

INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH

DEPARTMENT OF PHYSIOTHERAPY

BACHELOR OF PHYSIOTHERAPY

(BPT) SYLLABUS YEAR/ SEMESTER: III/V



Integral University, Lucknow Department of Physiotherapy <u>Study and Evaluation Scheme</u>

DDT

	Program: BP1 Semester-V												
S.	Course		Type of	Period	Per hr/we	ek/sem		Evaluatio	n Scheme		Sub Total		Total Credits
N.	code	Lourse little	Paper	L	Т	Р	СТ	TA	Total	ESE	Sub. Total	Credit	
					THEOR	IES							
1	PT301	General Surgery	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	PT302	General Orthopaedics and Traumatology	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	PT303	Manual Therapy	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	PT304	Biomechanics and Kinesiology	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	PT317 PT318	Health Promotion, Fitness and Wellness Understanding Of Diagnostic Imaging Technology	AE	2	0	0	40	20	60	40	100	2:0:0	2
					PRACTI	CAL							
1	PT305	Manual Therapy - Lab	Core	0	0	4	40	20	60	40	100	0:0:2	2
2	PT306	Biomechanics & Kinesiology-Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
4	PT308	Clinical Training	Core	0	0	10	25	25	50	00	50	0:0:5	5
		Total	165	470	280	750	26	26					

c		Type Attributes								United Nation	
3. N.	Course code	Course Title	of Paper	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Sustainable Development Goal (SDGs)
		THEORIES									
1	PT301	General Surgery	Core	\checkmark		\checkmark			\checkmark	\checkmark	3,4
2	PT302	General Orthopaedics and Traumatology	Core	\checkmark	\checkmark	√			√	\checkmark	3,4
3	PT303	Manual Therapy	Core	\checkmark	\checkmark	√			√	\checkmark	3,4
4	PT304	Biomechanics and Kinesiology	Core	\checkmark	\checkmark	√			√	\checkmark	3,4,9
5	PT317	Health Promotion, Fitness and Wellness	٨E	-/		-/			-/	-/	349
Э.	PT318	Understanding Of Diagnostic Imaging Technology	AL	v		v			v	v	3,- , 9
		PRACTICAL									
1	PT305	Manual Therapy - Lab	Core	\checkmark	\checkmark	√			√	\checkmark	3,4
2	PT306	Biomechanics & Kinesiology-Lab	Core	\checkmark	\checkmark	√			√	\checkmark	3,4,9
3	PT308	Clinical Training	Core	V	\checkmark	√			√	V	3,4,11
			•	•	•	•	•	•	•		•

L: Lecture T: Tutorials P: Practical CT: Class Test TA: Teacher Assessment ESE: End Semester Examination,

AE= Ability Enhancement, DSE- Discipline Specific Elective, Sessional Total: Class Test + Teacher Assessment

Subject Total: Sessional Total + End Semester Examination (ESE)



Effectiv	e from S	ession: 2023-24										
Course	Code	PT301	Title of the Course	GENERAL SURGERY	L	Т	Р	C				
Year		III	Semester	V	3	1	0	4				
Pre-Req	quisite	Nil	Co-requisite	Nil								
Course Objectiv	ves	The objectives of which they would Disability the pa achieve cure and	f this course are that stu d be handling as a phys tient will have as result /or ameliorate his/her ill	dents at the end of course should have a broad understanding about co iotherapist. They should have a brief idea about Etiology, Pathology t of the disease, so that he/she as a Physiotherapist with Physician sh lness and sufferings.	ommo and T nould	n medic ype and help the	cal dise l Degre e patier	ases e of nt to				
	Course Outcomes											
CO1	Student	t able to understand	d about general surgical	procedures and post surgical complications								
CO2	Student	t able to understand	d various degree of burr	n their management and basic procedure and advantage of plastic surg	ery							
CO3	Student	t able to understand	d various aspects of gen	eral surgeries								
CO4	CO4 Student able to understand various conditions including Sinusitis & Rhinitis, Pharangitis & laryngitis, Deafness											
CO5	Student	t able to understand	d various ophthalmologi	ical conditions								

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO						
		1.Wound, Ulcer, Abscess								
1	GENERAL	3 Tetanus	8	COL						
1	SURGICAL CARE	4 Cysts	0	COI						
		5 Acre Boil Carbuncles								
		1 Burn								
	BURN & PLASTIC	2. Scar		~ ~ ~						
2	SURGERY	3. Shocks, types, Clinical Feature and Management	8	CO2						
		4. Basics of Plastic Surgery & Skin grafting								
		1. Cholecystectomy								
	CENEDAL	2. Nephrectomy & Cystectomy								
3	GENERAL	3. Prostatectomy & Hysterectomy	8	CO3						
	SUKGERIES	4. Mastectomy								
		5. Colostomy, Hernia & Appendectomy								
		1.Sinusitis & Rhinitis,								
		2.ASOM & CSOM,								
4	ENT	3.Otosclerosis & Meniere's disease,	8	CO4						
		4.Pharangitis & laryngitis,								
		5. Deafness	ļ							
		1. Squint, Strabismus								
_		2. Myopia, Hetromyopia	0	~~~~						
5	EYE	3. Cataract, Astigmatism	8	CO5						
		4. Keratitis, Keratoplasty.								
Defenence	n Daalaa	5. Glaucoma, Uveitis and Retinopathy	L							
1. A	A Practical Guide to Opera	tive Surgery: S.Das								
2. S	Short practice of Surgery: I	Baily and Love								
3. P	Principle of Surgery:Schwa	ırtz								
4. 0	Concise book of general Su	irgery by Aggrawal, N.K.								
5. E	5. Essential of Surgery by Aggrawal, S.B.									
6. S	Surgery A clinical Approac	h by Bongard, FredS.								
7. 1	ext book of Ear, Nose &	Ihroat disease By MohammadMaqbool								
8. 0	Seneral Surgical Operation	is by R. M. Kirk and R.C.N. Williamson.								
9. F	ning Source:	biogy								
1. h	ttps://voutu.be/5 bPMZsmfi	p8								
2. ht	ttps://youtu.be/V1KhO6se71	<u>KO</u>								

						Cours	se Arti	culatio	n Matı	ix: (Ma	pping of	COs with	n 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	-	-	-	-	-	-	-	-	-	3	3	-	-	1	-
CO2	2	3	-	-	-	-	-	-	-	-	-	2	3	-	-	-	-
CO3	1	3	1	-	-	-	-	-	-	-	-	3	3	-	-	-	1
CO4	1	3	-	-	-	-	-	-	-	-	-	3	3	-	-	-	-
CO5	2	3	1	-	-	-	-	-	-	-	-	2	3	-	-	-	1

Course Code	Course Title				Attributes				SDGs No.
	GENERAL	Employability	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT301	SURGERY	Linpioyaolinty	neurship	Development	Equality	Sustainability	Value	Ethics	
11501	SCROLKI	√		V			\checkmark	\checkmark	3,4



Effectiv	ve from S	ession: 2023-24								
Course	Code	PT302	Title of the Course	GENERAL ORTHOPEDICS & TRAUMATOLOGY	L T	P C				
Year		III	Semester	V	3 1	0 4				
Pre-Rec	quisite	Nil	Co-requisite	Nil						
Course Objecti	ves	The objective o understanding of 75% accuracy (a	f this course is that after of orthopedic conditions as measured by written, c	the lectures & demonstration, in addition to clinics the student will be causing disability and their management. In addition, the student will oral & practical internal evaluations) the following objectives of the cou	able to demo be able to f rrse.	nstrate an ulfill with				
				Course Outcomes						
CO1	Student and man	s will understand nagement.	d about basic concept of	bone and joint infection, bone tumours & TB with their clinical exam	nination, inv	estigation,				
CO2	Knowle Osteone	edge in regards ecrosis) is gained	to different types of m	etabolic and non-traumatic disorders of bone (Osteomalacia, Rick	ets, Osteopo	rosis, and				
CO3	Student surgical	s will underst I management of	tand the etiology, cl the fracture	assification, pathology, clinical features, relevant investigation,	complicati	ons, and				
CO4	Gain kr	nowledge about fi	racture dislocation and so	ft tissue injury with their investigation and management						
CO5	Learn a	bout the principle	es, contraindications, indi	cations, complications of different types of techniques used in Orthope	dic Surgery.					
Unit No.	Title	e of the Unit		Content of Unit	Contact Hrs.	Mapped CO				
1	Image: No. Basic concept of bone and joint infections (Clinical examination, investigation, management). Osteomyelitis & infectious arthritis, T.B of joint and spine. General principle of Bone Tumors & Common benign and malignant tumor of bones									
2	META OTH TRA DISC	BOLIC AND HER NON- AUMATIC DRDER OF BONE	Osteomalacia & Ricket Osteoporosis, Paget's disease Osteopetrosis, Osteonecrosis & Osteochondrosis	S,	8	CO2				
3	TRAUI (U FR	MATOLOGY JL & LL ACTURE)	Basics of fracture: Det Complication of fractur Common fracture of U Common fracture of I	finition, types, clinical, Healing, & radiological feature of fracture, e & basic principle of fracture management. J/L: Humerus, Radius, Ulna, Metacarpal & Phalanges. J/L: Femur, Tibia, Fibula, Metatarsal, &Phalanges.	8	CO3				
4	TRAUI (FRA DISLO SOF	MATOLOGY .CTURE OF SPINE) DCATION & TTISSUE NJURY	Common fracture of s Dislocation: Basic cond Soft tissue injury: Liga	pine: (Cervical, Thoracic, Lumbar). cept of dislocation Shoulder & Elbow, Hip &Patella. ament, Tendon & Muscle.	8	CO4				
5	CO ORTI SU	OMMON HOPAEDIC JRGERY	Arthrodesis and Arthrog Bone grafting and Tend Amputation (Basic prin	plasty, Osteotomy and Arthroscopy. Ion transfer. ciple, level, indication contraindication complication)	8	CO5				
Reference	ce Books:		• • • •	- · · ·						
1. E	Sential C	Orthopaedics: Ma	heshwari							
2. T	extbook of	of Orthopaedics:	Kotwal and Natrajan							
3. A	pley Syste	em of orthopedics	and Fracture							
4. E	Ssential C	Clinical Orthopae	dics by John Ebenezer							
5. C	Dutline of f	racture: Adams								
e-Lear	ning Sour	ce:								
1. h	ttps://you	tu.be/19yGc73lrs	<u>S</u> I.C.,							
$\frac{2}{3}$ h	ttps://you	tu be/7uc tm6/m								
$\frac{3.}{4}$ h	ttps://you	t_1 be/7uc-tm6km	00							
5. h	ttps://vou	tu.be/h-pLiHJ6ov	<u>y0</u>							
			<u> </u>							

