Modalities in Hereditary motor	
	sensory neuropathy, Gullain- Barre syndrome	
	,Brachial plexus palsy ,Thoracic outlet syndrome , Lumbo	
	sacral plexus lesions, Phrenic& intercostals nerve lesions,	
	Median nerve palsy, Ulnar nerve palsy, Radial nerve palsy,	
	interosseous nerve palsy. Axillary nerve palsy	
	Long thoracic nerve palsy, Axinary nerve palsy Tibial nerve	
	palsy, Common peroneal nerve palsy, Femoral nerve palsy,	
	Obturator nerve palsy, and Pudendal nerve palsy. Assessment	
	Obturator nerve palsy, and Pudendal nerve palsy. Assessment and management of Neurological gaits : Quantitative and	



	gait, Hyper ki Scissoring gai Myopathic Ga							
Unit 5	Surgical man	Surgical management						
A	Pre and post-s following con stenosis, Spin of the spine, S peripheral ner	Pre and post-surgical assessment and treatment following conditions-Spinal disc herniation, Spinal stenosis, Spinal cord trauma, and Spina bifida, Tumors of the spine, Spinal cord and peripheral nerves.						
В	,Head trauma, aneurysms, Su epilepsy, Park Hemiballism,	CO3, CO4, CO6						
С	Psychiatric dis system, Caroti venous malfor	CO3, CO4, CO6						
Mode of examination	Theory/Jury/P	Practical/Viva						
Weightage	CA	MTE	ETE					
Distribution	25%	25%	50%					
Text book/s*	<ol> <li>Cash's textbook of neurology for, physiotherapists - Dowani - J P Brothers.</li> <li>Adult Hemiplegia - Evaluation &amp; treatment - Bobath - Oxford Butterworth Heinm an</li> <li>Neurological Rehabilitation - Carr&amp; Shepherd – Butterworth Heinrnan</li> <li>Tetraplegia and paraplegia - A guide for physiotherapist- Bromley Churchill Livingstone.</li> <li>Neurological physiotherapy - A, Problem solving approach – Susan Edwards- Churchill Linvig stone.</li> </ol>							
	5. Neuro approa	ich – Susan E	dwards- Churchill Linvig stone.					



Other	1. Motor assessment of Developing Infant - Piper
References	&Darrah - W B. Saunders.
	2. Pediatric phySical therapy- Teckling Lippincott
	3. Treatment of cerebral Palsy and motor Delay - Levitts-
	Blackwell Scientific Publications, London.
	4. Aging the Health care Challenge - Levis- FA Davis.
	5. Physiotherapy in Pediatrics - Shepherd -
	Butterworth Heinrnan

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO	PSO2	PSO3
COs												1		
CO1	3	2	1	1	2	3	3	2	1	2	3	3	2	3
CO2	3	3	3	2	2	2	2	3	1	3	3	2	3	2
CO3	3	1	3	2	3	2	3	1	3	2	1	3	2	3
CO4	2	3	3	2	3	3	2	3	3	2	3	3	3	3
CO5	3	2	1	3	2	3	1	3	2	1	3	3	2	3
CO6	2	1	3	1	1	1	3	2	2	3	2	2	3	2
Average PO's	2.66	2	2.33	1.83	2.16	2.33	2.3	2.33	2	2.16	2.5	2.66	2.5	2.66



S	chool: SSAHS	Batch: 2023-2027							
Pro	gramme: BPT								
Br Ph	anch: sysiotherapy	Semester: 7 th Semester							
1	Course code	PTB 403							
2	Course Title	Physiotherapy In General Medicine & Surgery							
3	Credits	1							
4	Contact Hours (L-T-P)	1-0-0							
	Course Type	CC							
5	Course Objective	Acquire the knowledge of various conditions where physiotherapy plays the rehabilitation	s a vital role in						
6	Course	The student will be able:							
	oucomes	CO1: To understand pathophysiological changes in infectious and metal with their PT treatment CO2: To understand pathophysiological changes in respiratory and card disorders with their PT treatment CO3: To understand pathophysiological changes in oncology with their PT treatment	iovascular iovanular						
		CO4: Diagnose condition from history taking, clinical evaluation investigation in patients with skin disorders and wound. CO5: To understand various injuries with its treatment Protocol.	and						
		CO6: To design the physiotherapy protocol for various surgical conditions.							
7	Course Description	Acquire knowledge of rational of basic investigative approaches system and surgical intervention.	in the medical						
8	Outline syllabu	S	CO Mapping						
	Unit 1	Rehabilitation of:							
	А	Physiotherapy in mother and child care	CO1, CO2						
	В	Geriatrics	C01, C0						
	С	Paediatric conditions – ASD, VSD, RHD	CO1, CO2, CO0						
	Unit 2	Rehabilitation of:							
	А	Physiotherapy in pre and post-operative stages	CO2, CO3						
	В	Operations on upper G.I.Tesophagus, stomach, duodenum, Operations on large and small intestine	CO2, CO2						
	С	Endocrine disorders – thyroid, adrenal	CO2, CO3						
	Unit 3	Rehabilitation of:							



A	Burns and its	treatment, plastic	surgery	CO3,				
				CO5, CC				
В	Management	of wound and ulc	ers	CO3,				
				CO5, CO				
С	PT intervention	on in Oncology		CO3, CO				
Unit 4	Rehabilitation	of:						
А	Skin condition	ns		CO4, CC				
В	U.V.R therapy	y in various skin o	conditions	CO4,				
				CO5, CC				
С	Vitiligo; Hair	loss; Pigmentatio	on	CO4,				
				CO5, CC				
Unit 5	Rehabilitation	of:						
А	Sinusitis, non	-suppurative and	chronic suppurative otitis media	CO4,				
				CO5, CC				
В	Labrynthitis, N	lastoidectomy, Cl	hronic rhinitis, Laryngectomy,	CO4, CC				
	Pharyngeo-laryngectomy							
С	Facial palsy			CO4,				
	1 2			CO5, CC				
Mode of	Theory							
examination								
Weightage	CA	CE	ETE					
Distribution	25%	25%	50%					
Text book/s*	1. Tidy's physio	therapy	1					
	2. Neurological Heinrnan	Rehabilitation – Car	r & Shepherd – Butterworth					
	3. Clinical Ortho	opedic rehabilitation-	Brotzman					
Other	1. Aging the Heal	th care Challenge - L	evis- FA Davis.					
References								

POsCOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	3	2	2	2	3	3	1	3	3	1	2	3	3
CO2	2	2	3	3	3	3	3	3	3	2	2	3	3	3
CO3	2	3	1	1	3	2	3	3	1	3	3	3	3	3
CO4	3	1	2	3	3	3	1	3	3	3	1	3	3	3
CO5	3	3	3	1	3	3	3	1	3	1	2	3	3	3
CO6	1	2	3	3	2	1	2	3	1	2	3	3	2	3
Average PO's	2.33	2.33	2.33	2.16	2.66	2.5	2.5	2.33	2.33	2.33	2	2.83	2.83	3



Pro	ogramme: BPT	•	
Br	anch:	Semester: 7 th Semester	
Ph	ysiotherapy		
1	Course Code	PTB 405	
2	Course Title	Occupational Health	
3	Credits	1	
4	Contact Hours	1-0-0	
	(L-T-P)		
	Course Type	DSC	
5	Course Objective	<ol> <li>Students will be able apply knowledge in community medicine and oth with skills to apply these in clinical situation.</li> <li>Students will be able to identify methods to prevent occupation related discusses.</li> </ol>	ner areas
		<ul><li>diseases.</li><li>3. To plan treatment goals and apply the skills gained in rehabilitating an restoring functions.</li></ul>	d
6	Course Outcomes	CO1: To Understand the concepts of occupational health and disease. CO2: To Explain the concept of physical, chemical and biological agent r Hazard CO3: To Acquire the knowledge of disease related to physical, ch biological related agents in occupational health. CO4: To understand the protective measures related to occupational Healt CO5: To Summarize the knowledge of prevention of occupational disease CO6: To be able to create a healthy occupational environment.	elated emical, th. es.
7	Course Description	The subject serves to integrate the knowledge gained by the students i medicine and other areas with skills to apply these in clinical situations disease and its prevention.	n communi of health ar
8	Outline syllabu	S	CO Mapping
	Unit 1	General Introduction	
	А	Occupational Health and Hazards, Health of the worker	CO1
	В	Occupational Environment Hazards, types of Environment Hazard	CO1
	С	Role of ergonomics in prevention of occupational hazards. Injuries due to ergonomics alteration & ergonomic evaluation of workplace	CO1,CO6
	Unit 2	Occupational Hazards	
	A	Accidents due to: Physicalagents: e.g. heat/cold, light, noise, vibration, UVR. Ionizing radiation. Chemical agents: inhalation, local action & ingestion.	CO2, CO3
	В	Mechanical hazards: overuse/fatigue injuries due to ergonomic alteration & ergonomic evaluation of work place-mechanical stresses per hierarchy- sedentary table work–executives, clerk, inappropriate seating arrangement- vehicle drivers, constant standing- watchman-Defense forces, surgeons, Over-exertion in	CO2, CO3, CO6
		Internet and Internet Data management	



С	Psychological hazards		CO2, CO3				
	Biological Hazards						
Unit 3	Occupational Diseases						
A	Diseases due to Physical Agents, Dis	eases due to Chemical	CO3, CO6				
	Agents.						
В	Diseases due to Biological agents, O	ccupational Cancers.	CO3, CO6				
С	Occupational Dermatosis, Diseases of Pa	sychological origin	CO3, CO6				
Unit 4	Measures for Health Protection of Wo	rkers					
A	Nutrition, Communicable Diseases contro	1	CO3, CO4 CO6				
В	Environmental Sanitation: water, food, sufficient space, Lighting, ventilation, hazards, housing.	toilet, general plant cleanliness, temperature, protection against	CO3, CO4 CO6				
С	Mental health, Health Education, Family	planning.	CO3, CO4				
			CO6				
Unit 5	Prevention of Occupational Diseases						
A	Medical Measures: Pre- placement exam Medical and Health Care Services, Supe Maintenance and analysis of records, He	ination, Periodical Examination, rvision of working environment, alth education and counselling.	CO5, CO6				
В	Engineering Measures: Design of buildi Ventilation, Mechanization, Substitution, Exhaust Ventilation, Protective Devices, I	ng, Good house-keeping, Genera Dusts, Enclosure, Isolation, Loca Environmental Monitoring	d CO5, d CO6				
С	Legislation: The Factories Act, 1948		CO5,				
Mode of	Theory		000				
examination							
Weightage	CA MTE 25%	E1E 50%					
Text book/s*	2.5 %     2.5 %       1. K Park, Text Book of Preventive and medicine	Social					
	<ol> <li>Bhaskar Rao, Text book of Communi Medicine &amp;Community Health, Paras Publisher</li> <li>Glenda Key, Industrial Therapy, Mos</li> </ol>	ty Medical by					
Other References	<ol> <li>Mural K F, Ergonomics Man in his working environment</li> <li>Nordin Andersons Pope, Musculoskeletal Disorders in workplace- Principle &amp; Practice, Mosby Elsevier</li> <li>Juia Smedley, Oxford Handbook of Occupational Health</li> </ol>						



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	3	3	2	2	3	3	1	1	3	1	3	3	3
CO2	2	2	3	3	1	2	1	2	3	2	3	2	2	3
CO3	2	3	3	3	3	3	3	3	3	3	3	2	3	3
CO4	3	1	2	2	2	1	2	2	2	1	2	3	2	2
CO5	3	3	2	3	3	3	3	3	3	3	3	3	3	2
CO6	1	2	1	1	3	2	3	1	2	2	3	3	2	2
Average PO's	2.33	2.33	2.33	2.33	2.33	2.33	2.5	2	2.33	2.33	2.5	2.66	2.5	2.5



2	school: SSAHS	Batch: 2023-2027	
r	ogramme: BPT	•	
B	ranch:	Semester: 7 th Semester	
P	hysiotherapy		
1	Course Code	PTB 404	
2	Course Title	COMPLEMENTARY MEDICINE	
3	Credits	1	
4	Contact Hours	1-0-0	
	(L-T-P)		
	Course Type	Theory	
5	Course	1. Enable student to develop and apply clinical knowledge for	
	Objective	assessment, treatment of the patient.	
		2. Explore relevant intellectual approaches and practical skills,	including those
		acquired in the taught components, to the choosen topics.	Ū.
6	Course	CO1: To be able to apply the gained knowledge in clinical setu	p.
	Outcomes	CO2: Develop critically, strategically and in depth a topic or ar	ea of interest
		arising from the work done within the taught graduate framework	ork and in
		student's area of academic or professional interest.	
		CO3: To be able to utilize the gained knowledge practically and	l in hospital
		setup.	
		CO4: Present and be able to utilize their rationale, approach or	methodology,
		CO5: To be able to enhance practical knowledge professional	annroach
		academic rigour, independence and self direction	approach,
		CO6: To be able to compile the rationale, approach or methodo	logy, outcomes
		and conclusions.	
7	Course	Enable student to develop and apply clinical knowledge for ass	essment,
	Description	treatment of the patient.Explore relevant intellectual approache	s and practical
		skills, including those acquired in the taught components, to the	choosen topics
8	Outline syllabus		CO
			Mapping
	Unit 1	INTRODUCTION TO RECENT TRENDS	
	А	Brief.	CO1, CO2
	В	Demonstration.	CO1, CO2
	C	Experimentation	CO1. CO2
	~		
	Unit 2	RECENT TRENDS IN DRY NEEDLING	
	А	Brief.	CO2, C03
			CO6
	В	Demonstration.	CO2, C03
	9		CO6
	С	Experimentation.	CO2, CO3
_	IInit 2		0.00
	Unit S	RECENT TRENDS IN THERAPEUTIC TAPING	
	А	Brief	CO3, C0



В	Demonstration			CO3, C		
С	able to utilize m	odalities		CO3, C		
Unit 4	RECENT TREN	DS IN ELECTR	ROTHERAPY			
A	Brief			CO4, C		
В	Demonstration	ation				
С	application			CO4, C		
Unit 5	RECENT TREN	DS IN SPORTS	MEDICINE			
А	Brief Demonstration					
В						
С	Assessment and application Theory					
Mode of examination						
Weightage Distribution	CA	MTE	ETE			
	25%	25%	50%			
Text book/s*       1. K Park, Text Book of Preventive and Social medicine         2. Bhaskar Rao, Text book of Community Medicine & Community Health, Paras Medical Publisher         3. Glenda Key, Industrial Therapy, Mosby						
3. Glenda Key, Industrial Therapy, Mosby         Other         References         1. Mural K F, Ergonomics Man in his working environment         2. Nordin Andersons Pope, Musculoskeletal Disorders in workplace- Principle & Practice, Mosby Elsevier         3. Dria Smedlay, Oxford Handhook of Occupational Hasth						

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	2	3	1	2	3	3	2	3	1	3	3	2
CO2	3	2	3	2	3	1	3	2	3	1	3	2	2	3
CO.3	3	3	1	2	1	3	1	3	1	2	3	2	3	3
CO4	1	2	3	3	3	2	2	2	3	3	3	3	1	3
CO5	2	3	3	1	3	2	3	3	3	3	2	3	3	1
CO6	2	2	1	3	3	1	3	2	1	3	3	1	3	2
Avera ge POs	2.166	2.5	2.16	2.33	2.33	1.83	2.5	2.5	2.16	2.5	2.5	2.33	2.5	2.33

2-Moderate (Medium)



## PRACTICAL

S	chool: SSAHS	Batch: 2023-2027										
Pro	gramme: BPT	•										
B	ranch:	Semester: 7 th Semester										
Pł	nysiotherany											
1	Course Code	PTB 431										
2	Course Title	Physiotherapy in Orthopedics & sports (Practical)										
2	Credits											
<u>ј</u>	Contact Hours	0-0-2										
7	(P)	0-0-2										
		Compulson										
5	Course Type	Compulsory	and									
5	Objective	The objective of the course is that after the specified hours of fectures	anu									
	Objective	demonstrations the student will be able to identify disabilities due to	-1-111									
		musculoskeletal dyslunction, plan and set treatment goals and apply the	skills gained									
		in exercise therapy and electrotherapy in these clinical situations to restor	e									
_	6											
6	Course	The student will be able to:										
	Outcomes	CO1: To understand traumatology of Upper and lower limb fractur	es, with their									
		treatment protocols.										
		CO2. Assess the patients with musculoskeletal conditions.	and infactive									
		conditions of musculoskeletal system with its treatment protocol										
		CO4: To understand PT evaluation of Orthopedic conditions.										
		CO5: To understand PT management of Orthopedic conditions.										
		CO6: To design a physiotherapy protocol for various orthopaedic c	onditions.									
7	Course	Following the basic science course, this course introduces the student to t	he orthopedic									
	Description	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									
		the functioning of the individual	pathology on									
8	Outline syllabus		CO									
-			Mapping									
	Unit 1	General assessment and physiotherapyTreatment										
	А	Assessment & Diagnosis	CO1, CO2									
	В	Inflammatory conditions	CO4, CO6									
	С	Degenerative Conditions	CO5, CO6									
	Unit 2	Regional Physiotherapy assessment and treatment										
	А	Upper limb conditions	CO2, CO4,									
			CO6									
	В	Lower limb Conditions	CO3, CO6									
	С	Spinal Conditions	CO3, CO6									
-	Unit 3	Physiotherapy for Traumatic conditions & Orthopaedic	CO3, CO4									
		surgery										
	А	Orthopaedic Surgeries, Amputation	CO3, CO4									
	В	Fractures – Introduction, types, stages of healing, Upper limb Fractures	CO5, CO6									



	C		Low	ver lim	b and s	pinal f	racture	s	<b>D'</b>				CO4, 0	CO5	
	Unit 4		Phy	siothe	rapy to	or Defe	ormitie	es and	Disord	lers			CO5 (	701	
	A		Der	ormitie	s - co	ngemu		Acquire	30.				CO5, 0	.01,	
	B		Unn	er limł	lowe	r limh	and sn	inal dis	orders				CO5 (	CO1	
			Cpp		, 10we	i iiiio	unu sp	inur un	sorders				CO6		
	С		Bon	e and i	oint di	seases							CO5, 0	CO1,	
	-			J									CO6		
	Unit 5		Phy	siothe	rapy ir	1 Patho	ology a	nd con	ndition	s					
	А		Cere	ebral pa	lsy, Le	prosy,							CO1, 0	CO4,	
													CO6		
	В		Poli	omyeli	tis								CO1, 0	CO4,	
													CO6		
	C		Skel	letal Ti	imours								CO1, 0	CO4,	
		c	D										CO6		
	examina	tion	Prac	tical											
	Weighta	ige	CA			ETE									
	Distribu	tion	25%	)		25%		50%							
	Text bo	ok/s*	Tidy' rehab Reha physi	s physi oilitatio bilitatio othera	othera on- Bro on Ass py- Ma	py. 2. 7 tzman. essmer tria Zul	Fextbo 4. Ort nt and 7 luaga	ok of o hopedi Freame	rthope c physi ent – O	dics- Ca otherap 'Sulliva	sh. 3. C y - Jayaı n Schmi	linical or nt Joshi. tz 6. Spo	thopedi 5. Physiorts	c ical	
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO	
COs															
CO1	3	3	2	2	2	3	3	1	3	3	1	3	3	2	
CO2	2	2	3	3	3	3	3	3	3	2	2	2	2	3	
CO3	2	3	1	1	3	2	3	3	1	3	3	2	3	2	
CO4	3	1	2	3	3	3	1	3	3	3	1	3	3	2	
CO5	3	3	3	1	3	3	3	1	3	1	2	3	3	3	
CO6	1	2	3	3	2	1	2	3	1	2	3	3	2	3	
Average PO's	e 2.33	2.33	2.33	2.16	2.66	2.5	2.5	2.33	2.33	2.33	2	2.66	2.66	2.5	



