

INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH

DEPARTMENT OF PHYSIOTHERAPY

BACHELOR OF PHYSIOTHERAPY

(BPT) SYLLABUS

YEAR/ SEMESTER: IV/VII



Effective from Ses	sion: 2018-19						
Course Code	PT401	Title of the Course	ORTHOPAEDICS PHYSIOTHERAPY-I	L	Т	Р	С
Year	IV	Semester	VII	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	The student will be ab evaluation and interver function & maximum f	le to plan & prescribe s ation in case of various anctional independence.	hort-term & long-term Physiotherapy treatment by selectin Orthopedic conditions for the relief of pain, healing, rest	ng app pration	ropriate / main	e modes itenance	s of e of

	Course Outcomes										
CO1	To understand the traumatology of upper limb fractures with their management with their special test.										
CO2	To understand the traumatology of lower limb, spine and pelvis fractures with their management with their special test.										
CO3	To understand the management of various orthopedic surgeries and post-surgery management.										
CO4	To understand the pathophysiology of various musculoskeletal conditions, congenital and acquired anomalies with its assessment and										
	treatment protocol.										
CO5	Demonstrate an understanding of orthopedic conditions causing disability, clinical features and methods of investigations and										
	management.										

Unit No.	Title o	of the U	nit					С	ontent	of Unit					Cont Hr	tact s.	Mapped CO
1	PHYSIC APPR UPPI TR	OTHER OACH ER LIM AUMA	APY IN B	Basic con of therap managem Physiothe during im	ncepts of beutic ment of erapy as nmobiliz	f physion odalitie upper sessmen ation an	therapy s in va limb f at and m ad mobi	manag rious tr ractures anagen lization	ement in aumatic during aent of u phase.	n differer c conditi g immol upper lim	nt stages ons. Phy pilization b disloca	of soft tis vsiotherap and mations and	ssue lesio by assess obilization l soft tiss	on. Effects ment and on phase ue. Injury	8		CO1
2	PHYSIC APPR LOWI ANI TR	OTHER OACH ER LIN O SPINI AUMA	APY I IN a IB o E i	Physiothe and mob dislocation managem of spine a	erapy as oilization ons durin nent of l and pelv	sessmer n phase ng. Imm ower lin is fractu	nt and 1 e. Phys nobiliza mb soft re durin	nanager siothera tion and tissue ng. Imm	nent of py asse l mobili njuries. obilizat	lower li essment zation p Physioth ion and r	mb fract and ma hase. Ph herapy a nobilizat	tures duri anagemer ysiothera ssessmen ion phase	ing immo at of lov py assess t and ma e.	bilization wer limb sment and nagement	8		CO2
3	PHYSIC APP TOV ORTH SUR	OTHER ROACI WARDS HOPED GERIE	APY H S IC S	Arthropla and nerve	asty and e surgeri	Arthros es, Spin	scopy, (al Surg	Osteoto eries	my, Art	hrodesis	and Bo	ne Grafti	ng, Musc	ele tendor	8		CO3
4	PHYSIC IN AMI	OTHER PUTAT	APY ION	Pre and p limb and Complica	oost ope l lower ation of a	rative as limb. amputat	ssessme Stump ion and	nt and care, 1 their m	Goals of Bandagi anagem	f manage ng, Pre ent.	ement. La and po	evel of an ost prosth	mputatior netic man	n of upper nagement	8		CO4
5	PHYSIC IN BC JC INFEC BONE	DTHER DNE AN DINT TION A TUMC	APY JD IND RS	Physiothe functiona basis of j bone tum	to the rapy assessment and management of bone infection on the basis of physical and ional diagnosis. Physiotherapy assessment and management of joint infection on the of physical and functional diagnosis. Physiotherapy assessment and management of tumors on the basis of physical and functional diagnosis.											CO5	
Referen	ce Books:																
1. Cash	Text bool	ks of Oi	thopedi	cs and Rh	neumato	logy for	physio	therapis	t Jaypee	Publica	tion	[::					
2. Neur	onusculo	skeletal	Examin	ation and	d fifth	Edition	rth eau	101 Dy 1 d I Mae	NICOIA J	. Petty C	nurchill	Livingsto	ne				
4. Esser	ntial Ortho	predics	third Ed	ition by I	Maheshy	vari Me	hta pub	lishers.	500.								
e-Learn	ing Sourc	e:		2			1										
1. <u>http</u>	<u>s://youtu.</u> l	bae/XJr	RrsMCE	<u>Emp8</u>													
2. <u>http</u>	s://youtu.l	bae/XJr	<u>RrMCE</u>	<u>mp8</u>													
3. <u>http</u>	s://youtu.l	be/0499	$\frac{\partial 22 kHU}{\partial M}$	<u>clk</u> VfV10	10												
4. <u>IIII</u>	<u>is.//youtu.i</u>		WAAU	<u>v1110</u>													
DO DEC					Cot	irse Art	liculatio	on Mat	rix: (Ma	apping o	1 COs w	ith POs	and PSO	s)			
C0	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	3	2	3	-	-	1	-	2	1	2	3	3	2	3	1
CO2	2	3	3	3	3	-	-	-	-	3	1	3	3	3	2	2	1
CO2	2	2	3	1 2	3		1	1		3	1	1 2	1 3	3	3	2	

3 3 1 1 3 2 3 3 1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation Attributes & SDGs

CO4 CO5

Course Code	Course Title				Attribut	es			SDGs No.
	OPTHODAEDICS	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT401		yability	neurship	Development	Equality	Sustainability	Value	Ethics	
	PHISIOTHERAPT-I	1	√	√	√		√	√	3,4



Effecti	ve from	Sessior	n: 2018-	-2019														
Course	e Code		PT	402		Title of	f the Co	ourse]	NEURO	PHYSIC	OTHERA	PY		L	Г Р	С
Year			I	V		Semest	ter					VII				3	1 0	4
Pre-Re	equisite	Nil				Co-rec	luisite		Nil									
С	ourse	The	objectiv	ve of th	is cours	e in tha	t, the stu	ident w	vill be a	ble to ic	lentify di	sability	due to ne	urologica	al dysfund	ction, se	treatme	nt goals
Obj	ectives	and	apply t	heir ski	II. Able	e to pla	n realist	ic goal	based	on the	knowled	ge of pr	ognosis o	of the dis	seases of	the nerv	ous syst	em and
Ű		pres	cribe ap	propria	te, safe	evidenc	e-based	physio	therapy	interve	ntion.							
								C	ourse (Outcom	les							
CO1	To unde	erstand	the imp	oortance	e of clir	nical rea	soning 1	related	to adva	nce inte	ervention	al strate	gies like	Motor co	ontrol & 1	Motor L	earning,	NDT
	(Bobath	approa	ich), Ne	europlas	ticity, N	ARP for	neurolo	gical co	ondition	ns.							-	
CO2	To unde	erstand	about th	ne asses	sment a	nd man	agement	of ped	iatric ne	eurologi	cal cond	itions lik	e Cerebra	al palsy a	nd Muscu	ılar dyst	ophy.	
CO3	To unde	erstand	about th	ne asses	sment a	nd man	agement	t of neu	rologica	al condi	tions like	e stroke,	meningit	is, encepl	nalitis, an	d polion	yelitis	
CO4	To unde	erstand	about th	ne asses	sment a	nd man	agement	t of deg	enerativ	ve and d	lemyelina	ating con	ditions li	ke Parkir	nson's, ata	axia and	Guillain	– Barre
	syndron	ne.																
CO5	To unde	erstandi	ng abou	it the as	sessmer	nt and n	nanagem	ent of v	various	traumat	ic injurie	s of spin	al cord a	nd nerves	s with its	complica	tion.	
Unit										~						Conta	ct M	apped
No.		Title	e of the	Unit						Con	tent of U	nit				Hrs		CO
	BRI	EF INT	RODU	CTION	OF	Motor	r contro	1 & Mo	otor Lea	arning,	NDT (B	obath ap	proach),	Neurop	asticity,			
1	F	OLLO	WING I	NEURC)-	MRP				0			•	•	•	0		CO1
1		REHA	BILIT	ATIVE												0		COI
		TEC	CHNIQ	UES														
						CER	EBRAL	PALS	Y: Defi	nition c	of cerebra	ıl palsy, i	ts etiolog	gy, classi	fication,			
	1	PHYSIC	OTHER	APY IN	J	and c	linical p	resentat	ion, PT	assessr	nent and	manager	nent of c	erebral p	alsy.			~~~
2	PE	DIATR	IC CON	NDITIO	NS	MUS	CULAR	DYST	ROPH	Y: Defi	nition of	muscula	ar dystroj	phy, its e	etiology,	6		CO ₂
						classi	fication,	and c	linical j	presenta	ation. PI	assessn	nent and	manage	ment of			
						muscu	muscular dystrophy. CEREBROVASCULAR ACCIDENT (CVA): Review of brain anatomy											
						Defin	ition of stroke, its classification, risk factor and clinical presentation. PT											
						Denn	essment & management of stroke. Brief discussion about juvenile stroke &											
						lacun	assent & management of stroke. Brief discussion about juvenile stroke &											
3	PHY	SIOTH	ERAPY	Y IN CV	/A &	MEN	JINCIT	IS FN	СЕРН	ALITIS	S. Defin	ition eti	ology cl	assificati	on and	10		CO3
5	INF	ECTIO	US CO	NDITIO	ONS	clinic	al preser	itation.	PT asse	essment	and mar	agement		ussilleut	ion, una	10		005
						POL	IOMYE	LITIS	Defin	ition o	f polion	velitis	its etiolo	gy, stag	es. and			
						clinic	al prese	ntation.	PT ass	sessmen	it and m	anageme	nt of pol	iomyeliti	s. Post-			
						polio	residual	paralys	is (PPR	P) & it	s manage	ement.	1	2				
						PAR	KINSOI	NDISE	ASE:	Definiti	on of	Parkinso	n diseas	e, its e	etiology,			
	1	PHYSIC	OTHER	APY I	V	classi	fication,	and c	linicalp	resentat	ilon. PT	assessn	nent and	manage	ment of			
4		DEGE	NERAT	TIVE &		Parki	nson dis	ease. A	TAXI	A: Defi	nition of	ataxia d	& its etic	ology, ty	pes, and	8		CO4
		DEM	YELINA	ATING		clinic	al preser	itation.	PT asse	essment	and mar	nagement	t of ataxi	a. GBS (Guillain	Ŭ		001
		CO	NDITI(JNS		– Ba	rre synd	rome)	Definit	ion of	GBS &	its etio	logy, typ	bes, and	clinical			
						presei	AL CO	r 1 asse	ssment	and ma	nagemen	LOI GBS).	noniar-	f inim			
	1	рнаем	ЭТНЕР	APV IN	J	classi	fication	and cli	JUKI (nicalne	scij: 1 sentati	on PT an	i UI SCI,	and mar	ianishi 0 Iagement	of SCI			
5		AUMA'	FIC CO		ONS	PERI	PHER A	L NE	RVE IN	JIIIRY	(PNI): [Definition	of PNI	its mech	nism of	8		CO5
	110	1010111			5115	injury	. classifi	ication.	and cli	nical pr	esentatio	n		tto meent	unisini or			
Refere	nce Bool	ks:				injuly, enconneuton, and ennieu presentation												
1. Phy	sical reh	abilitati	ion – Su	ısan O`	Sulliva	m, 5 th edition												
2. Nei	ırologica	l Rehat	oilitation	n – D. A	A. Umpł	nred, 6 th	edition											
3. Phy	vsical me	dicine a	und reha	bilitatio	on – Bra	Braddom, 3 rd edition												
4. Cas	sh`s Text	Book f	or Phys	iotherap	oists In	In Neurological Disorders – 4 th edition												
e-Lea	arning Se	ource:																
1. <u>h</u>	ttps://you	<u>itu.bae/</u>	XJsrRr	MCEm	<u>p8</u>													
2. <u>h</u>	ttps://you	<u>itu.bae/</u>	XJrRrN	<u>AxrCEn</u>	n <u>p8</u>													
<u>3.</u>	ttps://you	<u>itu.bae/</u>	XJrRtr	MxrCE	<u>mp8</u>													
4. <u>h</u>	ttps://you	itu.be/I	3t0aaxp	DITd8														
						Cor	ırse Art	iculatio	on Mat	rix: (M	apping o	f COs w	ith POs	and PSC	s)			
PO-	PSO	DO1	DOO	DOO	DO 4	D07	DOC	D07	DOD	DOO		DOI1	DO10	DCOI	DCOO	DGOG	DCOA	DCOT
C	0	POI	PO2	PO3	PO4	P05	P06	PO/	PO8	P09	PO10	POIT	P012	PSOI	PS02	PS03	PS04	PS05
0	21	1	2	2	2	2			1		2	1	2	2	2	2		1

