

# INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES

# **DEPARTMENT OF PHYSIOTHERAPY**

# MASTER OF PHYSIOTHERAPY (MPT) NEUROLOGY

**SYLLABUS** 

YEAR/ SEMESTER: II/III



Effective from S	ession: 2016	-17									
Course Code	PT601	Title of the Course	MANAGEMENT, EDUCATION & PROFESSIONAL ETHICS	L	T	P	C				
Year	II	Semester	III 3 1 0								
Pre-Requisite	Nil	Co-requisite	Nil								
Course Objectives	and adminis The education setting. Edu Physiothera include door managemen	tration of a Physiotherapy on module of this course cational theory is presen py students or peers. It p umentation. A variety of	f management to assist the practitioner in efficiently addressing issues revenue. Will provide students information on improving their teaching skills in the teached students develop and present educational units to audiences that provides the student with an introduction to ethical issues facing physiotheraptic current issues affecting the physiotherapy profession are addressed in the stothese students of the business of physiotherapy. Follow	ne class may in herapis	sroom a clude I sts. Spe rse. The	and clin Bachelo cific top	or of pics				

	Course Outcomes
CO1	The students will understand about basic marketing management.
CO2	The students will understand about hospital administration in various health care setups.
CO3	The students will understand about the Philosophy of Education, curriculum and basic concept of teaching & learning.
CO4	The students will understand about the basics of pedagogy.
CO5	The students will understand about the Rules of Professional Conduct and responsibilities.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	MANAGEMENT	<ol> <li>Management - Functions of Management, Evolution of Management Through Scientific Management Theory, Classical Theory - Systems Approach - Contingency Approach.</li> <li>Management Process - Planning, Organization, Direction, Controlling Decision Making</li> <li>Introduction to Personal Management - Staffing Recruitment Selection, Performance Appraisal, Collective Bargaining, Discipline, Job Satisfaction</li> <li>Quantitative Methods of Management - Relevance of Statistical and / or Techniques in Management.</li> <li>Marketing - Market Segmentation, Marketing Research Production Planning Pricing, Channels of Distribution, Promotion, Consumer Behavior, and Licenser</li> <li>Total Quality Management- Basis of Quality Management - Acid for Quality Control Quality Assurance Program in Hospitals, Medical Audit, and International Quality Systems.</li> </ol>	8	CO1
2	ADMINISTRATION	Hospital as an Organization - Functions and types of Hospitals selected clinical supportive and ancillary services of a Hospital, Emergency Department, Nursing, Physical Medicine & Rehabilitation, Clinical Laboratory, Pharmacy and Dietary Department. Roles of Physiotherapist, Physiotherapy Director, Physiotherapy Supervisor, Physiotherapy Assistant, Physiotherapy Aide, Occupational Therapist, Home Health Aide, Volunteer. Direct care and Referral Relationships and Confidentially.	8	CO2
3	EDUCATION	<ol> <li>Philosophy of Education and Emerging issues in Education.</li> <li>Formal, Informal and Non-Formal Education, Agencies of Education, Current issues and trends in Higher Education (Issue of Quality in Higher Education, Autonomy and Accountability, Privatizations, Professional Development of Teachers, Education of Persons with Disabilities), Need for Educational Philosophy (Some Major Philosophies, Idealism Naturalism, Pragmatism and their Implications for Education).</li> <li>Concept of Teaching and Learning: Meaning and Scope of Educational Psychology, meaning and relationship between teaching and learning.</li> <li>Curriculum: Meaning and Concept, Basis of Curriculum Formulation Development, Framing Objectives for Curriculum, Process of Curriculum Development and Factors Affecting Curriculum Development, Evaluation of Curriculum.</li> </ol>	8	CO3
4	GUIDANCE AND COUNSELING PLANNING FOR TEACHING CLINICAL EDUCATION	<ol> <li>Guidance and Counseling: Meaning and Concepts of Guidance and Counseling, Principles, Guidance and Counseling Services for Students and Faculty Members, Faculty Development and Development of Personnel for P.T. Services.</li> <li>Method and Techniques of Teaching: Lecture, Demonstration, Discussion, Seminar, Assignment, Project and Case Study.</li> <li>Planning for Teaching: Bloom's Taxonomy of Instructional Objectives, Writing Instructional Objectives in Behavioral Terms. Unit Planning and Lesson Planning.</li> <li>Teaching Aides: Types of Teaching Aides, Principles of Selection, Preparation, and Use of Audio-Visual Aides.</li> <li>Clinical Education: Awareness and Guidance to the Common People about Health and Diseases and Available Professional Services, Patient Education, Education of the Practitioners.</li> </ol>	8	CO4
5	LEGAL PROFESSIONAL ETHICAL ISSUES	<ol> <li>The Implications &amp; Conformation to the Rules of Professional Conduct.</li> <li>Code of Ethics.</li> <li>Legal Responsibility for Their Actions in the Professional Context and Understanding the Physiotherapist's Liability And Obligations In The Case of Medical Legal Action.</li> <li>A Wider Knowledge of Ethics Relating to Current Social and Medical Policy in the Provisions of Health Care.</li> <li>The Role of the International Health Agencies Such as the World Health Organizations.</li> <li>Standards of Practice for Physiotherapists, Current Issues.</li> </ol>	8	CO5

### Reference Books:

- 1. Basic Management. Trivedi
- 2. Market Segmentation Theory. P Cotler
- 3. Hospital Administration. Sundaran
- 4. Byelaws of the Delhi Council for Physiotherapy and Occupational Therapy
- 5. Principles of Education Soti Shivendra Chandra and Rajendra K. Sharma
- 6. Philosophical Foundation of Education Srinibas Bhattacharya
- $7. \quad Sociological \ Foundation \ of \ Education Srinibas \ Bhattacharya$
- 8. Psychological Foundation of Education Srinibas Bhattacharya