						Cours	se Arti	culatio	n Matı	rix: (Ma	pping of	COs with	h POs and	PSOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	POQ	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO/	PSO5
CO	1	102	105	104	105	100	107	100	10)	1010	1011	1012	1501	1502	1505	1504	1505
CO1	1	3	1	1	-	1	1	-	-	1	1	3	3	-	3	1	-
CO2	2	3	2	-	-	1	1	-	-	2	-	2	2	2	2	2	-
CO3	1	2	3	1	-	-	-	-	-	2	-	2	3	2	1	1	1
CO4	1	3	3	1	-	-	-	-	-	1	-	1	3	1	1	1	1
CO5	1	3	2	1	-	-	-	1	-	1	-	2	3	-	1	-	-

Course Code	Course Title				Attributes	8			SDGs No.
	GENERAL	Employab	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT302	ORTHOPEDICS &	ility	neurship	Development	Equality	Sustainability	Value	Ethics	
	TRAUMATOLOGY	√	√	\checkmark			\checkmark	√	3,4



T166 4*	e 0		0	• •					
Effective	e from Se	ssion: 2023-24	Tide of the Comme		T	T		,	
Course	Code	P1303	Title of the Course	MANUAL THERAPY		T			
Year	• •		Semester	V	3	I	0 4		
Pre-Reg	quisite	Nil	Co-requisite	N11					
Course		This course inclu	des a detailed study of so	ome special techniques of treatment used in Physiotherapy that will help	to mal	ke studen	ts able to)	
Objectiv	ves	treat problems that	at are related to different s	ystems of the body.					
	1			Course Outcomes					
CO1	To under	stand the history of	f Physiotherapy in ancient	time as well as modern time, Understand basic concepts of manual therapy,	effects	and utiliza	tion with	1	
CO2	Diomecha To under	inical conceptual &	its application in Physiothe	rapy. a) of thought of Joint mobilization techniques and procedure of application	on with	proper n	anner of	f	
02	applicatio	on with dosimeters i	in body by different types o	f joint mobilization techniques.	JII WILII	proper in	iannei 01		
CO3	To under	stand the basic prin	nciples for different school	of soft tissue mobilization techniques and procedure of application with pro-	oper ma	nner of a	plication	1	
	with dosi	meters in body by d	lifferent types of soft tissue	mobilization techniques.	•	-			
CO4	To under	stand the basic prin	ciples different types of Ca	ardiopulmonary techniques used for cardiopulmonary dysfunction. At the en-	d studer	nt must kn	ow about	t	
CO5	To under	stand about the diff	r in ICU, ICCU.	ny concept used in physiotherapy for treating different neurological physiother	any cor	nditions		_	
003	10 under		erent types of manual thera	by concept used in physiotherapy for a caung anterent neurological physiother	upy con	iantions.			
Unit	Title	of the Unit		Content of Unit		Contact	Mappe	d	
No.			1 History of manual the	mony Definition of manual thereasy mobilization and manipulation and	ita	Hrs.	CO	_	
				erapy, Deminitor of manual merapy, moonization and manipulation and	115				
1	BASIC (CONCEPTS IN	2 Theoretical Basis for	manual Therapy-Anatomy and biomechanics of the joints. Effects	of	8	CO1		
	MANU	AL THERAPY	manual therapy. Bion	nechanical principles in manual therapy.	01	0	001		
			3. Implementation of mar	nual therapy over the human body.					
	INTRO	DUCTION TO	1 Moitland concents on	d tashniquas					
2		JOINT	2 Mulligan concepts an	d techniques,		8	CO2		
2 JOINT MOBILIZATION TECHNIQUES 2. Mulligan concepts and techniques, 3. McKenzie concepts and techniques.									
	TEC	HNIQUES	3. Werkenzie concepts d	ind teeninques.					
	INTRO	DUCTION TO	1. Cyriax concepts and	techniques,					
3	SOF	I IISSUE	2. Muscle energy techni	que,		8	CO3		
		ILIZATION	4. Taning Tashniques	echniques,					
	TEC	INQUES	4. Taping Techniques.	hniques Self Assisted Coughing Techniques				_	
	MANU	AL THERAPY	2. Postural drainage its i	ndications and contraindications and its applications					
4	INIIII	CARDIO-	3. Respiratory muscle tra	ining.		8	CO4		
	PUL	MONARY	4. Airway clearance tech	nique: Active cycle of breathing technique, Autogenic drainage technic	ue.				
			PEP techniques.		•				
			1. Proprioceptive Neur	comuscular Facilitation (PNF)-Conceptual framework, principle	of			_	
	MANU	AT THERAPY	techniques, including	indications, therapeutic effects and precautions.					
5	IN N	FUROLOGY	2. Neural Mobilization: c	oncepts and techniques.		8	CO5		
		LenoLool	3. Roods Approaches.						
D.f	- De elere		4. Transfer Technique.					_	
1 Therar	e BOOKS:	cise by Carolyn K	isner					_	
2 S Brer	t Brotzma	n Kevin ewilk cli	inical orthonaedic rehabili	itation					
3. Kessle	er. manage	ment of common	musculo skeletal disorder	S.				-	
4. Positio	onal Relea	se technique- Le	on Chaitow						
5. Neuro	dynamics	mobilization techn	nique-Buttler						
6. Muscl	le Energy	techniques- Leon	Chaitow						
7. Physic	cal Therap	y of the Cervical	and Thoracic Spine by C	Gran					
8. Grieve	e's Modern	n Manual Therapy	у						
9. Science	ce and Pra	ctice of Manual t	herapy by EyalLyderma						
10. Moto	or control b	y Shummway Coo	ok.						
e-Leari	ning Sourc								
1. https://	//youtu.be/	G_QI/DVrHNU							

https://youtu.be/OBII2woyZMO
 https://youtu.be/S9Q9WI3ilHY
 https://youtu.be/mO36BgIY6P8
 https://youtu.be/acUZdGd_3Dg

						С	ourse A	rticulat	ion Ma	trix: (Ma	pping of	COs with I	POs and PS	Os)			
PO-PSO	PO1	PO2	PO3	PO4	POS	POG	PO7	POS	POQ	PO10	PO11	PO12	DSO1	DSO2	DSO3	PSO4	DSO5
СО	101	102	105	104	105	100	107	108	109	1010	1011	1012	1501	1302	1505	1504	1305
CO1	1	3	-	3	3	-	-	1	-	-	-	1	1	-	3	-	1
CO2	2	3	1	2	3	-	-	1	1	2	1	3	2	2	3	2	-
CO3	1	3	2	3	3	-	-	1	1	2	1	2	2	3	2	3	-
CO4	1	3	2	2	3	-	-	1	2	2	-	3	3	2	3	2	1
CO5	1	3	3	3	3	-	-	1	2	2	1	3	2	3	2	3	-

Course Code	Course Title				Attribute	5			SDGs No.
		Employab	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT303	MANUAL THERAPY	ility	neurship	Development	Equality	Sustainability	Value	Ethics	
		√	√	√			√	√	3,4



Effective from Session: 2023-24																			
Course	Code	P	T304	1	litle of	the Co	urse		BI	OMEC	CHANI	CS & KI	NESIOL	OGY	I	_ <u>T</u>		P	C
Year			III	S	emeste	r						V				<u> </u>		0	4
Pre-Req	luisite	Nil		(Co-requ	isite		Nil											
Course		This c	ourse ir	icludes	a detai	led stud	ly of so	ome spe	ecial tec	hniques	of treatm	ent used ir	n Physiothe	rapy that w	ill help to	make s	tuden	ts able	to
Objectiv	ves	treat p	roblems	s that a	re relate	d to dif	terent s	systems	of the	body.									
									Cours	e Outcoi	nes								
CO1	The stu	dent wi	ll be ab	le to le	arn bas	ic anat	omy of	fshould	ler com	plex elb	ow and f	orearm an	nd its biom	echanics.					
CO2	The stu	dent wi	ll be ab	le to le	arn bas	ic arth	rology	of wris	t compl	ex, hanc	l comple	x its biom	echanics.						
CO3	The stu	dent wi	ll be ab	le to le	arn bas	ic arth	rology	of Hip	and pel	vis com	plex and	its biome	chanics.						
CO4	The stu	dent wi	ll be ab	le to le	arn bas	ic arth	rology	of knee	e, ankle	and foot	t comple	x and its b	oiomechani	CS.					
CO5	The stu	dent wi	II be ab	le to le	arn bas	ic arth	rology	of cerv	ical, Th	orax and	d Lumba	r.							
Unit No.	Titl	e of the	Unit							Conten	t of Unit					Conta Hrs.	ct	Mappe CO	ed
1	ART AND I KINI	THROL KINEM ETICS (OGY ATICS OF UL	, De 1 , 2	scriptio . Shou Scap . Elbo	on of th lder ulothor w and f	e follo con acic). forearn	wing jo nplex (n (Supe	oint bio (Glenol erior Ra	mechani numeral, dio ulna:	cs: Sterno r, Radioł	clavicular numeral &	, Acromi	oclavicular eral).	, and	8		CO1	_
2	ARTHROLOGY Description of the following joint biomechanics: AND KINEMATICS, 1. Wrist complex (Radio carpal & Intercarpal), KINETICS OF UL 2. Hand complex (Carpometacarpal, Metacarpophalangeal) ARTHROLOGY Description of the following joint biomechanics:												8		CO2	2			
3	3 ARTHROLOGY AND KINEMATICS, KINETICS OF LL Description of the following joint biomechanics: 1. Hip, Pelvic (Sacroiliac joint) 2. Knee												8		CO3	;			
4	ART AND I KINI	THROL KINEM ETICS (OGY ATICS OF LL	, De , 1. 2.	Description of the following joint biomechanics: 1. Ankle 2. Foot Complex (Subtalar, Tarsometatarsal, Met tarsophalangeal)											8		CO4	ŀ
5	ART AND I KII AXT	THROL KINEM NETICS IAL JOI	OGY ATICS S OF INTS	De 1. 2. 3. 4.	scriptio TMJ Cervi Thora Lumł	on of th cal ax oar	e follo	wing jo	ng joint biomechanics: alar, Tarsometatarsal, Met tarsophalangeal) ng joint biomechanics:							8		CO5	5
Referenc	e Books:														I				
1 Ioint	Structur	e and Fi	unction	- A co	mpreh	ensive	Analys	is By (Cvnthia	Norkin	\$								_
2. Clini	cal Kine	siology	for Phy	vsical T	herapis	st Assis	tants.]	P Bros	Medic	al Publis	shers. Ba	ngalore, 1	st Indian E	d1997					
3. Basic	c Biomec	hanics	Explain	ed - L	ow & P	eed – I	Butterv	vorth H	einman	n	,								
4. Kine	siology:	Applied	l to Patl	nologic	al Mot	ion - So	oderbei	rg Lipp	incott										
5. Thera	apeutic E	ercise	by Car	olyn K	isner, I	7. A. Da	avis.												
6. Basic	c Biomec	hanics.	Nordin	IS.															
7. Basic	c Biomec	hanics	& clinio	cal Kin	esiolog	y. Otis													
8. Biom	nechanics	s of Hur	nan Mo	ovemer	it. D W	ınter													_
e-Learn	mng Sour	$\frac{\text{ce:}}{\text{be/i58}}$	73VW2	ohw															
2. http	s://vontu	.be/007	, <u>5 v vv</u> 2 18YII 1	EwI															
3. http	s://voutu	.be/IGV	/p13Te	Rik															
4. http	s://youtu	.be/0R4	ZRSE	-40															
5. http	s://youtu	.be/EE	W_aM-	lpQk															
						~													
						Cours	se Arti	culatio	n Mati	rix: (Ma	pping of	f COs wit	h POs and	PSOs)		_			
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PS	04	PSO	5
C01	1	3	1	1	-	-	-	1	-	2	-	2	2	2	2		3		
CO2	1	3	2	2	-	-	-	-	-	3	-	3	2	3	1		2		
CO4	1	3	3	2	-		-	-	-	2	-	3	2	3	2	;	2		
	1 1	1 5					-									1	-		