S	chool: SSAHS	Batch: 2023-2027								
Pro	gramme: BPT	•								
B	ranch:	Semester: 7 th Semester								
Pl	nysiotherapy									
1	Course Code	PTB 432								
2	Course Title	Physiotherapy in Neurology & Neurosurgery (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	identify							
	Objective	disability due to neurological dysfunction, set treatment goals an	d apply							
		their skill.								
		2. Students will understand the role exercise therapy, electrother	apy and							
		function	urological							
		3. In addition, the student will be able to diagnose the conditions								
6	Course	CO1: Be able to develop psychomotor skills to implement timely	v and							
	Outcomes	appropriate physiotherapy assessment tools/techniques to ensure	a holistic							
		approach to patient evaluation in order to prioritize patient's pro-	olems.							
		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 ev	idence.							
		electrotherapeutic modalities joint and soft tissue mobilizations	s, and							
		ergonomic advice for neuromuscular.	and							
		CO4: Be able to develop behavioral skills and humanitarian appr	oach while							
		communicating with patients, relatives, society and co-professio	nals, to							
		promote individual and community health.								
		CO5: Be able to develop behavioural skills and humanitarian app	broach while							
		communicating with patients, relatives, society and co-professio	hals, to							
		promote individual and community health.								
		CO6: To design the physiotherapy protocol for various neurolog	cal							
		conditions.								
7	Course	The subject serves to integrate the knowledge gained by the stud	ents in							
	Description	neurology and neurosurgery with skills to apply these in clinical	situations of							
		dysfunction and neurological pathology.								
8	Outline syllabu	3	CO							
	,		Mapping							
	Unit 1	NEUROLOGICAL ASSESSMENT								
		1. Brief	CO1, CO2							
		2 Domonstration								



	5. Assessment tools & scales.	
Unit 2	NEURO PHYSIOLOGICAL TECHNIQUES	
	1. Rood's Sensory motor approach	CO1, CO3
	2. NDT	
	3. Brunnstrom Motor Therapy	
	4. Motor Re-learning Programme.	
Unit 3	Paediatric Neurology	
	1. Brief about paediatric assessment.	CO2,
	2. Examination	CO4, CO
	3. Management	
Unit 4	Evaluation & Management	
	1. Brief about assessment in neurological conditions.	CO1,
	2. Cranial nerve examination, motor and sensory	CO4, CO
	examination.	
	3. Management of neurological conditions.	
Unit 5	NEUROLOGICAL GAITS & APPLIED YOGA IN	
	NEUROLOGICAL CONDITIONS	
	1. Quantitative & qualitative analysis of gait.	CO3,
	2. Pre & post-surgical assessment and treatment	CO4, CO
	of neurological conditions.	
	3. Applied yoga in neurological conditions.	
Mode of	Practical/Viva	
examination		
Weightage	CA ETE	
Distribution	25% 25% 50	
Text book/s*	1. Cash's textbook of neurology for, physiotherapists -	
	Dowani - J P Brothers.	
	2. Adult Hemiplegia - Evaluation & treatment - Bobath -	
	Oxford ButterworthHeinm an	
	3. Neurological Rehabilitation - Carr&Shepherd -	
	4 Tetraplegia and paraplegia - A guide for 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	1. Motor assessment of Developing Infant - Piper &Darrah - W B. Saunders.
	2. Pediatric phySical therapy- Teckling Lippincott
	3. Treatment of cerebral Palsy and motor Delay - Levitts-
	Blackwell Scientific Publications, London.
	4. Aging the Health care Challenge - Levis- FA Davis.
	5. Physiotherapy in Pediatrics - Shepherd - Butterworth Heinrnan

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO	PSO2	PSO3
COs												1		
CO1	3	2	1	1	2	3	3	2	1	2	3	3	2	3
CO2	3	3	3	2	2	2	2	3	1	3	3	2	3	2
CO3	3	1	3	2	3	2	3	1	3	2	1	3	2	3
CO4	2	3	3	2	3	3	2	3	3	2	3	3	3	3
CO5	3	2	1	3	2	3	1	3	2	1	3	3	2	3
CO6	2	1	3	1	1	1	3	2	2	3	2	2	3	2
Average PO's	2.66	2	2.33	1.83	2.16	2.33	2.3	2.33	2	2.16	2.5	2.66	2.5	2.66



S	chool: SSAHS	Batch: 2023-2027								
Pre	aramme: RPT									
D	y y									
B	ranch:	Semester: 7 th Semester								
P	hysiotherapy									
1	Course Code	PTB 433								
2	Course Title	Physiotherapy in General Medicine & Surgery								
3	Credits	1								
4	Contact	0-0-2								
	Hours									
	(L-T-P)									
	Course Type	CC								
5	Course	Acquire the knowledge of evaluation and physiotherapeutic treatme	ent for geriatric							
	Objective	& paediatric conditions								
	5	Acquire the knowledge of various conditions where physiotherapy p	plays a vital							
		role in the rehabilitation								
6	Course	The student will be able to:								
	Outcomes	CO1 : To understand pathophysiology of infectious and metabolic disorders with								
		their PT treatment								
		CO2: To understand pathophysiological changes in respiratory and disorders with their PT treatment	cardiovascular							
		CO3 : To understand pathophysiological changes in burn and oncol	ogy with their							
		PT treatment								
		CO4: Diagnose condition from history taking, clinical evaluation and	nd investigation							
		CO5: To understand various injuries with its treatment Protocol CO	6 [.] To							
		design the physiotherapy protocol for various surgical	0110							
		conditions.								
7	Course	To Identify discuss and analyse cardiovascular and pulmonary dysfu	unction.							
	Description	Acquire knowledge of rational of basic investigative approaches in	the medical							
	2 comption	system and surgical intervention.								
8	Outline syllab	us	СО							
			Mapping							
	Unit 1	Demonstration of rehabilitation of								
	Α	Geriatrics	CO1, CO2							
	В	Paediatric conditions – ASD, VSD	CO1, CO2,							
	C		CO6							
-	Unit 2	КПЛ Demonstration of rehabilitation of	01,002							
	A A	Physiotherapy in pre and post-operative stages	CO2, CO3.							
		,	CO6							
L	1		1							



	В			Operations on upper G.I.Tesophagus, stomach, duodenum,										CO2, CO3,		
				Operations on large and small intestine										CO6		
	С			En	Endocrine disorders – thyroid, adrenal											
	Un	nit 3		Dem	Demonstration of rehabilitation of											
	A			Bu	Burns and its treatment, plastic surgery											
	В			Ma	Management of wound and ulcers											
	С			PT intervention in Oncology											CO3, CO5	
	Un	nit 4		Demonstration of rehabilitation of												
	A			Sk	Skin conditions											
	В			U.	V.R the	erapy ii	n variou	ıs skin	conditi	ons				CO4, CO5,		
	С			Vi	tiligo; l	Hair los	ss; Pign	nentatio	on					CO4, CC	)5	
	Un	nit 5		Dem	Demonstration of rehabilitation of											
	A			Sir	nusitis,	non-su	ppurati	ve and	chroni	c supp	urative c	otitis mee	dia	CO4, CC	)5	
	В			labr	ynthiti	s, mast	oidecto	my, ch	ronicrh	ninitis,	laryngeo	tomy,		CO4, CC	)5,	
				pha	pharyngeo-laryngectomy										CO6	
	С			Faci	Facial palsy											
	Mod	de of		Prac	Practical											
	exai	amination														
	Wei	ightag	ge	CA	CA ETE											
Distribution				25%	25% 25% 75%											
	Text book/s*		1. '	1. Tidy's physiotherapy												
			2. Neurological Rehabilitation - Carr&Shepherd – ButterworthHeinran													
				Clini	Clinical orthopedic rehabilitation - Brotzman											
	Oth	er		4. Aging the Health care Challenge - Levis- FA												
	Refe	erenc	es	Davis	s.											
)sC	Os P	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO 1	PSO2	PS	
CO	1 3	3	3	2	2	2	3	3	1	3	3	1	2	3	3	
CO	2 2	2	2	3	3	3	3	3	3	3	2	2	3	3	3	
CO	32	2	3	1	1	3	2	3	3	1	3	3	3	3	3	
CO	4 3	3	1	2	3	3	3	1	3	3	3	1	3	3	3	
CO	53	3	3	3	1	3	3	3	1	3	1	2	3	3	3	
0.	6 1		2	3	3	2	1	2	3	1	2	3	3	2	3	
CO.			0.00	2 22	2.16	2 66	2.5	2.5	2.33	2.33	2.33	2				


Pros	gramme: BPT	•	
	Grunnie, Dr 1	•	
Bra	nch:	Semester: 7 th Semester	
Phy	siotherapy		
1	Course Code	PTB 434	
2	Course Title	Occupational Health (Practical)	
3	Credits	1	
4	Contact Hours (L-T-P)	0-0-2	
	Course Status	DSC	
5	Course Objective	<ol> <li>Students will be able apply knowledge in community medicine and areas withskills to apply these in clinical situation.</li> <li>Students will be able to identify methods to prevent occupation related diseases.</li> <li>To plan treatment goals and apply the skills gained in rehabilitating functions.</li> </ol>	other g and restoring
6	Course Outcomes	CO1: Understanding the concepts of occupational health disease. CO2: Explaining the concept of physical, chemical and biological ager CO3: To Acquire the knowledge of disease related to physical, chemic related agents in occupational health. CO4: To understand the protective measures related to occupational He CO5: Summarizing the knowledge of prevention of occupational disea CO6: To be able to create a healthy occupational environment	and It related Hazard. al, biological ealth. ses.
7	Course Description	The subject serves to integrate the knowledge gained by communitymedicine and other areas with skills to apply these in clinical and disease and its prevention. The objective of the course isthat after to of lectures and demonstrations the student will be able to identify rehabi- prevent disabilities and dysfunctions due to various disease conditions treatment goals and apply the skills gained in rehabilitating and restoring	the students situations of health he specified hou litation methods to and plan and s g functions
8	Outline syllabu	S	СО
			Mapping
	Unit 1	General Introduction	CO1
		<ol> <li>Brief</li> <li>Demonstration.</li> <li>Identification</li> </ol>	
	Unit 2	Occupational Hazards	CO2, CO6
		<ol> <li>Brief</li> <li>Institutional visit to PMR department</li> <li>-Demonstration</li> </ol>	
	Unit 3	Occupational Diseases	CO3, CO6
		Brief     Demonstration     -Community visit	



Unit 4	Measures for Health Protec	tion of Workers	CO3, CO
	1brief		
	2in rural areas to conduct	t survey of populationrequiring	
	physiotherapy services &	k treatments.	
	3demonstration		
Unit 5	Prevention of Occupational	Diseases	CO5, CO
	1brief		
	2Demonstration.		
	3Identification		
Mode of	Practical/Viva		
examination			
Weightage	CA	ETE	
Distribution			
	25%	75%	
Text book/s*	1. K Park, Text Book of Prev medicine	entive and Social	
	2. Bhaskar Rao, Text book of	f Community	
	Medicine &Community He	ealth, Paras	
	Medical Publisher		
	3. Glenda Key, Industrial The	erapy, Mosby	
Other	1. Mural K F, Ergonomics M	an in his working environment	
References	2. Nordin Andersons Pope, M	Iusculoskeletal Disorders	
	in workplace- Principle &	Practice, Mosby Elsevier	
	<ol><li>Juia Smedley, Oxford Han</li></ol>	dbook of Occupational Health	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	3	3	2	2	3	3	1	1	3	1	3	3	3
CO2	2	2	3	3	1	2	1	2	3	2	3	2	2	3
CO3	2	3	3	3	3	3	3	3	3	3	3	2	3	3
CO4	3	1	2	2	2	1	2	2	2	1	2	3	2	2
CO5	3	3	2	3	3	3	3	3	3	3	3	3	3	2
CO6	1	2	1	1	3	2	3	1	2	2	3	3	2	2
Average PO's	2.33	2.33	2.33	2.33	2.33	2.33	2.5	2	2.33	2.33	2.5	2.66	2.5	2.5

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



School: SSAH	8 Batch : 2023-27	
Programme: BPT	•	
Branch:	Semester: 7 th Semester	
Physiotherapy		
1 Course Code	PTB 435	
2 Course Title	Complementary Medicine	
3 Credits	1	
4 Contact Hours	0-0-2	
(L-T-P)		
Course Type	PRACTICAL	
5 Course	Enable student to develop and apply clinical knowledge for asse	essment,
Objective	treatment of the patient.	
	Explore relevant intellectual approaches and practical skills, inc	luding those
	acquired in the taught components, to the chosen topics.	
6 Course	CO1: To be able to apply the gained knowledge in clinical setur	).
Outcomes	CO2: Develop critically, strategically and in depth a topic or are	a of interest
	arising from the work done within the taught graduate framework	k and in
	student's area of academic or professional interest.	
	CO3: To be able to utilize the gained knowledge practically and	in hospital
	setup.	nathodology
	outcomes and conclusions	nethodology,
	CO5: To be able to enhance practical knowledge, professional a	pproach.
	academic rigour, independence and self direction.	FF,
	CO6: To be able to compile the rationale, approach or methodol	ogy, outcomes
	and conclusions.	
7 Course	Enable student to develop and apply clinical knowledge for asse	essment,
Description	treatment of the patient. Explore relevant intellectual approache	s and practical
	skills, including those acquired in the taught components, to the	chosen topics.
8 Outline syllabu	S	CO
		Mapping
Unit 1	INTRODUCTION TO RECENT TRENDS	
А	Brief.	CO1, CO2
D	Demonstration	CO1 CO2
В	Demonstration.	001, 002
С	Experimentation.	CO1, CO2
Unit 2	RECENT TRENDS IN DRY NEEDLING	
A	Brief.	CO2, C03,
		CO6
В	Demonstration.	CO2, C03,
		CO6
С	Experimentation.	CO2, C03,