L	PO-PSO	DO1	PO2	DO3	PO4	PO5	DO6	PO7	DOS	POO	PO10	PO11	PO12	DSO1	DSO2	DSO3	DSO4	DSO5
	CO	101	102	105	104	105	100	107	100	109	1010	1011	1012	1301	1502	1305	1504	1305
	CO1	1	2	2	2	3	-	-	1	-	2	1	2	3	3	3	-	1
	CO2	1	3	3	3	3	-	-	-	-	2	1	3	3	3	2	-	1
ſ	CO3	2	2	3	3	3	-	-	-	-	3	-	3	3	3	3	3	-
ſ	CO4	1	3	3	3	3	-	1	1	-	2	1	3	3	3	2	3	-
ſ	CO5	1	3	3	3	3	-	1	1	-	3	2	3	3	3	3	2	-
					- 0								~ •					

Course Code	Course Title		Attributes										
		Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional					
PT402	NEUROPHYSIOTHERAPY	yability	neurship	Development	Equality	Sustainability	Value	Ethics					
		1	√	1	*		*	*	3,4				



Effective from Sessio	n: 2018-2019													
Course Code	PT403	Title of the Course	CARDIOPULMONARY PHYSIOTHERAPY	L	Т	Р	С							
Year	IV	Semester	VII	3	1	0	4							
Pre-Requisite	Nil	Co-requisite	Nil											
Course Objectives	The objective of this	course is that after lect	ures and demonstration in addition to clinics the student wi	ll be al	ble to de	emonst	rate							
Course Objectives	an understanding of	understanding of Cardio-thoracic conditions causing disability and their management.												

	Course Outcomes										
CO1	To understand the importance of cardiopulmonary anatomy and physiology about structure, course and function of alveoli, different tracts										
	of respiratory pathways and regulations of cardiopulmonary system										
CO2	Develops the skills to execute different Physiotherapy techniques used in treatment of Cardio-respiratory dysfunctions.										
CO3	To select strategies for cure, care & prevention; adopt restorative & rehabilitative measures for maximum possible functional independence of										
	a patient at intensive care unit.										
CO4	Be able to execute the effective Physiotherapeutic measures with appropriate clinical reasoning to improve pulmonary function.										
CO5	To design & execute effective tailored cardionulmonary post-surgical rehabilitation program.										

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	REVIEW THE REGIONAL ANATOMY AND PHYSIOLOGY OF THORAX AND RESPIRATORY TRACT	Anatomy of heart and its functions, Anatomy of lungs and its functions, Mechanics of respiration, Lung volumes and lung capacities, Coronary and Pulmonary circulation.	8	CO1
2	PHYSICAL ASSESSMENT IN CARDIORESPIRATORY DYSFUNCTION	Inspection: Assessment of Cardio-Vascular and Respiratory system. Breathing pattern (rate, rhythm, use of accessory muscles), Chest deformity (Barrel chest, pigeon chest), Spinal deformity (scoliosis, kyphosis, kyphoscoliosis), Sputum (color, types), Cough (types, productive/non-productive) Palpation: Tactile and vocal fremitus, mobility of thoracic spine and ribcage. Percussion: Dullness and hyper resonance. Auscultation: Normal and abnormal breath sounds. Measurement and Investigation, Chest expansion at different levels (auxiliary), nipple, xiphoid); ABG analysis, ECG, PFT and radio-diagnosis	8	CO2
3	GENERAL AND INTENSIVE CARE PHYSIOTHERAPY	Postural drainage, Mechanical ventilation: IPPB, PEEP, CPAP, Bi-PAP, SIMV, Aerosol Therapy, Humidifiers, and nebulizer Principles of intensive care therapy. Knowledge of the equipment's and monitoring: Endotracheal tubes, tracheostomy tubes, suction pump, Vitals monitoring General Physiotherapy Management: Positioning: Prone, side lying, long sitting, upright or standing, Airway Clearance techniques: ACBT and Autogenic Drainage	8	CO3
4	PHYSIOTHERAPY IN OBSTRUCTIVE AND RESTRICTIVE LUNG DISEASES	Physiotherapy techniques to decrease work of breathing: Energy Conservation, breathing re-education – Breathing control techniques, Graduated exercise program and posture correction. Mechanical aids –Incentive Spirometry, PEP Devices Physiotherapy techniques to increase lung volume: Chest mobility exercises, Neuro-physiological Facilitation of Respiration, Mechanical aids –Incentive Spirometry, IPPB	8	CO4
5	PHYSIOTHERAPY AFTER PULMONARY AND CARDIAC SURGERY	Breathing exercises, huffing, and coughing, Arm exercises, ankle foot exercises, trunk exercises, posture correction, Pulmonary Rehabilitation, Cardiac Rehabilitation	8	CO5
Referen	ce Books:	in Chast Haart & Vascular Disaasas, Publisher: Moshy		
2. Car	diovascular And Pulmonary Physic	cal Therapy Evidence to Practice: Donna Frown felter. Elsevier		
3. Phy	siotherapy for Respiratory and Car	diac Problems: Jennifier & Ammani, Churchill Livingstone/Elsevier.		
4. Clin	nical Application of Mechanical Ve	entilation, CENGAGE Learning		
e-Lear	ning Source:			
1. <u>https</u>	://youtu.be/Bt0axxrpDlTd8			
2. <u>nttps</u>	://youtu.be/NpWnnIr-ZHBU ://youtu.bee/KHyfdKyw/218			

4. https://youtu.be/KHxrtvfdKyw2I8

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
СО	101	102	105	101	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1501	1505
CO1	1	3	-	1	1	-	-	-	-	1	-	2	-	-	-	-	1
CO2	2	3	-	1	1	-	-	-	-	1	-	3	-	-	-	1	-
CO3	1	2	2	2	3	1	2	1	-	2	1	3	3	3	3	3	1
CO4	2	2	3	3	3	-	1	1	1	3	1	3	2	3	3	2	1
CO5	1	2	3	3	3	-	1	1	-	3	1	3	3	3	3	3	1

Course Code	Course Title		Attributes										
PT403	CARDIOPULMONARY	Emplo yability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics					
	PHYSIOTHERAPY	٦	٧	1	1		V	1	3,4				