### e-Learning Source:

- 1. https://youtu.be/scZVLCB1aX0
- 2. https://youtu.be/FpQEwbAV3Qw
- 3. https://youtu.be/D6gRTHzE2XQ

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-	DO1	DO2	DO2	DO4	DO5	DO.	DO7	DOG	DOG	DO10	DO11	DO12	DCO1	DGO2	DGO2	DCO4	DGO.5
PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO																	
CO1	-	-	1	-	-	1	-	-	-	3	2	-	-	1	-	-	2
CO2	-	-	1	-	-	1	-	-	-	3	2	-	-	1	-	-	2
CO3	-	-	1	-	-	1	-	-	-	3	2	-	-	1	-	-	2
CO4	-	-	1	-	-	1	-	-	-	3	2	-	-	1	-	-	2
CO5		-	1	-	-	1	-		-	3	2		-	1	-	-	2

Course Code	Course Title			At	tributes				SDGs	1
	MANAGEMENT, EDUCATION &	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.	
PT601	PROFESSIONAL ETHICS	1	1	1			√	1	3,4,17	



Effective from Sessio	n: 2016-17								
Course Code	PT602	Title of the Course	BIOMECHANICS AND KINESIOLOGY-II	L	T	P	C		
Year	II	Semester	III	3	1	0	4		
Pre-Requisite	Nil	Co-requisite	Nil						
Course Objectives	Students will be able to identify and apply principles of biomechanics while setting up individualized treatment protocols								

	Course Outcomes
CO1	Students must know about the kinematics and kinetics of upper limb and its Pathomechanics.
CO2	Students will understand about the kinematics and kinetics of lower limb and its Pathomechanics.
CO3	Students will understand about the kinematics and kinetics of axial skeletal and its Pathomechanics.
CO4	Students will able to learn about gait and posture during human body assessment leading to various musculoskeletal disorders.
CO5	Students will understand about the Prescriptions Checkouts & Proper Fittings of orthosis and prosthesis.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	KINESIOLOGY OF UPEER LIMB	Arthrology and Arthrokinematics, Kinetics, Pathokinesiology 1. Shoulder 2. Elbow 3. Wrist and Hand	8	CO1
2	KINESIOLOGY OF LOWER LIMB	Arthrology and Arthrokinematic, Kinetics, Pathokinesiology 1. Hip 2. Knee. 3. Ankle and Foot	8	CO2
3	KINESIOLOGY OF SPINE	Arthrology and Arthrokinematic, Kinetics, Pathokinesiology 1. Cervical 2. Thoracic 1. Lumbar-sacral.	8	CO3
4	GAIT AND POSTURE	<ol> <li>Gait Parameter- Kinetic, Kinematic, Time – Space, Pathological Gait –Running, Stair Climbing, Changes in Gait Following Various Surgeries /Diseases / Disorders.</li> <li>Posture- Standing, Sitting, Pathokinesiology</li> </ol>	8	CO4
5	BIOMECHANICS OF ORTHOSIS & PROSTHESIS	<ol> <li>Orthosis of Upper Limb,</li> <li>Orthosis of Lower Limb,</li> <li>Orthosis of Spine, 4. Bioengineering of Prosthesis, Prescriptions Checkouts &amp; Proper Fittings, Biomechanical Principles governing them of Prosthetics, Aids used in Management of Disability.</li> </ol>	8	CO5

### **Reference Books:**

- 1.Biomechanics & Clinical Kinesiology-Cynthia Norkin
- 2. Basic Biomechanics. Nordins.
- 3. Basic Biomechanics & clinical Kinesiology. Otis
- 4. Biomechanics of Human Movement. D Winter
- 5. Kinesiology: Application to Pathological Motion. GL Soderberg

### e-Learning Source:

- 1. https://www.youtube.com/watch?v=r7\_TMkY9l2g
- 2. https://www.youtube.com/watch?v=y2JZEzTG\_BI
- 3. https://www.youtube.com/watch?v=6-nSvntEANY
- 4. https://www.youtube.com/watch?v=cvZaIVARWpk
- 5. https://www.youtube.com/watch?v=0vvpn9cCVNI

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO- PSO CO	PO1	PO2	PO 3	PO 4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	2	2	1	2	1	-	-	-	3	3	2	2	2
CO2	3	3	2	2	2	2	1	2	1	-	-	-	3	3	2	2	2
CO3	3	3	2	2	2	2	1	2	1	-	-	-	3	3	2	2	2
CO4	3	3	2	2	2	2	1	2	1	-	-	-	3	3	2	2	2
CO5	3	3	2	2	2	2	1	2	1	-	-	-	3	3	2	2	2

Course Code	Course Title		Attributes									
PT602	BIOMECHANICS AND	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.			
	KINESIOLOGY-II	√	√	√			- √	7	3,4,9			



Effective from	Effective from Session: 2016-17							
Course Code	PT603N	Title of the Course	PHYSIOTHERAPY –II (NEUROLOGICAL SPECIFIC PHYSICAL THERAPY AND REHABILITATION)	L	T	P	C	
Year	II	Semester	III	3	1	0	4	
Pre-Requisite	Nil	Nil Co-requisite Nil						
Course Objectives	After a review of the latest theories of motor control, motor learning, and recovery of function, students are provided with a conceptual framework for clinical practice and a practical framework for understanding and examining impairments in patients with a payrological deficits. Armed with a solid foundation, students then build a thorough understanding of motor control issues as they						with they	