 1
 2
 3
 3

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

2

2

3

CO5

1

3

2

Course Code	Course Title				Attributes	5			SDGs No.
	DIOMECHANICS &	Employab	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT304	BIOMECHANICS &	CHANICS & Employab Entrepre Skill Gender Environment & Human Pr ility neurship Development Equality Sustainability Value	Ethics						
	KINESIOLOGY	√	V	√			√	\checkmark	3,4,9



Effect	ive from S	ession: 2023-	<u>24</u>			-	70	D					
Cours	e Code	PT 317	Title of the Cou	se	HEALTH PROMOTION, FITNESS AND WELLNESS	L	1	P C					
Year			Semester		V V	2	U	0 2					
Pre-R	equisite	N1l	Co-requisite		Nil								
Cours	e	1. To provide	understanding of per	sonal hea	alth risks.								
Objec	tives	2.To provide u	understanding of how	psychol	ogical and emotional health are connected to overall well-being.								
		3.Health risks	, screening, and asses	sment co	onsidering epidemiological principles are emphasized.								
		4.Risk reducti	on strategies for prin	ary and	secondary prevention, including programs for special populations are covered.								
					Course Outcomes								
CO1	The role	of health, nut	rition, physical act	vity, an	d wellness in daily life.								
CO2	Awarene	ss about how p	osychological and	emotion	al health are connected to our overall well-being and health.								
CO3	Able to ic	dentify person	al health risks base	d upon	current lifestyle choices								
CO4	Identify a	ind implement	lifestyle changes	hat will	enhance lifelong health.								
CO5 Evaluation and adaptation of health behaviors and lifestyle.													
T T •/	•	· · ·			·		~						
Unit No Title of the Unit Content of Unit													
No. The of the Omit Content of Omit													
	PREVEN	HON PRACE	ICE: Defining Defining	featur	alth Cara								
	A	HULISTIC	P Comparin	s Ul Hea r Holist	ic Medicine and Conventional Medicine								
1	PHYS	SIOTHERAPY	Z Distinguis	hing Th	ree Types of Prevention Practice		4	CO1					
	1111,		Distinguit	af baal									
			Definition	or near				CO2					
2	HEAI	LTHY PEOPL	E Realth eu	cation i	Resources		4	CO2					
			Titystoule	apist 10	ie for a heating community.								
			Defining	k Meas	uring Fitness								
	KEY (CONCEPTS C	OF Assessme	it of Str	ess with a Survey								
3		FITNESS	Visualizin	g Fitnes	SS		4	CO3					
5			Screening Dody May	I I I I I I I I I I I I I I I I I I I	and Physical Filness		·	005					
			Douy Mas Physical	s index	s Readiness Questionnaire								
			Physical A	ctivitie	s Pyramid								
	FITNE	ESS TRAININ	G Exercise I	rogram	s		4	CO4					
4			Evidence-	Based F	Practice.								
			Health, fit	ness, an	d wellness during childhood, adolescence, and adulthood								
			Women's	nealth is	ssues: focus on pregnancy.								
			Health pro	tection.									
	HEALTH	I, FITNESS, A	AND Prevention	practic	e for musculoskeletal conditions, cardio-pulmonary conditions,								
5	W	/ELLNESS	neuromus	cular co	nditions, integumentary disorders, individuals with developmental		4	CO5					
			disabilitie	and ol	der adults.								
			Resources	to optii	mize health.								
Df	····· •		Marketing	health	and wellness.								
Keter	Orthornal ¹	a Dhuai aal 41	ronu Donnotall										
$\frac{1}{2}$	Exercise &	Heart – Weng	er										
3.	Exercise Pl	ivsiology – W	illiam D Mc 'Ardl	2									
4.	Public Healt	h Promotion and	1 Education – Naomi	Modeste									
5.	Physical Act	ivity and Health	Promotion: Evidence	e-based	Approaches to Practice - Wiley								
e-Le	arning So	urce:											
1. <u>htt</u>	os://youtu.be	/EHtb2aLH8Ig											
2. <u>http</u>	os://youtu.be	/x0vzYoplEB5											
3. <u>http</u>	os://youtu.be	/AwdJqxixkRk											

					0	Course 4	Articul	ation M	latrix: ((Mappin	g of CO	s with PC)s and PS	Os)			
PO-PSO	PO1	PO2	DO3		PO5	PO6	PO7	DOS	DO0	PO10	DO11	PO12	DSO1	DSO2	DSO3	DSO4	DSO5
СО	101	102	105	104	105	100	107	100	109	1010	1011	1012	1301	1302	1305	1304	1505
CO1	2	1	3	2	1	1	-	2	2	2	-	2	2	3	3	2	2
CO2	1	2	3	3	3	-	-	1	1	3	-	3	3	3	3	3	1
CO3	1	1	3	3	3	-	-	2	2	2	1	3	2	3	3	3	2
CO4	2	1	3	2	1	2	2	2	1	3	-	3	3	3	2	2	1
CO5	1	2	3	3	3	-	-	1	2	3	1	2	3	3	3	3	1

			Attribut	es a sugs					
Course Code	Course Title				Attributes				SDGs No.
PT317	HEALTH PROMOTION,	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
	FITNESS AND WELLINESS	V		\checkmark			V	V	3,4,9



Effect	Ive from 5	ession: 2023-24							
Cours	se Code	PT 318	Title of the Course	UNDERSTANDING OF DIAGNOSTIC IMAGING TECHNOLOGY	L	T	P	C	
Year		III	Semester	V	2	0	0	2	
Pre-R	equisite	Nil	Co-requisite	Nil					
Cours Objec	se etives	This course covers the implications of commo	study of common diagnostic and only used diagnostic imaging tests	therapeutic Imaging tests. At the end of the course students will be a say they pertain to patient's management.	aware o	f the indi	cations	and	
			C	Course Outcomes					
CO1	To under	stand the clinical and	technical (including, the scien	ce and research) aspects of radiology.					
CO2	To recog	nize basic anatomy ar	nd pathology as seen on imagin	ng studies.					
CO3	Be able to	o interpret major find	ings on Chest X-Ray	~					
CO4	To under	stand procedures & ir	nterpretation of MRI						
CO5	To under	stand procedures, inte	erpretation of CT and safety is	sues in Radiology clinical practice					
Unit No.	Title of t	he Unit		Content of Unit		Contact Hrs.	Map C(ped O	
			1. Image interpretation of va	arious investigations					
	D () CE D		2. History and how medical	image helps					
	IMAGE II	NTERPRETATION	3. What imaging studies rev	veals-Interpretation		4	CC)1	
1									
			1. Procedures for radiograp	hy and nuclear medicine					
2	RAD	IOGRAPHY &	2. Indications and contraind	lications of radiography and nuclear medicine		4	CC)2	
-	NUCLE	EAR MEDICINE	3. Benefits versus Risks and	l Costs					
			1. Indications and Contra in	dications					
			2. How it helps in diagnosis	}					
3	UL	TRASOUND	3. The Findings in Ultrasou	nd		4	CC)3	
			4. Benefits versus Risks and	l Costs.					
			1. Indications and Contra in	dications					
	MAGNE	TIC DESONANCE	2. How it helps in diagnosis	3					
	IMAGNE	GING (MRI)	3. The Findings in MRI			4	00	1	
4	1011		4. Benefits versus Risks and	d Costs		4) 4	
			5. Functional MRI	1					
			1. Indications and Contra in 2. How it halms in diagnosis			4	CC	15	
	C	OMPUTED	2. How it helps in diagnosis	d Tomography		4	CC	15	
5	TOMC)GRAPHY (CT)	4 Benefits versus Risks and	l Costs					
			4. Denentis versus Risks and	1 C0515.					
Refer	ence Books	S:							
1. 1	K. Thayalan	- The Physics of Radiolo	bgy and Imaging						
2. 1	Bushong- Th	ne Essential Physics of N	Aedical Imaging						
3. 1	MRI In Prac	tice-Catherine Westbro	ok & John Tablot						
4. 0	Computed T	omography-Euclid Seer	a - Seienee fen Teeleneleeiste						
	Siewart Carl	yre bushong- Kachologi	c Science for Technologists						
1 httr	s://voutu be	/FHtb2al O8IV							
2. httr	os://youtu.be	$x_0v_zY_{on}2EB0$							
3. http	os://youtu.be	/AwdJqxixkRs							
4. http	s://youtu.be/	m5KL7LXvK5k							