Effective from Session: 2018-19												
Course Code	PT404	Title of the Course	RESEARCH & BIOSTATISTICS IN PHYSIOTHERAPY	L	Т	Р	С					
Year	IV	Semester	VII	2	1	0	3					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The objecti	e objective of this module is to help the students understand the basic principles of research and methods applied to draw inferences										

	Course Outcomes
CO1	To understand the importance of research in the relative field. Understand the basic concepts and methods of research.
CO2	To interpret differences in data distributions via visual displays. Calculate standard normal scores and resulting probabilities
CO3	To calculate and interpret confidence intervals for population means and proportions. Interpret and explain a p-value.
CO4	To perform a two-sample t-test and interpret the results; calculate a 95% confidence interval for the difference in population means.
CO5	To select an appropriate test for comparing two populations on a continuous measure, when the two-sample t-test is not appropriate.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO					
	INTRODUCTION OF	Review of Literature and its importance-Different methods to review the literature.							
1	RESEARCH	Research design. Measurement & scaling techniques.	6	CO1					
	METHODOLOGY								
	COLLECTION OF	Methods of data collection: Primary and secondary source of information, collection of							
2	2 DATA primary data, collection data through questionnaires & schedules, Difference between								
	questionnaires & schedules. Sampling: Definition and types. Sample size calculation.								
	Introduction: Meaning, definition, characteristics of statistics. Importance of the study of								
3	DESCRIPTIVE	statistics, Branches of statistics, Statistics and health science, Tabulation of Data: Basic	6	CO3					
5	STATISTICS-I	principles of graphical representation. Measures of Central tendency. Measures of	0	005					
	Dispersion. Skewness, kurtosis.								
4	DESCRIPTIVE Probability and standard distributions the binominal distribution, the normal distribution.								
4	STATISTICS- II	STATISTICS- II Correlation & regression correlation coefficient for two variables. Linear regression.							
5	INFERENTIAL	Testing of Hypotheses Procedure, Null and Alternative hypothesis, Level of significance,	6	COS					
5	STATISTICS	Degrees of freedom, Parametric and Nonparametric Tests.	0	005					
Referen	ce Books:								
1. B.k	K. Mahajan, Methods in I	Biostatistics, Jaypee.							
2. P.N	I. Arora: Biostatistics &	Research methodology							
3. Dr	J. A. Khan: Biostatistics	& Research methodology, APH Publishing.							
4. Hic	ks: Research methodolo	gy, Churchill Livingstone							
e-Lear	ning Source:								
1. <u>htt</u>	tps://youtu.be/w1LRtqBQ4	5tfcQ							
2. <u>htt</u>	tps://youtu.be/PhLSDngxLr	p-M							
<u>3. htt</u>	tps://youtu.be/PhLSDxtnxL	<u>p-M</u>							
1 4. htt	ths://voutu.be/EWvxvY48N								

4.	https://v	youtu.be/EW	yxvY48NApG8

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
C01	-	-	-	-	-	-	-	1	1	3	-	1	-	-	-	3	1
CO2	-	-	-	-	-	-	-	-	-	3	1	2	-	-	-	2	1
CO3	-	-	-	-	-	-	-	-	1	3	-	1	-	-	-	3	-
CO4	-	-	-	-	-	-	-	1	-	3	1	-	-	-	-	3	-
CO5	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	3	1

Course Code	Course Title		Attributes										
	RESEARCH &	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional					
PT404	BIOSTATISTICS IN	yability	neurship	Development	Equality	Sustainability	Value	Ethics					
	PHYSIOTHERAPY	1	1	4	4		4	4	3,4,9				



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Effective from Ses	sion: 2018-19						
Course Code	PT405	Title of the Course	ORTHOPAEDICS PHYSIOTHERAPY-I LAB	L	Т	Р	С
Year	IV	Semester	VII	0	0	4	2
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	The student will be ab evaluation and interver function & maximum f	le to plan & prescribe s ntion in case of various unctional independence.	short-term & long-term Physiotherapy treatment by selectin Orthopedic conditions for the relief of pain, healing, rest	ng app oration	ropriate / main	modes tenance	s of e of

	Course Outcomes										
CO1	To understand the traumatology of upper limb fractures with their management with their special test.										
CO2	To understand the traumatology of lower limb, spine and pelvis fractures with their management with their special test.										
CO3	To understand the management of various orthopedic surgeries and post-surgery management.										
CO4	To understand the Pathophysiology of various musculoskeletal conditions, congenital and acquired anomalies with its assessment and										
	treatment protocol.										
CO5	Demonstrate an understanding of orthopedic conditions causing disability, clinical features and methods of investigations and										
	management.										

Unit No.	Title of	the U	nit					С	ontent	of Unit					Cont Hrs	act s.	Mapped CO
1	PHYSIO APPRC UPPE TRA	THERA DACH R LIM AUMA	APY IN B	Physiothe and mob dislocatio	erapy as pilization ons and s	sessmer n phase soft tissu	t and r . Phys ie. Injui	nanager siothera ry durin	nent of py asse g immol	upper li essment bilizatior	mb fract and ma and mo	ures duri magemen bilizatior	ng immo at of up a phase.	bilization per limb	8		CO1
2	PHYSIO APPRO LOWE AND TRA	THERA DACH R LIM SPINE AUMA	APY IN IB E	Physiothe and mob dislocation managem of spine a	erapy as bilization ons durin ent of l and pelv	sessmer n phase ng. Imm ower lin is fractu	t and r . Phys obilizat nb soft re durir	nanager siotherag tion and tissue f ng. Imm	nent of py asse l mobili injuries. obilizat	lower li essment zation pl Physioth ion and r	mb fract and ma hase. Ph herapy a nobilizat	ures duri magemen ysiothera ssessmen ion phase	ng immo at of low py assess t and ma e.	bilization wer limb ment and nagement	8		CO2
3	PHYSIO APPR TOW ORTH SURC	THERA COACH ARDS OPEDI GERIES	APY H IC S	Demonstr Arthrodes	ration of sis and I	f post op Bone Gr	erative afting, l	rehabil Muscle	itation of tendon a	of Arthro and nerve	plasty ar e surgerio	nd Arthro es, Spinal	scopy, O Surgerie	steotomy, s	8		CO3
4	PHYSIO IN AMP	HYSIOTHERAPY N AMPUTATIONPre and post operative assessment and Goals of management. Level of amputation of upp limb and lower limb. Stump care, Bandaging, Pre and post prosthetic management Complication of amputation and their management.													8		CO4
5	PHYSIO IN BOI JO INFECT BONE	PHYSIOTHERAPY IN BONE AND JOINT Physiotherapy assessment and management of bone infection on the basis of physical and functional diagnosis. Physiotherapy assessment and management of basis of physical and functional diagnosis. Physiotherapy assessment and management of bone tumors on the basis of physical and functional diagnosis.												vsical and on on the gement of	. 8		CO5
Referen	ce Books:										-						
1. Cash	Text book	s of Or	thopedi	ics and Rh	eumato	logy for	physio	therapis	t Jaypee	Publica	tion	r • • • • • • • •					
2. Neur	omusculos	keletal	Examin	nation and	assessi	nent tou	rth edit	10n by I d I Mai	NICOLA J	. Petty C	nurchill	Livingsto	ne				
4. Esser	ntial Orthor	bedics	third Ed	dition by N	Maheshy	vari Me	hta pub	lishers.	300.								
e-Learn	ing Source	:		<u></u>			F										
1. <u>http</u>	s://youtu.ba	ae/XJrl	RrsMCE	Emp8													
2. <u>http</u>	s://youtu.b	ae/XJrl	<u>RrMCE</u>	<u>mp8</u>													
3. <u>http</u>	<u>s://youtu.b</u>	e/U499	<u>22kHU</u>	<u>JcIk</u>													
4. <u>nttp</u>	s://youtu.b	e/entZ	W AAO	<u>wiiiu</u>	~								1000	``			
					Cot	irse Art	iculatio	on Mat	rıx: (Ma	apping o	t COs w	ith POs a	and PSO	s)			
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO ₄	4 PSO5

PO-PSO	DO1	DOD	DO2	DO4	DO5	DO6	DO7	DOS	DOO	DO10	DO11	DO12	DSO1	DSO2	DSO2	DSO4	DSOS
CO	FOI	F02	105	r04	FUS	100	10/	100	F09	FOID	FOII	FO12	1301	F302	1303	1304	1303
CO1	1	2	3	2	2	-	-	1	-	2	1	2	3	2	2	3	1
CO2	2	3	2	3	3	-	-	-	-	3	1	3	3	3	2	2	1
CO3	2	2	3	2	2	-	-	-	-	3	-	2	2	3	3	3	-
CO4	1	3	3	3	3	-	1	1	-	2	1	3	3	3	2	3	-
CO5	1	3	3	3	3	-	1	1	-	3	2	3	3	3	3	2	-

Course Code	Course Title		Attributes										
	ORTHOPAEDICS	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional					
PT405	PHYSIOTHERAPY-I	yability	neurship	Development	Equality	Sustainability	Value	Ethics					
	LAB	7	4	4	4		4	4	3,4				



Effective from Session: 2018-19												
Course Code	PT406	Title of the Course	NEUROPHYSIOTHERAPY LAB	L	Т	Р	С					
Year	IV	Semester	VII	0	0	4	2					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The student will be able to conduct a safe and effective rehabilitation program with advance rehabilitation techniques on the patient with neurological conditions.											