	Course Outcomes
CO1	Understanding of basic concept regarding various neurological assessments in clinical practice in various setups. Understanding of movement
	disorders like Parkinson, ataxia and Huntington's disease. Understanding of motor learning related to balance.
CO2	Understanding of basic theoretical concept behind the management of ALS, MS and Hemiplegia. Understanding of basic concept of gait
	rehabilitation. Understanding about theoretical & therapeutic concept of various neuro-therpeutic techniques
CO3	Understanding of normal developmental milestone. Understanding of musculoskeletal Development and Adaptation. Understanding of
	developmental Coordination Disorder. Understanding of differential diagnosis and interventional strategies for pediatric conditions.
CO4	Understanding of health and wellness issues in Geriatrics. Understanding of ageing with dignity and chronic impairments. Understanding of
	balance and Coordination training in Geriatrics. Understanding of cognitive & perceptual dysfunctions and their impact on Geriatrics
	rehabilitation.
CO5	Understanding about theoretical & therapeutic concept of various neuro-therpeutic techniques

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	MANAGEMENT OF MOVEMENT DISABILITIES	<ol> <li>Parkinson's disease.</li> <li>Huntington's chorea, Wilson's disease.</li> <li>Movement Dysfunction Associated with Cerebellar Problems.</li> <li>Balance and Vestibular Dysfunction.</li> <li>Motor Learning Concepts In Balance Retraining Techniques.</li> </ol>	8	CO1
2	MANAGEMENT OF CLINICAL PROBLEMS	<ol> <li>Multiple Sclerosis.</li> <li>Amyotrophic Lateral Sclerosis.</li> <li>Demyelenating Inflammatory Poly-radiculoneuropathy.</li> <li>Hemiplegia.</li> <li>Gait Rehabilitation</li> </ol>	8	CO2
3	UNDERSTANDING MOTOR PERFORMANCE IN CHILDREN	<ol> <li>The Child's Development of Functional Movement</li> <li>Musculoskeletal Development and Adaptation</li> <li>Developmental Coordination Disorder.</li> <li>Physical Fitness during Childhood.</li> <li>Clinical Decision making in pediatric physical therapy 6.Cerebral Palsy &amp; Myelodysplasia</li> </ol>	8	CO3
4	UNDERSTANDING MOTOR PERFORMANCE IN GERIATRICS	<ol> <li>Health and wellness issues in Geriatrics.</li> <li>Ageing with dignity and chronic impairments.</li> <li>Intervention for depression and fear of fall.</li> <li>Balance and Coordination training in Geriatrics.</li> <li>Cognitive &amp; perceptual dysfunctions and their impact on Geriatrics rehabilitation.</li> </ol>	8	CO4
5	FUNDAMENTALS OF THERAPEUTIC APPROACHES	<ol> <li>Proprioceptive Neuromuscular Facilitation (PNF).</li> <li>Neurodevelopment therapy (NDT).</li> <li>Sensory integration Technique (SIT).</li> <li>Motor Relearning Program (MRP).</li> <li>Constraint Induced Movement Therapy (CIMT)</li> <li>Roods approach</li> <li>Vojta Therapy</li> <li>Mental imagery technique</li> </ol>	8	CO5

### **Reference Books:**

- 1. Physical Therapy For Children By Suzann K. Campbell
- 2. Neurological rehabilitation by Darcy a. Umphred
- 3. Motor Control. Theory and Practical Applications. AS Cook, M Woollacott
- 4. A Motor Relearning Programme for Stroke. J Carr. R Shepherd
- 5. Motor Control and Learning. A Behavioral Emphasis. R A Schmidt

### e-Learning Source:

- $1. \quad \underline{https://www.youtube.com/watch?v=gzZhcf9gjTA}\\$
- 2. <a href="https://www.youtube.com/watch?v=z-cARP6He4c">https://www.youtube.com/watch?v=z-cARP6He4c</a>
- 3. <a href="https://www.youtube.com/watch?v=2S-D7GdBLyw">https://www.youtube.com/watch?v=2S-D7GdBLyw</a>
- 4. <a href="https://www.youtube.com/watch?v=F8uLqba82IY">https://www.youtube.com/watch?v=F8uLqba82IY</a>
- 5. https://www.youtube.com/watch?v=V31lkMrSk5U

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

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

Course Code	Course Title		Attributes S										
PT603N	PHYSIOTHERAPY –II	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.				
	(N)	√	√	\	<b>√</b>		√	√	3,4				



Effective from Sessio	n: 2016-17						
Course Code	PT604	Title of the Course	BIOMECHANICS AND KINESIOLOGY-II LAB	L	T	P	C
Year	II	Semester	III	0	0	2	1
Pre-Requisite	Nil	Co-requisite	III				
Course Objectives	Students will be able	to identify and apply pr	rinciples of biomechanics while setting up individualized tre	atmen	t protoc	ols.	