D           D           T           O           R           POs           Cos           CO1           CO2           CO3           CO4           CO5           CO6	Pother Referen PO1 2 3 1 2 2 2	tion ok/s* ces PO2 3 2 3 2 3 2 3 2 3 2 2 3 2	25% 25% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20	6 1. K P 2. Bha &C Key 1. Mu: 2. Nor Prir PO4 3 2 2 3 1 3	Park, Te askar Ra ommun y, Indus ral K F, rdin And nciple & PO5 1 3 1 3 3 3 3	25% xt Book to, Text ity Heal trial The Ergono dersons Practice PO6 2 1 3 2 2 1 2 1	of Prevo book of th, Parase erapy, M mics Ma Pope, M e, Mosb PO7 3 3 1 2 3 1 2 3 3	entive at Commu s Medica osby an in his fusculos y Elsevi PO8 3 2 3 2 3 2 3 2 3 2 3 2 2 3	50% ad Socia and Socia and Socia and Yell and Publi workin keletal er PO9 2 3 1 3 3 1 1	al medic edicine sher Gle g envirc Disorder PO10 3 1 2 3 3 3 3	ine anda anment s in wor PO11 1 3 3 3 3 2 3	kplace- PSO1 3 2 2 3 3 3 1	PSO2 3 2 3 1 3 3 3 3	PS- 2 3 3 3 1 2
D           D           T           Or           R           POs           Cos           CO1           CO2           CO3           CO4           CO5	Pother Referen 2 3 3 1 2	ttion ok/s* ces PO2 3 2 3 2 3 2 3 3	25%	6 1. K P 2. Bha &C Key 1. Mu: 2. Nor Prir PO4 3 2 2 3 1	Park, Te askar Ra commun y, Indus ral K F, rdin And nciple & PO5 1 3 1 3 3 3	25% xt Book to, Text ity Heal trial The Ergono dersons Practic PO6 2 1 3 2 2 2	of Prevo book of th, Parase erapy, M mics Ma Pope, M e, Mosb PO7 3 3 1 2 3	entive at Commu s Medica osby an in his (usculos) y Elsevi PO8 3 2 3 2 3 2 3	50% ad Socia anity Me al Publi workin keletal l er PO9 2 3 1 3 3	al medic edicine sher Gle g envirc Disorder PO10 3 1 2 3 3	ine anda anment s in wor PO11 1 3 3 3 3 2	kplace- PSO1 3 2 2 3 3 3	PSO2 3 2 3 1 3	PS 2 3 3 3 1
D           D           T           O           R           POs           Cos           CO1           CO2           CO3           CO4	Postribu Pext boo Pother Referen PO1 2 3 3 1	ttion ok/s* ces PO2 3 2 3 2 2 3	25%	6 1. K P 2. Bha &C Key 1. Mut 2. Nor Prir PO4 3 2 2 3	Park, Te askar Ra commun y, Indus ral K F, rdin Ann ciple & PO5 1 3 1 3	25% xt Book to, Text ity Heal trial The Ergono dersons Practic PO6 2 1 3 2 2	of Prevo book of th, Parase erapy, M mics Ma Pope, M e, Mosb PO7 3 3 1 2	entive ar Commu s Medica osby an in his (usculos) y Elsevi PO8 3 2 3 2 3 2	50% ad Socia unity Mo al Publi workin keletal er PO9 2 3 1 3 2 2 2 3 1 3 2 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 1 3 2 2 2 3 2 2 2 3 2 2 2 2	al medic edicine sher Gle g envirc Disorder PO10 3 1 2 3	ine inda priment s in wor PO11 1 3 3 3 3	kplace- PSO1 3 2 2 3	PSO2 3 2 3 1	PS 2 3 3 3
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D T( R( POs Cos Cos Co1 CO2 CO.3	Pistribu Pext boo Pither Referen PO1 2 3 3 3	ttion ok/s* ces PO2 3 2 3	25%	6 1. K P 2. Bha &C Key 1. Mu: 2. Nor Prir PO4 3 2 2	Park, Te askar Ra commun y, Indus ral K F, rdin And nciple & PO5 1 3 1	25% xt Book ao, Text ity Heal trial The Ergono dersons Practic PO6 2 1 3	of Prevo book of th, Parase erapy, M mics Ma Pope, M e, Mosb PO7 3 3 1	entive ar Commu s Medica osby an in his (usculos) y Elsevi PO8 3 2 2 3	50% ad Socia unity Me al Publi workin keletal l er PO9 2 3 1	al medic edicine sher Gle g envirc Disorder PO10 3 1 2	ine enda onment s in wor PO11 1 3 3	kplace- PSO1 3 2 2	PSO2 3 2 3	P2
D Tr O R COs Cos Cos CO1 CO2	Pother Pother PO1 2 3	ttion ok/s* ces PO2 3 2	25%	6 1. K P 2. Bha &C Key 1. Mu 2. Nor Prir PO4 3 2	Park, Te askar Ra ommun y, Indus ral K F, rdin Ann nciple & PO5 1 3	25% xt Book to, Text ity Heal trial The Ergono dersons 2 Practic PO6 2 1	of Prevo book of th, Parase erapy, M mics Ma Pope, M e, Mosb PO7 3 3	entive ar Commu s Medica osby an in his iusculos y Elsevi PO8 3 2	50% ad Socia anity Ma al Publi workin keletal l er PO9 2 3	al medic edicine sher Gle g enviro Disorder PO10 3 1	ine enda porment rs in wor PO11 1 3	kplace- PSO1 3 2	PSO2 3 2	P
POs CO1	Distribu Pext boo Dther Referen PO1 2	tion ok/s* ces PO2 3	25%	6 1. K P 2. Bha &C Key 1. Mu 2. Nor Prir PO4 3	Park, Te askar Ra commun y, Indus ral K F, rdin And nciple & PO5	25% xt Book to, Text ity Heal trial The Ergono dersons Practic PO6 2	of Preve book of tth, Paras erapy, M mics Ma Pope, M e, Mosb PO7 3	entive ar Commu s Medica osby an in his fusculos y Elsevi PO8 3	50% ad Socia anity Ma al Publi workin keletal l er PO9 2	al medic edicine sher Gle g enviro Disorder PO10 3	ine enda onment rs in wor PO11 1	kplace- PSO1 3	PSO2 3	Р
D To O Ro Cos	Oistribu Pext boo Dther Referen	ttion ok/s* ces PO2	25%	6 1. K P 2. Bha &C Key 1. Mu: 2. Nor Prir PO4	Park, Te askar Ra ommun y, Indus ral K F, rdin An- nciple & PO5	25% xt Book ao, Text ity Heal trial The Ergono dersons 2 Practic PO6	of Preve book of th, Parase erapy, M mics Ma Pope, M e, Mosb PO7	entive ar Commu s Medica osby an in his iusculos y Elsevi PO8	50% nd Socia unity Ma al Publi workin keletal l er PO9	al medic edicine sher Gle g enviro Disorder PO10	ine inda onment rs in wor PO11	kplace- PSO1	PSO2	P
	Distribu Text boo Dther Referen	ttion ok/s*	25%	6 1. K P 2. Bha &C Key 1. Mu 2. Nor Prir	Park, Te askar Ra ommun y, Indus ral K F, rdin Ano aciple &	25% xt Book to, Text ity Heal trial The Ergono dersons c Practic	of Preve book of h, Paras erapy, M mics Ma Pope, M e, Mosb	entive ar Commu s Medica osby an in his usculos y Elsevi	50% nd Socia anity Ma al Publi workin keletal l er	al medic edicine sher Gle g enviro Disorder	ine enda onment rs in wor	kplace-		
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D	Distribu	tion	25%	<u></u> 0		25%			50%	Ď				
M ex W	Aode of xamina Veighta	f ation age	The CA	eory		ETE								
С			Asse	essment	and ap	plicatio	on					C	:01, CO5, 0	206
В			Dem	onstrati	ion							C	01, CO5, 0	206
А			Brie	f								C	01, CO5, 0	206
Un	nit 5		REC	ENT T	REND	S IN SF	PORTS	MEDIO	CINE				,	
Б			Dell	ionstrat	.1011								04 CO5	
A			Brie	1 									04,005	
Un	nit 4		REC	ENT T	REND	S IN EI	LECTR	OTHE	RAPY			0	04 CO5	
С			Proc	edural a	ablility	to utiliz	ze moda	alities				C	CO3, CO4, C	06
B			Dem	onstrati	ion of 1	nodaliti	ies					C	03, C04, C	206
A	ine e		Brie	f Intro	KEND	5 11 11	ILKAI	LUIIC		NU		(	CO3, C04	



n	DDT		
Pro	gramme: BPT	•	
Bra	anch:	Semester: 7 th Semester	
Ph	ysiotherapy		
1	Course Code	PTB 436	
2	Course Title	Clinical Reasoning – I (CT)	
3	Credits	2	
4	Contact	0-0-4	
	Hours (L-T-		
	P)		
	Course Type	Compulsory	
5	Course	1- To perform effective consultations using clinical	
	Objective	reasoning. 2- To develop professional practice using clinic	cal
		reasoning.	
6	Course	CO1: To understand & perform clinical reasoning (CR).	
	Outcomes	CO2: To perform hypothetico-deductive CR.	
		CO3: To demonstrate pattern formation CR.	
		CO4: To demonstrate therapist interactions.	
		CO5: To demonstrate mastery of clinical reasoning.	
		CO6: To compile the clinical reasonings for development	& planning of
		further assessment.	
7	Course	Clinical reasoning in clinical settings represents a wr	ritten mode of
	Description	consultation & communication for better patient managem	nent. It is for all
		stakeholder's accountability and responsibility. It has	s medico-legal
		implications as well. Physiotherapists within the scope of	practice shall
		take part in this effectively.	
8	Outline syllab	18	CO
			Mappin
	Unit 1	Clinical Reasoning Approaches	
	Α	Introduction	CO1, CO2
	В	Framework in different areas of PT	CO1, CO2
	С	Cases	CO1, CO2
	Unit 2	Hypotheticao- deductive method	
	Α	Introduction	C01, C03
	D	Constructing and do constructing hypotheses	C01 C03
	D	constructing and de-constructing hypotheses	CO6
	С	Cases	C01, C03
	e e		CO6
	Unit 3	Pattern formation	
	Α	Introduction	CO1, CO3
		<b>n</b>	CO6
	В	Patterns of common presentation in PT	CO1, CO3,
	~		C00



1	Unit 4		Patien	t thera	pist int	eractio	on and	decision	ı makiı	ng				
1	A		Patient	prefere	ences								CO2,	CO4
J	В		Clinica	l judge	ment ar	nd appi	oaches.						CO2,	CO4
	С		Cases										CO2,	CO4
1	Unit 5		Clinica	al reaso	oning o	utcom	e							
	A		PT goa	l plann	ing								CO1, CO6	CO5,
]	В		PT mil	estones									CO1,0	205,
	С		Cases										CO1,0	205,
!	Mode of	•	Clinica	l exam	ination								00	
	examina	tion												
1	Weighta	ge	CA							ESE				
] ]	Distribut	ion				(	CE-VIV	/A	Exter	mal Exa	m Pract	ical		
			25%			1	25%		50%					
	Text boo	k/s* 1	<ol> <li>Wat Mel</li> </ol>	ts, N. ( bourne	1990) F	łandbo	ok of C	linical	Feachin	g, Churc	hill Livi	ngstone,		
		2	2. Barı	rows, H	I.S. (19	84) A s	specific	probler	n-based	l, self-di	rected le	arning		
			met	nod des	signed t	o teach	medica	al proble	em-solv	ing skill	s, and er	hance		
			knov	wledge	retentio	on and	recall, i	n Schm	idt, H.C	G. and de	e Volder	, M.L.		
			(eds	) 	Duchlo	m Dee	adIaam	nina N		antiona fi	an Tuaini	ma in tha		
		-	5. Tuk Hea	lth Prof	fessions	Mass	tricht V	ling. N Zan Goi	cum A	ssen	Ji Tiann	ng m me	;	
		4	4. Ben	ner. P.	and Wr	ubel. J	. (1982)	a) Skille	ed clini	cal know	ledge: th	ne value	of	
			perc	eptual	awaren	ess. Pa	rt 1. The	e Journa	al of Nu	rsing Ad	lministra	tion, Ma	y,	
			11-1	4.										
		4	5. Koll	o, D.A.	(1984)	Exper	iential I	earning	g: Expe	riences a	s the Sou	urce of		
	0.1		Lea	ming a	nd Deve	elopme	nt, Pren	tice-Ha	ll, New	Jersey.			-	
	Other Defense	1	1. <u>http</u>	<u>)s://w</u>	<u>ww.apt</u>	a.org/	upload	ledFiles	S/APTA	org/Abo	<u>out_Us/</u>	Policies	<u>/B</u>	
	Reference	es	<u>, OD/</u>	Practi	<u>ce/Doc</u>	<u>umen</u>	tationP	atient	liently	<u>lgmt.pd</u>	<u>†</u>	14 7		
		4	2. http proj	://ww	w.tran	ningna	mnear	tstudy.	org/sn	are/pro	tocols/t	omd1_7	s_	
					pui	r	1							
POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C01	3	3	2	3	3	2	3	2	3	3	2	3	3	2
CO2	3	2	3	2	3	3	2	3	3	1	3	3	2	3
CO3	2	3	3	1	2	2	3	3	2	3	3	2	3	3
CO4	3	2	1	3	3	3	2	1	3	2	2	3	3	3
CO5	1	3	3	3	2	3	2	3	1	3	3	3	3	3
CO6	2	3	2	3	1	3	1	2	3	3	2	1	1	2
Pos	2.33	2.66	2.33	2.5	2.33	2.66	2.16	2.33	2.5	2.5	2.5	2.5	2.5	2.6667



1.05	gramme: BPT		
ra	nch:	Semester: 7 th Semester	
hy	siotherapy		
1	Course Code	PTB / 37	
2	Course Title	$\frac{110+57}{10}$	
3	Credits	2	
4	Contact	0-0-4	
	Hours(L-T-		
	P)		
	Course Type	Compulsory	
5	Course	1- To perform & demonstrate basic clinical skills.	
	Objective	2- To perform & demonstrate advanced clinical skills	
6	Course	CO1:To demonstrate & perform clinical skills in OPD	
0	Outcomes	CO2: To demonstrate & perform clinical skills in ICU	
		CO3: To demonstrate Clinical skills in community PT.	
		CO4: To demonstrate lifelong learning for clinical skills	
		CO5: To demonstrate mastery of clinical Skills.	
		CO6: To design physiotherapy protocol in cluding al the clinical	skills.
7	Course	Clinical skills in PT settings represents a mode of treatment f	or better
	Description	patient management. It is for all stakeholder's accountabi	lity and
		responsibility. It has medico-legal implications as well. Physiother	erapists
		within the scope of practice shall take part in this effectively.	
8	Outline syllab	bus	СО
			Mappin
	Unit 1	Basic PT Clinical Skills in podiatry.	
	Α	Different foot conditions and assessment.	CO1, CO2
	В	PT skills	CO1, CO2
	С	Cases	CO1, CO2
	Unit 2	Basic PT Clinical Skills in hand rehab.	
	Α	Different hand conditions	CO1, CO3
	В	PT skills	CO1, CO3
	C	Cases	C01, C03
	Unit 3	Basic PT Clinical Skills in geriatric community cases.	
	Α	Different geriatric conditions	C01, C03
	В	PT Skills	CO1, CO3
	С	Cases	CO1, CO3
	Unit 4	Basic PT Clinical Skills in ventilated cases.	
	Α	Different types of MV	CO2, CO4 CO6
	В	PT Skills	CO2, CO4
			CO6
	a	Cases	CO2 CO4



Unit 5		Basic P	Г Clini	cal Ski	lls in p	ediatri	c cases.						
Α	Ι	Different	pediatr	ic cond	itions							CO1, 0 CO6	205,
В	F	PT Skills										CO1, 0 CO6	205,
С	C	Cases										CO1, 0	CO5,
Mode o	of ation	Clinical	examin	ation								000	
Weight	age	CA							ESE				
Distrib	ition				C	E-VIV	'A	Exter	nal Exa	m Pract	ical		
		25%			2	5%		50%					
Other	3 	Schm Direc 8. Benne aware Kolb, D.A Developn	tions for er, P. a eness. P A. (1984 nent, Pr	or Train nd Wru Part 1. T 4) Expe	te Vold ing in t ibel, J. The Jour riential Hall, No	ler, M.I he Hea (1982a rnal of I Learni ew Jers	2. (eds) lth Prof 1) Skille Nursing ng: Exp ey.	ed clini g Admin	Is in Pro . Masstri cal know histration es as the	icht. Var vledge: t i, May, 1 Source c	he value 1-14. 1-Learni	n, Assen	eptual
Referen	lces	ctice/	//www. Docum w.fram	entation ingham	g/upioa nPatien heartsti	tClient udy.org	es/APT Mgmt.p /share/µ	Aorg/A odf protoco	ls/bmd1_	/Policies _7s_prot	/BOD/P	ra	
POs PO	lices	tttp://ww	//www. Docum w.fram	entation ingham	g/upioa nPatien heartsti	tClient udy.org	es/APT Mgmt.p /share/p PO8	Aorg/A odf protoco PO9	ls/bmd1_	/Policies _7s_prot	/BOD/P: ocol.p df	ra F PSO2	PSO3
POs Cos PO CO1 3	1 PO2	2 PO3	//www. Docum w.fram PO4 3	PO5	g/upioa nPatien heartstr PO6 3	PO7	es/APTA Mgmt.p /share/p PO8 2	Aorg/A odf protoco PO9 2	PO10	/Policies _7s_prot PO11 2	/BOD/P: ocol.p df PSO1 2	ra PSO2 2	PSO3 2
POs Cos PO CO1 3 CO2 2	1 PO2	2 PO3 3 2	//www. Docum w.fram PO4 3 1	PO5 2 3	PO6 3	PO7 3	es/APTA Mgmt.p /share/p PO8 2 3	Aorg/A odf protoco PO9 2 3	Bout_Us ls/bmd1_ PO10 3 2	/Policies _7s_prote PO11 2 3	/BOD/P ocol.p df PSO1 2 3	PSO2 2 3	PSO3 2 3

CO6	2	3	2	3	3	2	3	1	2
Average Pos	2.16	2.16	2.33	2.33	2.5	2.5	2.33	2.33	2.33
1-Slight	(Low)	1							

2.66

2.16

2.33

2.5

2.5

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

CO4

CO5



Dwa	momme. DDT		
Prog	gramme: BP1	•	
Bra	inch:	Semester: 7 th Semester	
Phy	siotherapy		
1	Course Code	PTB 438	
2	Course Title	Clinical Documentation – I (CT)	
3	Credits	2	
4	Contact Hours(L-T- P)	0-0-4	
	Course Type	Compulsory	
5	Course Objective	To enable the students to document various aspects of proper History t assessment, differential diagnosis and plan of treatment. Referrals & follow up of patients undergoing physiotherapy from vario departments of the domain of health and allied sciences. To master these skills among learners and review their application con	aking, ous stantly.
6	Course	CO1:To perform history taking documentation.	
	Outcomes	CO2: To perform SOAP documentation.	
		CO3: To demonstrate referrals documentation.	
		CO4: To demonstrate follow up documentation	
		CO5: To demonstrate mastery of clinical documentation	
		CO6: To compile the documentations for further planning of treatment	t
7	Course	Documentation in clinical settings represents a written mode	of
	Description	communication for better nationst management. It is for all stakeholde	er's
	1	accountability and responsibility. It has medico legal implications as w	الم
		Devoicthereniste within the scene of prectice shall take port in this	cii.
		effectively	
0	Or the second second	effectively	60
8	Outline syllar	bus	<u> </u>
	<b>TT A A</b>		Mappin
	Unit I	Formats of Assessment	001.000
	A	General Assessment	CO1, CO2
	в	Physiotherapy Assessment	CO1, CO2
	C	Functional Assessment	CO1 CO2
	C		CO6
	Unit 2	SOAP format	
	Α	Subjective Assessment	CO1, CO3 CO6
	В	Objective Assessment	CO1, CO3
	_		CO6
	С	Assessment leading to Goal Planning	CO1, CO3
			CO6
	Unit 3	POMR Format	



11	Patients oriented problem li	ist		CO1,C
В	Investigations record			CO1,C
С	Temporal Variations			C01,C
Unit 4	Referrals			, .
A	To the PT department			CO2, C
B	From the PT department			CO2. C
C	Documentation of the referra	als		CO2. C
Unit 5	Outcome measures and fo	ollow-up		, .
A	6 Minute Walk test, UPDRS	• • • •		CO1, C
				CO6
В	BBS, MMSE, GMFCS,			CO1, C
				CO6
С	Pea Body Scale, BAILEY sc	ale of infant deve	elopment, NBAS, PASE (Physical	CO1, C
	activity scale for the elderly)			CO6
Mode of	Practical			
examination			545	
Weightage	CA		ESE	-
Distribution	250/	CE-VIVA	External Exam Practical	
<b>T</b> 1 1 ( #	25%	25%	50%	
1	knowledge retention and	l recall, in Schmi	dt, H.G. and de Volder, M.L. (eds)	
	<ol> <li>Tutorials in Problem-Ba Health Professions. Mas</li> </ol>	sed Learning. Ne stricht. Van Gorc	w Directions for Training in the cum, Assen	
	<ol> <li>Benner, P. and Wrubel, perceptual awareness. Pa 11-14.</li> </ol>	J. (1982a) Skilled art 1. The Journal	d clinical knowledge: the value of l of Nursing Administration, May,	
	5. Kolb, D.A. (1984) Exper Learning and Developm	riential Learning: ent, Prentice-Hal	Experiences as the Source of I, New Jersey.	
Other	1. https://www.apta.org	/uploadedFiles,	/APTAorg/About_Us/Policies/B	
References	OD/Practice/Documer	ntationPatientC	<u>lientMgmt.pdf</u>	
	<ol> <li>http://www.framinghates</li> <li>protocol.pdf</li> </ol>	amheartstudy.c	org/share/protocols/bmd1_7s	



POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C01	3	1	3	З	2	З	3	2	2	3	2	2	2	2
CO2	2	2	2	1	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	2	3	2	2	3	3	3	1	3	3	3
CO4	2	2	1	2	2	2	1	2	3	3	2	3	3	2
CO5	1	2	3	3	2	3	2	3	1	2	3	2	3	3
CO6	2	3	2	3	3	2	3	1	2	3	2	1	1	2
Average Pos	2.16	2.16	2.33	2.33	2.5	2.5	2.33	2.33	2.33	2.66	2.16	2.33	2.5	2.5