	Course Outcomes
CO1	Know about the identification and analyze movement dysfunction due to neuromuscular skeletal disorders in terms of biomechanical and
	biophysical basics correlate the same with health condition.
CO2	Understand the routine electro physiological, radiological, and biochemical investigation and arrive at appropriate physical therapy
	diagnosis using WHO – ICF with clinical reasoning.
CO3	Able to plan realistic goal based on the knowledge of prognosis of the diseases of the nervous system and prescribe appropriate, safe evidence-
	based physiotherapy intervention.
CO4	Understand infection control principles, best practices, and techniques applicable to a range of setting where client with
	neurological conditions.
CO5	Identify disability due to neurological dysfunction, set treatment goals and apply their skills in exercise therapy, electrotherapy, and
	massage in clinical situation to restore neurological function.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	NEUROPHYSIOLOGI CAL TECHNIQUES	NDT, PNF, Rood's Sensorimotor Approach, Sensory Integration Approach, Brunnstorm movement therapy, Motor relearning program.	8	CO1
2	PEDIATRIC NEUROLOGY	Developmental milestones, developmental reflexes	8	CO2
3	NEUROLOGICAL ASSESSMENT	Higher mental function examination, Motor & Sensory examination, Reflex testing, Balance & Coordination examination, Gait analysis, Functional analysis	8	CO3
4	EVALUATION AND MANAGEMENT	Function re-education, intensive care management, pediatric and geriatric management	8	CO4
5	ASSESSMENT AND MANAGEMENT OF NEUROLOGICAL GAITS	Quantitative and Qualitative (Kinetic & Kinematics) analysis, List of Problems, short- term & long-term goals, Management of following Neurological Gaits-Hemiplegic gait, Parkinson gait, High step gait, Hyperkinetic gait, Hypo kinetic gait, waddling gait, Scissoring gait, Spastic gait, Chorea form Gait, Diplegic Gait, and Myopathic Gait.	8	CO5
Referen	ce Books:			
1. Ph	nysical rehabilitation – Susa	n O` Sullivan, 5th edition		
2. No	eurological Rehabilitation –	D. A. Umphred, 6th edition		
3. Ph	sysical medicine and rehabi	litation – Braddom, 3rd edition		
4. Th	ne neurological examination	n – De Myer's, 6th edition		
e-Lear	rning Source:			

ng bu

1. <u>https://youtu.be/QDntJgxt9Hhr8</u>

2. https://youtu.be/yF8cdcxN0XTLk

<u>https://youtu.be/L03LI34lbcIg</u>
 <u>https://youtu.be/NjL0P6JxVpEs</u>

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	POQ	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO/	PSO5
СО	101	102	105	104	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1504	1505
CO1	1	3	2	2	3	-	-	1	-	3	1	2	3	2	3	-	1
CO2	1	3	3	3	3	-	-	-	-	2	1	3	3	3	2	-	1
CO3	2	2	3	2	3	-	-	-	-	3	-	3	2	3	3	3	-
CO4	1	3	3	3	3	-	1	1	-	2	1	3	3	3	2	3	-
CO5	1	3	3	3	3	-	1	1	-	3	2	3	3	3	3	2	-

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Attributes & SDGs

Course Code	Course Title		Attributes								
PT406	NEUROPHYSIOTHERAPY LAB	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional			
		yability	neurship	Development	Equality	Sustainability	Value	Ethics			
		1	√	√	*		4	√	3,4,9		



Effective from Session: 2018-2019										
Course Code	PT407	Title of the Course	CARDIOPULMONARY PHYSIOTHERAPY	L	Т	Р	С			
Year	IV	Semester	VII	0	0	4	2			
Pre-Requisite	Nil	Co-requisite	Nil							
The objective of this course is that after lectures and demonstration in addition to clinics the student will be able										
Course Objectives	an understanding of Cardio-thoracic conditions causing disability and their management.									

	Course Outcomes							
CO1	To understand the importance of cardiopulmonary anatomy and physiology about structure, course and function of alveoli, different tracts							
	of respiratory pathways and regulations of cardiopulmonary system							
CO2	Develops the skills to execute different Physiotherapy techniques used in treatment of Cardio-respiratory dysfunctions.							
CO3	To select strategies for cure, care & prevention; adopt restorative & rehabilitative measures for maximum possible functional independence of							
	a patient at intensive care unit.							
CO4	Be able to execute the effective Physiotherapeutic measures with appropriate clinical reasoning to improve pulmonary function.							
CO5	To design & execute effective tailored cardionulmonary post-surgical rehabilitation program.							

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	REVIEW THE REGIONAL ANATOMY AND PHYSIOLOGY OF THORAX AND RESPIRATORY TRACT	Anatomy of heart and its functions, Anatomy of lungs and its functions, Mechanics of respiration, Lung volumes and lung capacities, Coronary and Pulmonary circulation.	8	CO1
2	PHYSICAL ASSESSMENT IN CARDIORESPIRATORY DYSFUNCTION	Inspection: Assessment of Cardio-Vascular and Respiratory system. Breathing pattern (rate, rhythm, use of accessory muscles), Chest deformity (Barrel chest, pigeon chest), Spinal deformity (scoliosis, kyphosis, kyphoscoliosis), Sputum (color, types), Cough (types, productive/non-productive) Palpation: Tactile and vocal fremitus, mobility of thoracic spine and ribcage. Percussion: Dullness and hyper resonance. Auscultation: Normal and abnormal breath sounds. Measurement and Investigation, Chest expansion at different levels (auxiliary), nipple, xiphoid); ABG analysis, ECG, PFT and radio-diagnosis	8	CO2
3	GENERAL AND INTENSIVE CARE PHYSIOTHERAPY	Postural drainage, Mechanical ventilation: IPPB, PEEP, CPAP, Bi-PAP, SIMV, Aerosol Therapy, Humidifiers, and nebulizer Principles of intensive care therapy. Knowledge of the equipment's and monitoring: Endotracheal tubes, tracheostomy tubes, suction pump, Vitals monitoring General Physiotherapy Management: Positioning: Prone, side lying, long sitting, upright or standing, Airway Clearance techniques: ACBT and Autogenic Drainage	8	CO3
4	PHYSIOTHERAPY IN OBSTRUCTIVE AND RESTRICTIVE LUNG DISEASES	Physiotherapy techniques to decrease work of breathing: Energy Conservation, breathing re-education – Breathing control techniques, Graduated exercise program and posture correction. Mechanical aids –Incentive Spirometry, PEP Devices Physiotherapy techniques to increase lung volume: Chest mobility exercises, Neuro-physiological Facilitation of Respiration, Mechanical aids –Incentive Spirometry, IPPB	8	CO4
5	PHYSIOTHERAPY AFTER PULMONARY AND CARDIAC SURGERY	Breathing exercises, huffing, and coughing, Arm exercises, ankle foot exercises, trunk exercises, posture correction, Pulmonary Rehabilitation, Cardiac Rehabilitation	8	CO5
Referen	ice Books:	n Chast Haart & Vasqular Disaacas, Publishar, Mashy		
2. Car	diovascular And Pulmonary Physica	l Therapy Evidence to Practice: Donna Frown felter. Elsevier		
3. Phy	siotherapy for Respiratory and Card	iac Problems: Jennifier & Ammani, Churchill Livingstone/Elsevier.		
4. Cli	nical Application of Mechanical Ver	tilation, CENGAGE Learning		
e-Lear	rning Source:			
1. <u>https</u>	://youtu.be/Bt0axxrpDITd8			
$\frac{2.100}{3}$ https	://youtu.be/HpwIIIII-ZEEDU			

4. https://youtu.be/KHxrtvfdKyw2I8

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
СО	101	102	105	101	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1501	1505
CO1	1	3	-	1	2	-	-	-	-	1	-	2	-	-	-	-	1
CO2	2	3	-	1	1	-	-	-	-	1	-	3	-	-	-	1	-
CO3	1	3	2	2	3	1	2	1	-	2	1	3	3	2	3	3	1
CO4	1	2	3	3	2	-	1	1	1	3	1	3	2	3	3	2	1
CO5	1	2	3	3	3	-	1	1	-	3	1	3	3	3	3	3	1

Course Code	Course Title		Attributes								
PT407	CARDIOPULMONARY PHYSIOTHERAPY	Employabil	Entrepreneurship	Skill	Gender	Environment &	Human	Professional	I		
		ity	Entrepreneursnip	Development	Equality	Sustainability	Value	Ethics			
		1	4	1	4		4	7	3,4,9		



Effective from Session: 2018-19									
Course Code	PT408	Title of the Course	SEMINAR ON CLINICAL ISSUES	L	Т	Р	С		
Year	IV	Semester	VII	0	2	0	2		
Pre-Requisite	Nil	Co-requisite	Nil						
Course Objectives	This course will serv issues in the effica rehabilitation as wel	e as a platform for stude cy of Physiotherapy to l as enhance presentati	ents to integrate various components of patient management echniques used in musculoskeletal, neurological, cardio on skills.	and de pul mo	bate co onary,	ntentio & Spo	ous erts		

	Course Outcomes							
CO1	The students will understand and interpret latest advancements through different technical papers, reports, Journals, Data sheets, books etc							
CO2	The students will inculcate the skills for literature survey and will learn to manage resources effectively.							
CO3	The students will be able to summarize the recent research and technologies in the form of review and will be able to deliver power point							
	presentations on an assigned topic.							
CO4	The students will be able to communicate his/her ideas with his peers as audience, which will enhance both oral and written communication							
	skills.							
CO5	The students will be able to create interest to pursue lifelong learning.							