					C	Course A	Articul	ation M	latrix: (Mappin	g of COs	s with PC	s and PS	Os)			
PO-PSO	DO1	DO3			DO5	DOG	DO7	DOS	DOO	DO10	DO11	DO12	DSO1	DSOJ	DSO3	DSO4	DSO5
СО	FUI	FO2	F05	F04	FUS	FUU	FO/	FUo	F09	F010	FOII	FO12	1301	F302	1303	F304	1303
CO1	2	1	3	2	1	1	-	2	2	2	-	2	2	3	3	2	2
CO2	1	2	3	3	3	-	-	1	1	3	-	3	3	3	3	3	1
CO3	1	1	3	3	3	-	-	2	2	2	1	3	2	3	3	3	2
CO4	2	1	3	2	1	2	2	2	1	3	-	3	3	3	2	2	1
CO5	1	2	3	3	3	-	-	1	2	3	1	2	3	3	3	3	1

Course Code	Course Title				Attribute	5			SDGs No.
	UNDERSTANDING OF	Employabilit	Entrepreneu	Skill	Gender	Environment &	Human	Professional	
PT318	DIAGNOSTIC IMAGING	у	rship	Development	Equality	Sustainability	Value	Ethics	
	TECHNOLOGY	V		V			\checkmark	V	3,4,9



Effectiv	e from S	ession: 2023-24										
Course	Code	PT305	Title of the Course	MANUAL THERAPY LAB	L	Т	Р	С				
Year		III	Semester	V	0	0	4	2				
Pre-Rec	quisite	Nil	Co-requisite	Nil								
Course		This course include	des a detailed study of so	ome special techniques of treatment used in Physiotherapy that will help	to ma	ake stud	lents ab	le to				
Objectives treat problems that are related to different systems of the body.												
Course Outcomes												
CO1	To understand the history of Physiotherapy in ancient time as well as modern time, Understand basic concepts of manual therapy, effects and utilization with											
	biomech	anical conceptual &	its application in Physiothe	erapy.								
CO2	To unde	rstand the basic prin	ciples for different school	of thought (Maitland, Mulligan, Keltenborn, Mackenzie,) of Joint mobilizatio	n techr	niques ar	nd proce	dure				
	of applic	cation with proper ma	anner of application with d	osimeters in body by different types of joint mobilization techniques.								
CO3	To unde	rstand the basic prin	ciples for different school	of thought (Butler, Cyriax, PNF, PRT, MET etc) of soft tissue mobilization t	echniqu	ies and	procedui	re of				
	applicati	ion with proper mann	er of application with dosi	meters in body by different types of soft tissue mobilization techniques.								
CO4	To unde	rstand the basic prin	ciples different types of C	ardiopulmonary techniques used for cardiopulmonary dysfunction. At the en	d stude	ent must	know a	bout				
	the prop	er application of CPT	Г in ICU, ICCU.									
CO5	To unde	rstand about the diffe	erent types of manual there	apy concept (Roods, Bobath, PNF, transferring) used in physiotherapy for tre	ating d	ifferent	neurolog	gical				
	physioth	erapy conditions.										

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO			
1	BASIC CONCEPTS IN MANUAL THERAPY	 Practical aspect of manual therapy. Practical aspect of Basis for manual Therapy-Anatomy and biomechanics of the joints, Effects of manual therapy, Biomechanical principles in manual therapy. Implementation of manual therapy over the human body. 	8	CO1			
2	INTRODUCTION TO JOINT MOBILIZATION TECHNIQUES	 Practical aspect of techniques demonstration over the human body of: 1. Maitland concepts and techniques, 2. Mulligan concepts and techniques, 3. McKenzie concepts and techniques. 	8	CO2			
3	INTRODUCTION TO SOFT TISSUE MOBILIZATION TECHNIQUES	 Practical aspect of techniques demonstration over the human body of: 1. Cyriax concepts and techniques, 2. Muscle energy technique, 3. Positional Release Techniques, 4. Taping Techniques. 	8	CO3			
4	MANUAL THERAPY IN CARDIO- PULMONARY	 Practical aspect of techniques demonstration over the human body of: 1. Breathing Exercise techniques, Self-Assisted Coughing Techniques. 2. Postural drainage, its indications and contraindications and its applications. 3. Respiratory muscle training. 4. Airway clearance technique: Active cycle of breathing technique, Autogenic drainage technique. PEP techniques. 	8	CO4			
5	MANUAL THERAPY IN NEUROLOGY	 Practical aspect of techniques demonstration over the human body of: 1. Proprioceptive Neuromuscular Facilitation (PNF). 2. Neural Mobilization: concepts and techniques. 3. Roods Approaches. 4. Transfer Technique. 	8	CO5			
Reference	e Books:						
1. There							
2. S Brent Brotzman. Kevin ewilk clinical orthopaedic rehabilitation							
3. Kessle	r, management of common	musculo skeletal disorders.					

4. Positional Release technique- Leon Chaitow 5. Neurodynamics mobilization technique-Buttler 6. Muscle Energy techniques- Leon Chaitow7. Physical Therapy of the Cervical and Thoracic Spine by Gran 8. Grieve's Modern Manual Therapy 1. <u>https://youtu.be/G_QI7bVrHN0</u> 2. https://youtu.be/QB1I2woyZM0 https://youtu.be/gbi12w6y2Mt https://youtu.be/s9Q9W13ilHY https://youtu.be/mO36BgIY6P8 https://youtu.be/acUZdGd_3Dg 3.

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		Course Articulation Matrix: (Mapping of COs with POs and PSOs) PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02 PS03 PS04 PS05 3 - 3 3 - - 1 - 1 1 - 3 - 1															
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	-	3	3	-	-	1	-	-	-	1	1	-	3	-	1
CO2	2	3	1	2	3	-	-	1	1	2	1	3	2	2	3	2	-
CO3	1	3	2	3	3	-	-	1	1	2	1	2	2	3	2	3	-
CO4	1	3	2	2	3	-	-	1	2	2	-	3	3	2	3	2	1
CO5	1	3	3	3	3	-	-	1	2	2	1	3	2	3	2	3	-

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

Attributes & SDGs

l	Course Code	Course Title			Attı	ributes				SDGs No.
I	PT305	MANUAL THERAPY	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
		LAB	\checkmark	\checkmark	√			√	\checkmark	3,4



Effectiv	ective from Session: 2023-24																
Course	Code	P	T306	T	Title of the Course BIOMECHANICS & KINESIOLOGY LAB										I	_ T	P C
Year	•••	NT'1	III	S	Semeste	<u>er</u>		NT'1				V) 0	2 1
Pre-Reg	quisite	N1I			Co-requisite Nil										11.1.1.4.		1
Objectiv	VOC	This c	ourse 11	that a	les a detailed study of some special techniques of treatment used in Physiotherapy that will tare related to different systems of the body.										II nelp to	make stud	ients able to
Objectiv	ves	ucat p	1001cm	s tilat a		u to un	iciciit s	ystems	or the	oury.							
CO1	The sta		11 11	1. 4. 1.	1	:		1 1 .	Cours	e Outco	mes	·	1:40 1:000	1			
	The stu	ident wi	will be able to learn basic anatomy of shoulder complex eroow and forearm and its biomechanics.											echanics.			
C02	The stu The stu	ident wi	ill be at	le to le	arn bas	ic arth	rology	of Hin	and not	vis com	lev and	its biome	chanics.				
C03	The stu The stu	ident wi	ill be at	le to le	o learn basic arthrology of Hip and pelvis complex and its biomechanics.												
CO4	The stu The stu	ident wi	ill be at	ble to le	earn bas	ic arth	rology	of cerv	ical. Th	orax and	1 Lumba	r.	Tomeenum	C 5.			
TT *4					o learn basic annrology of cervical, i norax and Lumbar.											<u> </u>	
No.	Titl	le of the	Unit							Conten	t of Unit					Hrs.	CO
				Pr	actical	aspects	or den	nonstra	tion of	biomech	anical co	oncepts on	below join	nts:			
	AR	THROL	.OGY	1.	Should	er	con	nplex (Glenoł	numeral,	Sterno	clavicular	, Acromi	oclavicular,	and		
1	AND I	KINEM	ATICS	,	Scapulo	othorac	ic).	•								4	COI
	KINI	encs	JF UL	2.	Elbow	and for	earm (S	Superio	r Radio	o ulnar. I	Radiohun	neral & U	lnohumera	1).			
	4 D 7		OCV	Pr	actical	aspects	or den	nonstra	tion of	biomech	anical co	ncepts on	below join	nts:			
2		I HKOL KINEM		1.	Wrist	comp	lex (R	adio c	arpal &	z Interc	arnal).	1	J			4	CO2
2	KINI	ETICS (OF UL	, 1.	Hand	comp	lev (C	arnom	etacarı	al Met	acarnon	halangea	1)			-	002
			01 02	2. Da	antical	comp	on dan	arpoin	tion of	hiomooh	acarpop		u)	ata			
	AR	THROL	.OGY	1				1011511.4		biomecn		incepts on	below join	ns.			~ ~ ~
3	AND I	KINEM	ATICS	, 1.	Hip, I	Pervic	(Sacro	mac j	$(\sin t) \delta$	Č.						4	CO3
	KINI	encs	OF LL	2.	2. Knee												
	AR	THROL	.OGY	Pr	actical	aspects	or den	ionstra	tion of	biomech	anical co	oncepts on	below join	nts:			
4	AND I	KINEM	ATICS	, 1.	Ankle	e										4	CO4
	KINI	ETICS (OF LL	2.	Foot	Compl	lex (Sı	ıbtalar	, Tarso	metatai	sal, Me	t tarsoph	alangeal)				
				Pr	actical	aspects	or den	nonstra	tion of	biomech	anical co	ncepts on	below join	nts:			
	AR	THROL	.OGY	1.	TMJ												
5	AND I	KINEM	ATICS	, 2.	Cervi	cal.										4	CO5
5	KI	NETICS	S OF	2.	Thore	v and										4	005
	AX	IAL JO	INTS	5.	Lumk												
				4.	Luiiit	Jai											
Referenc	e Books:																
1. Join	nt Structu	ire and l	Functio	$\frac{n - A}{1}$	compre	hensive	e Analy	sis, By	Cynthi	a Norkii	1S.	1 1	et z 1' - E	11007			
2. Clim	Cal Kine	stology	for Phy	sical I	herapis	st Assis	stants, J	P Bros	Medic	al Publis	hers, Bai	ngalore, I	st Indian E	11997			
J. Dasio	c blome		Expiair	hologic	ow & K	ion - Science (1)	oderber	oful n		11							
5. There	apeutic F	Exercise	by Ca	olvn K	isner. H	F. A. D	avis.	g Lipp	meon								
6. Basic	c Biomec	chanics.	Nordir														
7. Basic	c Biomec	chanics	& clini	cal <u>Ki</u> n	esiolog	y. Otis											
8. Bion	nechanics	s of Hui	nan Mo	ovemer	nt. D W	inter											
e-Learn	ning Sour	ce:	701/11/2														
1. <u>http</u>	os://youtu	$\frac{1.be}{1.58}$	<u>/3VW2</u> -19 V 11	<u>ohw</u>													
2. <u>Intp</u> 3. http	s://youtu	$\frac{1.0e}{gQ}$	$\frac{1011L}{1013Tc}$	<u>Ewi</u> Rik													
4. http	os://youtu	$be/0R^2$	zRSE	-40	<u>40</u>												
5. <u>http</u>	os://youtu	.be/EE	<u>W</u> a <u>M</u> -	lpQk													
						C				• 77							
DO DOO						Cours	se Arti	culatio	n Mati	nx: (Ma	pping of	COs wit	n POs and	PSOs)			
<u>P0-P80</u>	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	3	1	3	-	-	-	1	-	2	-	2	3	3	2	3	-
CO2	1	3	2	2	-	-	-	-	-	3	-	3	2	3	1	2	
CO3	1	3	3	2	-	-	-	2	-	2	-	2	3	2	1	2	-
CO4	1	3	2	2	-	-	-	-	-	3	-	3	2	3	2	2	-
CO5	1	3	3	1	-	-	-	-	-	2	-	3	3	2	2	3	-