## **Eighth Semester**

Sch	ool: SSAHS	Batch : 2023-27									
Pro	gramme:	•									
<b>BP</b> ]	Γ										
Bra	nch:	Semester: 8 th Semester									
Phy	siotherapy										
1	Course Code	PTB 411									
2	Course Title	Physiotherapy in Cardio-Pulmonary Sciences Including Lymphatic System									
3	Credits	3									
4	Contact	3-0-0									
	Hours(L-T-										
	P)										
	Course Type	Compulsory									
5	Course	1. To provide knowledge in assessing and planning physiotherapy intervention	18								
	Objective	forvarious General, Medical and Surgical conditions.									
		2. The student must be able to reassess the patient as necessary, to monitor the patient's vital signs	patient in								
		3. Student must know emergency drugs indication and contra-indication, care ininten									
		care unit (ICU) and to provide appropriate interventions to the patient									
6	Course	CO1: Remembering the etiology, pathology, clinical features and medica	ıl or								
	Outcomes	surgical Management of various diseases/disorders affecting the cardiac	and								
		vascular conditions.									
		CO2: Understanding the basic concepts of assessment/ diagnostic tests of	f various								
		cardiovascular diseases/disorders.									
		cO3: understanding the surgical procedures, their complications and mai	nagement of								
		CO4: Applying the principles of physiotherapy management in planning	а								
		comprehensive Cardiovascular rehabilitation Programme.									
		CO5: Evaluating the available treatment techniques and evidence ased pr	actice for								
		Physiotherapy management of cardiovascular conditions.									
		CO6: To Compile and formulate available treatment techniques and evid	ence ased								
		practice for Physiotherapy management of cardiovascular conditions									
7	Course	The subject is designed to provide knowledge in assessing and planning									
	Description	physiotherapy interventions for various General, Medical and Surgical of	conditions.								
		in regard to	the patient								
		treatment to monitor the patient's vital signs, student must know									
		emergency drugs indication and contra-indication, care in intensive care	2								
		unit (ICU) and toprovide appropriate interventions to the patient									
8	Outline syllab	bus	CO								
			Mapping								
	Unit 1	ASSESSMENT AND INVESTIGATIONS									



А	INTRODUCTION: Anatomical and Physiological differences	CO1,
	between the Adult and Pediatric lung.	CO2,
	Bedside assessment of the patient-Adult & Pediatric.	CO6
В	Exercise tolerance Testing- Maximal and sub-maximal tests	CO2,
	Radiographs, PFT, ABG, ECG, Biomarkers, Hematological and Biochemical Tests.	CO3,
С	Outcome measures in pulmonary rehabilitation and Scales	CO4,
	used in pulmonary rehabilitation (becks depression inventory	CO6,
	(BDI) and Hamilton Anxiety Scale(HAS), MMSE, SGRQ,	
	SF-36, Activities-specific balance scale	
	Outcome measures in cardiac rehabilitation	
Unit 2	Physiotherapy Techniques	
А	Physiotherapy techniques to increase lung volume-	CO4,CO5
	Mobilization Body positioning, Breathing exercises,	
	Neurophysiological Facilitation of respiration	
В	Mechanical aid –Incentive Spirometry	CO3.
-	Breathing control techniques	CO4
	Relaxation positions to relieve dyspnea	
С	Physiotherapy techniques to clear secretions-	CO4, CO
	Hydration, Humidification, Nebulisation, Postural	
	Drainage	
	Manual techniques – Percussion, Vibration and Shaking, Rib	
	PEP devices	
Unit 3	Cardiac-Pulmonary Rehabilitation	
A	Definition, Indications, Contraindications, Phases of Cardiac	CO5, CO
	Rehabilitation and components of pulmonary rehabilitation	
В	Disease specific approaches in cardio-pulmonary rehabilitation (	
	asthma, obesity related respiratory disorders, pulmonary hypertension,	
	post-surgical patients, CABG )	
C	Drug therany–	CO1 CO
C	Drugs to prevent and treat	
	inflammation Drugs to treat	
	Bronchospasm,	
	Drugs to treat Breathlessness	
	Drugs to help sputum clearance	
	Drugs to inhibit coughing	
	Drugs to improve ventilation	
Unit 4	Intensive Care Unit	
A	Introduction to ICU:	CO3, CO
	ICU monitoring and Apparatus	,
	C 11	



В	Oxygen Therapy Non- Invasive ventilation	on (CPAP, BiPAP)	)	CO4, CO			
С	Indications, contraindic ventilator	ations, Modes and	weaning of mechanical	CO5, CO			
Unit 5	Neonatal and pediatri	c physiotherapy 2	AND lymphatic System				
A	Neonatal Unit Chest physiotherapy fo Modifications of chest Emergencies in the neo	r children physiotherapy for onatal unit.	specific neonatal disorder	rs CO4, C			
В	Evaluation of lymphedema Lymphatic massage Skin care and hygiene Techniques for Prevention and reduction of lymphedema						
С	Manual lymphatic drainage Faradism Under Pressure Intermittent/pneumatic Compression therapy Compression therapy						
Mode of examination	Theory						
Weightage	CA	MTE	ETE				
Distribution	25	25	50				
	<ol> <li>Cash Textbook of general medical and surgical conditions for physiotherapists- Donnie Jaypee Brothers.</li> <li>Essential of Cariopulmonary physical therapy- Hillegass &amp; Sadowsky W. B. Saunders.</li> <li>Cash textbook of Chest, Heart and Vascular Disorders for Physiotherapists- Downie- J.P. Brothers</li> </ol>						
	4. The-Brompton Guid	e to Chest Physica	l therapy				
	<ol> <li>5. Cardiopulmonary Ph</li> <li>6. Cardiovascular/Res</li> <li>7. ACSM Guidelines for ACSM Williams and N</li> </ol>	ysical Therapy- Ir piratory physiothe or exercise testing a	win and Tecknin, Mosby. rapy- Smith & Ball-Mosb and prescription-	ру			
	8. Chest physiotherapy Williams and Wilk	in intensive care u	mit- Mackenzie et al -				
	9. Cardiopulmonary Ph 10. Understanding Mec	ysical Therapy- D chanical Ventilation	onna Frown Feltter n- Hasan				
	11. Physiotherapy in respiratory Care- Hough 12. Respiratory Physiotherapy- Harden						



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	2	1	3	3	2	1	3	3	2	1	2	3	3
CO2	3	1	3	3	1	3	2	2	2	3	2	3	3	2
CO3	3	3	2	2	3	2	3	3	3	3	3	2	2	2
CO4	2	3	3	3	2	3	2	1	3	2	3	3	3	2
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	2
CO6	1	2	2	3	1	2	3	1	2	1	3	2	2	3
Average PO's	2.5	2.16	2.33	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.5	2.66	2.3

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)



Sc	hool: SSAHS	Batch: 2023-27								
Pr BF	ogramme: PT	•								
Br	anch:	Semester: 8 th Semester								
Ph	ysiotherapy									
1	Course Code	e PTB 412								
2	Course Title	Physiotherapy in Obstetrics and Gynecological Condition								
3	Credits	2								
4	Contact Hours (L-T-P)	2-0-0								
	Course Type	DSC								
5	Course Objective	The student will be able to Understand the importance of physiotherap in obstetrics and gynaecology, the basic concepts of techniques, th importance of exercises and preventive measure in women health.								
6	Course Outcomes	<ul> <li>CO1 - understanding of the changing knowledge base in this clinical</li> <li>CO2- Understand the impact of exercise on the altered pathophysiology and psychology of pregnancy, menopause, aging, &amp; osteoporosis.</li> <li>CO3- Understand the motivational and marking aspect of leading conhospital based exercise classes.</li> <li>CO4- Identify the legal and safety issue associated with leading exerc women with specific physical need.</li> <li>CO5 - Plan, deliver and evaluate appropriate exercise Programme women's groups of the community.</li> <li>CO6: To compile the observations and findings for development an various gynecological conditions</li> </ul>	area physiology, tosteopenia / ommunity and ise classes for s for specific d planning of							
7	Course Description	In this course the student will learn the principles, techniqu effects of physiotherapy in various obstetrics and gynecolo conditions.	e, and gical							
8	Outline syllabu	IS Statements of the second se	СО							
	-		Mapping							
	Unit 1	Physiotherapy assessment in obstetrics								
	А	Antenatal assessment.	CO1,CO2							
	В	Assessment during labour.	CO1,CO2							
	С	Postnatal assessment.	CO1,CO2							



Unit 2	Physiotherapy assessment in gynecology	
A	Physiotherapy Assessment of different gynecological condition.	CO1,CO
В	Pre & Post operative assessment of gynecological surgery.	CO1,CO
С	Physiotherapy assessment of Bladder and Bowel Dysfunction. Assessment includes: Pelvic floor muscle assessment. Assessment of pain. Diagnostic	C01,C0
	tools used in gynaecological assessment. Examination of	
	breast cancer, Puberty & common	
	syndrome during this phase. Polycystic ovarian syndrome.	
Unit 3	Physiotherapy in obstetrics	
A	Antenatal exercise in pregnancy.	СОЗ,
	Concept, principles and organization of antenatal exercises. PT	CO6
	management of common syndrome of pregnancy. Role of PT in antenatal complication.	
В	Ergonomics during childbearing phase.	CO3.
	Role of physiotherapy in high risk pregnancy.	CO6
	Role of physiotherapy during Labor and Urinary in continence.	
С	C- Section, normal delivery care and post natal physiotherapy. PT management of immediate and late postnatal complications.	CO2, CO3
Unit 4	Physiotherapy in gynecology	
А	Exercise for an adolescent female.	CO2,
		CO6
В	Principles and techniques of application of pelvic floor exercises. Use of electrotherapy modalities in training Pelvic floor muscles.	CO2, CO6
	Therapeutic electrical stimulation. & Biofeedback.	
C	Physiotherapy management in Pelvic floor dysfunction.	CO2,
	Physiotherapy intervention before and after gynecological surgeries.	CO6
Unit 5	Other Women health related condition	
	Prevention and Physiotherapy intervention in Osteoporosis and	CO4,CO
A	PCOD.	
AB	PCOD. Physiotherapy management of breast cancer, Lymph edema	CO4,
A B	PCOD. Physiotherapy management of breast cancer, Lymph edema after mastectomy.	CO4,



С	C Physiotherapy management of cervical cancer, uterine cancer, hysterectomy.						
Mode of examination         Theory/Jury/Practical/Viva							
Weight age	CA	MTE	ETE				
Distribution	25%	25%	50%				
Text	Physiothera						
book/s*	Margaret Po	olden					
Other	Textbook of	f Physiotherapy	for Obstetrics and				
References Gynecological Conditions by GB Madhuri							

POs	PO1	PO2	PO3	PO4	POS	PO	6 PC	07 P	08 1	O9 I	O10 P	O11 PS	O1 PS	O2
COs														
CO1	3	2	1	3	3	2	1	3	3	2	1	2	3	3
C	3	1	3	3	1	3	2	2	2	3	2	3	3	2
02	3	3	2	2	3	2	3	3	3	3	3	2	2	2
CO3	2	3	3	3	2	3	2	1	3	2	3	3	3	2
CO4	3	2	3	1	3	2	1	3	2	3	2	3	3	2
CO5	1	2	2	3	1	2	3	1	2	1	3	2	2	3
CO6												2.5	2.66	2.3



S	chool: SSAHS	Batch: 2023-2027						
Pro	ogramme: BPT	•						
Br	anch:	Semester: 8 th Semester						
Ph	ysiotherapy							
1	Course Code	PTB 413						
2	Course Title	Community Based Rehabilitation						
3	Credits	2						
4	Contact Hours (L-T-P)	2-0-0						
	Course Type	CC						
5	Course Objective	<ol> <li>Students will be able apply knowledge in community medicine an other areas withskills to apply these in clinical situation.</li> <li>Students will be able to identify rehabilitation methods to prevent disabilities anddysfunctions due to various disease conditions.</li> <li>To plan treatment goals and apply the skills gained in rehabilitatin and restoring functions.</li> </ol>	ıd ng					
6	Course Outcomes	CO1: Understanding the concepts and principles Community BasedRehabilitation and general rehabilitation. CO2: Explaining the concept of disability, its evaluation, health and health, national healthcare Programmes and policies, NGOs. CO3: Practicing appropriate physiotherapy skills when rehabilitating patient incommunity set up. CO4: Summarizing the role of vocational rehabilitation and community awareness in Community Based Rehabilitation. CO5: Application of various orthosis, prosthesis, devices for differen medical and Physical conditions. CO6: To formulate the applicability of various approaches in the rehabilitation.	of geriatric the nt					
7	Course Description	The subject serves to integrate the knowledge gained by the si community medicine and other areas with skills to apply these situations of health and disease and its prevention. The objective of the that after the specified hours of lectures and demonstrations the stude able to identify rehabilitation methods to prevent disabilities and dy due to various disease conditions and plan and set treatment goals and skills gained in rehabilitating and restoring functions	tudents in in clinical e course is ent will be sfunctions apply the					
8	Outline syllabu	S	CO Mapping					
	Unit 1	General Rehabilitation						
	A	Conceptual framework of rehabilitation, definitions, various models of Rehab, Rehab team including Medical person/P.T./O.T. audiologist/speech therapist /P.&O./ rehab nurse/ psychologist/ vocational guide.	CO1					



	WHO definition of Health & disease, Health care delivery system, National Policies of Rehab	CO1, CO3		
C	Community participation and mobilization National	$CO1 CO^{2}$		
C	Institutions, and National health care Programmes	CO1, CO.		
Unit 2	Disability & its evaluation			
A	Definition of Impairment, Handicap and Disability, Difference	CO2.		
	between impairment, handicap and disability.	CO3, CO		
В	Types and Prevention and rehabilitation of disability, Screening:	CO2,		
	Early detection of disabilities	CO3, CO		
С	Disability Evaluation: Introduction, What, Why and How to evaluate,	CO2,		
	Quantitative versus Qualitative data, Uses of evaluation findings and			
	guidelines of disability evaluation.	CO6		
Unit 3	Introduction and Dringiples of Community Resod	000		
Omt 5	Rehabilitation			
٨	Definition Concept of CBR Need for CBR Objectives of CBR	CO3 CO4		
A	Scope of CBR, Members of CBR team. Models of CBR, Difference	CO5, CO4 CO6		
	between Institution based and Community based Rehabilitation,	000		
	Community initiated versus community oriented Programme			
В	W.H.O.'s policies- about rural health care- concept of primary	CO1, CO		
	/tertiary health centers- district hospitals etc., Principles of a team	CO6		
	work in C.B.R. of physically handicapped person, Agencies			
	involved in rehabilitation of physical handicapped - Legislation for			
	physically handicapped. Concept of multipurpose health worker.			
	Role of family members in the rehabilitation of a physically			
	handicapped			
С	Role of Physiotherapy in CBR:	CO1, CO		
	Screening for disabilities, Modifications physical and architectural			
	barriers for disabled, Strategies to improve ADL Rehabilitation			
	Programmes for various neuro- musculoskeletal and			
	Carabral palsy Polio severe OA Amputation: sensory loss			
	vision, hearing, speech			
	impairment, Degenerative, Geriatric patients, other disabling			
	conditions			
Unit 4	Role of Government in CBR			
A	Role of voluntary Organizations in CBR: Charitable Organizations.	CO3. CO		
	Voluntary health agencies– National level and International NGO's.	,		
	Multilateral and Bilateral agencies. International Health			
	Organizations: WHO, UNICEF, UNDP, UNFPA, FAO, ILO, World			
	bank, USAID, SIDA, DANIDA, Rockefeller, Ford foundation, CARE.			
	RED CROSS.			
В	Employment acts: Employee state insurance scheme. Workman's	CO3, CO		
	compensation act. Legal aspects of disability in terms of	,		
	compensation for PWD, benefits& rights.			
<u> </u>	Vocational Rehabilitation: Introduction evaluation	CO3 CO		
C	Vocational Rehabilitation: Introduction, evaluation & management	CO3, CO		



A	Definit & asse betwee	tion and Biomech ssment. Classific en prosthesis and	nanical principles i ation of Aids & ap orthosis.	n designing of appliances ppliances. Differences	CO5, CO6			
В	Introduc Upper 1 Oppone Spinal ( Lumbo Brace, ( KAFO,	ction to Splints / Limb Orthoses: ns splint, finger s Drthoses: Head C – sacral Orthoses Collars); Lower L AFO, Foot Ortho	Orthoses – For s - Knuckle Bender splints, aero plane ervical Orthoses, C (Knight brace, Ta Limb Orthoses: HK poses (Shoe Modific	pine,upper & lower limb. r splint, Cock Up Splint, splint, wristhand orthosis. Cervical, Thoraco-lumbar, ylors's Brace, Milwawkee CAFO, cation)	CO5, CO6			
С	Prostheses – Endoskeleton, Exoskeleton, prostheses for Lower limb and upper limb, indications and checkout							
Mode of examination	Theory/Jury/Practical/Viva							
Weightage Distribution	CA		MTE	ETE				
	25%		25%	50%				
Text book/s*	<ol> <li>Bhaskar Rao, Text book of Community Medicine &amp;Community Health, Paras Medical Publisher</li> <li>Andrew Guccione Geriatrics Physiotherapy, Elsevier Mosby.</li> <li>Clura &amp; Kan, Indentical Therapa, Maskar</li> </ol>							
	4. 5.	Chinnathurai, Sho Jp MedicalPub Pruthvish, Comm of Persons withD	ort textbook of prost unity Based Rehabi isabilities	hetics and orthotics,				
	6.	Madhuri, Geriatri Medicine forPhys	c Medicine and Reh siotherapist	abilitation				
Other References	1.	Mural K F, Ergon	nomics Man in his w	orking environment				
	2. 3.	Nordin Anderson in workplace- Priz G R Madan, India	s Pope, Musculoske nciple & Practice, M an Social Problem V	letal Disorders Iosby Elsevier Iol				
	4. 5.	2, AlliedPublisher Gautam Bannerje ICF -WHO Healt	rs,Disability2000-R e , Legal Rights of c h Organisation 2001	CI lisabled in India publication				
	<ul> <li>6. Park, Preventive &amp; Social Medicine, Banarsidas Bhanot</li> <li>7. Hallender Padmini Mendes, Training in the Community for the peoplewith disability</li> </ul>							
	8. David Werner, Disabled Village Children, Hesperian Foundation							



POsCOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C01	3	2	1	3	3	2	1	3	3	2	1	3	2	3
CO2	3	1	3	3	1	3	2	2	2	3	2	2	3	3
CO3	3	3	2	2	3	2	3	3	3	3	3	3	2	3
CO4	2	3	3	3	2	3	2	1	3	2	3	3	3	3
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO6	1	2	2	3	1	2	3	1	2	1	3	2	3	2
Average PO's	2.5	2.16	2.33	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.66	2.66	2.83