SEMINAR PRESENTATION ASSESSMENTN FORM

Name of Student:		Session:	
Enrolment Number:		Date:	
Name of Subject:	Seminar on Clinical Issues	Subject code:	PT408
Topics:			

Criteria	Sub-Criteria	Max. Marks	Marks Obtained
Terminal sectors	Use appropriate background information	02	
(Max marks 05)	Has clear statement of purpose	02	
(Wax marks-03)	Shows a logical sequence	01	
	Includes accurate information	02	
	Shows up-to-date content	02	
Eastual Contant	Presents relevant content	02	
(Max marks 10)	Shows in-depth and sufficient details	01	
(IVIAX IIIAIKS- 10)	Addresses all important issues	01	
	Is selective	01	
	Use of proper English Grammar in the text	01	
Presentation Quality	Has a good design of presentation (appropriate font, type, size, color, matter per slide etc.)	02	
(Max marks-03)	Has a clear verbal expression and eye contact with audience	01	
Response to	Answers question(s) correctly	02	
questions	Has the ability to think on the spot	02	
(Max marks-05)	Shows an ability to defend content of presentation	01	
Time Management (Max. mark-02)	Completes the presentation within allocated time	02	
	Total Marks	25	

Note: In case of Oral Presentation, each student will be assessed in a 20 minutes time (15 min for presentation & 5 min for discussion) out of 50 marks.

Comments/Suggestions:

(Name and signature of Incharge)

(Head, Physiotherapy)

EVALUATION OF SEMINAR ON CLINICAL ISSUES

BPT- Students has to prepare minimum 2 long case and 2 short cases during their seminar presentation during due course of time. The evaluation for internal clinical examination of 50 marks will be distributed: Seminar Presentation=**25marks**.

Viva voce =20 marks

Attendance=5 marks

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO-PSO PC	01	D1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02 PS03 PS04 PS05															
CO	01	102	105	104	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1504	1505
CO1 2	2	3	3	2	3	2	3	1	2	1	-	-	3	2	3	3	2
CO2 3	3	3	3	3	2	2	3	2	1	3	-	-	2	2	3	2	3
CO3 3	3	3	3	3	2	2	3	2	1	3	-	-	3	2	2	2	3
CO4 3	3	3	3	3	2	2	3	2	1	3	-	-	2	3	2	2	3
CO5 3	3	3	3	3	2	2	3	2	1	3	-	-	3	2	3	3	2

Course Code	Course Title				Attribut	es			SDGs No.
PT408	SEMINAR ON CLINICAL	Emplo yability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
	ISSUES	1	√	√			√	√	3,4,9, 17



Effecti	ve from Ses	sion: 2018-19							
Course	e Code	PT409	Title of the Course	CLINICAL POSTING	L	Т	Р	С	
Year		IV	IV Semester VII						
Pre-Re	equisite	Nil	Co-requisite	Nil					
Course	е	Students will engage i	n clinical practice in F	Physiotherapy departments in the musculoskeletal, neurol	logy, d	cardiop	ulmona	ary,	
Objectives sports settings to enhance their clinical skills and apply contemporary knowledge gained during teaching sessions.									
-			(Course Outcomes					
CO1	To learn th	e punctuality and interact	ion with colleague and	supporting staff during clinical training.					
CO2	To develop	assessment skills.							
CO3	03 To develop appropriate treatment protocol.								
CO4	To understa	and the importance of do	cumentation of the case	record and case presentation.					
CO5	05 To develop discipline and improve overall quality of clinical work.								
CO2 CO3 CO4 CO5	To develop To develop To understa To develop	assessment skills. appropriate treatment pr and the importance of do discipline and improve of	otocol. cumentation of the case overall quality of clinica	record and case presentation.				_	

CLINICAL POTING ASSESSMENTN FORM

Name of St	udent:		Session:	
Enrolment	Number:		Date:	
Name of Su	ıbject:	Clinical Posting	Subject code:	PT409
Topics:				
S. No.	Point to be C	Considered	Max. Marks	Marks Obtained
1.	Punctuality		4	
2.	Interaction	with colleagues and supporting staff	2	
3.	Maintenanc	e of case records	3	
4.	Presentation	1 of case during rounds	2	
5.	Investigatio	n work up	2	
6.	Bedside Ma	nners	2	
7.	Rapport wit	h patients	2	
8.	Treatment a	approach & technique	3	
9.	Discipline		2	
10.	Overall qua	lity of clinical work	3	
		TOTAL SCORE	25	

(Name and signature of Incharge)

GUIDELINES FOR CLINICAL TRAINING PROGRAM

(Head, Physiotherapy)

The students of Post Graduate Physiotherapy program must spend above mentioned allotted time period in the hospital based clinical training for specified clinical experiences to meet the objectives of the training program. This period of practical and theoretical experience will enable the students to acquire competency and experience to perform as an independent practice and will enable to adjust to the real practical life in different units in the hospital settings.

S.No.	Program Name	Year/Semester	Duration of Training
1.		IIIrd Year/ Vth Semester	4 Months
2.	DDT	IIIrd Year/ VI th Semester	4 Months
3.	BPI	IVth Year/ VII th Semester	4 Months
4.		IVth Year/ VIII th Semester	4 Months

By the successful completion of this clinical training period, the student is expected to fulfil the objectives of the program and will be examination as given below:

S.No.	Program Name	Year/Semester	Case file	Practical on Case	Voice/Viva	Attendance
1.		IIIrd Year/ Vth Semester		10 Maulaa		
2.	DDT	IIIrd Year/ VI th Semester	10 Marka	10 Marks	25 Morka	5 Morko
3.	DF I	IVth Year/ VII th Semester	10 Iviaiks	(1 Long Case and 2 Short Case)	25 Walks	JIVIAIKS
4.		IVth Year/ VIII th Semester		Short Case)		

EVALUATION OF CLINICAL POSTING

BPT- Students has to prepare 1 long case and 2 short cases during their clinical posting. The evaluation for internal clinical examination of 50 marks will be distributed:

Cases during clinical posting=**20 marks**. Viva voce =**25 marks**

Attendance=5 marks

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
СО	101	102	105	104	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1004	1505
CO1	2	3	3	2	3	2	3	1	2	1	-	-	3	2	3	3	2
CO2	3	3	3	3	2	2	3	2	1	3	-	-	2	2	3	2	3
CO3	3	3	3	3	2	2	3	2	1	3	-	-	3	2	2	2	3
CO4	3	3	3	3	2	2	3	2	1	3	-	-	2	3	2	2	3
CO5	3	3	3	3	2	2	3	2	1	3	-	-	3	2	3	3	2

				inteributes et bi	200							
Course Code	Course Title		Attributes									
PT409	CLINICAL POSTING	Employ ability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics				
		1	1	1	1		1	4	3,4,11			



INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH

DEPARTMENT OF PHYSIOTHERAPY

BACHELOR OF PHYSIOTHERAPY

(BPT) SYLLABUS

YEAR/ SEMESTER: IV/VIII



Effective from Session	n: 2018-19											
Course Code	PT410	Title of the Course	ORTHOPAEDICS PHYSIOTHERAPY-II	L	Т	Р	С					
Year	IV	Semester	VIII	3	1	0	4					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The candidate will	candidate will be able to identify, discuss, analyze, plan & prescribe the appropriate skills of executing short - & long-term										
Course Objectives physiotherapy treatment in the general Orthopedics condition and Musculoskeletal trauma.												

	Course Outcomes
CO1	Students will understand about basic concept of physiotherapy assessment and physiotherapy management of shoulder and Elbow disease and
	dysfunctions on the basis of functional diagnosis.
CO2	Students will understand about basic concept of physiotherapy assessment and physiotherapy management of wrist and hand disease and
	dysfunctions on the basis of functional diagnosis.
CO3	Students will understand about basic concept of physiotherapy assessment and physiotherapy management of knee, ankle and foot disease and
	dysfunctions on the basis of functional diagnosis.
CO4	Students will understand about basic concept of physiotherapy assessment and physiotherapy management of hip and spine disease and
	dysfunctions on the basis of functional diagnosis.
CO5	Students will understand about basic concept of physiotherapy assessment and physiotherapy management of rheumatological disorders and
	peripheral nerve injury of upper and lower limb on the basis of functional diagnosis.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
		Frozen Shoulder and Rotator Cuff Disease, TOS, RSD and Student Elbow, Pulled		
1	SHOULDER AND	Elbow, Tennis Elbow, Golfer Elbow, Pronator Teres Syndrome and Radial tunnel	8	CO1
	ELDOW	Syndrome		
		Carpal Tunnel Syndrome and Ulnar Tunnel Syndrome, Dupuetryns Contracture		
2	WRIST AND HAND	and Madlungs deformity, Dequervain's Disease and Ganglion, Trigger finger,	8	CO2
		Thumb and Mallet finger		
2	KNEE, ANKLE AND	Knee Osteoarthritis and Chondromalacia of patella, Genu Varus, Genu Valgus,	0	COL
3	FOOT	Genurecurvatum, CTEV, Flat Foot Pes Cavus, Plantar fasciitis, Metatarsalagia	8	COS
4	LUD AND CDINE	Hip Osteoarthritis, Perthe's Disease, Coxa Vara / Valga, CDH, PIVD, Spondylitis,	0	CO4
4	HIP AND SPINE	Lumbar canal stenosis, Spondylolisthesis.	8	CO4
_	RHEUMATOLOGY	Gout, Rheumatoid Arthritis, Ankylosing Spondylitis, Psoriatic Arthritis, Flat back,		
5	AND NERVE INJURY	Lordosis, Swayback, Scoliosis, Kyphosis.	8	CO5
Refere	nce Books:			
1. Cash	n Text books of Orthopa	aedics and Rheumatology for physiotherapist Jaypee Publication		
2. Tidy	's Physiotherapy thirteent	n edition by Stuart B.Porter.		
3. Neur	omusculoskeletal Examin	ation and assessment fourth edition by Nicola J. Petty Churchill Livingstone		
4. Ther	apeutic Exercise fifth edit	ion by Carolyn Kisner F.A Davis Company Philadelphia		
e-Lea	arning Source:			
1. <u>htt</u>	ps://youtu.be/E3Eu0F73R	<u>OI</u>		
2. <u>htt</u>	ps://youtu.be/z-SeJh5-nO	<u>0</u>		
3.	https://youtu.be/keBkeLU	<u>UFyo</u>		
4. htt	ps://voutu.be/4UIwpd-TD	6A		