 1
 2
 3
 3

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

Course Code	Course Title		Attributes										
	DIOMECHANICS &	Employab	Entrepre	Skill	Gender	Environment &	Human	Professional					
PT306	KINESIOLOGY LAB	ility	neurship	Development	Equality	Sustainability	Value	Ethics					
		√	√	√			V	\checkmark	3,4,9				



Effecti	ve from Ses	sion: 2021-22							
Course	e Code	PT308	Title of the Course	CLINICAL POSTING	L	Т	Р	С	
Year		III	Semester	V	0	0	10	5	
Pre-Re	equisite	Nil	Co-requisite	Nil					
Course	Students will engage in clinical practice in Physiotherapy departments in the musculoskeletal, neurology, cardiopulmonary,								
Object	jectives sports settings to enhance their clinical skills and apply contemporary knowledge gained during teaching sessions.								
			C	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	To develop appropriate treatment protocol.								
CO4	To understand the importance of documentation of the case record and case presentation.								
CO5	To develop	discipline and improve of	overall quality of clinica	l work.					

CLINICAL POTING ASSESSMENTN FORM

Name of St	udent:		Session:	
Enrolment	Number:		Date:	
Name of Su	ıbject:	Clinical Posting	Subject code:	PT308
Topics:				
S. No.	Point to be	Considered	Max. Marks	Marks Obtained
1.	Punctuality	1	4	
2.	Interaction	with colleagues and supporting staff	2	
3.	Maintenand	ce of case records	3	
4.	Presentatio	n of case during rounds	2	
5.	Investigatio	on work up	2	
6.	Bedside Ma	anners	2	
7.	Rapport wi	th patients	2	
8.	Treatment a	approach & technique	3	
9.	Discipline		2	
10.	Overall qua	ality 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 Morka
3.	DP1	IVth Year/ VII th Semester		(1 Long Case and 2 Short Case)	25 Marks	5 Marks
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
C01	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								
PT308	CLINICAL POSTING	Emplo yability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics			
		√	√	√			√	√	3,4,11		



INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH

DEPARTMENT OF PHYSIOTHERAPY

BACHELOR OF PHYSIOTHERAPY

(BPT)

SYLLABUS

YEAR/ SEMESTER: III/VI



Integral University, Lucknow Department of Physiotherapy <u>Study and Evaluation Scheme</u>

* * *

DDT

	Program: BP I											Semest	er-vi
S.	Course	Course Title	Type of	F hr	Period Po /week/s	er Sem		Evalu	ation Sche	eme	Sub. Total	Cradit	Total
IN.	code	course ride	Paper	L	Т	Р	СТ	TA	Total	ESE		creat	Credits
					THE	ORIES							
1	PT309	Regional Orthopaedics	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	PT310	Clinical Neurology & Neurosurgery	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	PT311	Physical & Functional Diagnosis	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	PT312	Physiotherapy in Medical, Surgical, Obstetrics & Gynecological Condition	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	PT319	Clinical Pulmonology	Core	2	1	0	40	20	60	40	100	2:1:0	3
					PRAC	TICAL							
1	PT313	Physical & Functional Diagnosis -Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	PT314	Physiotherapy in Medical, Surgical, Obstetrics & Gynecological Condition - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	PT316	Clinical Training	Core	0	0	10	25	25	50	00	50	0:0:5	5
	Total		14	05	14	305	165	470	280	750	25	26	

S.	Course	rse Type				Attrib	utes				United Nation Sustainable
N.	code	Course Title	of Paper	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Development Goal (SDGs)
THE	ORIES										
1	PT309	Regional Orthopaedics	Core	\checkmark		\checkmark			\checkmark	\checkmark	3,4
2	PT310	Clinical Neurology & Neurosurgery	Core	√		\checkmark			√	√	3,4
3	PT311	Physical & Functional Diagnosis	Core	√	\checkmark	√			√	√	3,4,9
4	PT312	Physiotherapy in Medical, Surgical, Obstetrics & Gynecological Condition	Core	V	\checkmark	√	V		V	\checkmark	3,4
5	PT319	Clinical Pulmonology	Core	√		\checkmark			√	~	3,4
PRAC	TICAL										
1	PT313	Physical & Functional Diagnosis -Lab	Core	\checkmark	\checkmark	√			√	√	3,4,9
2	PT314	Physiotherapy in Medical, Surgical, Obstetrics & Gynecological Condition - Lab	Core	V	\checkmark	√	V		V	\checkmark	3,4
4	PT316	Clinical Training	Core	\checkmark	\checkmark	\checkmark			\checkmark	√	3,4,11

L: Lecture T: Tutorials P: Practical CT: Class Test TA: Teacher Assessment ESE: End Semester Examination,

AE= Ability Enhancement, DSE- Discipline Specific Elective, Sessional Total: Class Test + Teacher Assessment

Subject Total: Sessional Total + End Semester Examination (ESE)



Effective from Session: 2023-24												
Course Code	PT309	Title of the Course	REGIONAL ORTHOPAEDICS	L	Т	Р	С					
Year	III	Semester	VI	3	1	0	4					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The objective of this	course is that the studer	nt will be able to demonstrate an understanding of orthopaed	ic con	ditions	s causin	g					
Course Objectives	disability and their management.											

	Course Outcomes
CO1	Shoulder and Elbow: Students will understand about basic concept of assessment and medical management of shoulder and Elbow disease and
	dysfunctions.
CO2	Wrist and Hand: Students will understand about basic concept of assessment and medical management of wrist and hand disease and
	dysfunctions.
CO3	Knee, Ankle and Foot: Students will understand about basic concept of assessment and medical management of knee, ankle and foot disease and
	dysfunctions.
CO4	Hip and Spine: Students will understand about basic concept of assessment and medical management of hip and spine disease and dysfunctions.
CO5	Rheumatology and Nerve Injury: Students will understand about basic concept of assessment and medical management of Rhumatological
	disorders and peripheral nerve injury of upper and lower limb.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	SHOULDER AND ELBOW	Clinical features, etiology, Incidence, Pathology, clinical test, investigation, management: Frozen Shoulder and Rotator Cuff Disease, Tennis Elbow Golfer Elbow Student Elbow, Pulled Elbow Cubitus Varus Cubitus Valgus, Pronator Teres Syndrome Radial Tunnel Syndrome	8	CO1
2	WRIST AND HAND	Clinical features, etiology, Incidence, Pathology, clinical test, investigation management: Carpal Tunnel Syndrome, Ulnar Tunnel Syndrome, Dupuetryn's Contracture, Madlung's deformity, Dequervain's Disease, Ganglion, Trigger finger, Thumb and Mallet finger	8	CO2
3	KNEE, ANKLE AND FOOT	Clinical features, etiology, Incidence, Pathology, clinical test, investigation, management: Knee Osteoarthritis, Chondromalacia patella, meniscopathy, Genu Varus, Genu Valgus, Genu recurvatum, CTEV, Flat Foot Pes Cavus, Plantar fasciitis, Metatarsalagia, Hallux valgus, Hallux varus	8	CO3
4	HIP AND SPINE	8	CO4	
5	RHEUMATOLOGY AND NERVE INJURY	Gout, Rheumatoid Arthritis, Ankylosing Spondylitis, Psoriatic Arthritis, Basic of nerve injury, Brachial Plexus injury,	8	CO5
Refer	ence Books:			
1. Te	xtbook of Orthopaedics: Ko	otwal and Natrajan		
2. Es	sential Orthopaedics: Mahe	shwari		
3. Ou	tline of Fracture: Adams			
4. Ap	ley, Systems of Orthopaed	ics and Fracture		
5. Es	sential Clinical Orthopaedio	cs by John Ebenezer		
e-Le	earning Source:			
1. <u>ht</u>	tps://youtu.be/5zpXbvEf9j0			
2. <u>ht</u>	tps://youtu.be/z-SeJh5-nOo			

<u>https://youtu.be/Q-a1-82f5Is</u>
 <u>https://youtu.be/NHJG_D6cuiM</u>

	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	DGOS
СО		102	100	10.	100	100	10/	100	10/	1010	1011	1012	1001	1001	1505	1501	PSO5
CO1	1	3	3	2	-	-	-	-	1	2	1	2	3	-	2	2	1
CO2	2	3	2	1	-	-	-	1	-	3	-	3	3	-	1	3	-
CO3	1	3	3	1	-	-	-	-	-	3	1	3	3	-	3	2	1
CO4	1	3	2	2	-	-	-	1	1	2	-	2	3	-	2	3	1
CO5	2	3	3	1	-	-	-	-	-	3	-	3	3	-	3	3	-

Course Code	Course Title		Attributes										
	DECIONAL	Employability	Entrepre	Skill	Gender	Environment &	Human	Professional					
PT309	ODTHODAEDICG	Employability	neurship	Development	Equality	Sustainability	Value	Ethics					
	ORTHOPAEDICS	\checkmark		√			√	√	3,4				



Effective from Se	ssion: 2023-24											
Course Code	PT310	Title of the Course	CLINICAL NEUROLOGY & NEUROSURGERY	L	Т	Р	С					
Year	III	Semester	VI	3	1	0	4					
Pre-Requisite	Nil	Co-requisite	Nil									
Course	The objective of	e objective of this course is that the students will be able to demonstrate an understanding of neurological condition causing										
Objectives	disability and th	eir management.										