Pro	gramme: BPT	•	
Bra	anch:	Semester: 8 th Semester	
Ph	ysiotherapy		
1	Course Code	PTB 414	
2	Course Title	Advanced Rehabilitation Aids and Appliances	
3	Credits	1	
4	Contact Hours (L-T-P)	1-0-0	
	Course Type	CC	
5	Objective	<ol> <li>Students will be able apply knowledge in community medicine an other areas withskills to apply these in clinical situation.</li> <li>Students will be able to identify rehabilitation methods to prevent disabilities anddysfunctions due to various disease conditions.</li> <li>To plan treatment goals and apply the skills gained in rehabilitatin and restoring functions.</li> </ol>	g
6	Course Outcomes	<ul> <li>CO1: Understanding the concepts and Prescription of Prosthesis and Wheel chair.</li> <li>CO2: Understand the principles and training of functions using robot CO3: Understand the principles and application of Brain computer interface in Rehabilitation and training.</li> <li>CO4: Application of the principles of ADLs tools for daily task.</li> </ul>	Orthosis, ic devices.
		CO5: Understand functioning of AV devices and their application for rehabilitation of a patients. CO6: To compile the principle and application of various aids and appliances to formulate a prescription.	r
7	Course Description	The subject serves to integrate the knowledge gained by the students in medicine and other areas with skills to apply these in clinical situation and disease and its prevention. The objective of the course is that after hours of lectures and demonstrations the student will be able rehabilitation methods to prevent disabilities and dysfunctions due disease conditions and plan and set treatment goals and apply the skill rehabilitating and restoring functions	a communit ons of healt the specifier to identif e to variou s gained in
8	Outline syllabus	S	CO Mapping
	Unit 1	Mobility Aids	CO1
	А	Wheel chair, its parts and Prescription.	
	В	Orthotic Prescription.	
	С	Prosthetic Prescription	
	Unit 2	Robot assisted Functional Training	CO2, CO
	А	Upper Limb Functional Training	
	В	Lower Limb Functional Training	
	С	Gait Training	1



Ds PC 1	0 1 3 3	PO2 2 2	PO3 3 3	9. Gl 10. Cl Jp 11. Pr of 12 PO4 3	lenda H hinnath Medic uthvisl Person PO5 2 3	Xey, In nurai, S calPub h, Corr ns with PO6 2 3	dustria Short te Disabi PO7 3 2	ll Thera extbook y Based llities PO8 3 2	apy, M c of pro d Reha PO9 3 2	losby osthetic abilitatio PO10 2 3	PO11 1 2	PSO1 3 2	, PSO2 2 3	PSO3 3 3
Ds PC	0 1 3	PO2 2	PO3	9. Gl 10. Cl Jp 11. Pr of 12 PO4	lenda H hinnath Medic uthvisl Person PO5 2	Key, In nurai, S calPub h, Com ns with PO6 2	dustria Short te munit Disabi PO7 3	ll Thera extbook y Based lities PO8 3	apy, M c of pro d Reha PO9 3	losby osthetic abilitatio PO10 2	s and or on PO11	PSO1	PSO2	PSO3
Ds PC		PO2	PO3	9. Gl 10. Cl Jp 11. Pr of 12	lenda H hinnath Medic uthvisl Person PO5	Key, In nurai, S calPub h, Com ns with PO6	dustria Short te munit Disabi	ll Thera extbook y Base ilities PO8	apy, M c of pro d Reha PO9	losby osthetic abilitatio PO10	s and or on PO11	rthotics PSO1	PSO2	PSO3
				9. Gl 10. Cl Jp 11. Pr of 12	lenda H hinnath Medic uthvisl Persor	Key, In nurai, S calPub h, Corr ns with	dustria Short te imunit Disabi	ll Thera extbook y Base llities	apy, M c of pro d Reha	losby osthetic ibilitatio	s and o	rthotics	,	
ſext bo	ook	/s*		8. Bl M M	haskar edicine edical	Rao, T e &Co Publis	ext bo mmuni her	ok of C ty Hea	Commu lth, Pa	unity ras				
Distribu	utic	on	259	%	25%	ó	5	0%						
vlode o xamin Weight	of natio tage	on e	CA	heory/Jury/Practical/Viva										
2	C		Au	Audio Visual Aids										
3			Vide	Video Aids										
A			Au	Audio Aids										
] []nit 5			To	Tools for Typing Audio Visual Appliances										05 CC
3			Too	ols for	Feedin	g								
4			Toc	ols for	Dressi	ng								
Unit 4			To	ols for		anning							C	204
3			Up	per Lii	mb Tra	ining								
4			AI,	Introd	luction	, and A	Applica	tion						
4 3 2				Bra AI, Up Lov	Brain Co AI, Introd Upper Lin Lower Li	Brain Compute AI, Introduction Upper Limb Tra Lower Limb Tra	Brain Computer Inte           AI, Introduction, and A           Upper Limb Training           Lower Limb Training	Brain Computer Interferen           AI, Introduction, and Applica           Upper Limb Training           Lower Limb Training	Brain Computer Interference           AI, Introduction, and Application           Upper Limb Training           Lower Limb Training	Brain Computer Interference           AI, Introduction, and Application           Upper Limb Training           Lower Limb Training	Brain Computer Interference           AI, Introduction, and Application           Upper Limb Training           Lower Limb Training	Brain Computer Interference         AI, Introduction, and Application         Upper Limb Training         Lower Limb Training	Brain Computer Interference         AI, Introduction, and Application         Upper Limb Training         Lower Limb Training	Brain Computer Interference     C       AI, Introduction, and Application     Upper Limb Training       Lower Limb Training     Image: Computer Limb Training



Sc	hool: SSAHS	Batch: 2023-2027								
Prog	gramme: BPT	•								
Bra Phy	anch: ysiotherapy	Semester: 7 TH semester								
1	Course Code	PTB 415								
2	Course Title	Teamwork and interpersonal communication								
3	Credits	-								
4	Contact Hours (L-T-P)	1-0-0								
	Course Status	CC								
5	Course Objective	The objective of the course is that after the specified hours of le demonstrations the student will be able to understand the impor challenges of team work. Also, the need of communication skil personality development.	ectures and tance and ls and							
6	Course Outcomes	<ul><li>CO1- To make them remember about the basics of teamwork communication and its importance.</li><li>CO2- To understand about the objectives, concept and need of team building. CO3- Apply the prospects for teamwork and the challenges.</li><li>CO4- Analyze the need and importance of communication skills.</li><li>CO5- To evaluate the concepts and determinants of personality development.</li></ul>								
		CO6: to compile the objectives, concept and need of team b	uilding							
7	Course Description	This course introduces the student about the team work , interper communication and personality development.	sonal							
8	Outline syllabu	s	CO Mapping							
	Unit 1	Introduction								
		Teamwork Interpersonal coomunication Importance	CO1, CO3							
	Unit 2	Teamwork								
		The Team Building Concept Determining the Need for Team Building Objective and stages of team building	CO2, CO3 CO6							
	Unit 3	Prospects for teamwork								
		Impediments Challenges Factors	CO1, CO3 CO6							
	Unit 4	Communication Skills								
		-essesntials for good coomunication -types of communication	C01,C04							
		-Language skills								



 Unit 5	Persona	lity Developr	nent	
	-Concept Dimentio Determin	i ons nants		CO4, CO5 CO6
Mode of examination	Practical	/Viva		
Weightage	CA	MTE	ETE	
Distribution	25%	25%	50%	
Text book/s*	1.		·	
Other References	1.			

POs	РО	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs	1													
CO1	3	2	3	3	2	2	3	3	3	2	1	3	2	3
CO2	3	2	3	1	3	3	2	2	2	3	2	2	3	3
CO3	3	3	2	2	3	2	3	3	1	3	3	3	2	3
CO4	2	3	1	3	2	3	2	1	3	2	2	3	3	3
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO6	1	2	2	3	1	2	3	1	2	1	3	2	3	2
Average														
PO's	2,	2.33	2.33	2.16	2.33	2.33	2.33	2.16	2.16	2.33	2.16	2.66	2.66	2.83



Sc	chool: SSAHS	Batch : 2023-27
Pı	rogramme: BPT	•
B	ranch:	Semester: 8 th Semester
Pl	nysiotherapy	
1	Course Code	PTB 416
2	Course Title	ICU PT
3	Credits	1
4	Contact Hours	1-0-0
	(L-T-P)	
	Course Type	SEC
5	Course	1. The objective of this course is, the student will be able to assess different
	Objective	condition due to neurological dysfunction, set treatment goals and apply
		their skill.
		2. Students will understand the role exercise therapy and use of
		different neurological scales for outcome measures.
		3. In addition, the student will be able to diagnose the conditions
6	Course	CO1: Be able to develop research based rehabilitation skills to implement
	Outcomes	timely and appropriate physiotherapy assessment tools/techniques to ensure a
		holistic approach to ICU patient
		CO2: Be able to select timely research based physiotherapeutic interventions to
		reduce morbidity and physiotherapy management strategies, suitable for the
		patients' problems and indicator conditions based on obstructive and restrictive
		pulmonary disorder and be able to rehabilitate the chest conditions based on
		positioning scales and measure the outcomes.
		CO3: Implement appropriate research based neuro-physiotherapeutic approaches
		for patients with pediatric abnormality.
		CO4: Be able to make renabilitation for orthopedic, neurological and genatric
		conditions.
		COS: Be able to develop benavioral skills and numanitarian approach while
		individual and community health.
		CO6: to be able to compile research based rehabilitation skills required for ICU
		patients.
7	Course	The subject serves to integrate the knowledge gained by the students in ICU and
	Description	other Systemic disorder with skills to apply these in clinical situations of
		dysfunction and pathology. The objective of the course is that after the specified
		hours of lectures and demonstrations the student will be able to identify
		disabilities due to ICU conditions dysfunction, plan and set treatment goals and
		apply the skills gained in exercise therapy and electrotherapy in these clinical
		situations to restore function and measure the outcomes of treatment and predict
		the prognosis of patient.
8	Outling evilabue	CO Mapping



	Uni	it 1		ICU	РТ								C01,C	02	
	Α			Chro	onic ob	structi	ve pulr	nonary	disea	se					
	В			Rest	rictive	pulmo	onary co	onditio	ns						
	С			Posi	tioning	g and n	nobiliza	ation							
	Uni	it 2		Pae	diatric	s ICU	PT						C01,C	O2 ,CO3	
	Α			Dela	yed m	ileston	es								
	В			Cere	ebral pa	alsy									
	С			Mus	cle dys	strophy	/								
	Uni	it 3		Ort	hopaed	dic IC	U PT						CO4,C	05,CO6	
	Α			Roa	Road traffic accident										
	В			Surgical management of spine and extremities Hand rehabilitation											
	С														
	Uni	it 4		Neurological ICU PT									CO4,C	O5,CO6	
	Α			Cere	Cerebrovascular disease										
	В			Guil	lain ba	rre syr	ndrome	;							
	С			Resp	oiratory	y musc	le strer	ngtheni	ng						
	Uni	it 5		Ger	riatric	ICU F	т						CO4,C	O5,CO6	
	А			Chro	onic ob	structi	ve pulr	nonary	disea	se,					
	В			Stro	ke, Par	kinson	diseas	e							
	С			Arth	Arthritis, Osteoporosis										
	Mo exa	de of minat	tion	The	Theory/Jury/Practical/Viva										
	We	ighta	ge	CA			MSE		I	ESE					
	Dis	tribut	ion	25%					7	75%					
	Tex	t boo	k/s*	PJ N criti	PJ Mehta Principle of geriatric physiotherapy- Narinder kaur multani Textbook of critical care-Vincent										
	Oth Ref	ier erenc	es	Clinio sulliv	Clinical orthopaedic Rehabilitation- S Brent Brotzman Physical rehabilitation- sullivan										
POs COs		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSC
C01		2	3	2	3	3	2	3	2	3	2	2	3	3	2
CO2	2	3	3	2	3	1	3	3	3	3	3	3	3	3	3
CO3	3	3	3	2	3	3	2	3	3	1	3	3	2	3	3
CO4	ł	3	1	3	3	1	3	3	1	2	3	2	3	2	3
CO5	5	3	3	2	2	3	2	3	3	3	3	2	3	3	3
CO6	5	3	2	1	3	2	1	1	2	3	3	2	1	2	3
Averag	ge	2.83	2.5	2	2.83	2.16	2.16	2.66	2.33	2.5	2.83	2.33	2.5	2.66	2.8



So	chool: SSAHS	Batch : 2023-27	
Pı	rogramme: BPT	•	
B	ranch:	Semester: 8 th Semester	
Pl	nysiotherapy		
1	Course Code	DTD 417	
2	Course Title	PIB 41/ DT in Prodictrics:	
2	Cradite		
5	Contact Hours	1	
4	(I T D)	1-0-0	
	(L-I-F)	SEC	
5	Course Type	A The objective of this course is the student will be able to	assass different
5	Objective	4. The objective of this course is, the student will be able to	
	Objective	condition due to neurological dysfunction, set treatment goas	s and apply
			C
		5. Students will understand the role exercise therapy and use	OI
		different neurological scales for outcome measures.	
_	6	6. In addition, the student will be able to diagnose the conditi	ons
6	Course	COI: Be able to develop research based rehabilitation skills	to implement
	Outcomes	timely and appropriate physiotherapy assessment tools/techni	iques to ensure a
		holistic approach to ICU patient	
		CO2: Be able to select timely research based physiotherapeut	tic interventions to
		reduce morbidity and physiotherapy management strategies,	suitable for the
		patients' problems and indicator conditions based on obstruct	tive and restrictive
		pulmonary disorder and be able to rehabilitate the chest cond	itions based on
		positioning scales and measure the outcomes.	
		CO3: Implement appropriate research based neuro-physiothe	rapeutic approaches
		for patients With pediatric abnormality.	
		CO4: Be able to make rehabilitation for orthopedic, neurolog	ical and geriatric
		conditions.	
		CO5: Be able to develop behavioral skills and humanitarian a	approach while
		communicating with patients, relatives, society and co-profes	ssionals, to promote
		individual and community health.	
		CO6: to be able to compile research based rehabilitation skill	s required for ICU
		patients.	
	Course	The subject serves to integrate the knowledge gained by the s	students in ICU and
	Description	other Systemic disorder with skills to apply these in clinical s	situations of
		dysfunction and pathology. The objective of the course is that	t after the specified
		hours of lectures and demonstrations the student will be able	to identify disabilitie
		due to ICU conditions dysfunction, plan and set treatment go	als and apply the
		skills gained in exercise therapy and electrotherapy in these c	linical situations to
		restore function and measure the outcomes of treatment and p	predict the prognosis
		of patient.	
	Outline syllabus	·	CO Mapping
	Unit 1	ICU pediatric PT	CO1,CO2
	A	Chronic obstructive pulmonary disease	



Averag	ge	2.83	2.5	2	2.83	2.16	2.16	2.66	2.33	2.5	2.83	2.33	2.5	2.66	2.8			
CO6		3	2	1	3	2	1	1	2	3	3	2	1	2	3			
CO5		3	3	2	2	3	2	3	3	3	3	2	3	3	3			
CO4		3	1	3	3	1	3	3	1	2	3	2	3	2	3			
03		3	3	2	3	3	2	3	3	1	3	3	2	3	2			
CO2		2	2	2	2	2	2	2	2	1	2	2	2	2				
CO2		3	3	2	3	1	3	3	3	3	3	3	3	3				
CO1		2	3	2	3	3	2	3	2	3	2	2	3	3				
POs COs		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PS			
	Otl Re	her ference	es	Clinic	al ortho	opaedic	Rehabi	litation	- S Bre	ent Brotz	zman Ph	ysical reł	nabilitatio	on- sulliv	an			
	10	XI 000F	J.S.	Princi	Principle of geriatric physiotherapy- Narinder kaur multani Textbook of critical care-Vinc													
	Dis	stributi	on	25%	25% 75%													
	We	eightag	e	CA			MSE		I	ESE								
	Mo	ode of	on	Theo	ory/Jury	/Practi	cal/Viva	ı										
	С			Arthritis, Osteoporosis														
-	В			Strol	ke, Park	cinson o	lisease											
	A			Chro	onic obs	tructiv	e pulmo	nary di	sease,									
	Un	nit 5		Paed	iatric (	y muscle strengthening Cardiopulmonary rehabilitation CO4.CO5.CO6												
ŀ	B			Guil	Guillain barre syndrome Respiratory muscle strengthening													
ļ	A			Cere	Cerebrovascular disease													
	Un	nit 4		Neu	Neurological pediatric rehabilitation CO4,CO5,CO6													
F	С			Hand	l rehab	abilitation												
-	B			Surg	ical ma	nagem	ent of sr	oine and	l extre	mities								
-		nt 3		Road	traffic	ic pedi	atric re	enabilit	ation				C04,C	.05,000				
	C			Mus	cle dyst	rophy							0010	05.006				
	В			Cere	bral pa	lsy												
	А			Dela	yed mil	lestone	s											
	Un	nit 2		Paec	liatrics	rehab	ilitatior	1					CO1,C		3			
	С			Posi	tioning	and me	bilizati	on										



S	chool: SSAHS	Batch : 2023-27	
P	rogramme: BPT	•	
B	ranch:	Semester: 8 th Semester	
P	hysiotherapy		
1	Course Code	PTB 418	
2	Course Title	Geriatric PT	
3	Credits	1	
4	Contact Hours	1-0-0	
	(L-T-P)		
	Course Type	SEC	
5	Course	1The objective of this course is, the student will be able to ass	sess different
	Objective	condition due to neurological dysfunction, set treatment goals	and apply
		their skill.	
		2. Students will understand the role exercise therapy and use	of
		different neurological scales for outcome measures.	
		3. In addition, the student will be able to diagnose the condition	ons
6	Course	CO1: Be able to develop research based rehabilitation skills	to implement
	Outcomes	timely and appropriate physiotherapy assessment tools/techni	ques to ensure a
		holistic approach to ICU patient	
		CO2: Be able to select timely research based physiotherapeut	ic interventions to
		reduce morbidity and physiotherapy management strategies, s	suitable for the
		patients' problems and indicator conditions based on obstruct	ive and restrictive
		pulmonary disorder and be able to rehabilitate the chest condi-	itions based on
		positioning scales and measure the outcomes.	
		CO3: Implement appropriate research based neuro-physiother	rapeutic approaches
		for patients With pediatric abnormality.	
		CO4: Be able to make rehabilitation for orthopedic, neurolog	ical and geriatric
		conditions.	
		CO5: Be able to develop behavioral skills and humanitarian a	pproach while
		communicating with patients, relatives, society and co-profes	sionals, to promote
		individual and community health.	
		CO6: to be able to compile research based rehabilitation skills	s required for ICU
		patients.	
7	Course	The subject serves to integrate the knowledge gained by the s	tudents in ICU and
	Description	other Systemic disorder with skills to apply these in clinical s	ituations of
		dysfunction and pathology. The objective of the course is that	t after the specified
		hours of lectures and demonstrations the student will be able	to identify
		disabilities due to ICU conditions dysfunction, plan and set tr	eatment goals and
		apply the skills gained in exercise therapy and electrotherapy	in these clinical
		situations to restore function and measure the outcomes of tre	atment and predict
		the prognosis of patient.	
0	Outline calls		CO Manina
8	Outline syllabus		CO Mapping