PO-PSO	DO1	DOD	DO2	DO4	DOS	DOC	DO7	DOP	DOO	DO10	DO11	DO12	DCO1	DEOD		DCO4	PSO5
СО	POI	PO2	P05	P04	POS	P00	P07	P08	P09	P010	POIT	POIZ	P301	P302	P305	P304	
CO1	2	3	3	3	3	-	-	1	-	2	1	3	3	3	2	3	1
CO2	2	3	3	2	3	-	-	-	-	3	1	3	2	3	2	2	1
CO3	2	3	3	2	3	-	-	-	-	3	-	2	3	3	3	3	-
CO4	1	3	3	3	3	-	1	1	-	2	1	3	3	3	2	3	-
CO5	1	3	3	3	3	-	1	1	-	3	2	3	3	3	3	2	-

Course Code	Course Title				Attribut	es		Attributes											
PT410	ORTHOPAEDICS	Employ ability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics											
	PHYSIOTHERAPY-II	4	4	4	√		4	4	3,4,9										



Effective from Session	n: 2018-19											
Course Code	PT411	Title of the Course	SPORT PHYSIOTHERAPY-II	L	Т	Р	С					
Year	IV	Semester	VIII	3	1	0	4					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The student will be	The student will be able to acquire concept of evaluation of sports and Sports injuries, and also will be able to provide Sports										
Course Objectives	Training and Physiotherapy in particular to Sports injuries.											

	Course Outcomes
CO1	Prevention, Evaluation, and Management of Various Sports Injuries: Student will able to understand prevention of different sports injuries
	using protective gear and Evaluation of Various Sports Injuries
CO2	Evaluation and Management of Various Sports Injuries: Student will be able to perform evaluation and mechanism of injuries and
	management of Various Sports Injuries of upper limb
CO3	Evaluation and Management of Various Sports Injuries: Student will be able to perform evaluation and mechanism of injuries in management
	of various sports Injuries of lower limb
CO4	Sports Nutrition, Doping & Medical Conditions in Athletes: Student will be acknowledged about basics Sports Nutrition and its importance in
	sports Doping & Medical Conditions in Athletes and importance of strength in sports and principles of resistance training in athlete
CO5	Introduction to Applied Sports Biomechanics: Student will be able to understand about Applied Sports Biomechanics and its role in injury
	prediction and prevention

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	PREVENTION, EVALUATION, AND MANAGEMENT OF VARIOUS SPORTS INJURIES	Pre-participation Evaluation, On field evaluation, Off field evaluation, Introduction to protective gear used for spine, upper limb, and lower limb, Introduction to Emergency care of a sports person	8	CO1
2	EVALUATION AND MANAGEMENT OF VARIOUS SPORTS INJURIES	Mechanism, prevention, and assessment and Physiotherapy management of injuries in: Shoulder: Impingement Syndrome, Rotator Cuff tear, Bicep Tendinitis, AC Joint sprain. Elbow: Lateral epicondylitis, medial epicondylitis, little league elbow, Wrist: Dequervance tenosynovitis, scaphoid fracture, Hand : Mallet finger, boxer fracture, boutenniere injuries, Spine: Whiplash injuries	8	CO2
3	EVALUATION AND MANAGEMENT OF VARIOUS SPORTS INJURIES	Mechanism, prevention, assessment and Physiotherapy management of injuries in-Hip & Groin: Piriformis syndrome, ITBFS, Adductor strain, Knee & leg: PFPS, ACL Injury, Hoffa's disease, Tennis leg, Shin Splint, Foot & Ankle: Ankle Sprain, Planter Fasciitis. Chest, abdomen	8	CO3
4	SPORTS NUTRITION, DOPING & MEDICAL CONDITIONS IN ATHLETES	Doping, Basic principles of Resistance Training, Sports Nutrition, Medical problems in athlete, Biomechanics of Running and its clinical implication	8	CO4
5	INTRODUCTION TO APPLIED SPORTS BIOMECHANICS	Biomechanics of Throwing and its clinical implication. Biomechanics of Running and its clinical implication, Biomechanics of Swimming and its clinical implication.	8	CO5
Refer	ence Books:			

1. Clinical Sports Medicine–By Karim Khan

2. Physical rehabilitation of a injured athlete – By Andrews & Harrelson	
3. Therapeutic Exercise – By Micheal Huggins	
4. Athletic & Sports Issues in Musculoskeletal Rehabilitation – By David J Magee	

e-Learning Source:

 https://youtu.be/upxeWJs5Pio

 https://youtu.be/UgSWHs49K4s

3. https://youtu.be/ECQ6fqR3x0c

4. https://youtu.be/HP5TSg9YJnE

					С	ourse A	Articula	ation M	[atrix: (Manning	of COs	with POs	and PSO	s)			
PO-PSO	DO1	DO1	DO2	DO4	DO5	DO4	DO7		DOO		DO11	DO12		DSO2	DSO2	DCO4	DSO5
СО	POI	PO2	P05	PO4	POS	P00	PO/	P08	P09	P010	POII	P012	P301	P302	PS05	P304	PS05
CO1	2	2	3	2	3	-	1	1	1	2	1	2	2	3	2	2	2
CO2	2	1	3	3	3	-	2	-	1	3	1	3	3	2	3	3	1
CO3	1	2	3	2	2	-	1	1	-	2	-	2	3	3	2	2	2
CO4	2	2	3	3	3	-	2	-	-	3	-	3	3	2	2	2	1
CO5	1	2	3	3	3	-	1	-	1	3	1	3	3	2	2	3	1

Course Code Course Title Attributes SDGs No. Emplo Entrepre Skill Gender Environment & Human Professional SPORT PT411 Ethics Equality Sustainability Value yability neurship Development PHYSIOTHERAPY-II 3,4,9 √ 1 1 1 1 1



Effective from S	ession: July 2	018										
Course Code	PT412	Title of the Course	Course COMMUNITY BASED REHABILITATION IN PHYSIOTHERAPY									
Year	IV	Semester	VIII	3	1	0	4					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The students Medical & s Formulation	s will understand the con urgical aspects of disab of appropriate goals in	ncept of team approach in Rehabilitation, Observation and Identification of dia ling conditions. Identification of residual potentials in patients with partial & t treatment and rehabilitation.	agnos total (tic fea disabil	tures, ity.						

	Course Outcomes
CO1	Introduction to Rehabilitation: The student understands the concept of rehabilitation and delivery of health care with medical team work.
CO2	Introduction to Health Care System: The student able to learn disability evaluation within the physical therapy domain from impairment to disability.
CO3	Introduction to Industrial Therapy: The student will able to effectively communicate both orally and in writing the general principles of
	Industrial therapy, occupational hazards and manual handling concept to rule the musculoskeletal problem and their rehabilitation.
CO4	Introduction of Ergonomics: To understand the need of ergonomics and client evaluation in job assessment, placement with proper work
	conditioning and work hardening.
CO5	Introduction to Geriatric: To understand the geriatric rehabilitation under the theories of aging and physiological changes due to aging to make
	the lifestyle physically active.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
		Introduction to Rehabilitation Medicine		
	INTRODUCTION	Delivery of Rehabilitation care		
1	ТО	CBR & its model	8	CO1
	REHABILITATION	Planning Management & Evaluation of CBR Program		
		Community & Evaluation of client in community		
		Health Planning Management & Health Care of Community		
	INTRODUCTION	Resources and agencies involved in CBR		
2	TO HEALTH CARE	Disability Legislation	8	CO2
	SYSTEM	Disability Evaluation		
		Role of International organization in Health Sector		
		Industrial therapy – Primary rehabilitation team & other rehabilitation discipline		
	INTRODUCTION	Occupational hazards		
3	TO INDUSTRIAL	Tool and Designs	8	CO3
	THERAPY	Manual material handling and material assistive device		
		Employee fitness program		
		Ergonomics and job analysis		
	INTRODUCTION	Job placement assessment and pre-employment screening		
4	OF FRGONOMICS	Work conditioning and work hardening	8	CO4
	of Endorionies	Office ergonomics – work station evaluation and design		
		Back injury prevention program		
		Theories of aging		
	INTRODUCTION	Physiological response to Aging		
5	TO GERIATRIC	Principles of Geriatric Physical Therapy program	8	CO5
	ro obia inde	Posture Balance and Fall in elderly		
		Ambulation care		
Referen	ce Books:			
1. Com	munity Based Rehabilita	tion of Person with disabilities – By S.		
2. Physic	otherapy in Community H	Iealth & Rehabilitation – By Waqar Naqvi		
3. Princi	ples of Geriatric Physioth	erapy – By N. K. Multani, S. K. Verma		
4. Text I	Book of Rehabilitation –	By S. Sunder		
e-Lear	ming Source:			
1. <u>https</u>	://youtu.be/mVgiDhl-Iw	<u></u>		
2. <u>https</u>	://youtu.be/eujYbzaBkE0			

