

INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHYSIOTHERAPY

MASTER OF PHYSIOTHERAPY (MPT) CARDIOPULMONARY

SYLLABUS

YEAR/ SEMESTER: II/III



Effective from	Session: 2016	-17					
Course Code	PT601	Title of the Course	MANAGEMENT, EDUCATION & PROFESSIONAL ETHICS	L	T	P	C
Year	II	Semester	III	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	and adminis The education setting. Edu Physiothera include docu managemen	tration of a Physiotherap on module of this course acational theory is presen py students or peers. It p umentation. A variety of	f management to assist the practitioner in efficiently addressing issues rey Department. will provide students information on improving their teaching skills in the ted. Students develop and present educational units to audiences that revoides the student with an introduction to ethical issues facing physiotic current issues affecting the physiotherapy profession are addressed in the est to the essential functions of the business of physiotherapy. Follow	ne class may in herapis	sroom a clude I sts. Spe se. The	and clin Bachelo cific to	ical r of pics e of

	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	 Management - Functions of Management, Evolution of Management Through Scientific Management Theory, Classical Theory - Systems Approach - Contingency Approach. Management Process - Planning, Organization, Direction, Controlling Decision Making Introduction to Personal Management - Staffing Recruitment Selection, Performance Appraisal, Collective Bargaining, Discipline, Job Satisfaction Quantitative Methods of Management - Relevance of Statistical and / or Techniques in Management. Marketing - Market Segmentation, Marketing Research Production Planning Pricing, Channels of Distribution, Promotion, Consumer Behavior, and Licenser Total Quality Management - Basis of Quality Management - Acid for Quality Control Quality Assurance Program in Hospitals, Medical Audit, and International Quality Systems. 	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	 Philosophy of Education and Emerging issues in Education. 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). Concept of Teaching and Learning: Meaning and Scope of Educational Psychology, meaning and relationship between teaching and learning. 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. 	8	CO3
4	GUIDANCE AND COUNSELING PLANNING FOR TEACHING CLINICAL EDUCATION	 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. Method and Techniques of Teaching: Lecture, Demonstration, Discussion, Seminar, Assignment, Project and Case Study. Planning for Teaching: Bloom's Taxonomy of Instructional Objectives, Writing Instructional Objectives in Behavioral Terms. Unit Planning and Lesson Planning. Teaching Aides: Types of Teaching Aides, Principles of Selection, Preparation, and Use of Audio-Visual Aides. Clinical Education: Awareness and Guidance to the Common People about Health and Diseases and Available Professional Services, Patient Education, Education of the Practitioners. 	8	CO4
5	LEGAL PROFESSIONAL ETHICAL ISSUES	 The Implications & Conformation to the Rules of Professional Conduct. Code of Ethics. Legal Responsibility for Their Actions in the Professional Context and Understanding the Physiotherapist's Liability And Obligations In The Case of Medical Legal Action. A Wider Knowledge of Ethics Relating to Current Social and Medical Policy in the Provisions of Health Care. The Role of the International Health Agencies Such as the World Health Organizations. Standards of Practice for Physiotherapists, Current Issues. 	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 .	Articula	ation M	atrix: (I	Mapping	of COs v	with POs	and PSO	s)			
PO-																	
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

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation Attributes & SDGs Common for all branches / Disciplines

Course Code	Course Title			At	tributes				SDGs
	MANAGEMENT, EDUCATION &	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
PT601	PROFESSIONAL ETHICS	1	4	1			٧	4	3,4,17



Effective from Session	on: 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			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	 Gait Parameter- Kinetic, Kinematic, Time – Space, Pathological Gait –Running, Stair Climbing, Changes in Gait Following Various Surgeries /Diseases / Disorders. Posture- Standing, Sitting, Pathokinesiology 	8	CO4
5	BIOMECHANICS OF ORTHOSIS & PROSTHESIS	 Orthosis of Upper Limb, Orthosis of Lower Limb, 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:

- 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

Attributes & SDGs Common for all branches / Disciplines											
Course Code	Course Title		Attributes								
PT602	BIOMECHANICS AND	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.		
	KINESIOLOGY-II	7	1	1		, and the second	1	7	2.4.0		