	Course Outcomes											
CO1	Understanding and importance of neurological anatomy and physiology about structure, course and function of neuron, different tracts,											
	cerebrum, and cerebellum, spinal cord, plexuses & blood supplies.											
CO2	Understanding about etiology, clinical presentation, and management of congenital & pediatric disease of brain & spinal cord.											
CO3	Understanding about etiology, clinical presentation, and management of stroke & infectious disease of CNS & its complication.											
CO4	Understanding about etiology, clinical presentation, and management of movement disorders & Demylinating disease.											
CO5	Understanding about traumatic injury of brain, spinal cord and nerves with its complication impairment & disability and their management.											

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	CEREBROVASCU LAR ACCIDENT AND BRAIN TUMORS	Classification, epidemiology, etiology, clinical presentation, and medical & surgical management of: 1. Blood supply of the brain 2. Stroke 3. Brain Tumor	8	CO 1
2	CONGENITAL & CHILDHOOD DISORDERS	 Classification, epidemiology, etiology, clinical presentation, and medical & surgical management of: 1. Cerebral palsy. 2. Hydrocephalus 3. Spina Bifida 4. Syringomyelia. 5. Muscular dystrophy 	8	CO 2
3	INFLAMATORY & INFECTIOUS CONDITIONS	Classification, epidemiology, etiology, clinical presentation, and medical & surgical management of: 1. Meningitis 2. Encephalitis 3. Brain abscess 4. Poliomyelitis.	8	CO 3
4	DEGENERATIVE & DEMYLINATING DISEASES (CENTRAL AND PERIPHERAL)	Classification, epidemiology, etiology, clinical presentation, and medical & surgical management of: 1. Parkinson's disease 2. Hyperkinetic disorder 3. Multiple sclerosis 4. Guillain – Barre Syndrome. 5. Transerverse myelitis.	8	CO 4
5	TRAUMATIC NEUROLOGY	 Head injury Spinal cord injury Peripheral nerve injury- mechanism, classification, and management. 	8	CO 5
Refer	ence Books:			
1. Ne	eurology and neurosurg	gery illustrated - Kenneth W Lindsay, Ian Bone		
2. Cl	inical Neuroanatomy -	KICHARD S. Shell		
3. Br	derbir Singh's Textboo	nical neurology - Sil Koger Bannister		
5. Te	extbook of Clinical Net	rology -Christopher G. Goetz		
6. Ac	lams and Victor's Prine	ciples Of Neurology - Allan H. Ropper and Martin A. Samuels (R)		
7. Br	ain's Diseases of the N	ervous System - Michael Donaghy and McClatchy, Greg Chikwe, Joanna Borley, Neil (R)		
8. Ph	ysical Rehabilitation -	Susan O'sullivan(R)		
e-Le	earning Source:			
1. <u>htt</u>	ps://youtu.be/D1zkVB	HPh5c		
2. <u>ht</u>	ps://youtu.be/hQwT97	Hl6ss		

3. https://youtu.be/2IgFri0B85Q

						Cours	se Arti	culatio	n Matı	rix: (Ma	pping of	f COs wit	h POs and	l 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	1001	1502	1505	1501	1505
CO1	1	3	3	1	-	-	-	-	1	1	1	2	3	-	2	2	1
CO2	2	3	2	1	-	-	-	1	-	2	-	3	3	-	1	3	-
CO3	1	2	3	1	-	-	-	-	-	3	1	3	3	-	3	2	1
CO4	1	2	2	1	-	-	-	1	1	2	-	2	3	-	2	3	1
CO5	2	3	3	1	-	-	-	-	-	3	-	3	3	-	3	3	-

Course Code	Course Title		Attributes											
	CLINICAL	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional						
PT310	NEUROLOGY	yability	neurship	Development	Equality	Sustainability	Value	Ethics						
	&NEUROSURGERY	√		√			\checkmark	\checkmark	3,4					



Effect	Effective from Session: 2023-24 Course Code PT 311 Title of the Course PHYSICAL & FUNCTIONAL DIAGNOSIS L T P C													
Cours	e Code	PT 31	1	Title of the Co	ourse	PHYSICAL & FUNCTIONAL DIAGNOSIS	L	Т	P C					
Year		III		Semester		VI	3	1	0 4					
Pre-R	equisite	Nil		Co-requisite		Nil								
Cours	se	Physical and Fu	nctional Dia	gnosis focuses on	the basic	c assessment skills for physical and Functional diagnosis i.e. Mus	culos	celetal, N	eurological					
Objec	tives	Cardiovascular H	Respiratory a	nd Sports in order t	to study t	the various impairments and their impact on activity and participation	on of t	he individ	ual					
					С	ourse Outcomes								
CO1	Acquire	fundamental and	ł advance k	nowledge in Phy	sical Di	iagnosis and Functional Diagnosis.								
CO2	Demons	trate comprehen	sive genera	assessment tech	iniques a	and interpret the findings.								
CO3	Use prob	olem solving prin	nciples and	evidence-based I	practice	in decision making in assessment and management of patier	nts.							
CO4	Understa	and the use of ap	propriate to	ools or instrumen	ts of as	sessment for diagnosis in musculoskeletal, neurological, car	diopu	ılmonary	problems					
	and in va	arious medical a	nd surgical	conditions.										
C05	Evaluate	e and analyses pr	iysical fitne	ss and physiolog	ical asp	ect of physical rehabilitation.								
Unit	Title	of the Unit				Content of Unit		Contact	Mapped					
No.	1100							Hrs.	CO					
	INTROL	DUCTION OF	Physical I	Diagnosis and Fu	inctional	I Diagnosis, its importance in clinical practice, Subjective								
1	FUN	CTIONAL	examinat	ion & Objective	examin	ation & its importance in Physiotherapy. Assessment of Pa	ain	8	CO1					
	DIA	GNOSIS	æ us imp	ortance in Filysic	Julei apy	y.								
			Selective	Tissue Tension	Test (S	TTT): Clinical aspects of ROM Examination, Joint end fe	el,							
			capsular	pattern and nor	n-capsu	lar pattern, Muscles girth & Limb Length Measureme	ent							
	ESSENT	IAL ASPECTS	Technique	es, Sensory& M	lotor Ex	xamination: examination Techniques and clinical reasoning	ng,							
2	FOR FOR FOR FOR FOR FOR FOR FOR FOR FOR													
2	FORMULATING FORMULATING Explored and solution solution because of superficial and deep reflexes. Clinical Implications of Manual Muscle Testing													
	DIAGNOSIS techniques of superficial and deep reflexes. Clinical Implications of Manual Muscle Testing (MMT) Body Angle measurement techniques and its clinical reasoning. Tightness, Contracture													
			and Defor	mity, Its clinica	l impor	tance in physiotherapy, Balance & Coordination tests and	its							
			clinical re	asoning.	1	1 5 15								
	EUNCTION		Functiona	l Diagnosis meas	sures: F	unctional Activity Specific Assessment-FIM, ADLs scales,								
3	& MEA	SUREMENT	Assessme	nt of health and	wellness	s: SF-36, Health Questionnaires for quality of life, Special		8	CO3					
-	S	CALES	Investigat	ions: Basic Princ	ciples an	ad application of investigative and imaging techniques in		-						
	SDECIA	L SETTINGS	Physiothe	rapy: X-ray, CI,	MRI, U	JSG, PF1, and ECG.								
	AND	SPECIAL	functional	limitations: disa	DH, ICI ability ar	nd handican: definition of functional activity and the purpose	, 							
	CONSIDE	RATIONSPHY	and comp	onents of the fun	ctional:	assessment	20							
4	SICAL	DISABILITY	Outcome	measures for mu	sculoske	eletal system examination, neuromuscular system		8	CO4					
	EVALU	ATION AND	examinati	on, cardiopulmo	nary sys	stem examination, Sports related examination with technique	s							
	DIA	GNOSIS	and clinic	al reasoning.										
	ASS	ESSMEN	Anthropo	metry, Agility A	Assessm	nent, Evaluation of Aerobic fitness, Evaluation of muscu	lar							
5		TO	endurance	e and strength,	Assessi	ment of Physical fitness: Flexibility, Strength, Endurand	ce,	8	CO5					
	FI	TNESS	Agility, S	peed, reaction tir	ne, pow	ver, Exercise Tolerance Testing.								
Refer	ence Books	S:	History or 1	wamination by M.	where the C	voetz								
1. 1 2. Pl	hysical Diag	nosis Secrets: Salv	a Tore Mana	tione MD	ањ п. 39	Nattz								
3. 0	rthopaedic F	Physical Assessmen	nt, Magee DJ	. 5th edition. Saund	ders									
4. M	luscles: Test	ing and Function,	with Posture	and Pain: 5th edition	on. Kend	all FP; McCreary et al. Lippincott Williams and Wilkins								
5. P	ractical Exer	cise Therapy: 3rd	edition. Holli	s M; Cook PF. Wi	ley-Blacl	kwell								
6. P	nysical Medi	for Respiratory a	ation: Susan	O Sullivan	d Paediat	trics 3rd ed Pryor IA Webber BA London: Churchill Livingstone	2002							
8. P	hysical Reha	bilitation. Assessn	nent and Trea	tment: 5th Edition	. Sulliva	n SO; Schmitz TJ. F.A. Davis Company	,2002							
9. D	aniels and W	orthingham's Mus	scle Testing:	Techniques of Mar	nual Exai	mination. 8th edition. Hislop H; Montgomery J. Saunders Publication	on							
10. T	herapeutic E	xercise: 6th edition	n. Carolyn K	Kolby. Jaypee Bro	others M	ledical Publishers								
e-Le	earning So	urce:												
1. <u>htt</u>	ps://youtu.be	e/x0vzVoplEB0												
3. htt	ps://youtu.b	e/AwdJqxixkRs ht	tps://youtu.b	e/m5SL7LXvK5k										
					_									
				Course Artic	ulation	Matrix: (Mapping of COs with POs and PSOs)								