3. <u>https://youtu.be/OPqTjnqejnQ</u>

						Course	Articu	lation I	Matrix:	(Mappi	ng of CO)s with P	Os and PS	SOs)			
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO																	
CO1	3	-	-	-	-	3	3	2	2	2	2	2	1	1	2	2	1
CO2	3	-	2	-	-	3	2	1	1	3	1	3	2	2	1	3	2
CO3	3	-	2	1	1	2	3	2	1	2	2	2	1	3	2	2	1
CO4	3	1	1	1	1	3	2	1	2	2	1	3	2	3	2	3	1
CO5	3	1	2	2	1	2	3	2	2	3	1	3	2	3	3	3	2

Course Code	Course Title		Attributes								
	COMMUNITY BASED	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional			
PT412	REHABILITATION IN	yability	neurship	Development	Equality	Sustainability	Value	Ethics			
	PHYSIOTHERAPY	1	4	4	4		4	4	3,4		



Effective from S	Effective from Session: July 2018							
Course Code	PT413	Title of the Course	ORTHOPAEDICS PHYSIOTHERAPY-II LAB	L	Т	Р	С	
Year	IV	Semester	VIII	0	0	4	2	
Pre-Requisite	Nil	Co-requisite	Nil					
Course	This course	his course involves a description of the assessment and management of patients with General Orthopedics condition and						
Objectives	traumatology	on the basis of functional dia	agnosis according to ICF model.	_				

	Course Outcomes
CO1	Students will understand about basic concept of subjective and objective examination in physiotherapy assessment and management in general
	Orthopaedics condition and Musculoskeletal trauma of Shoulder, Elbow, Wrist, Hand, Knee, Ankle, Foot, Hip, Spine, Rheumatology and Nerve
	Injury.
CO2	Students will understand about basic concept of investigations employed in physiotherapy assessment and physiotherapy management in
	various orthopedic Trauma.
CO3	Students will be able to rule out the specific outcome measures, setting of treatment goals and plan in various orthopedics condition and
	Musculoskeletal trauma of upper limb, lower limb, spine, rheumatological conditions and nerve injuries.
CO4	Students will understand the importance of documentation and maintenance of medical records regarding patients/client's condition.
CO5	Students will understand concept of physiotherapy management in post-traumatic and post-surgical cases of musculoskeletal trauma

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	SUBJECTIVE AND OBJECTIVE EXAMINATION	Patients' History: Medical and injury history, information about the disorder, its present state, its prognosis, and the appropriate treatment. Establish red flag signs and symptoms &Yellow flag signs and symptoms Observation: General posture, manner, attitude, willingness to cooperate, and any signs of overt pain behavior.	8	CO1
2	INVESTIGATION EMPLOYED IN ORTHOPEDIC TRAUMA	Vital signs, Scanning Examination, Examination of Specific Joints, Muscle Test Grading, Functional Assessment, Special (Diagnostic) Tests, Reflexes and Cutaneous Distribution, Joint Play Movements, Palpation, Diagnostic Imaging Normal Laboratory Values Used in Orthopedic Medicine.	8	CO2
3	OUTCOME MEASURES, SETTING OF TREATMENT GOALS AND PLAN	Contains complete physiotherapy assessment and management in various orthopedics condition	8	CO3
4	DOCUMENTATION (WRITING PATIENT/CLIENT NOTES)	Initial examination and evaluation, visit, reexamination, and conclusion of episode of care.	8	CO4
5	PHYSIOTHERAPY MANAGEMENT OF THE VARIOUS POST TRAUMATIC AND POST- SURGICAL CASES.	Physiotherapy treatment includes selecting appropriate modes of mobilization / manipulations, electro-therapy, therapeutic exercise & appropriate ergonomic advice for the relief of pain, restoration / maintenance of function & rehabilitation for maximum functional independence.	8	CO5
Refere	nce Books:			
1. Or	hopedic physical assessment the	hird and fifth Edition by David J Magee		
2. Tid	y's Physiotherapy thirteenth edition	on by Stuart Porter.		
3. Net	romusculoskeletal Examination a	nd assessment fourth edition by Nicola J. Petty Churchill Livingstone		
4. The	erapeutic Exercise fifth edition by	Carolyn Kisner F.A Davis Company Philadelphia.		
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<u>https://youtu.be/keBkeLUQFyo</u>
 <u>https://youtu.be/4UIwpd-TD6A</u>

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO		PO2	DO3		PO5	POG		DOS	DO0	PO10	PO11	PO12	DSO1	PSO2	DSO3	DSO/	DSO5
CO	101	102	105	104	105	100	10/	100	109	1010	1011	1012	1301	1302	1305	1304	1305
CO1	2	2	3	3	3	-	-	1	-	2	2	3	3	2	2	3	1
CO2	2	3	3	2	3	-	-	-	-	3	1	3	2	3		2	1
002															2		
CO3	2	3	3	2	2	-	-	-	-	2	-	2	3	3	3	3	-
CO4	1	3	3	3	3	-	1	1	-	2	1	3	3	3	2	3	-
CO5	1	3	3	3	3	-	1	1	-	3	2	3	3	3	3	2	-

Course Code	Course Title				Attribut	es			SDGs No.
	ORTHOPAEDICS	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT413	PHYSIOTHERAPY-II	yability	neurship	Development	Equality	Sustainability	Value	Ethics	
-	LAB	4	4	4	1		*	4	3,4,9



Effective from Session: July 2018									
Course Code	PT414	Title of the Course	SPORT PHYSIOTHERAPY-II LAB	L	Т	Р	С		
Year	IV	Semester	VIII	0	0	4	2		
Pre-Requisite	Nil	l Co-requisite Nil							
Course Objectives	To identify, discuss, analyze, plan & prescribe & acquire the skill of executing on field and off field Physiotherapy treatment in								
Course Objectives	the Regional sports condition.								

	Course Outcomes
CO1	Students will understand about hands- on techniques in various on field test like Illinois and Rockport test.
CO2	Students will understand about various plyometric technique associated with endurance and flexibility used in sports specific training protocols.
CO3	Students will understand about sports specific techniques to increase efficiency of athlete during event participation.
CO4	Students will understand about specificity of special tests in order to rule out various non pathological conditions.
CO5	Students will understand about the various first aid assembly in management during sports event efficiently and rehabilitate accordingly.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	AGILITY TEST	Demonstration and hands- on techniques in various on field test like Illinois and Rockport test.	8	C01
2	PLYOMETRICS – UPPER LIMB AND LOWER LIMB	Demonstrate various plyometrics techniques associated with endurance and flexibility used in sports specific training protocols.	8	CO2
3	DIFFERENT TECHNIQUES USED IN COMMON SPORTS CONDITION	Demonstrate sports specific techniques to increase efficiency of athlete during event participation.	8	CO3
4	SPECIAL TEST IN SPORTS	To understand specificity of special tests in order to rule out various non pathological conditions.	8	CO4
5	DEMONSTRATION OF ON FIELD AND OFF FIELD MANAGEMENT	To understand about the various first aid assembly in management during sports event efficiently and rehabilitate accordingly.	8	CO5
Referen	ce Books:			
1. Clin	ical Sports Medicine - By	Karim Khan		
2. Physi	cal rehabilitation of a injur	ed athelete – By Andrews & Harrelson		
3. Thera	apeutic Exercise – By Mich	eal Huggins		
4. Athle	tic & Sports Issues in Muse	culoskeletal Rehabilitation – By David J Magee		
e-Lear	ning Source:			
1. http:	s://youtu.be/upxeWJs5Pio			
2. <u>http</u>	s://youtu.be/UgSWHs49K4	<u>s</u>		
3. http:	s://youtu.be/ECQ6fqR3x0c			
4 http:	s [.] //voutu be/HP5TSg9YInF			

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO																	
CO1	2	2	3	3	3	-	1	1	1	2	1	2	2	3	2	2	2
CO2	2	1	3	2	3	-	2	-	1	3	1	3	3	2	3	3	1
CO3	1	2	3	3	2	-	1	1	-	2	-	2	3	3	3	2	2
CO4	2	2	3	3	3	-	1	-	-	3	-	3	3	2	2	2	1
CO5	1	2	3	3	3	-	1	_	1	3	1	3	3	2	2	3	1

Attributes & SDGs									
Course Code	Course Title				Attribut	es			SDGs No.
	SPORT	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT414	PHYSIOTHERAPY-II	yability	neurship	Development	Equality	Sustainability	Value	Ethics	
	LAB	1	1	4	4		4	4	3,4,9



Effective from Session: 2018-19											
Course Code	PT415	Title of the Course	PROJECT	L	Т	Р	С				
Year	IV	IV Semester VIII 0 4 0 4									
Pre-Requisite	Nil	Nil Co-requisite Nil									
	The main objective of	The main objective of this course is to develop independence in the research skills and to develop the research interpretation									
Course Objectives	skill. To promote ed	skill. To promote education and research in physiotherapy and provide academic and professional excellence for immediate									
Ū.	productivity in hosp	ital governmental or o	clinical settings for an ultimate benefit of society and en	vironm	ent						

	Course Outcomes								
CO1	The students will be able to perform literature review, identify state of the art in that field.								
CO2	The students will be able to define the problem and develop synopsis of a defined research problem								
CO3	The students will be able to establish a methodology using advanced tools / techniques for solving the problem including project management and								
	finances.								
CO4	The students will be able to prepare the research report and its oral demonstrations.								
CO5	The students will be gain practical experience in project management in biotechnological industry, be able to use various techniques in								
	contemporary research for project, perform numerical analysis and interpret the results								

PROJECT ASSESSMENTN FORM

Name of Student:		Se	ession:	
Enrolment Number:		Da	ate:	
Name of Subject:	PROJECT	Su	ubject code:	PT415
Topics:				