Effective from	Effective from Session: 2016-17										
Course Code	PT 603C	Title of the Course	PHYSIOTHERAPY-II (CARDIOPULMONARY SPECIFIC PHYSICAL THERAPY AND REHABILITATION)	ARDIOPULMONARY SPECIFIC PHYSICAL THERAPY AND L T							
Year	II	Semester	r III 3 1 0 4								
Pre-Requisite	Nil	Nil Co-requisite Nil									
Course Objectives	conceptual framework cardiopulmonary co 2. Armed with a so balance, mobility, a	ork for clinical productions deficits. Olid foundation, stand upper extremi	ories of cardiopulmonary conditions, and recovery of function, studer ractice and a practical framework for understanding and examining Impartudents then build a thorough understanding of motor control issues as the function. For each of these three key areas, the authors discuss normal the clinical applications of current research.	airmen ney rel	ts in pa	osture	with and				

	Course Outcomes
CO1	An overview of Cardiopulmonary anatomy & Physiology: Understanding and importance of cardiopulmonary anatomy and physiology about
	structure, course and function of alveoli, different tracts of respiratory pathways and regulations of cardiopulmonary system.
CO2	Congenital & Disorders: Understanding about etiology, clinical presentation and management of congenital & Disorders: Understanding about etiology, clinical presentation and management of congenital & Disorders: Understanding about etiology, clinical presentation and management of congenital & Disorders: Understanding about etiology, clinical presentation and management of congenital & Disorders: Understanding about etiology, clinical presentation and management of congenital & Disorders: Understanding about etiology, clinical presentation and management of congenital & Disorders: Understanding about etiology, clinical presentation and management of congenital & Disorders: Understanding about etiology, clinical presentation and management of congenital & Disorders: Understanding about etiology, clinical presentation and Disorders and Disor
	disease of cardiopulmonary conditions.
CO3	Pulmonary conditions: Understanding about etiology, clinical presentation and management of respiratory & presentation and management of respiratory and presentation and presentatio
	pulmonary system & its complications.
CO4	Diseases of the Cardiopulmonary system and its management: Understanding about etiology, clinical presentation and management of
	Cardiopulmonary & neuromuscular diseases.
CO5	Cardiothoracic Surgery: Understanding about traumatic injury of lungs and Heart with its complication and their management.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	PRE-TEST CLINICAL EVALUATION IN EXERCISE TESTING	 Medical history, physical examination, and laboratory tests Alternative stress tests Blood pressure Cholesterol and lipoproteins Blood profile analyses Pulmonary function Contraindication of exercise testing Informed consent Patient instruction 	8	CO 1
2	CARDIOPULMONA RY FITNESS TESTING AND INTERPRETATION	 Purpose of fitness testing Basic principles and guidelines Body composition Concept of maximal oxygen uptake Maximal verses submaximal exercise testing Modes of testing Cardiopulmonary test sequence and measures Test termination criteria 	8	CO 2
3	MAJOR MANIFESTATIONS OF HEART DISEASE & CARDIAC REHABILITATION	Development, Intervention, and Prevention of Coronary Artery Disease. 1. Atherosclerosis a) Process of Plaque Formation b) Acute Coronary Syndromes 2. Contemporary Revascularization Procedures a) Coronary Arteries and CAD b) Coronary Artery Bypass Surgery c) Percutaneous Coronary Interventions 3. Efficacy of Secondary Prevention and Risk Factor Reduction a) Cardiac Rehabilitation b) Prescription Drug Therapies c) Smoking d) Dyslipidemia e) Diabetes Mellitus f) Obesity g) Hypertension h) Sedentary Lifestyl i) Psychosocial Dysfunction j) Other Risk Factors k) Optimizing Secondary Prevention 4. Psychosocial Issues and Strategies a) Psychosocial Evaluation b) Psychosocial Interventions c) Promoting Adherence.	8	CO 3
4	ROLE OF EXERCISE IN HEART DISEASE	 Exercise and the Coronary Heart Disease Connection a) Observational Data b) Cardiorespiratory Fitness and Coronary Death c) Exercise Training in Established Coronary Disease d) Risks of Acute Exercise e) Potential Mechanisms of Exercise Benefit Cardiovascular and Exercise Physiology a) Energy Systems and Cellular Respiration b) Cardiopulmonary Response c) Perturbation of the Exercise Response in CVD d) Adaptations to Exercise Training. 	8	CO 4
5	ELECTROCARDIO GRAPHY IN HEART DISEASE	Electrocardiography in Heart Disease a) Electrodes and Leads b) Supraventricular Arrhythmias c) Ventricular Arrhythmias. d) Atrioventricular (AV) Blocks e) Bundle Branch Blocks f) Myocardial Infarction and Ischemia. g) ST Segment Deviations During Exercise. h) ECG Monitoring Issues During Exercise.	8	CO 5