					Ľ	Jourse 1	Arucuia	ation iv	aurix:	wiappin	ig of CO	s with PC	is and PS	bUs)			
PO-PSO	DO1	DO3	DO3	DO4	DO5	DO6	DO7	DOS	PO0	DO10	DO11	DO12	DSO1	DSOJ	DSO2	DSO4	DSOS
CO	FOI	FO2	F05	r04	105	100	F07	100	F09	FOID	FOIT	FO12	1301	F302	1303	F304	1303
CO1	2	1	3	2	1	1	-	2	2	2	-	2	2	3	3	2	2
CO2	1	2	3	3	3	-	-	1	1	3	-	3	3	3	3	3	1
CO3	1	1	3	3	3	-	-	2	2	2	1	3	2	3	3	3	2
CO4	2	1	3	2	1	2	2	2	1	3	-	3	3	3	2	2	1
CO5	1	2	3	3	3	-	-	1	2	3	1	2	3	3	3	3	1

Course Code	Course Title				Attribut	es			SDGs No.
		Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT311	PHYSICAL & FUNCTIONAL	yability	neurship	Development	Equality	Sustainability	Value	Ethics	
	DIAGNOSIS	√	√	√			√	√	3,4,9



Effective from S	ession: 2023	3-24										
Course Code	PT 312	Title of the Course	PHYSIOTHERAPY IN MEDICAL, SURGICAL, OBSTETRICS & GYNAECOLOGICAL CONDITION	L	Т	Р	С					
Year	III	Semester	VI	3	1	0	4					
Pre-Requisite	Nil	Co-requisite	Nil									
Course	The object	ive of this course is that t	he students will be able to demonstrate an understanding of general medic	al, ger	neral sur	rgical,						
Objectives	obstetrics a	bstetrics & gynecological conditions.										

	Course Outcomes
CO1	Demonstrate a general understanding of the condition that therapists would encounter in their practice like diabetes, obesity, edema,
	inflammation and skin disorders
CO2	Role physiotherapy in general surgeries of abdomen, transplants and burn.
CO3	Elaborate broad outline of goals of pharmacological and surgical therapy imparted in oncological conditions in which physical therapy will be an
	important component of overall management
CO4	Understand the anatomy, physiology and various conditions in obstetrics and gynecological conditions relevant to physiotherapy.
CO5	Assess and provide physiotherapeutic techniques in obstetrics and gynecological conditions for relief of pain, relaxation, conditioning and
	posture.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	PHYSIOTHERAPY IN MEDICAL CONDITION	 Review of the pathological changes and principles of management by Physiotherapy in the following conditions (a) Inflammation-acute, chronic and suppurative, (b) Edema – Traumatic, obstructive, paralytic, edema due to poor muscle and laxity. Diabetes Mellitus & Its Physiotherapy Managements. (d) Obesity & Its Physiotherapy Managements (e) Common condition of Skin – Acne, Psoriasis, Alopaecia, Leucoderma, Leprosy. 	8	COI
2	PHYSIOTHERAPY IN SURGICAL CONDITION	Review of the pathological changes and principles of pre and postoperative management by Physiotherapy of the following conditions(a) Common abdominal and transplant surgeries, including, liver, kidney, bladder, bone marrow, (b) Common reconstructive surgical procedures for the management of wounds, ulcers, Burns and consequent contractures and deformities. Assessment and Haemo-dynamics, of Cardiac surgeries with patients of Heart Transplantation its ICU care management and physiotherapy treatment.	8	CO2
3	PHYSIOTHERAPY IN ONCOLOGY	Overview of oncology, staging and grading, Common oncological condition of musculoskeletal & their Principles of Management, Common oncological condition of different system-breast, Liver and Brain, Principles of Management Lymphedema and its management	8	CO3
4	CLINICAL OBSTETRICS AND GYNECOLOGYCO NDITIONS	 Physiology of Puberty & Menstruation, Abnormalities & common problems of Menstruation, Principles of clinical examination, investigation diagnosis and prognosis in female reproductive system disorders. Methods of family planning Nutrition and exercise for women's health. Events of 1st IInd & IIIrd Stages of labour, Pre, Peri & Post Menopause - Physiology, Complications & management, Surgical considerations in Obstetrics and Gynecology 	8	CO4
5	PHYSIOTHERAPY IN OBS AND GYNECOLOGICAL CONDITION	Overview of pregnancy, Pelvic inflammatory Diseases, Prolapse Uterus, Incontinence, Diastasis recti, Low back and pelvic pain, varicose veins, Recent innovations in treatment of stress urinary incontinence., compression syndrome, Exercise during pregnancy (Ante natal and Post Natal – Puerperium, lactation, Methods of Contraception complications of repeated child bearing with small gaps with Physiotherapy management) Effects of aerobic exercise during pregnancy, Maternity Blues.	8	CO5
Referen	nce Books:			
1. T	herapeutic Exercise by C	arolyn Kisner		
2. P	hysiotherapy in Gynaecol	logical & Obstetrical Conditions-Polden		
<u>3.</u> D	Putta, Text book of Gynec	ology, New Central Book Agency		
4. E	ssential of Obstetrics and			
1. h	ttps://voutu.be/adkrWO8sWl	FU		
2. <u>h</u>	attps://youtu.be/qOT_HpqYN	<u>16s</u>		

		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
СО	101	102	105	104	105	100	10/	100	10)	1010	1011	1012	1501	1502	1505	1504	1505
CO1	1	3	3	2	1	1	2	1	1	2	-	3	2	3	2	1	1
CO2	2	3	2	2	2	1	2	2	-	2	-	2	3	3	2	2	2
CO3	2	3	2	1	2	3	3	1	2	3	2	3	2	3	3	2	1
CO4	1	3	1	2	2	3	2	1	2	3	2	3	3	2	2	1	1
CO5	2	2	3	3	3	2	2	1	2	2	-	2	3	3	2	1	1

Course Code	Course Title		Attributes							
	PHYSIOTHERAPY IN MEDICAL,	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional		
PT312	SURGICAL, OBSTETRICS &	yability	neurship	Development	Equality	Sustainability	Value	Ethics		
1 1012	GYNAECOLOGICAL CONDITION	V	√	√	\checkmark		\checkmark	\checkmark	3,4	



Effective from Session: 2023-24											
Course Code	PT319	Title of the Course	CLINICAL PULMONOLOGY	L	Т	Р	С				
Year	III	Semester	VI	2	1	0	3				
Pre-Requisite	Nil	Nil Co-requisite Nil									
Course Objectives	The objective of this an understanding of (The objective of this course is that after lectures and demonstration in addition to clinics the student will be able to demonstrate in 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 cardiopulmonary 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. 	3	CO1				
2	CARDIO-VASCULAR	 Hypertension, I.H.DMyocardial Infarction Arrhythmia, Congenital Heart Disease Infective Endo Carditis, Brief about ECG – Normal & Variations due to ischemia & infarction. 	3	CO2				
3	HEMATOLOGICAL CONDITIONS	 Anaemia, Leucopenia, Leucocytosis, Thrombocytopenia, DVT, & Thrombotic disorders, Leukemia, Thalassemia, Heamophilia 	3	CO3				
4	RESPIRATORY SYSTEM	 Common Infectious diseases: Pneumonia, Lung Abscess, Bronchiectasis, Pleural Effusion, Pneumothorax., Hydropneumothorax, Empyema. Restrictive Lung Diseases Interstitial Lung Diseases Occupational Lung Diseases: Silicosis Asbestosis, Pneumoconiosis, Brucellosis, Farmer's Lung. Obstructive Lung Diseases: COPD, Bronchial Asthma, Introduction of clinical examination, Breath Sounds, X Ray Chest, Blood Gas Analysis. 	3	CO4				
5	COMMON INVESTIGATIONS AND SURGERIES OF CARDIOTHORACIC CONDITION	 CAG, PTCA & CABG Bronchoscopy ECMO Pneumonectomy 	3	CO5				
Referen	ce Books:	Chast Heart & Vesenler Disesses Dublisher Mashy						
2. Car	diovascular And Pulmonary Physical 7	Cherapy Evidence to Practice: Donna Frown felter. Elsevier						
3. Phy	siotherapy for Respiratory and Cardiac	Problems: Jennifier & Ammani, Churchill Livingstone/Elsevier.						
4. Clii	4. Clinical Application of Mechanical Ventilation, CENGAGE Learning							
e-Lear	ning Source:							
1. <u>https</u>	://youtu.be/Bt0axxrpDlTd8							
2. <u>https</u> 3. https	://youtu.be/hpwnnir-ZHBU ://youtu.bee/KHyfdKyw2I8							

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	10,	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

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

Attributos	& SDCc
Altributes	& SDUTS

Course Code	Course Title		Attributes							
	CLINICAL PULMONOLOGY	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional		
PT403		yability	neurship	Development	Equality	Sustainability	Value	Ethics		
		√	√	\checkmark			√	√	3,4	



Effective from Session: 2023-24								
Course Code	PT313	Title of the Course	PHYSICAL & FUNCTIONAL DIAGNOSIS LAB	L	Т	Р	С	
Year	III	Semester	VI	0	0	2	1	
Pre-Requisite	Nil	Co-requisite Nil						
Course Objectives	Students will be able to do Interpretation of common investigations used for functional diagnosis							