S.	Evaluation	Point to be Considered	Max. Marks	Marks
No.				Obtained
1.		Periodic Consultation with Guide	2	
2.	On the basics of contin	uous Regular collection of Data with the consultation of guide.	2	
3.	assessment	Command of the topic & presentation skill	2	
4.	(10 Marks)	Methods, analysis, dissuasion and Conclusions	2	
5.		Contribution to knowledge and thesis structure	2	
		Review all heading		
1.		Introduction	3	
2.		Aims, objectives & research hypothesis	3	
3.		Review of literature	3	
4.	On the basics of	Material & Methods	3	
5.	External Evaluators	Data analysis & results	3	
6.	at the time of End	Discussion, lamination & future study	3	
7.	Sem Examination.	Conclusion, signification.	3	
8.		Bibliography	3	
9.		Tables, graph, diagram & Annexure (if any) Statistical Analysis Master Chart	3	
10.		The deface of study	3	
		Total Score	40	

Comments/Suggestions:

(Name and signature of Incharge)

(Head, Physiotherapy)

EVALUATION OF BPT PROJECT

Evaluation of Project of BPT- Students has to prepare oral presentation during the final viva; each student will be assessed in a 20 minutes time (15 min for presentation & 5 min for discussion). The evaluation of dissertation by external examiner with proper approval of concern authorities. The end semester examination will be 40 marks as external evaluations and 60 marks will be by the internal evaluation (Continuous Assessment=40+15+5):

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
СО	101	102	105	104	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1504	1505
CO1	2	3	3	2	3	2	3	1	2	1	-	-	3	2	3	3	2
CO2	3	3	3	3	2	2	3	2	1	3	-	-	2	2	3	2	3
CO3	3	3	3	3	2	2	3	2	1	3	-	-	3	2	2	2	3
CO4	3	3	3	3	2	2	3	2	1	3	-	-	2	3	2	2	3
CO5	3	3	3	3	2	2	3	2	1	3	-	-	3	2	3	3	2

Course Code	Course Title		Attributes								
PT415	PROJECT	Emplo yability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
		1	4	√	4		4	√	3,4,9, 17		



Effective from Sessio	Effective from Session: 2018-19											
Course Code	PT416	Title of the Course	SEMINAR ON CLINICAL ISSUES	L	Т	Р	С					
Year	IV	Semester	VIII	0	2	0	2					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	This course will serv issues in the effica rehabilitation as wel	e as a platform for stude cy of Physiotherapy to l as enhance presentati	ents to integrate various components of patient management echniques used in musculoskeletal, neurological, cardio on skills.	and de	bate co onary,	ntentio & Spo	ous rts					

	Course Outcomes							
CO1	The students will understand and interpret latest advancements through different technical papers, reports, Journals, Data sheets, books etc							
CO2	The students will inculcate the skills for literature survey and will learn to manage resources effectively.							
CO3	The students will be able to summarize the recent research and technologies in the form of review and will be able to deliver power pointpresentations							
	on an assigned topic.							
CO4	The students will be able to communicate his/her ideas with his peers as audience, which will enhance both oral and written communicationskills.							
CO5	The students will be able to create interest to pursue lifelong learning.							

SEMINAR PRESENTATION ASSESSMENTN FORM

Name of Student:		Session:	
Enrolment Number:		Date:	
Name of Subject:	Seminar on Clinical Issues	Subject code:	PT416
Topics:			
Criteria	Sub-Criteria	Max. Marks	Marks Obtained
Introduction	Use appropriate background information	02	
(Max marks 05)	Has clear statement of purpose	02	
(Wax marks-05)	Shows a logical sequence	01	
	Includes accurate information	02	
	Shows up-to-date content	02	
Eastual Contant	Presents relevant content	02	
(Max marka 10)	Shows in-depth and sufficient details	01	
(IVIAX IIIAIKS- 10)	Addresses all important issues	01	
	Is selective	01	
	Use of proper English Grammar in the text	01	
Presentation Quality	Has a good design of presentation (appropriate font, type, size, color, matter per slide etc.)	02	
(Max marks-03)	Has a clear verbal expression and eye contact with audience	01	
Response to	Answers question(s) correctly	02	
questions	Has the ability to think on the spot	02	
(Max marks-05)	Shows an ability to defend content of presentation	01	
Time Management (Max. mark-02)	Completes the presentation within allocated time	02	
	Total Marks	25	

Note: In case of Oral Presentation, each student will be assessed in a 20 minutes time (15 min for presentation & 5 min for discussion) out of 50 marks.

Comments/Suggestions:

(Name and signature of Incharge)

(Head, Physiotherapy)

EVALUATION OF SEMINAR ON CLINICAL ISSUES

BPT- Students has to prepare minimum 2 long case and 2 short cases during their seminar presentation during due course of time. The evaluation for internal clinical examination of 50 marks will be distributed: Seminar Presentation=25marks. Viva voce =20 marks

Attendance=5 marks

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	105	104	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1504	1505
CO1	2	3	3	2	3	2	3	1	2	1	-	-	3	2	3	3	2
CO2	3	3	3	3	2	2	3	2	1	3	-	-	2	2	3	2	3
CO3	3	3	3	3	2	2	3	2	1	3	-	-	3	2	2	2	3
CO4	3	3	3	3	2	2	3	2	1	3	-	-	2	3	2	2	3
CO5	3	3	3	3	2	2	3	2	1	3	-	-	3	2	3	3	2

Course Code	Course Title				Attribut	es			SDGs No.
PT416	SEMINAR ON CLINICAL	Emplo vability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
	ISSUES		√ Î	Ŵ			1	4	3,4,9, 17



Effectiv	ve from Sess	sion: 2018-19								
Course	Code	PT417	Title of the Course	CLINICAL POSTING	L	Т	Р	С		
Year IV			Semester	VIII	0	0	10	5		
Pre-Requisite Nil Co-requisite Nil										
Course	Students will engage in clinical practice in Physiotherapy departments in the musculoskeletal, neurology, cardiopulmonary,									
Object	bjectives sports settings to enhance their clinical skills and apply contemporary knowledge gained during teaching sessions.									
			0							
			(ourse Outcomes						
CO1	To learn the	e punctuality and interact	tion with colleague and	supporting staff during clinical training.						
CO2	To develop	assessment skills.								
CO3	3 To develop appropriate treatment protocol.									
CO4	14 To understand the importance of documentation of the case record and case presentation.									
CO5	5 To develop discipline and improve overall quality of clinical work.									

CLINICAL POTING ASSESSMENTN FORM

Name of St	udent:	Session:	
Enrolment	Number:	Date:	
Name of Su	ibject: Clinical Posting	Subject code:	PT417
Topics:			
S. No.	Point to be Considered	Max. Marks	Marks Obtained
1.	Punctuality	4	
2.	Interaction with colleagues and supporting staff	2	
3.	Maintenance of case records	3	
4.	Presentation of case during rounds	2	
5.	Investigation work up	2	
6.	Bedside Manners	2	
7.	Rapport with patients	2	
8.	Treatment approach & technique	3	
9.	Discipline	2	
10.	Overall quality of clinical work	3	
	TOTAL SCORE	25	

(Name and signature of Incharge)

GUIDELINES FOR CLINICAL TRAINING PROGRAM

(Head, Physiotherapy)

The students of Graduate Physiotherapy program must spend above mentioned allotted time period in the hospital based clinical training for specified clinical experiences to meet the objectives of the training program. This period of practical and theoretical experience will enable the students to acquire competency and experience to perform as an independent practice and will enable to adjust to the real practical life in different units in the hospital settings.

S.No.	Program Name	Year/Semester	Duration of Training
5.		IIIrd Year/ Vth Semester	4 Months
6.	DDT	IIIrd Year/ VI th Semester	4 Months
7.	DF1	IVth Year/ VII th Semester	4 Months
8.		IVth Year/ VIII th Semester	4 Months

By the successful completion of this clinical training period, the student is expected to fulfil the objectives of the program and will be examination as given below:

S.No.	Program Name	Year/Semester	Case file	Practical on Case	Voice/Viva	Attendance
5.	DDT	IIIrd Year/ Vth Semester		10 Maulaa		5 Marks
6.		IIIrd Year/ VI th Semester	10 Marks	(1 Long Case and 2 Short Case)	25 Marks	
7.	DP1	IVth Year/ VII th Semester				
8.		IVth Year/ VIII th Semester		Short Case)		

EVALUATION OF CLINICAL POSTING

BPT- Students has to prepare 1 long case and 2 short cases during their clinical posting. The evaluation for internal clinical examination of 50 marks will be distributed:

Cases during clinical posting=20 marks. Viva voce =25 marks

Attendance=5 marks

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	POQ	PO10	PO11	PO12	DSO1	DSO2	DSO3	DSO/	DSO5
СО	101	1 102	105	104	105	100	107	108	109	1010	1011	1012	1501	1502	1303	1504	1505
CO1	2	3	3	2	3	2	3	1	2	1	-	-	3	2	3	3	2
CO2	3	3	3	3	2	2	3	2	1	3	-	-	2	2	3	2	3
CO3	3	3	3	3	2	2	3	2	1	3	-	-	3	2	2	2	3
CO4	3	3	3	3	2	2	3	2	1	3	-	-	2	3	2	2	3
CO5	3	3	3	3	2	2	3	2	1	3	-	-	3	2	3	3	2

Course Code	Course Title	Attributes									
PT417	CLINICAL POSTING	Employ ability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
		1	1	4	7		1	1	3,4,11		