A	Chronic obs	tructive puli	nonary	disea	se								
В	Restrictive p	oulmonary c	ondition	ns									
С	Positioning a	and mobiliza	ation										
Unit 2	Geriatric re		CO1,CO2,CO3										
A	Delayed mil												
В	Cerebral pal												
С	Muscle dyst	rophy											
Unit 3	Geriatric Orthopaedic rehabilitation CO4,CO5,C									06			
A	Road traffic	accident											
В	Surgical man												
С	Hand rehabilitation												
Unit 4	Geriatric Neurological rehabilitation								CO5,C0	06			
A	Cerebrovasc												
В	Guillain barre syndrome												
С	Respiratory muscle strengthening												
Unit 5	Geriatric cardiopulmonary rehabilitation								CO5,C0	06			
А	Chronic obs	tructive puli	nonary	disea	se,								
В	Stroke, Park	Stroke, Parkinson disease											
С	Arthritis, Osteoporosis Theory/Jury/Practical/Viva												
Mode of examination													
Weightage	CA	MSE		I	ESE								
Distribution	25%			7	75%								
Text book/s*	PJ Mehta Principle of geriatric physiotherapy- Narinder kaur multani Textbook of critical care-Vincent												
Other	Clinical orth	opaedic Rel	nabilitat	tion- S	S Brent	Brotzm	an						
References	Physical reh	abilitation-	sullivan	1									
References													

Os COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	2	3	2	3	3	2	3	2	3	2	2	3	3	2
CO2	3	3	2	3	1	3	3	3	3	3	3	3	3	3
CO3	3	3	2	3	3	2	3	3	1	3	3	2	3	3
CO4	3	1	3	3	1	3	3	1	2	3	2	3	2	3
CO5	3	3	2	2	3	2	3	3	3	3	2	3	3	3
CO6	3	2	1	3	2	1	1	2	3	3	2	1	2	3
Average PO's	2.83	2.5	2	2.83	2.16	2.16	2.66	2.33	2.5	2.83	2.33	2.5	2.66	2.83



Pre	aramma. BPT							
Duomoh		Comorton Oth Comorton						
B	ranch:	Semester: 8 th Semester						
P	hysiotherapy							
1	Course Code	PTB 419						
2	Course Title	Hand Rehab						
3	Credits	1						
4	Contact Hours	1-0-0						
	(L-T-P)							
	Course Type	SEC						
5	Course	4. The objective of this course is, the student will be able to	assess different					
	Objective	condition due to neurological dysfunction, set treatment goals and apply						
		their skill.						
		5. Students will understand the role exercise therapy and use	of					
		different neurological scales for outcome measures.						
		6. In addition, the student will be able to diagnose the conditions						
6	Course	CO1: Be able to develop research based rehabilitation skills to implement						
	Outcomes	timely and appropriate physiotherapy assessment tools/techniques to ensure a						
		holistic approach to ICU patient						
		CO2: Be able to select timely research based physiotherapeut	tic interventions to					
		reduce morbidity and physiotherapy management strategies,	suitable for the					
		patients' problems and indicator conditions based on obstruct	tive and restrictive					
		pulmonary disorder and be able to rehabilitate the chest conditions based on						
		positioning scales and measure the outcomes.						
		CO3: Implement appropriate research based neuro-physiothe	rapeutic approaches					
		for patients With pediatric abnormality.						
		CO4: Be able to make rehabilitation for orthopedic, neurolog	ical and geriatric					
		conditions.						
		CO5: Be able to develop behavioral skills and humanitarian a	approach while					
		communicating with patients, relatives, society and co-profes	ssionals, to promote					
		individual and community health.	-					
		CO6: to be able to compile research based rehabilitation skill	s required for ICU					
		patients	•					
7	Course	The subject serves to integrate the knowledge gained by the s	tudents in ICU and					
	Description	other Systemic disorder with skills to apply these in clinical s	situations of					
	_	dysfunction and pathology. The objective of the course is that after the specified						
		hours of lectures and demonstrations the student will be able to identify						
		disabilities due to ICU conditions dysfunction, plan and set treatment goals and						
		apply the skills gained in exercise therapy and electrotherapy	in these clinical					
		situations to restore function and measure the outcomes of tre	eatment and predict					
		the prognosis of patient.	internetie and predict					
8	Outline syllabus		CO Mapping					
0	Unit 1	Hand ICU care	COLCO?					
	A	Poetonerative management	.01,002					



Vora	ige	2 02	2.5	2	2 02	2 16	2 16	2 66	2 22	2 5	2 02	2 22	2 5	266	20
CO	6	3	2	1	3	2	1	1	2	3	3	2	1	2	3
COS	5	3	3	2	2	3	2	3	3	3	3	2	3	3	3
02	+	5	1	5	5	1	5	5	1	2	5	2	3	2	3
CO	4	3	1	3	3	1	3	3	1	2	3	2	3	2	3
CO3	3	3	3	2	3	3	2	3	3	1	3	3	2	3	3
CO2	2	3	3	2	3	1	3	3	3	3	3	3	3	3	3
CO	1	2	3	2	3	3	2	3	2	3	2	2	3	3	2
POs COs	8 8	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSC
		[					1	[			[	1		[	
	Re	eferenc	es	Phys	sical re	habilit	ation- s	sulliva	1						
	Ot	ther		Clin	Principle of geriatric physiotherapy- Narinder kaur multani Textbook of critical care-Vincent Clinical orthopaedic Rehabilitation- S Brent Brotzman										
				Prin											
	Text book/s*			PJ N	PJ Mehta										
	Distribution		25%	25% 75%											
	C Mode of examination Weightage			CA	CA MSE ESE										
				The	Theory/Jury/Practical/Viva										
				Arth	Arthritis, Osteoporosis										
	В			Stro	Stroke, Parkinson disease										
	A			Defe	ormity	of hand	ls								
	Uı	nit 5		Gei	Geriatric hand rehabilitation								CO4,	)6	
	С			Mul	tiple S	clerosi	s								
	B			Guil	Guillain barre syndrome										
	A			Ner	ve Con	pressi	on Svn	drome	s						
		nit 4		Neu	rologi	ral hai	nd reh	ahilitat	tion				CO4 CO5 CO6		
	D			Exte	Extensor Tendon Injuries										
	A			Flex	Flexor Tendon Injuries										
	U	nit 3		Ort	Orthopaedic hand rehabilitation									CO5,CO	)6
	C	B Spasticity C Muscle dystrophy										~~~~~			
	B														
	А			Brac	chial pl	exus ii	njury								
	Uı	nit 2		Pae	diatric	s hand	l rehat	oilitatio	on				CO1,	CO2 ,C	03
	С			Posi	tioning	g and n	nobiliza	ation							
	В			lym	phatic (	drainas	ge								

PO's



## PRACTICAL

School: SSAHS		Batch: 2023-2027								
rogramme: BPT										
Bra	nch:	Semester: 8th Semester								
Phy	siotherapy									
1	Course Code	PTB 441								
2	Course Title	Physiotherapy In Cardio-Pulmonary Sciences Including Lymphatic								
		System (Practical)								
3	Credits	1								
4	Contact Hours (L-T-P)	0-0-2								
	Course Status	DSC								
5	Course Objective	<b>1.</b> To provide knowledge in assessing and planning physiotherapy interventions for various General, Medical and Surgical conditions.								
		<b>2.</b> 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.								
		<b>3.</b> Student must know emergency drugs indication and contra- indication, care in intensive care unit (ICU) and to provide appropriate interventions to the patient								
11	Course Outcomes	<ul> <li>CO1: Interpretation of different invasive and non-invasive diagnostic investigation to make proper assessment in various respiratory and cardiovascular dysfunction</li> <li>CO2: Develops the skills to execute different Physiotherapy techniques used in treatment of Cardio-respiratory dysfunctions.</li> <li>CO3: To select strategies for cure, care &amp; prevention; adopt restorative &amp; rehabilitative measures for maximum possible functional independence of a patient at home, work place &amp; in community.</li> <li>CO4: Be able to execute the effective Physiotherapeutic measures with appropriate clinical reasoning to improve pulmonary function. CO5: To design &amp; execute effective tailored cardiopulmonary rehabilitation Programme.</li> <li>CO6: To Compile and formulate available treatment techniques and evidence ased practice for Physiotherapy management of cardiovascular conditions</li> </ul>								



7	Course Description	The subject is designed to provide knowledge in assessing an physiotherapy interventions for various General, Medical an conditions. The student must be able to reassess the patient a monitor the patient in regard to treatment, to monitor the patient's vital signs, student must k drugs indication and contra-indication, care in intensive care provide appropriate interventions to the patient.	nd planning d Surgical is necessary, to cnow emergency unit (ICU) and to
8	Outline syllabu	18	CO
			Mapping
	Unit 1	Cardiopulmonary Assessment	
		<ol> <li>Brief</li> <li>Demonstration</li> <li>Assessment tools and techniques, outcome measures.</li> </ol>	C01, C02
	Unit 2	Physiotherapy Techniques	
		<ol> <li>Brief demonstration</li> <li>Drug therapy</li> <li>Neonatal techniques</li> </ol>	CO3,CO4
	Unit 3	Pulmonary Rehabilitation	
		<ol> <li>Brief</li> <li>Demonstration</li> <li>Experimentation</li> </ol>	CO4, CO5, CO6
	Unit 4	Physiotherapy following lung surgeries	
		<ol> <li>Brief</li> <li>Rehabilitation Protocol</li> <li>Techniques</li> </ol>	CO1, CO2
	Unit 5	Lymphedema management	
		<ol> <li>Brief</li> <li>Demonstration</li> <li>Techniques</li> </ol>	CO3, CO5, CO6
	Mode of examination	Practical/Viva	


Average							_					2.5	2.66	2.3
CO6	1	2	2	3	1	2	3	1	2	1	3	2	2	3
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	2
CO4	2	3	3	3	2	3	2	1	3	2	3	3	3	2
CO3	3	3	2	2	3	2	3	3	3	3	3	2	2	2
CO2	3	1	3	3	1	3	2	2	2	3	2	3	3	2
CO1	3	2	1	3	3	2	1	3	3	2	1	2	3	3
POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO
			3 1 4 5 7 4 8 9 Fe 1 1 1 1 1	<ol> <li>Cash</li> <li>Cosh</li> <li>Downie-</li> <li>Broth</li> <li>The-F</li> <li>Card</li> <li>Land</li> <li>Physical and the set of the s</li></ol>	textbo - J.P. iers. Bromp diopu iovasc 2SM Willia t physi kins. liopulu erstand siother pirator	ding Me apy in ray y Care-1	Chest, ide to v espirat elines I Wilk Vy in ir Physic chanicc espirat therap	Heart a Chest F Physica ory phy for ins. ntensive cal The al Venti ory Care y- Harde Hunt	Ind Va Physica al T vsiothe e care u rapy- I lation- - Houg en	scular D l therapy- herapy- Sn ercise unit- Ma Donna Fr Hasan h	isorders Irwi nith & E testing ckenzie rown	for Phy n and Ball- Mos g and et al - W	siothera Tecknin sby prescrip /illiams	pists- n, otion- and
	Text b	oook/s*	1	. Casl phy 2. Ess	h Te ysiothe ential	xtbook erapists of Cari	of - Donr opulm	general nie Jayp onary p	med bee Bro bhysica	ical an others. al therap	d surg y- Hille	ical co gass & S	nditions Sadowsł	for xy W.
	Distri	bution	2	.5%		25%		50%						

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



Sc	hool: SSAHS	Batch: 2023-2027								
Prog	gramme: BPT	•								
Bra	anch:	Semester: 8 th Semester								
Ph	ysiotherapy									
1	Course Code	PTB 442								
2	Course Title	Physiotherapy in Obstetrics and Gynecological Condition (PR)								
3	Credits	1								
4	Contact Hours (L-T-P)	0-0-2								
	Course Type	CC								
5	Course Objective	The student will be able to Understand the importance of physiotherapy in obstetrics and gynecology, the basic concepts of techniques, the importance of exercises and preventive measure in women health.								
6	Course	CO1 - understanding of the changing knowledge base in this clinical area								
	Outcomes	<ul> <li>CO2- Understand the impact of exercise on the altered pathophysiology and psychology of pregnancy, menopause osteopenia / osteoporosis.</li> <li>CO3- Understand the motivational and marking aspect of leading and hospital based exercise classes.</li> <li>CO4- Identify the legal and safety issue associated with leading exe for women with specific physical need.</li> <li>CO5 - Plan, deliver and evaluate appropriate exercise Programmes women's groups of the community</li> <li>CO6: To compile the observations and findings for development a of various gynecological conditions</li> </ul>	physiology, aging, & community rcise classes for specific nd planning							
7	Course	In this course the student will learn the principles, technique, and	effects of							
	Description	physiotherapy in various obstetrics and gynecological conditions.	60							
8	Outline syllabu	S	CO							
	Unit 1	Physiotherapy assessment in obstetrics	wapping							
	A	Antenatal assessment.	CO1,CO2							
	В	Assessment during labour.	CO1,CO2							
	С	Postnatal assessment.	CO1,CO2							
	Unit 2	Physiotherapy assessment in gynecology								
	А	Physiotherapy Assessment of different gynecological condition.	CO1,CO2							
	В	Pre & Post operative assessment of gynecological surgery.	CO1,CO2							



	Assessment includes:									
	Pelvic floor m	nuscle assess	ment. Assessment of pain.							
	Diagnostic to	ols used in g	ynaecological assessment.							
	Examination	of breast can	cer, Puberty & common syndrome							
	during this pl	hase. Polycys	tic ovarian syndrome.							
Unit 3	Physiotherapy in obstetrics									
Α	Antenatal ex	ercise in preg	nancy.	CO2,CO3						
	PT management of common syndrome of pregnancy. Role of PT in antenatal complication.									
В	Ergonomics during childbearing phase.									
	physiotherapy in high risk pregnancy.									
	physiotherapy during Labor and Urinary in continence.									
С	C- Section, normal delivery care and post natal physiotherapy. PT									
	management of immediate and late postnatal complications.									
Unit 4	Physiotherapy in gynecology									
А	Exercise for an adolescent female.									
В	Principles and techniques of application of pelvic floor exercises. Use of electrotherapy modalities in training Pelvic floor muscles. Therapeutic electrical stimulation. & Biofeedback.									
С	Physiotherapy management in Pelvic floor dysfunction. Physiotherapy intervention before and after gynecological surgeries.									
Unit 5	Other Women health related condition									
A	Prevention and Physiotherapy intervention in Osteoporosis and PCOD.									
В	Physiotherap after mastect	oy managem tomy.	ent of breast cancer, Lymph edema	CO4,CO						
С	Physiotherap hysterectomy	y manageme y.	ent of cervical cancer, uterine cancer,	CO4,CO						
Mode of	Theory/Jury/	Practical/Viv	а							
examination										
 Weight age	CA	MTE	ETE							
Distribution	25% - 75%									
Text book/s*	Physiotherap									
	by Margaret									
Other	Textbook of	Physiotheran	v for Obstetrics and Gynecological							
Deferences	Conditions h		:							



	1	1			1			1						
POs	PO1	PO2	PO3	PO4	POS	5 PO	6 P	<b>9</b> 7 I	PO8	<b>PO</b> 9 1	PO10 P	O11 PS	SO1 PS	02
COs														
CO1	3	2	1	3	3	2	1	3	3	2	1	2	3	3
C	3	1	3	3	1	3	2	2	2	3	2	3	3	2
O2	3	3	2	2	3	2	3	3	3	3	3	2	2	2
CO3	2	3	3	3	2	3	2	1	3	2	3	3	3	2
CO4	3	2	3	1	3	2	1	3	2	3	2	3	3	2
CO5	1	2	2	3	1	2	3	1	2	1	3	2	2	3
CO6												2.5	2.66	2.3

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



Prog									
	ramme: BPT	•							
Brai	nch:	Semester: 8 th Semester							
Phy:	siotherapy								
1	Course Code	PTB 443							
2	Course Title	Community Based Rehabilitation (Practical)							
3	Credits								
4	Contact Hours (L-T-P)	0-0-1							
	Course Status	CC							
2	Objective	<ul> <li>and other areas with skills to apply knowledge in community medicine and other areas with skills to apply these in clinical situation.</li> <li>Students will be able to identify rehabilitation methods to prevent disabilities and dysfunctions due to various disease conditions.</li> <li>To plan treatment goals and apply the skills gained in rehabilitating and metazing functions.</li> </ul>							
6	Course Outcomes Course Description	CO1: Understanding the concepts and principles Community BasedRehabilitation and general rehabilitation. CO2: Explaining the concept of disability, its evaluation, health and gen national healthcare Programmes and policies, NGOs. CO3: Practicing appropriate physiotherapy skills when rehabilitating th community set up. CO4: Summarizing the role of vocational rehabilitation and community awareness in Community Based Rehabilitation. CO5: Application of various orthosis, prosthesis, devices for different m Physical conditions. CO6: To formulate the applicability of various approaches in the The subject serves to integrate the knowledge gained by the stude community medicine and other areas with skills to apply these in situations of health and disease and its prevention. The objective course is that after the specified hours of lectures and demonstration student will be able to identify rehabilitation methods to prevent	of riatric health, e patient in rehabilitatio nts in clinical of the ons the icabilities						
8	Outline syllabu	and dysfunctions due to various disease conditions and plan and set treatment goals and apply the skills gained in rehabilitating and restoring functions							
	Unit 1	General Rehabilitation							
		<ul> <li>4. Brief</li> <li>5. Demonstration.</li> <li>6. Identification</li> </ul>	CO1, CO						
	Unit 2	Disability and disability evaluation							
	Ullit 2	Disability and disability evaluation	C02 C03						



	-Demonstra	tion									
Unit 3	Introductio	on of comm	unity physiotherapy								
	Brief		· · · · · ·	C01,C0							
	-Demonstra	tion									
	-Community	y visit									
Unit 4	Health pro	blems & vu	Inerable groups								
	-brief			C01,C0							
	-in rural are	rural areas to conduct survey of populationrequiring									
	physiothera	py services	& treatments.								
	-demonstrat										
Unit 5	Orthotics &										
	-brief		CO4,CC								
	-Demonstra	tion.									
	-Identificati										
Mode of	Practical/V1	Practical/Viva									
examination											
Weightage	CA	MTE	ETE								
Distribution	25%	0%	/5%								
Other	3. Andri 4. Glen 5. Chin Med 6. Prutt Perso 7. Mad Med 8. Squi	<ol> <li>Andrew Guccione Geriatrics Physiotherapy, Elsevier Mosby.</li> <li>Glenda Key, Industrial Therapy, Mosby</li> <li>Chinnathurai, Short textbook of prosthetics and orthotics, Jp MedicalPub</li> <li>Pruthvish, Community Based Rehabilitation of Persons withDisabilities</li> <li>Madhuri, Geriatric Medicine and Rehabilitation Medicine forPhysiotherapist</li> <li>Squires, Rehabilitation of the Older Person, Nelson Thornes.</li> </ol>									
References	<ol> <li>Mural K F, Ergonomics Man in his working environment</li> <li>Nordin Andersons Pope, Musculoskeletal Disorders in workplace- Principle &amp; Practice, Mosby Elsevier</li> <li>G R Madan, Indian Social Problem Vol</li> <li>Allied Publishers,Disability2000- RCI</li> <li>Gautam Bannerjee , Legal Rights of disabled in India</li> <li>ICF -WHO Health Organisation 2001publication</li> <li>Park, Preventive &amp;Social Medicine, Banarsidas Bhanot</li> <li>Hallender Padmini Mendes, Training in the Community for the peoplewith disability</li> <li>David Werner , Disabled Village Children, Hesperian Foundation</li> </ol>										



POsCOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
CO1	3	2	1	3	3	2	1	3	3	2	1	3	2	3
CO2	3	1	3	3	1	3	2	2	2	3	2	2	3	3
CO3	3	3	2	2	3	2	3	3	3	3	3	3	2	3
CO4	2	3	3	3	2	3	2	1	3	2	3	3	3	3
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO6	1	2	2	3	1	2	3	1	2	1	3	2	3	2
Average PO's	2.5	2.16	2.33	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.66	2.66	2.83

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



Scl	hool: SSAHS	Batch: 2023-2027							
Prog	gramme: BPT	•							
Bra Phy	anch: ysiotherapy	Semester: 8 TH semester							
1	Course Code	PTB 445							
2	Course Title	Teamwork and interpersonal communication							
3	Credits	1							
4	Contact Hours (L-T-P)	0-0-2							
	Course Status	CC							
5	Course Objective	The objective of the course is that after the specified hours of lectures and demonstrations the student will be able to understand the importance and challenges of team work. Also, the need of communication skills and personality development. CO1: To make them remember about the basics of teamwork, communication and its importance. CO2: To understand about the objectives, concept and need of team building. CO3: Apply the prospects for teamwork and the challenges. CO4: Analyze the need and importance of communication skills. CO5: To evaluate the concepts and determinants of personality development. CO6: to compile the objectives, concept and need of team building							
6	Course Outcomes								
7	Course Description	This course introduces the student about the team work , interper communication and personality development.	rsonal						
8	Outline syllabu	S	CO Mapping						
	Unit 1	Introduction							
		Teamwork Interpersonal coomunication Importance	CO1, CO3						
	Unit 2	Teamwork							
		The Team Building Concept Determining the Need for Team Building Objective and stages of team building	CO2,CO3						
	Unit 3	Prospects for teamwork							
		Impediments Challenges Factors	CO1,CO3						
	Unit 4	Communication Skills							
		-essesntials for good coomunication -types of communication -Language skills	C01,C04						



Unit 5	Personal	lity Developn	nent	
	-Concept	CO4.CO5		
	Dimentio	ons		,
	Determin	ants		
Mode of examination	Practical	/Viva		
Weightage	CA	MTE	ETE	
Distribution	25%	25%	50%	
Text book/s*	9.	<b>I</b>	I	
 Other	10.			
References				

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
CO1	3	2	1	3	3	2	1	3	3	2	1	3	3	2
CO2	3	1	3	3	1	3	2	2	2	3	2	3	3	3
CO3	3	3	2	2	3	2	3	3	3	3	3	2	3	3
CO4	2	3	3	3	2	3	2	1	3	2	3	3	3	3
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO6	1	2	2	3	1	2	3	1	2	1	3	3	2	2
Average PO's	2.5	2.16	2.33	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.83	2.83	2.66

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)



S	chool: SSAHS	Batch: 2023-2027									
Pro	ogramme: BPT	•									
B	ranch:	Semester: 8th Semester									
Pl	nysiotherapy										
1	Course Code	PTB 446									
2	Course Title	ICUPT									
3	Credits	2									
4	Contact Hours	0-0-4									
	(L-T-P)										
	Course Type	CC									
5	Course	1. The objective of this course is, the student will be able to a	assess different								
	Objective	condition due to neurological dysfunction, set treatment goals	and apply								
		their skill.									
		2. Students will understand the role exercise therapy and use	of								
		different neurological scales for outcome measures									
		3. In addition, the student will be able to diagnose the conditions									
6	Course	CO1: Be able to develop research based rehabilitation skills to implement									
	Outcomes	timely and appropriate physiotherapy assessment tools/techniques to ensure a									
		holistic approach to ICU patient	1								
		CO2: Be able to select timely research based physiotherapeut	ic interventions to								
		reduce morbidity and physiotherapy management strategies.	suitable for the								
		patients' problems and indicator conditions based on obstruct	ive and restrictive								
		pulmonary disorder and be able to rehabilitate the chest conditions based on									
		positioning.scales and measure the outcomes.									
		CO3: Implement appropriate research based neuro-physiothe	raneutic approaches								
		for patients With pediatric abnormality.	apouno approaenes								
		CO4:Be able to make rehabilitation for orthopedic, neurological and geriatric conditions.									
		CO5: Be able to develop behavioral skills and humanitarian a	pproach while								
		communicating with patients, relatives, society and co-profes	sionals, to promote								
		individual and community health.									
		CO6: to be able to compile research based rehabilitation skills	s required for ICU								
		natients	1								
7	Course	The subject serves to integrate the knowledge gained by the s	tudents in ICU and								
	Description	other Systemic disorder with skills to apply these in clinical s	ituations of								
	-	dysfunction and pathology. The objective of the course is that	t after the specified								
		hours of lectures and demonstrations the student will be able	to identify								
		disabilities due to ICU conditions dysfunction, plan and set tr	eatment goals and								
		apply the skills gained in exercise therapy and electrotherapy in these clinical									
		situations to restore function and measure the outcomes of treatment and predict									
		the prognosis of patient.									
8	Outline svllabus	L Dropp of barrens	CO Mapping								
0	Unit 1	ICU rehabilitation	CO1.CO2								
	A	Chaquia shotmation and as a sub-									



	В			Rest	rictive	pulmo	nary co	onditio	ns							
	С			Posi	tioning	g and n	nobiliza	ation								
	Unit	± 2		Pae	diatric	s ICU							CO1,	CO2 ,C	03	
	Α			Dela	ayed m	ileston	es									
	В			Cere	ebral pa	alsy										
	С			Mus	cle dys	strophy	/									
	Unit	3		Ortl	hopaed	lic ICI	IJ						CO4,CO5,CO6			
	А			Roa	d traffi	c accid	lent									
	В			Surg	gical m	anager	nent of	spine	and ex	tremiti	es					
	С			Han	d rehał	oilitatio	on									
	Unit	: 4		Neu	rologi	cal IC	U						CO4,	CO5,CO	)6	
	А			Cere	brovas	scular o	lisease									
	В			Guil	lain ba	rre syr	drome									
	С			Resp	oiratory	y musc	le strer	ngtheni	ng							
	Unit	5		Ger	riatric	ICU			-				CO4,	CO5,CO	)6	
	А	A Chronic obstructive pulmonary disease,														
	В			Stro	ke, Par	kinson	diseas	e								
	С	C Arthritis, Osteoporosis														
	Mod	le of		Theo	ory/Jur	y/Prac	tical/Vi	iva								
	exan	ninat	ion													
	Weig	ghtag	ge	CA			MSE		I	ESE						
	Dist	ributi	ion	25%	25% 75%											
	Text	bool	k/s*	PJ N	/lehta											
				Prin	ciple o	f geria	tric phy	vsiothe	rapy-	Narinde	er kaur i	nultani				
				Text	book o	of critic	cal care	-Vince	ent							
	Othe	er		Clin	ical or	thopae	dic Reł	nabilita	tion- S	S Brent	Brotzm	an				
	Refe	renc	es	Phys	sical re	habilit	ation- s	sulliva	1							
													1			
POs																
	( P	<b>PO1</b>	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	
0.0	,															
COI	1 2	2	3	2	3	3	2	3	2	3	2	2	3	3	2	
CO	<u> </u>		2	2	2	1	2	2	2	2	2	2	2	2	2	
02	2 3	)	3	Ζ	3	1	3	3	3	3	3	3	3	3	3	
CO3	3 3	3	3	2	3	3	2	3	3	1	3	3	2	3	3	
CO4	4 3	;	1	3	3	1	3	3	1	2	3	2	3	2	3	
COS	5 3	;	3	2	2	3	2	3	3	3	3	2	3	3	3	
COé	CO6 3 2 1 3 2					2	1	1	2	3	3	2	1	2	3	

2 2.83 2.16 2.16 2.66 2.33

2.5 2.83 2.33

2.5

2.66

2.83

Average

PO's

2.83

2.5



S	chool: SSAHS	Batch: 2023-2027	
Pro	ogramme: BPT		
B	ranch:	Semester: 8 th Semester	
P	hysiotherapy		
1	Course Code	PTB 444	
2	Course Title	PT in Paediatrics	
3	Credits	2	
4	Contact Hours	0-0-4	
	(L-T-P)		
	Course Type	CC	
5	Course	4. The objective of this course is, the student will be able to a	assess different
	Objective	condition due to neurological dysfunction, set treatment goals	s and apply
		their skill.	11 2
		5. Students will understand the role exercise therapy and use	of
		different neurological scales for outcome measures.	
		6. In addition, the student will be able to diagnose the conditi	ons
6	Course	CO1: Be able to develop research based rehabilitation skills	to implement
	Outcomes	timely and appropriate physiotherapy assessment tools/techni	ques to ensure a
		holistic approach to ICU patient	
		CO2: Be able to select timely research based physiotherapeut	ic interventions to
		reduce morbidity and physiotherapy management strategies,	suitable for the
		patients' problems and indicator conditions based on obstruct	ive and restrictive
		pulmonary disorder and be able to rehabilitate the chest cond	itions based on
		positioning.scales and measure the outcomes.	
		CO3: Implement appropriate research based neuro-physiothe	rapeutic approaches
		for patients With pediatric abnormality.	
		CO4:Be able to make rehabilitation for orthopedic, neurologi	cal and geriatric
		conditions.	-
		CO5: Be able to develop behavioral skills and humanitarian a	pproach while
		communicating with patients, relatives, society and co-profes	sionals, to promote
		individual and community health.	
		CO6: to be able to compile research based rehabilitation skill	s required for ICU
		patients.	
7	Course	The subject serves to integrate the knowledge gained by the s	tudents in ICU and
	Description	other Systemic disorder with skills to apply these in clinical s	ituations of
		dysfunction and pathology. The objective of the course is tha	t after the specified
		hours of lectures and demonstrations the student will be able	to identify
		disabilities due to ICU conditions dysfunction, plan and set tr	eatment goals and
		apply the skills gained in exercise therapy and electrotherapy	in these clinical
		situations to restore function and measure the outcomes of tre	atment and predict
		the prognosis of patient.	-
8	Outline syllabus	5	CO Mapping
	Unit 1	ICU Pedaitric rehabilitation	CO1,CO2
	٨	Chronia chatmativa nulmonary diagoa	



Avera	ige s	2.83	2.5	2	2.83	2.16	2.16	2.66	2.33	2.5	2.83	2.33	2.5	2.66	2.83
COé	5	3	2	1	3	2	1	1	2	3	3	2	1	2	3
COS	5	3	3	2	2	3	2	3	3	3	3	2	3	3	3
CO4	4	3	1	3	3	1	3	3	1	2	3	2	3	2	3
CO3	3	3	3	2	3	3	2	3	3	1	3	3	2	3	3
CO2	2	3	3	2	3	1	3	3	3	3	3	3	3	3	3
COL	1	2	3	2	3	3	2	3	2	3	2	2	3	3	2
POs COs	3 8	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO
	Re	eferenc	es	Phys	sical re	habilit	ation- s	sullivar	1	5 Dient	BIOtZIII				
	01	har		Prin Text	Textbook of critical care-Vincent										
	Te	xt boo	k/s*	PJ N	1ehta										
	Di	stribut	ion	25%			MBL		7	75%					
	ex W	aminat	tion	CA		-	MSE		F	SE					
	C M	ode of		Arth	ritis, C ory/Jur	)steopo y/Prac	orosis tical/Vi	iva							
	В			Stro	ke, Par	kinson	diseas	e							
	Α			Chro	onic ob	structi	ve pulr	nonary	diseas	se,					
	U	nit 5		Pae	diatri	c cardi	opulm	onary	rehal	bilitati	m		CO4,	CO5,CO	)6
	C			Rest	biratory	v musc	le strer	gtheni	ng						
	A			Cere	Cerebrovascular disease Guillain barre syndrome										
	Uı	nit 4		Pae	Paediatric Neurological rehabilitation										)6
	С			Han	d rehat	oilitatio	on								
	В			Surg	ical m	anager	nent of	spine	and ex	tremiti	es				
	A	nt 5		Roa	d traffi	c accic	lent	c Tenai	Jiiitati				04,	.05,00	<i>J</i> 0
	C Ib	nit 3		Mus	cle dys	Orth	naadi	o rohol	vilitati	ion			C04	CO5 C(	)6
	B			Cere	bral pa	alsy									
	Α			Dela	iyed m	ileston	es								
	Uı	nit 2		Pae	diatric	s reha	bilitati	on					CO1,	CO2 ,C	03
	С			Posi	tioning	g and n	nobiliza	ation							
	B			Rest	rictive	pulmo	nary co	onditio	ns						



S	chool: SSAHS	Batch: 2023-2027
ro	gramme: BPT	•
Bı Pł	ranch: rysiotherapy	Semester: 8 th Semester
1	Course Code	PTB 450
2	Course Title	Geriatric PT
3	Credits	2
4	Contact Hours	0-0-4
	(L-T-P)	
	Course Type	CC
5	Course	7. The objective of this course is, the student will be able to assess different
	Objective	condition due to neurological dysfunction, set treatment goals and apply
		their skill.
		8. Students will understand the role exercise therapy and use of
		different neurological scales for outcome measures.
		9. In addition, the student will be able to diagnose the conditions
6	Course	CO1: Be able to develop research based rehabilitation skills to implement
	Outcomes	timely and appropriate physiotherapy assessment tools/techniques to ensure a
		holistic approach to ICU patient
		CO2: Be able to select timely research based physiotherapeutic interventions to
		reduce morbidity and physiotherapy management strategies, suitable for the
		patients' problems and indicator conditions based on obstructive and restrictive
		pulmonary disorder and be able to rehabilitate the chest conditions based on
		positioning scales and measure the outcomes.
		CO3: Implement appropriate research based neuro-physiotherapeutic approache
		for patients With pediatric abnormality.
		CO4:Be able to make rehabilitation for orthopedic, neurological and geriatric
		conditions.
		CO5: Be able to develop behavioral skills and humanitarian approach while
		communicating with patients, relatives, society and co-professionals, to promote
		individual and community health.
		CO6: to be able to compile research based rehabilitation skills required for ICU
		natients.
7	Course	The subject serves to integrate the knowledge gained by the students in ICU and
	Description	other Systemic disorder with skills to apply these in clinical situations of
		dysfunction and pathology. The objective of the course is that after the specified
		hours of lectures and demonstrations the student will be able to identify
		disabilities due to ICU conditions dysfunction, plan and set treatment goals and
		apply the skills gained in exercise therapy and electrotherapy in these clinical
		situations to restore function and measure the outcomes of treatment and predict
		the prognosis of nationt
		the prognosis of patient.



vera	ge	2.83	2.5	2	2.83	2.16	2.16	2.66	2.33	2.5	2.83	2.33	2.5	2.66	2.83
CO6	i	3	2	1	3	2	1	1	2	3	3	2	1	2	3
CO5		3	3	2	2	3	2	3	3	3	3	2	3	3	3
CO4		3	1	3	3	1	3	3	1	2	3	2	3	2	3
CO3		3	3	2	3	3	2	3	3	1	3	3	2	3	3
CO2		3	3	2	3	1	3	3	3	3	3	3	3	3	3
CO1		2	3	2	3	3	2	3	2	3	2	2	3	3	2
POs COs		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
	Rei	ferenc	es	Phys	sical re	habilit	ation- s	sullivai	1						
	Oth	her		Clin	ical ort	hopae	dic Rel	nabilita	tion- S	S Brent	Brotzm	an			
				Text	book c	of critic	al care	-Vince	nt	varmue	л каш I	nunalli			
	Tey	xt D00	K/S [™]	PJ N Drin	ienta	faorio	ria nh	viotha	ropu	Norinda	r kour r	nulton:			
-	Dis	stribut	10n	25%	fah:				7	5%					
	We	eightag	ge	CA			MSE		I	ESE					
	exa	aminat	ion												
	Mo	ode of		Theo	ory/Jur	y/Pract	tical/Vi	iva							
	С			Arth	ritis, C	)steopc	orosis								
	В			Stro	ke, Par	kinson	diseas	e		,					
	A			Chro	onic ob	structi	ve pulr	 nonarv	diseas	se,				,	
-	Un	it 5		Ger	iatric	rehahi	ilitatio	n					CO4.	CO5.CO	)6
	р С			Rest	viratory	muse	le strer	otheni	nø						
	A P			Guil	lain be	rre evr	usease								
	Un	ut 4		Ger	atric I	Neurol	ogical	rehab	intatio	on			CO4,	CO5,CC	<i>)</i> 6
	C	•• •		Han	d rehat	oilitatio	on						001	00 <b>5</b> 63	
	В			Surg	ical m	anagen	nent of	spine	and ex	tremitie	es				
	А			Roa	d traffi	c accid	ent								
	Un	it 3		Ger	iatric (	Orthop	paedic	rehabi	ilitatio	n			CO4,	CO5,CC	)6
	С			Mus	cle dys	strophy	,								
	В			Cere	bral pa	alsy									
	A			Dela	wed m	ileston	es	•							00
	Un	it 2		Ger	iatric i	ehabi	litation	1					CO1.	CO2 .C	03
	D C			Posi	tioning	pullio and m	obilize	ation	115						
	A D			Post	riotivo	nulmo	ve pull	nonary	nsea	se					
	Un	it 1		Ger	iatric I	ICU re	habilit	ation	1				C01,	CO2	
			•	~									~ ~ 1	~ ~ *	