	Course Outcomes
CO1	Understand the use of diagnosis for physiotherapy practice.
CO2	To learn the applied aspect of the subject for physiotherapy practice.
CO3	Monitor and reassess the patient progress and modify treatment plan.
CO4	Understand the use of basic assessment skills and appropriate tools or instruments for diagnosis in various diseases and disorders.
CO5	Make clinical decision and plan for effective treatment.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	INTRODUCTION OF PHYSICAL AND FUNCTIONAL DIAGNOSIS	Physical Diagnosis and Functional Diagnosis, its importance in clinical practice, Subjective Examination & Objective examination & Its Importance in Physiotherapy. Assessment of Pain & Its Importance in Physiotherapy.	4	CO 1
2	ESSENTIAL ASPECTS FOR FORMULATING DIAGNOSIS	Demonstration of various selective Tissue Tension Test (STTT).	4	CO 2
3	FUNCTIONAL DIAGNOSIS & MEASUREMENT SCALES	Administration and interpretation of Functional Diagnosis measures: Functional Activity Specific Assessment-FIM, ADLs scales,SF-36, Health Questionnaires for quality of life, Special Investigations: Clinical relevance of investigative and imaging techniques in Physiotherapy: X- ray, CT, MRI, USG, PFT, and ECG	4	CO 3
4	SPECIAL SETTINGS AND SPECIAL CONSIDERATIONSPHYSI CAL DISABILITY EVALUATION AND DISABILITY DIAGNOSIS	Clinical aspects of Functional evaluation: ICIDH, ICIDH2 and ICF Administration and interpretation of Outcome measures for musculoskeletal system examination, neuromuscular system examination, cardiopulmonary system examination, Sports related examination with techniques and clinical reasoning.	4	CO 4
5	ASSESSMEN TO FITNESS	Demonstration of Anthropometry, Agility Assessment, Evaluation of Aerobic fitness, Evaluation of muscularendurance and strength, Assessment of Physical fitness: Flexibility, Strength, Endurance, Agility, Speed, reaction time, power, Exercise Tolerance Testing	4	CO 5
Refere	ence Books:			
1. Tex	tbook of Physical diagnosis:	History and examination by Mark H. Swartz		
2. Phy	sical Diagnosis Secrets: Salv	a Tore Mangione MD		
3. Ort	hopaedic Physical Assessment	nt, Magee DJ. 5th edition Saunders		
4. Mu	scies: Testing and Function,	with Posture and Pain: 5th edition. Kendall FP; McCreary et al. Lippincott williams and wilkins		
5. Pra	cical Exercise Therapy: 3rd	edition. Hollis M, Cook PF. wiley-Blackwell		
0. T Hy 7 Phy	sical Rehabilitation Assess	anon. Susan O Sunivan nent and Treatment: 5th Edition Sullivan SO: Schmitz TL E A Davis Company		
8. Dar	iels and Worthingham's Mus	scle Testing: Techniques of Manual Examination, 8th edition, Hislon H: Montgomery J. Saunders P	ublication	
e-Le	arning Source:		activation	
1. h	ttps://youtu.be/EHtb2aLH8IY			
2.	https://youtu.be/x0vzYoplEB0			
3.	https://youtu.be/AwdJqxixkRs			

4. https://youtu.be/m5SL7LXvK5k

						Cours	se Arti	culatio	n Mati	rix: (Ma	pping of	f COs wit	h POs and	l 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	1	1	3	1	1	1	-	1	2	2	-	2	2	3	2	2	2
CO2	1	2	3	3	3	-	-	1	1	3	-	3	3	3	3	3	1
CO3	1	2	3	2	3	-	-	2	2	3	1	3	2	3	2	3	2
CO4	2	1	3	2	1	2	2	2	1	3	-	3	3	3	2	2	1
CO5	1	2	3	3	3	-	-	1	2	3	1	2	3	3	3	3	1

3 5 1 2 3 1 2 3 1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation Attributes & SDGs

Course Code	Course Title	Course Title Attributes											
	PHYSICAL &	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional					
PT313	FUNCTIONAL	yability	neurship	Development	Equality	Sustainability	Value	Ethics					
	DIAGNOSIS LAB	\checkmark	√	√			\checkmark	√	3,4,9				



Effectiv	ctive from Session: 2023-24											
Course	Code	РТ314	Title of the Course	PHYSIOTHERAPY IN MEDICAL, SURGICAL, OBSTETRICS & GYNAECOLOGICAL CONDITION LAB	L	Т	Р	C				
Year		III	Semester	VI	0	0	2	1				
Pre-Rec	quisite	Nil	Co-requisite	Nil								
Course	Objectives	Students wi	ll be able learn and und	erstand the assessment and management procedures in the obstetrics &	& Gyn	ecology						
	Course Outcomes											
CO1	Physiotherapy in medical condition: demonstrate a general understanding of the condition that therapists would encounter in their practice like											
	diabetes, ob	esity, edema,	inflammation and skin o	disorders		_						
CO2	Physiothera	py in surgical	condition: role physioth	herapy in general surgeries of abdomen, transplants and burn.								
CO3	Physiothera	py in oncolog	gy: elaborate broad outl	line of goals of pharmacological and surgical therapy imparted in o	ncolog	gical co	ndition	is in				
	which physi	cal therapy w	ill be an important comp	ponent of overall management								
CO4	Clinical obs	tetrics and g	ynecology conditions: u	understand the anatomy, physiology and various conditions in obste	etrics	and gyr	necolog	gical				
	conditions relevant to physiotherapy.											
CO5	Physiothera	py in obstetri	cs and gynecological of	condition: assess and provide physiotherapeutic techniques in obste	etrics a	and gyr	necolog	gical				
	conditions for relief of pain, relaxation, conditioning and posture											

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	PHYSIOTHERAPY IN MEDICAL CONDITION	Pre-Post operative Exercises	4	CO1
2	PHYSIOTHERAPY IN SURGICAL CONDITION	Pre-Post operative Exercises	4	CO2
3	PHYSIOTHERAPY IN ONCOLOGY	Post Onco-surgical Lymph edema management and its bandaging techniques in upper & lower limb, management of cancer related fatigue, Rehabilitation of post-surgical complication.	4	CO3
4	CLINICAL OBSTETRICS AND GYNECOLOGY CONDITIONS	 Physiotherapy Assessment of different gynecological condition. Pre & post operative assessment of gynecological surgery Physiotherapy assessment of Bladder and Bowel Dysfunction. Pelvic floor muscle assessment. Assessment of pain. Diagnostic tools used in gynecological assessment. Examination of breast. h. Relaxation techniques. 	4	CO4
5	PHYSIOTHERAPY IN OBS AND GYNECOLOGICALC ONDITION	 Physiotherapy assessment in obstetrics: a. Antenatal assessment. b. Assessment during labour. c. Postnatal assessment. d. Common musculoskeletal problem. i. Diastasis recti. ii. Pelvic floor muscle function. iii. Bowel & bladder dysfunction 	4	CO5
Reference	e Books:			
1. T	herapeutic Exercise by Caroly	n Kisner		
2. Pl	nysiotherapy in Gynaecologic	al& Obstetrical Conditions-Polden		
3. D	utta, Text book of Gynecolog	y, New Central Book Agency.		

4. Essential of Obstetrics and Gynecology, Hacker Moore Gambone

e-Learning Source:

3. <u>https://youtu.be/adkrWQ8sWFU</u>

4. <u>https://youtu.be/qOT_HpqYN6s</u>

						Cours	se Arti	culatio	n Matr	rix: (Ma	pping of	COs with	1 POs and	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	PSO/	PSO5											
CO	101	102	105	104	105	100	10/	100	10)	1010	1011	1012	1501	1502	1505	1504	1505											
CO1	1	2	3	3	1	1	2	1	1	2	-	3	2	2	2	1	1											
CO2	2	3	2	2	2	2	2	2	-	2	-	2	2	3	3	2	2											
CO3	2	3	2	2	2	3	3	1	2	3	2	3	2	3	3	2	1											
CO4	1	3	1	3	2	3	2	1	1	3	2	3	3	2	2	1	1											
CO5	2	2	3	3	3	2	2	1	2	2	-	2	3	3	2	1	1											

Course Code	Course Title		Attributes								
	Physiotherapy In Medical,	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional			
PT314	Surgical, Obstetrics &	yability	neurship	Development	Equality	Sustainability	Value	Ethics			
	Gynaecological Condition Lab	V	V	\checkmark	\checkmark		\checkmark	\checkmark	3,4		



Effecti	tive from Session: 2021-22												
Course	e Code	PT316	Title of the Course	CLINICAL POSTING	L	Т	Р	С					
Year		III	Semester	VI	0	0	10	5					
Pre-Re	equisite	Nil	Co-requisite	Nil									
Course	è	Students will engage i	n clinical practice in F	Physiotherapy departments in the musculoskeletal, neurol	ogy, c	cardiop	ulmona	ary,					
Object	jectives 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	To develop	appropriate treatment pr	otocol.										
CO4	¹⁴ To understand the importance of documentation of the case record and case presentation.												
CO5	To develop	discipline and improve of	overall quality of clinica	l work.									
	To deterop discipline and improve overall quarky of ended												

CLINICAL POTING ASSESSMENTN FORM

Name of St	udent:		Session:	
Enrolment	Number:		Date:	
Name of Su	ıbject:	Clinical Posting	Subject code:	PT316
Topics:				
S. No.	Point to be	Considered	Max. Marks	Marks Obtained
1.	Punctuality	1	4	
2.	Interaction	with colleagues and supporting staff	2	
3.	Maintenand	ce of case records	3	
4.	Presentatio	n of case during rounds	2	
5.	Investigatio	on work up	2	
6.	Bedside Ma	anners	2	
7.	Rapport wi	th patients	2	
8.	Treatment a	approach & technique	3	
9.	Discipline		2	
10.	Overall qua	ality 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
5.		IIIrd Year/ Vth Semester	4 Months
6.	DDT	IIIrd Year/ VI th Semester	4 Months
7.	BPI	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.		IIIrd Year/ Vth Semester		10 Maulaa		
6.	DDT	IIIrd Year/ VI th Semester	10 Marks	10 Marks	25 Morka	5 Marka
7.	DP1	IVth Year/ VII th Semester		(1 Long Case and 2 Short Case)	25 Marks	5 Warks
8.		IVth Year/ VIII th Semester		Short Case)		

EVALUATION OF CLINICAL POSTING

MPT- 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=**25 marks**.

Viva voce =20 marks

Attendance=5 marks

					(Course A	rticulat	tion Mat	trix: (Ma	apping of	f COs wi	th POs an	d PSOs)				
PO-PSO	PO1	PO2	PO3	PO/	PO5	PO6	PO7	POS	POQ	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO/	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	Attributes							SDGs No.
РТ316	CLINICAL POSTING	Emplo yability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
		√	√	√			√	√	3,4,11