	Course Outcomes
CO1	Students must know about the practical aspect of kinematics and kinetics of upper limb and its Pathomechanics.
CO2	Students will understand about practical aspect of the kinematics and kinetics of lower limb and its Pathomechanics.
CO3	Students will understand about the practical aspect of kinematics and kinetics of axial skeletal and it's Pathomechanics.
CO4	Students will able to learn about practical aspect of gait and posture during human body assessment leading to various disorders.
CO5	Students will understand about the practical aspect of Prescriptions Checkouts & Proper Fittings of orthosis and prosthesis.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	KINESIOLOGY OF UPEER LIMB	Practical demonstration of Arthrokinematic of following joints: 1. Shoulder 2. Elbow 3. Wrist and Hand	8	CO1
2	KINESIOLOGY OF LOWER LIMB	Practical demonstration of Arthrokinematic of following joints:  1. Hip  2. Knee.  3. Ankle and Foot	8	CO2
3	KINESIOLOGY OF SPINE	Practical demonstration of Arthrokinematic of following regions: 1. Cervical 2. Thoracic 2. Lumbar-sacral.	8	CO3
4	GAIT AND POSTURE	Practical demonstration of following:  1. Gait Parameter- Kinetic, Kinematic, Time – Space, Pathological Gait –Running, Stair Climbing, Changes in Gait Following Various Surgeries /Diseases / Disorders.  2. Posture- Standing, Sitting, Pathokinesiology	8	CO4
5	BIOMECHANICS OF ORTHOSIS & PROSTHESIS	Practical demonstration of following:  1. Orthosis of Upper Limb,  2. Orthosis of Lower Limb,  3. Orthosis of Spine, 4. Bioengineering of Prosthesis, Prescriptions Checkouts & Proper Fittings, Biomechanical Principles governing them of Prosthetics, Aids used in Management of Disability.	8	CO5

### Reference Books:

- 1.Biomechanics & Clinical Kinesiology-Cynthia Norkin
- 2. Basic Biomechanics. Nordins.
- 3. Basic Biomechanics & clinical Kinesiology. Otis
- 4. Biomechanics of Human Movement. D Winter
- 5. Kinesiology: Application to Pathological Motion. GL Soderberg

### e-Learning Source:

- 6. <a href="https://www.youtube.com/watch?v=r7\_TMkY9l2g">https://www.youtube.com/watch?v=r7\_TMkY9l2g</a>
- 7. https://www.youtube.com/watch?v=y2JZEzTG\_BI
- 8. <a href="https://www.youtube.com/watch?v=6-nSvntEANY">https://www.youtube.com/watch?v=6-nSvntEANY</a>
- 9. https://www.youtube.com/watch?v=cvZaIVARWpk
- 10.https://www.youtube.com/watch?v=0vvpn9cCVNI

		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	101	F 0 2	103	104	103	100	107	100	109	1010	FOII	1012	1301	1302	1303	1504	1303
CO1	3	2	1	2	2	2	1	3	2	-	-	-	3	2	3	2	2
CO2	3	2	3	2	3	2	2	2	1	-	-	-	3	3	2	2	2
CO3	2	2	2	2	3	3	1	2	1	-	-	-	3	3	2	2	2
CO4	3	3	3	3	2	2	1	2	1	-	-	-	3	3	2	2	2
CO5	3	2	2	3	2	2	1	3	2	-	-	-	3	3	2	2	2

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Course Code	Course Title		Attributes										
PT604	BIOMECHANICS AND	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.				
	KINESIOLOGY-II LAB	√	√	√	√		√	√	3,4				



Effective from	Session: 2016-17												
Course Code	PT605N	Title of the Course	PHYSIOTHERAPY –II LAB (NEUROLOGICAL SPECIFIC PHYSICAL THERAPY AND REHABILITATION)	L	T	P	С						
Year	II	Semester	III	0	0	4	2						
Pre-Requisite	Nil	Co-requisite	Nil										
Course Objectives	management of pat	ients with neurological of	adents will be instructed via demonstrations, hands-on techniques, field visits and case conferences on specific techniques used in an anagement of patients with neurological disorders. Students will draw on their experiences at the clinical postings to formulate a atment plan for cases presented at the case conference.										

	Course Outcomes
CO1	Understanding of basic practical aspect concept regarding various neurological assessments in clinical practice in various setups. Understanding of practical
	aspect of movement disorders like Parkinson, ataxia and Huntington's disease. Understanding of motor learning related to balance.
CO2	Understanding of basic practical aspect of the concept behind the management of ALS, MS and Hemiplegia. Understanding of basic practical aspect concept of
	gait rehabilitation. Understanding about theoretical & therapeutic concept of various neuro-therpeutic techniques
CO3	Understanding of practical aspect of normal developmental milestone. Understanding of musculoskeletal Development and Adaptation. Understanding of
	developmental Coordination Disorder. Understanding of differential diagnosis and interventional strategies for pediatric conditions.
CO4	Understanding of practical aspect of the health and wellness issues in Geriatrics. Understanding of ageing with dignity and chronic impairments. Understanding
	of balance and Coordination training in Geriatrics. Understanding of cognitive & perceptual dysfunctions and their impact on Geriatrics rehabilitation.
CO5	Understanding about practical aspect & therapeutic concept of various neuro-therpeutic techniques

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	MANAGEMENT O DISABIL	In the practical aspect students must know about the Parkinson's disease. Huntington's Chorea, Wilson's disease. Movement Dysfunction Associated with Cerebellar Problems. Balance and Vestibular Dysfunction. Motor Learning Concepts In Balance Retraining Techniques.	8	CO1
2	MANAGEMENT PROBL	In the practical aspect students must know about the Multiple Sclerosis. Amyotrophic Lateral Sclerosis. Demyelenating Inflammatory Poly radiculo neuropathy, Hemiplegic, Gait Rehabilitation	8	CO2
3	UNDERSTANDI PERFORMANCE	In the practical aspect students must know about the The Child's Development of Functional Movement, .Musculoskeletal Development and Adaptation Developmental Coordination Disorder. Physical Fitness during Childhood. Clinical Decision making in pediatric physical therapy, Cerebral Palsy & Myelodysplasia	8	CO3
4	UNDERSTANDI PERFORMANCE II	In the practical aspect students must know about the Health and wellness issues in Geriatrics, Ageing with dignity and chronic impairments, Intervention for depression and fear of fall. Balance and Coordination training in Geriatrics. Cognitive & perceptual dysfunctions and their impact on Geriatrics rehabilitation.	8	CO4
5	FUNDAMEN THERAPEUTIC A	In the practical aspect students must know about the Proprioceptive Neuromuscular Facilitation (PNF), Neurodevelopment therapy (NDT). Sensory integration Technique (SIT). Motor Relearning Program (MRP). Constraint Induced Movement Therapy (CIMT) .Roods approach, Vojta Therapy, Mental imagery technique.	8	CO5