ro	gramme: BPT								
R1	ronch	Somostor: 8th Somostor							
ום וח	rancn:	Semester: o Semester							
rı	nysiotnerapy	DTD 484							
1	Course Code	PTB 451							
2	Course Title	Hand Rehab							
3	Credits	2							
4	Contact Hours	0-0-4							
	(L-1-P)								
5	Course Type	10 The chieving of this course is the student will be chieved	4						
Э	Objective	10. The objective of this course is, the student will be able	to assess						
	Objective	different condition due to neurological dysfunction, set treating	ient goals and						
		apply their skill.	c						
		11. Students will understand the role exercise therapy and	use of						
		different neurological scales for outcome measures.							
6	Carrier	12. In addition, the student will be able to diagnose the cor	ditions						
0	Outcomes	COT: Be able to develop research based renabilitation skills	to implement						
	Outcomes	timely and appropriate physiotherapy assessment tools/technik	ques to ensure a						
		holistic approach to ICU patient	• • • • • • • • • • • • • • • • • • • •						
		CO2: Be able to select timely research based physiotherapeut	ic interventions to						
		reduce morbidity and physiotherapy management strategies, s							
		patients problems and indicator conditions based on obstruct	ive and restrictive						
		pullionary disorder and be able to renabilitate the chest condi-	tions based on						
		positioning scales and measure the outcomes.							
		CO3: Implement appropriate research based neuro-physiothe.	rapeutic approaches						
		for patients with pediatric abnormanty.	and and and interio						
		CO4.Be able to make renabilitation for orthopedic, neurologi	cal and genatric						
		CO5: Do able to develop behavioral skills and humanitarian	nnnaach mhile						
		COS: Be able to develop benavioral skills and numanitarian a	aionala ta maanata						
		individual and community health	sionais, to promote						
		norvidual and community healdh.	required for ICU						
		COO. to be able to complie research based renabilitation skill	s required for ICO						
7	Cauraa	patients.	tudanta in ICU and						
/	Description	The subject serves to integrate the knowledge gained by the s	indents in ICU and						
	Description	dusfunction and notheless. The elisative of the source is the	tuations of						
		hours of lectures and demonstrations the student will be she	to identify						
		disabilities due to ICU conditions dusfunction, plan and set to	estment goals and						
		disabilities due to ICU conditions dysfunction, plan and set treatment goals and							
		apply the skills gained in exercise therapy and electrotherapy in these clinical							
		situations to restore function and measure the outcomes of treatment and predict							
0	0	the prognosis of patient.							
ð	Outline syllabus	\$ 	CO Mapping						



vera PO'	ige s	2.83	2.5	2	2.83	2.16	2.16	2.66	2.33	2.5	2.83	2.33	2.5	2.66	2.8		
CO6	5	3	2	1	3	2	1	1	2	3	3	2	1	2	3		
CO5	;	3	3	2	2	3	2	3	3	3	3	2	3	3	3		
CO4	ļ	3	1	3	3	1	3	3	1	2	3	2	3	2			
CO3	3	3	3	2	3	3	2	3	3	1	3	3	2	3			
CO2	2	3	3	2	3	1	3	3	3	3	3	3	3	3			
CO1		2	3	2	3	3	2	3	2	3	2	2	3	3			
POs COs		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PS		
	Ot Re	her eferenc	es	Clin Phy	ical or sical re	thopae habilit	dic Rel ation- s	abilita sullivar	tion- S 1	S Brent	Brotzm	an					
	Ie	xt boo	0K∕S*	PJ N Prin Tex	denta ciple o tbook o												
	Di	stribut	tion	25%	)		INIGE		7	75%							
	ex W	amina eighta	tion	CA	-	-	MSE		I	FSE							
	M	ode of		The	ory/Jur	y/Prac	tical/Vi	iva									
	B			Stro	ke, Par	kinson	diseas	e									
	A			Defe	ormity	of hand	ls						,	)			
	U	nit 5		Ge	riatric	hand i	s rehabil	litatior	1				CO4.	CO5.CO	)6		
	B			Gui	llain ba	rre syr	ndrome										
	Α			Nerve Compression Syndromes													
	Uı	nit 4		Neu	rologi	cal har	CO4,	CO5,CC	)6								
	Б С			Frac	tures a	nd Dis	locatio	s ns									
	A			Flex	or Ten	don In	juries										
	Uı	nit 3		Ort	hopaeo	lic har	nd reha	nbilitat	tion				CO4,	CO5,CC	)6		
	C			Mus	scle dys	strophy	/										
	B			Spa	sticity	exus II	ijui y										
	U	nit 2		Pae	diatric	s hand	l rehab	oilitatio	on				C01,	CO2 ,C	03		
	С			Posi	tioning	g and n	nobiliza	ation									
	В			lym	phatic	drainag	ge										
	Α			Post	toperati	ive ma	nageme	ent									



S	School: SSAHS	Batch: 2023-2027	
Pr	ogramme: BPT	•	
Br	ranch:	Semester: 8 th Semester	
Pł	ivsiotherapy		
1	Course Code	PTB 447	
2	Course Title	Clinical Reasoning –II (CT)	
3	Credits	2	
4	Contact Hours(L- T-P)	0-0-4	
	Course Type	CC	
5	Course Objective	<ol> <li>To perform effective consultations using clinical reasoning.</li> <li>To develop professional practice using clinical reasoning.</li> </ol>	
6	Course	CO1: To understand factors affecting clinical reasoning (CR).	
	Outcomes	CO2: To perform hypothetico-deductive CR.	
		CO3: To demonstrate patient education during clinical reasoning (C	CR).
		CO4: To demonstrate use of technology and equipment for clinical	reasoning.
		CO5: To demonstrate mastery of clinical reasoning.	
		CO6: To formulate the list of differential diagnosis basis on the clir reasoning.	nical
7	Course	Clinical reasoning in clinical settings represents a written mode of o	consultation &
	Description	communication for better patient management. It is for all	stakeholder's
		accountability and responsibility. It has medico-legal implications a	as well.
		Physiotherapists within the scope of practice shall take part in this e	effectively.
8	Outline syllabus		CO
			Mapping
	Unit 1	Factors affecting Clinical Reasoning	
	Α	Expertise	CO1, CO2
	В	Focus and attention	CO1,CO2
	С	Cases	CO1,CO2
	Unit 2	Patient Education	
	Α	Clinical reasoning and patient education	CO1, CO3
	В	Addressing misconceptions.	CO1, CO3
	С	Cases	CO1, CO3
	Unit 3	Scope of Clinical reasoning	
	Α	Screening for red flags	CO1,CO3
	В	Referral to other health care providers	CO1,CO3
	С	Cases	CO1,CO3
	Unit 4	Difficult cases and clinical reasoning	
	Α	Patients refusing treatment	CO2,CO4,CO 6
	В	Improvement not seen	CO2,CO4,CO
	1		6



С	Cases			CO2,CO4
Unit 5	Use of Technology in	Clinical Reason	ning	
A	PT assessment equipme	ent		CO1,CO5
В	Technology in PT consu	Iltation		CO1,CO5, 6
С	Cases			CO1,CO5
Mode of examination	Clinical examination			
Weight	CA		ESE	
age		CE-VIVA	External Exam Practical	
Distrib	25%	25%	50%	
ution				
Other Reference	<ul> <li>knowledge retentio (eds) Tutorials in P. in the Health Profes</li> <li>Benner, P. and Wru of perceptual aware May, 11-14.</li> <li>Kolb, D.A. (1984) Learning and Devel</li> </ul>	n and recall, in S roblem-Based Le ssions. Masstrich ubel, J. (1982a) S eness. Part 1. The Experiential Lean lopment, Prentico	Achmidt, H.G. and de Volder, M.L. earning. New Directions for Trainin it. Van Gorcum, Assen Skilled clinical knowledge: the value e Journal of Nursing Administration rning: Experiences as the Source of e-Hall, New Jersey.	g e,
Omer Keieren	<ol> <li><u>https://www.apta.resulters/practice/Document</u></li> <li>http://www.fram</li> <li>s_protocol.pdf</li> </ol>	inghamheartsti	<u>es/APTAORg/About_Us/Policies/BOI intMgmt.pdf</u> udy.org/share/protocols/bmd1_	<u>7</u>



POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO 9	PO1	PO1	PSO 1	PSO 2	PSO 3
CO1	3	2	1	3	3	2	1	3	3	2	1	3	3	2
CO2	3	1	3	3	1	3	2	2	2	3	2	2	2	3
CO3	3	3	2	2	3	2	3	3	3	3	3	2	3	2
CO4	2	3	3	3	2	3	2	1	3	2	3	3	2	2
CO5	3	2	3	1	3	2	1	3	2	3	2	3	3	3
CO6	1	2	2	3	1	2	3	1	2	1	3	3	2	3
Averag e PO's	2. 5	2.16	2.33	2.5	2.16	2.33	2	2.16	2.5	2.33	2.33	2.66	2.5	2.5

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



Sc	hool: SSAHS	Batch: 2023-2027								
Prog	gramme: BPT									
Bra	nch:	Semester: 8 th Semester								
Phy	siotherapy									
1	Course Code	PTB 448								
2	Course Title	Clinical Skills – II (CT)								
3	Credits	2								
4	Contact	0-0-4								
	Hours									
	(L-I-F)	Compulsory								
5	Course	1- To perform & demonstrate basic clinical skills								
5	Objective	2 To perform & demonstrate advanced clinical skills								
		2- To perform & demonstrate advanced clinical skills.								
6	Course	CO1:To demonstrate & perform clinical skills in OPD.								
	Outcomes	CO2: To demonstrate & perform clinical skills in ICU								
		CO3: To demonstrate Clinical skills in community PT.								
		CO4: To demonstrate lifelong learning for clinical skills								
		CO5: To demonstrate mastery of clinical Skills.								
		CO6: to be able to develop a diagnosis and formulate a rehabilit	ation basis							
		on clinical skills.								
7	Course	Clinical skills in PT settings represents a mode of treatment for	better							
	Description	patient management. It is for all stakeholder's accountability and								
		responsibility. It has medico-legal implications as	well.							
		Physiotherapists within the scope of practice shall take part in the	is							
		effectively.								
8	Outline syllab	us	СО							
			Mappir							
	Unit 1	Advanced PT Clinical Skills in Podiatry.								
	Α	Introduction	CO1, CO2							
	В	Advanced PT techniques	CO1,CO2							
	С	Cases	CO1,CO2							
	Unit 2	Advanced PT Clinical Skills in hand rehabilitation.								
	Α	Different approaches for hand conditions	CO1, CO3							
	В	Advanced PT techniques	CO1, CO3							
	С	Cases	C01,							
	TT 11 0		CO3,CO6							
	Unit 3	Advanced PT Clinical Skills in geriatric community cases. Screening and PT education	CO1 CO3							
	** D	Advanced PT techniques	CO1,CO3							
	D	Cases	C01,C03							
	C		C01,C03							



	A		ICU PT	skills									C02,CC	04,
													C06	
	В		Advand	ed PT te	chniques	5							CO2,CC	04.
	С		Cases										CO2.CC	04
	Unit 5		Adva	nced PT	Clinica	Skills i	n pedia	tric cas	es.					
	A		Handli	ng of peo	diatric ca	se	1						CO1.CC	)5.
													CO6	,
	В		Advano	ed PT te	chniques	5							CO1,CC 6	05,CO
	С		Cases										CO1,CC	)5
	Mode	of	Clinic	al exam	ination									
	examir	ation				1								
	Weight	age	CA			CE V	TT 7 A	E	ESE			1	-	
	Distrib	ation	2504			25%	IVA	500		Exam I	Practica	u		
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			2. Ba	rrows, H	.S. (1984	) A spec	ific pro	blem-ba	ased, s	elf-dire	cted lear	rning		
			me	thod des	igned to	teach me	edical pr	oblem-	solving	g skills,	and enl	nance		
			kn	owledge	retention	and rec	all, in So	chmidt,	H.G. a	ind de V	Volder,	M.L.		
			(ec	s) Iutor.	h Profes	vions M	ased Le	arning. † Van (	New I		ns for 1	raining		
			3 Be	nner P	and Wrul	pel J (1	982a) Sl	killed cl	linical	i, Assei knowle	døe: the	value		
			of of	perceptu	al awarei	ness. Par	t 1. The	Journal	l of Nu	rsing A	dminist	ration,		
			Ma	iy, 11-14	ι.					0		,		
			4. Koll	), D.A. (	1984) Ex	perientia	al Learn	ing: Exp	periend	ces as th	ne Sourc	ce of		
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	Referen	ices	2 htt	n://www	w frami	aghamh	entclier	itivigmi	<u>l.pui</u> /char/	Inrote	ocolc/b	md1 7		
			2. 110	p.//ww	w.nann Indf	Ignann	leartstt	iuy.org	/ 511016	e/prote	JCOIS/D	inu1_/		
				101000	i.pui									
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
COs														
	3	2	1	1	2	3	3	2	1	2	3	3	2	3
CO1	-	3	3	2	2	2	2	3	1	3	3	2	3	2
CO1 CO2	3	1.	3	2	3	2	3	1	3	2	1	3	2	3
CO1 CO2 CO3	3	1	5		L .	3	2	3	3	2	3	3	2	3
CO1 CO2 CO3 CO4	3 3 2	1 3	3	2	3	5			1		0	5	3	
CO1 CO2 CO3 CO4 CO5	3 3 2 3	1 3 2	3	2 3	3 2	3	1	3	2	1	3	3	2	3
CO1 CO2 CO3 CO4 CO5 CO6	3 3 2 3 2 2	1 3 2 1	3 1 3	2 3 1	3 2 1	3 1	1 3	3 2	2 2	1 3	3 2	3 2	2 3	3 2
CO1           CO2           CO3           CO4           CO5           CO6           Average	3 3 2 3 2	1 3 2 1	3 1 3	2 3 1	3 2 1	3 1	1 3	32	2 2	1 3	3 2	3 2 2	2 3	3 2 2 66



Sc	hool: SSAHS	Batch: 2023-2027								
Pro	gramme: BPT									
Bra	unch:	Semester: 8 th Semester								
Phy	siotherapy									
1	Course Code	PTB 449								
2	Course Title	Clinical Documentation – II (CT)								
3	Credits	2								
4	Contact	0-0-4								
	Hours									
	(L-T-P)									
	Course Type	Compulsory								
5	Course	1. To enable the students to document various aspects clinical pre	esentations							
	Objective	using ICD & ICF.								
	5	2. To enable the students to document various aspects clinical pre-	esentations							
		for case studies and case presentations.								
6	Course	CO1:To perform documentation as per ICF.								
Ŭ	Outcomes	CO2: To perform ICD documentation								
		CO3: To demonstrate Case study documentation								
		CO4: To demonstrate Case presentation documentation								
		CO5: To demonstrate mastery of clinical documentation								
		CO6: To able to compile all the documentation required to for the	case study							
7	Course	Documentation in clinical settings represents a written mode of								
	Description	communication for better patient management. It is for all stakeholder'								
		accountability and responsibility. It has medico-legal implication	is as							
		well. Physiotherapists within the scope of practice shall take part in this								
		effectively								
8	Outline syllab	us	CO							
	-		Mappir							
	Unit 1	Formats of Assessment - ICF								
	Α	General ICF	CO1, CO2							
	В	Physiotherapy Assessment & ICF	C01,C02							
	С	Functional Assessment as per ICF	C01,C02							
	Unit 2	ICD format								
	Α	Introduction	CO1, CO3							
	В	ICD usage	CO1, CO3							
	С	ICD to disease diagnosis & Goal Planning	CO1, CO3							
	Unit 3	Case study								
	Α	Formats	CO1,CO3 6							
	В	Case records	C01,C03							
	9	Communication of coord	6							
	+ C	Communication of cases	COLCO3							



Unit 4	Case presentation								
Α	Formats								
В	Presentations								
С	Documentation of the presentations								
Unit 5	Case Publications								
Α	Formats								
В	Writing papers and preparing manuscripts								
С	Communicating manus	cript & Getting pu	blished	CO1,CC					
Mode of examination	Clinical case assessme	ent & examination							
Weightage	CA		ESE						
Distribution		CE-VIVA	External Exam Practical						
	25%	25%	50%						
Text book/s	<ol> <li>Melbourne.</li> <li>Barrows, H.S. (1984) A specific problem-based, self-directed learning method designed to teach medical problem-solving skills, and enhance knowledge retention and recall, in Schmidt, H.G. and de Volder, M.L. (eds) Tutorials in Problem-Based Learning. New Directions for Training in the Health Professions. Masstricht. Van Gorcum, Assen</li> <li>Benner, P. and Wrubel, J. (1982a) Skilled clinical knowledge: the value of presentual suprements of Nursing Administration.</li> </ol>								
Other References	<ul> <li>4. Kolb, D.A. (1984) Experiential Learning: Experiences as the Source of Learning and Development, Prentice-Hall, New Jersey.</li> <li>1. <u>https://www.apta.org/uploadedFiles/APTAorg/About_Us/Policies/BOD/Practice/DocumentationPatientClientMgmt.pdf</u></li> <li>2. http://www.framinghamheartstudy.org/share/protocols/bmd1_7 s_protocol.pdf</li> </ul>								



Average PO's	2.33	2.33	2	2.33	2.83	2	2	2.83	2.33	2.66	2.33	2.83	2.83	3
CO6	3	2	1	2	3	1	2	2	1	2	3	3	2	3
CO5	3	3	2	3	3	2	1	3	3	3	2	3	3	3
CO4	3	3	2	3	3	3	3	3	3	3	1	3	3	3
CO3	2	1	3	3	3	1	1	3	2	3	3	3	3	3
CO2	2	2	1	1	3	3	2	3	3	2	2	3	3	3
CO1	1	3	3	2	2	2	3	3	2	3	3	2	3	3
POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3

1-Slight (Low) 2-Moderate (Medium)

3-Substantial (High)



Sch	ool: SS	SAHS	J	Batch:	2023-20	)27									
Prog	ramme	: BPT	· .												
Bran Phys	nch: siother	ару		Internship											
1	Cours	e Code		PTB 501											
2	Cours	e Title		INTERNSHIP											
3	Credit	lits 20													
4	Conta	ct Hour	ſS												
	(L-T-P	)													
	Cours	e Statu	s	20											
5	Cours	е		To enable the student to assess, diagnose, evaluate, and treat various conditons in											
	Objec	tive		OPD, IPD and ICUs.											
7	OutcomesOrthopaedics, and Cardiovascular and pulmonary, sports, Paediatrics, Geriatr Gynaecology and Obstetrics based conditions. CO2: Student will be able to perform the IPD assessment of Neurol Orthopaedics, and Cardiovascular and pulmonary, sports, Paediatrics, Geriatr Gynaecology and Obstetrics based conditions. CO3: Student will be able to make provisional diagnosis and diagnosis of Neurological, Orthopaedics, and Cardiovascular and pulmonary, sports, Paedi 									Neurologi Geriatrics of , Paediatri dent will b cal, Geriatrics amme for itcomes. a, and	and cal, and cs, be and the				
8	Outlin	e syllat	DUS	3 PO4	POS	POE	PO7	POS	PO0	PO10	PO11	PSOI	PSO2	DS	
Os	101	102	10.	104	105	100	10/	100	109	1010	1011	1501	1502	1.50	
01	1	3	3	2	2	2	3	3	2	3	3	2	3	3	
02		-	-		-	-	-	-	-		-	-	-		
	2	2	1	1	3	3	2	3	3	2	2	3	3	3	
03	2	1	3	3	3	1	1	3	2	3	3	3	3	3	
O4	3	3	2	3	3	3	3	3	3	3	1	3	3	3	
O5	3	3	2	3	3	2	1	3	3	3	2	3	3	3	
O6	3	2	1	2	3	1	2	2	1	2	3	3	2	3	
erage	2 22	2 33	2	2 33	2 83	2	2	2 83	2 33	2 66	2 22	2 83	2 83	2	

1-Slight (Low)

2-Moderate (Medium) 3-Substantial (High)