### Reference Books:

- 1. Physical Therapy For Children By Suzann K. Campbell
- 2. Neurological rehabilitation by Darcy a. Umphred
- ${\it 3.}\ \ Motor\ Control.\ Theory\ and\ Practical\ Applications.\ AS\ Cook,\ M\ Woollacott$
- 4. A Motor Relearning Programme for Stroke. J Carr. R Shepherd
- 5. Motor Control and Learning. A Behavioral Emphasis. R A Schmidt

### e-Learning Source:

- 1. <a href="https://www.youtube.com/watch?v=gzZhcf9gjTA">https://www.youtube.com/watch?v=gzZhcf9gjTA</a>
- 2. https://www.youtube.com/watch?v=z-cARP6He4c
- 3. https://www.youtube.com/watch?v=2S-D7GdBLyw
- 4. <a href="https://www.youtube.com/watch?v=F8uLqba82IY">https://www.youtube.com/watch?v=F8uLqba82IY</a>

		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	3	3	2	2	3	2	2	1	-	1	1	3	3	1	2	1
CO2	1	3	3	3	2	3	2	2	1	-	1	1	3	3	1	2	1
CO3	3	2	2	2	3	2	1	1	1	-	1	1	3	3	2	2	2
CO4	3	2	2	3	2	2	1	1	1	-	1	1	3	3	2	2	2
CO5	1	3	3	3	3	2	3	3	2	-	-	-	2	3	2	2	2

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

Course Code	Course Title	Attributes						SDGs	
PT605N	PHYSIOTHERAPY –II	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
	LAB (N)	<b>√</b>	√	√	1		1	√	3,4



Effective from Sessio	Effective from Session: 2016-17										
Course Code	SEMINAR ON CLINICAL ISSUES	L	T	P	C						
Year	II	Semester	III	0	3	0	3				
Pre-Requisite	Nil	Co-requisite	Nil								
Course Objectives	issues in the effi		ents to integrate various components of patient management echniques used in musculoskeletal, neurological, cardio ion skills								

	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:	
<b>Enrollment Number:</b>		Date:	
Name of Subject:	Seminar on Clinical Issues	Subject code:	PT606
Topics:			

Criteria	Sub-Criteria	Max. Marks	Marks Obtained
Introduction	Use appropriate background information	03	
(Max marks-09)	Has clear statement of purpose	03	
(Max marks-09)	Shows a logical sequence	03	
	Includes accurate information	03	
	Shows up-to-date content	03	
Factual Content	Presents relevant content	03	
	Shows in-depth and sufficient details	03	
(Max marks- 21)	Addresses all important issues	03	
	Is selective	03	
	Use of proper English Grammar in the text	03	
Presentation Quality	Has a good design of presentation (appropriate font, type, size, color, matter per slide etc.)	03	
(Max marks-06)	Has a clear verbal expression and eye contact with audience	03	
D	Answers question(s) correctly	03	
Response to questions	Has the ability to think on the spot	03	
(Max marks-09)	Shows an ability to defend content of presentation	03	
Time Management (Max. mark-05)	Completes the presentation within allocated time	05	
	Total Marks	50	

**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 PRESENTATION

MPT- 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 seminar examination of 100 marks will be distributed:

Cases during clinical posting=45 marks.

Viva voce =**50 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
CO	101	102	103	104	103	100	107	100	10)	1010	1011	1012	1501	1502	1503	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	-	ı	3	2	2	2	3
CO4	3	3	3	3	2	2	3	2	1	3	-	ı	2	3	2	2	3
CO5	3	3	3	3	2	2	3	2	1	3	-	-	3	2	3	3	2

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

Course Code	Course Title				SDGs No.				
	SEMINAR ON CLINICAL	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT606		yability	neurship	Development	Equality	Sustainability	Value	Ethics	
	ISSUES	<b>→</b>	7	4	√		√	<b>√</b>	3,4,11



Effective from Ses	Effective from Session: 2016-17										
Course Code	PT607	Title of the Course	CLINICAL POSTING	L	T	P	C				
Year	II	Semester	III	0	0	14	7				
Pre-Requisite	Nil	Co-requisite	Nil								
Course	Students will engage	Students will engage in clinical practice in Physiotherapy departments in the musculoskeletal, neurology, cardiopulmonary,									
Objectives	sports settings to enhan	nce their clinical skills an	nd apply contemporary knowledge gained during teaching sess	sions.							

	Course Outcomes							
CO1	To learn the punctuality and interaction 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 overall quality of clinical work.							

### CLINICAL POTING ASSESSMENTN FORM

Name of Student:		Session:	
<b>Enrolment Number:</b>		Date:	
Name of Subject:	Clinical Posting	Subject code:	PT607
Topics:			

S. No.	Point to be Considered	Max. Marks	Marks Obtained
1.	Punctuality	5	
2.	Interaction with colleagues and supporting staff	5	
3.	Maintenance of case records	5	
4.	Presentation of case during rounds	5	
5.	Investigation work up	5	
6.	Bedside Manners	5	
7.	Rapport with patients	5	
8.	Treatment approach & technique	5	
9.	Discipline	5	
10.	Overall quality of clinical work	5	
	TOTAL SCORE	50	

### (Name and signature of Incharge)

### (Head, Physiotherapy)

### **GUIDELINES FOR CLINICAL TRAINING PROGRAM**

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.		Ist Year/ Ist Semester	4 Months
2.	MPT	Ist Year/ IInd Semester	4 Months
3.	IVIFI	IInd Year/ 3rd Semester	4 Months
4.		IInd Year/ 4th 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.		Ist Year/ Ist Semester		25 Marks		
2.	MPT	Ist Year/ IInd Semester		(1 Long Case and 2	50 Marks	5 Marks
3.	MIFI	IInd Year/ 3rd Semester	20 Marks	Short Case)	50 Warks	3 Marks
4.		IInd Year/ 4th 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 100 marks will be distributed:

Cases during clinical posting=45 marks.

Viva voce =50 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 PSO											PSO4	PSO5				
co	101	102	103	104	103	100	107	108	109	1010	1011	1012	1301	1302	1303	1504	1303
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.
PT607	CLINICAL POSTING	Emplo yability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
		1	1	√	√		1	1	3,4,11



# INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES

# **DEPARTMENT OF PHYSIOTHERAPY**

# MASTER OF PHYSIOTHERAPY (MPT) NEUROLOGY

**SYLLABUS** 

YEAR/ SEMESTER: II/IV



Effective from S	Effective from Session: 2016-17											
Course Code	PT608N	Title of the Course	<b>PHYSIOTHERAPY- III</b> (NEUROLOGY REHABILITATION & ALTERNATIVE THERAPIES)	L	T	P	C					
Year	PT608N Title of the Course (NEUROLOGY REHABILITATION & ALTERNATIVE THERAPIES)  II Semester IV 3 1  Nil Co-requisite Nil  1. After a review of the latest theories of motor control, motor learning, and recovery of function, students are provided with conceptual framework for clinical practice and a practical framework for understanding and examining impairments in patie neurological deficits.  2. Armed with a solid foundation, students then build a thorough understanding of motor control issues as they relate to post balance, mobility, and upper extremity function. For each of these three key areas, the authors discuss normal control process	1	0	4								
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	conceptual frame neurological defi 2. Armed with a balance, mobility	ework for clinical cits. solid foundation, and upper extrem	practice and a practical framework for understanding and examining impairments students then build a thorough understanding of motor control issues as they related	in pa	itient oostu	s wit re an	ıd					

	Course Outcomes								
CO1	Understanding and importance of documentation, clinical reasoning related to the uses of assistive technologies in various								
	neurological condition.								
CO2	Understanding about theoretical concept of postural control in rehabilitations.								
CO3	Understanding about theoretical concept of mobility control in rehabilitations								
CO4	Understanding and importance of reach, grasp & manipulation in rehabilitations.								
CO5	Understanding about role of alternative techniques in rehabilitation.								

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	ASSISTIVE TECHNOLOGY IN NEUROLOGICAL POPULATION	Assistive Technology in neurological population with special focus on 1. Spinal cord injury. 2. Motor Neuron diseases. 3. Muscular dystrophies. 4. Hemiplegia. 5. Traumatic brain injury.	8	CO1
2	POSTURAL CONTROL	1. Normal Postural Control 2. Development of Postural Control 3. Aging and Postural Control 4. Abnormal Postural Control 5. Clinical Management of the Patient with a Postural Control Disorder	8	CO2
3	MOBILITY FUNCTION	1. Control of Normal Mobility 2. A Life Span Perspective of Mobility (a) Development of locomotion (b) Locomotion in Older Adults 3. Abnormal Mobility 4. Clinical Management of the Patient with a Mobility Disorder	8	CO3
4	REACH, GRASP, AND MANIPULATION	1. Normal Reach, Grasp, and Manipulation 2. Reach, Grasp, and Manipulation: Changes Across the Life Span a. Early development of reach grasp and manipulation b. Changes in older adults 3. Abnormal Reach, Grasp, and Manipulation 4. Clinical Management of the Patient With Reach, Grasp, and Manipulation Disorders	8	CO4
5	ALTERNATIVE AND COMPLEMANTARY THERAPIES	Beyond traditional approaches to intervention in neurological diseases, syndromes and disorders 1. Body weight support treadmill training (BWST) 2. Tai Chi 3. Cranio sacral therapy 4. Electroacupuncture 5. Biofeedback	8	CO5

### Reference Books:

- 1. Movement Science by Carr and Shepherd
- 2. Neurological rehabilitation by DARCY A. UMPHRED
- 3. Motor Control. Theory and Practical Applications. AS Cook, M Woollacott
- 4. A Motor Relearning Programme for Stroke. J Carr. R Shepherd
- 5. Motor Control and Learning. A Behavioral Emphasis. R A Schmidt

### e-Learning Source:

- 1. <a href="http://www.di.fc.ul.pt/~tjvg/amc/emgtexting/files/ta-tr.pdf">http://www.di.fc.ul.pt/~tjvg/amc/emgtexting/files/ta-tr.pdf</a>
- 2. <a href="https://www.researchgate.net/publication/292747102">https://www.researchgate.net/publication/292747102</a> Clinical management of the patuent with a postural control disorder
- 3. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6291756/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6291756/</a>
- 4. <a href="https://www.youtube.com/watch?v=EjsiXJ1JS60">https://www.youtube.com/watch?v=EjsiXJ1JS60</a>
- 5. <a href="https://www.youtube.com/watch?v=BHmW3m6IWDs">https://www.youtube.com/watch?v=BHmW3m6IWDs</a>

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	104	103	100	107	108	109	1010	1011	1012	1301	1302	1303	1304	1303
CO1	1	3	3	3	2	3	2	2	1	-	1	1	3	3	1	2	1
CO2	1	3	3	3	2	3	2	2	1	-	1	1	3	3	1	2	1
CO3	3	3	2	2	2	2	1	1	1	-	1	1	3	3	2	2	2
CO4	3	3	2	2	2	2	1	1	1	-	1	1	3	3	2	2	2
CO5	1	3	3	3	3	2	3	3	2	-	-	-	2	3	2	2	2

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

				TITTIDUTED CE L	<b>D</b> G5								
<b>Course Code</b>	Course Title		Attributes										
PT608N	PHYSIOTHERAPY- III	Emplo yability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics					
	( <b>N</b> )	√	√	√	√		√	1	3,4				



Effective from S	ession: 2016-1	17					
Course Code	PT609N	Title of the Course	PHYSIOTHERAPY- III LAB (NEUROLOGY REHABILITATION & ALTERNATIVE THERAPIES)	L	T	P	C
Year	II	Semester	IV	0	0	4	2
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	conceptual fra neurological 2. Armed wi balance, mob	amework for clinic deficits. th a solid foundatio ility, and upper ext	eories of motor control, motor learning, and recovery of function, students are all practice and a practical framework for understanding and examining impair on, students then build a thorough understanding of motor control issues as the remity function. For each of these three key areas, the authors discuss normal n, and the clinical applications of current research.	rments ey rela	in patiente to pos	ents wit sture ar	nd

	Course Outcomes								
CO1	Understanding and importance of documentation, clinical reasoning related to the uses of assistive technologies in various								
	neurological condition.								
CO2	Understanding about theoretical concept of postural control in rehabilitations.								
CO3	Understanding about theoretical concept of mobility control in rehabilitations								
CO4	Understanding and importance of reach, grasp & manipulation in rehabilitations.								
CO5	Understanding about role of alternative techniques in rehabilitation.								

Unit No.	Title of the Unit								
1	ASSISTIVE TECHNOLOGY IN NEUROLOGICAL POPULATION	Demonstration of application of Assistive devices in neurological disorder.	8	CO1					
2	POSTURAL CONTROL	Demonstration of assessment, evaluation and management of normal postural and abnormal postural control.	8	CO2					
3	MOBILITY FUNCTION	Demonstration of assessment, evaluation and management of normal postural and abnormal mobility control.	8	CO3					
4	REACH, GRASP, AND MANIPULATION	Demonstration of assessment, evaluation and management of normal postural and abnormal reach, grasp & manipulation.	8	CO4					
5	ALTERNATIVE AND COMPLEMANTARY THERAPIES	Demonstration of various alternative techniques which is effective for neurological rehabilitation.	8	CO5					

### **Reference Books:**

- 6. Movement Science by Carr and Shepherd
- 7. Neurological rehabilitation by DARCY A. UMPHRED
- 8. Motor Control. Theory and Practical Applications. AS Cook, M Woollacott
- 9. A Motor Relearning Programme for Stroke. J Carr. R Shepherd
- 10. Motor Control and Learning. A Behavioral Emphasis. R A Schmidt

### e-Learning Source:

- 6. <a href="http://www.di.fc.ul.pt/~tjvg/amc/emgtexting/files/ta\_tr.pdf">http://www.di.fc.ul.pt/~tjvg/amc/emgtexting/files/ta\_tr.pdf</a>
- 7. <a href="https://www.researchgate.net/publication/292747102">https://www.researchgate.net/publication/292747102</a> Clinical management of the patuent with a postural control disorder
- 8. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6291756/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6291756/</a>
- 9. <a href="https://www.youtube.com/watch?v=EjsiXJ1JS60">https://www.youtube.com/watch?v=EjsiXJ1JS60</a>
- 10. https://www.youtube.com/watch?v=BHmW3m6IWDs

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO	FOI	FO2	103	F 04	FO3	F00	FO7	F 08	F09	FOIU	FOII	FO12	1301	F3O2	1303	F304	1303
CO1	1	2	3	3	2	2	2	2	1	-	1	1	3	3	1	2	1
CO2	1	3	2	3	2	3	2	2	1	-	1	1	3	3	1	2	1
CO3	3	3	2	3	2	2	1	2	1	-	1	1	3	3	2	2	2
CO4	3	3	2	2	2	2	1	2	1	-	1	1	3	3	2	2	2
CO5	1	3	2	3	3	2	3	2	2	-	-	-	2	3	2	2	2

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

### **Attributes & SDGs Common Course Code Course Title** Attributes SDGs No. Skill Professional Emplo Entrepre Gender Environment & Human PHYSIOTHERAPY- III yability Sustainability Value Ethics neurship Development Equality PT609N LAB (N) 1 1 1 1 1 1 3,4



Effective from Sessio	n: 2016-17						
Course Code	PT610	Title of the Course	Dissertation	L	T	P	C
Year	II	Semester	IV	0	9	0	9
Pre-Requisite	Nil	Co-requisite	Nil				
	The main objective of	of this course is to deve	lop independence in the research skills and to develop the	researd	ch inter	pretatio	n
Course Objectives	skill. To promote ed	ucation and research in	physiotherapy and provide academic and professional exc	ellence	e for in	nmedia	te
, and the second	productivity in hospi	ital, governmental, or o	clinical settings for an ultimate benefit of society and en	vironn	nent.		

	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

Name of Student:		Session:	
<b>Enrollment Number:</b>		Date:	
Name of Subject:	Dissertation	Subject code:	PT610
Topics:			

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

**Note: Evaluation of Dissertation of MPT-** Students has to prepare oral presentation; 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 examiner (continuous assessment):

### **Comments/Suggestions:**

### (Name and signature of Incharge)

(Head, Physiotherapy)

						Cou	rse Arti	culatio	n Matr	rix: (Ma	pping o	of COs v	vith POs	and PSC	Os)			
PO-PSO	0	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
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

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

### Attributes & SDGs Common for all branches / Disciplines

		110	tributes et l	D G5 Common 1	or an branche	o / Disciplines								
Course Code	Course Title		Attributes											
PT610	Dissertation	Emplo yability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics						
		√	√	√	√		√	\	3.4.9, 17					



Effective from Sessio	n: 2016-17						
Course Code	PT611	Title of the Course	SEMINAR ON CLINICAL ISSUES	L	T	P	C
Year	II	Semester	IV	0	3	0	3
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	issues in the effica		ents to integrate various components of patient management echniques used in musculoskeletal, neurological, cardio on skills.				

	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:	
<b>Enrollment Number:</b>		Date:	
Name of Subject:	Seminar on Clinical Issues	Subject code:	PT611
Topics:			

Criteria	Sub-Criteria	Max. Marks	Marks Obtained
Introduction	Use appropriate background information	03	
(Max marks-09)	Has clear statement of purpose	03	
(Max marks-09)	Shows a logical sequence	03	
	Includes accurate information	03	
	Shows up-to-date content	03	
Et1 Ctt	Presents relevant content	03	
Factual Content	Shows in-depth and sufficient details	03	
(Max marks- 21)	Addresses all important issues	03	
	Is selective	03	
	Use of proper English Grammar in the text	03	
Presentation Quality	Has a good design of presentation (appropriate font, type, size, color, matter per slide etc.)	03	
(Max marks-06)	Has a clear verbal expression and eye contact with audience	03	
D	Answers question(s) correctly	03	
Response to questions	Has the ability to think on the spot	03	
(Max marks-09)	Shows an ability to defend content of presentation	03	
Time Management (Max. mark-05)	Completes the presentation within allocated time	05	
	Total Marks	50	

**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 PRESENTATION

MPT- 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 seminar examination of 100 marks will be distributed:

Cases during clinical posting=45 marks.

Viva voce =50 marks Attendance=5 marks

					Cou	rse Arti	culatio	n Matr	ix: (Ma	pping o	of COs v	vith POs	and PSC	Os)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	104	103	100	107	100	10)	1010	1011	1012	1501	1502	1503	1504	1505
CO1	2	3	3	2	3	2	3	1	2	1	-	ı	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

### $\hbox{1-Low Correlation; 2-Moderate Correlation; 3-Substantial Correlation}\\$

Attributes & SDGs Common for an orancies / Disciplines											
Course Code	Course Title		Attributes								
	SEMINAR ON CLINICAL	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional	İ		
PT611		yability	neurship	Development	Equality	Sustainability	Value	Ethics	I		
	ISSUES			,	,		,	,	2 4 11		



Effective from Session: 2016-17										
Course Code	PT612	2 Title of the Course CLINICAL POSTING L								
Year	II	Semester	III	0	0	14	7			
Pre-Requisite	Nil	Co-requisite	Nil							
Course	Students will engage in	Students will engage in clinical practice in Physiotherapy departments in the musculoskeletal, neurology, cardiopulmonary,								
Objectives	sports settings to enhance their clinical skills and apply contemporary knowledge gained during teaching sessions.									

	Course Outcomes
CO1	To learn the punctuality and interaction 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 overall quality of clinical work.

### **CLINICAL POTING ASSESSMENTN FORM**

Name of Student:		Session:	
<b>Enrolment Number:</b>		Date:	
Name of Subject:	Clinical Posting	Subject code:	PT513
Topics:			

S. No.	Point to be Considered	Max. Marks	Marks Obtained
1.	Punctuality	5	
2.	Interaction with colleagues and supporting staff	5	
3.	Maintenance of case records	5	
4.	Presentation of case during rounds	5	
5.	Investigation work up	5	
6.	Bedside Manners	5	
7.	Rapport with patients	5	
8.	Treatment approach & technique	5	
9.	Discipline	5	
10.	Overall quality of clinical work	5	
	TOTAL SCORE	50	

### (Name and signature of Incharge)

### (Head, Physiotherapy)

### **GUIDELINES FOR CLINICAL TRAINING PROGRAM**

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.		Ist Year/ Ist Semester	4 Months	
6.	MPT	Ist Year/ IInd Semester	4 Months	
7.	MIPI	IInd Year/ 3rd Semester	4 Months	
8.		IInd Year/ 4th 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.		Ist Year/ Ist Semester		25 Marks		
6.	6. MPT 8.	Ist Year/ IInd Semester	20 Marks		50 Marks	5 Marks
7.		IInd Year/ 3rd Semester	20 Marks	(1 Long Case and 2 Short Case)		3 Marks
8.		IInd Year/ 4th 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 100 marks will be distributed:

Cases during clinical posting=45 marks.

Viva voce =**50 marks** 

Attendance=5 marks

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		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	101	102	103	104	103	100	107	108	109	1010	1011	1012	1301	1302	1303	1504	1303
CO1	2	3	3	2	3	2	3	1	2	1	-	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

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

Attributes & SDGs Common for all branches / Disciplines											
Course Code	Course Title		Attributes								
		Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional			
PT612	CLINICAL POSTING	yability	neurship	Development	Equality	Sustainability	Value	Ethics			
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