Reference Books:

- 1. Physiotherapy for Respiratory and Cardiac Problems by Jennifer A. Pryor, S. Ammani Prasad
- 2. Lifestyle Management for Patients With Coronary Heart Disease; by Houston Miller
- 3. Training Techniques In Cardiac Rehabilitation; by Fardy, Paul
- 4. Exercise Prescription for the High-Risk Cardiac Patient; by Squires, Ray
- 5. Physical Activity and Cardiovascular Health; by Leon, Arthur,
- 6. Advances in Cardiopulmonary Rehabilitation: by Jobin, Jean
- 7. Coronary Artery Disease; Author: Brubaker, Peter
- 8. Advancing the Frontiers of Cardiopulmonary Rehabilitation; by Jobin, Jean
- 9. Exercise and Circulation in Health and Disease; by Saltin, Bengt

e-Learning Source:

- 1. https://www.youtube.com/watch?v=AOYChv_27QQ
- 2. https://youtu.be/gtAdIc_uTvA
- 3. https://youtu.be/UfnKkdcvCMg
- 4. https://youtu.be/T3ua XrIomk

					C	ourse A	Articula	ation M	latrix: ((Mappin	g of CO	s with PC)s and PS	SOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO																	
CO1	1	1	3	3	3	2	2	1	1	-	-	-	2	1	1	2	2
CO2	2	3	3	3	3	2	2	1	-	-	-	-	3	2	1	2	2
CO3	3	3	2	2	3	2	2	1	1	-	1	-	3	1	2	3	2
CO4	2	3	3	2	3	2	2	1	2	1	2	1	2	3	1	2	2
CO5	2	2	3	1	3	2	1	-	-	-	-	-	2	1	-	1	1

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

Course Code	Course Title			At	tributes				SDGs
PT603C	PHYSIOTHERAPY -II	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
	(C)	V	√	√	1		1	1	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	Nil										
Course Objectives	Students will be able	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 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:

CO5

- 6. https://www.youtube.com/watch?v=r7 TMkY9l2g
- 7. https://www.youtube.com/watch?v=y2JZEzTG_BI
- 8. https://www.youtube.com/watch?v=6-nSvntEANY
- 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	DO1	DO2	DO3	DO4	DO5	DO6	DO7	DOS	DO0	PO10	DO11	DO12	DSO1	DSO2	PSO3	DSO4	PSO5
CO	101	102	103	104	103	100	107	100	109	1010	1011	1012	1301	1302	1303	1304	1303
CO1	3	2	1	2	2	2	1	3	2	1	1	-	3	2	3	2	2
CO2	3	2	3	2	3	2	2	2	1	1	1	-	3	3	2	2	2
CO3	2	2	2	2	3	3	1	2	1	1	1	-	3	3	2	2	2
CO4	3	3	3	3	2	2	1	2	1	-	-	1	3	3	2	2	2

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation Attributes & SDGs Common for all branches / Disciplines

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Course Code	Course Title		Attributes S											
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	PT 605C	Title of the Course	PHYSIOTHERAPY-II LAB (CARDIOPULMONARY SPECIFIC PHYSICAL THERAPY AND REHABILITATION)	L	T	P	C
Year	II	Semester	III	0	0	4	2
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	framework f cardiopulmor issues as the	for clinical practice an nary conditions deficits. y relate to posture and b	f cardiopulmonary conditions, and recovery of function, students are produced a practical framework for understanding and examining Impairs. Armed with a solid foundation, students then build a thorough underst balance, mobility, and upper extremity function. For each of these three-related issues, abnormal function, and the clinical applications of current	ments anding e key	in pat g of mo areas, t	tients v	with trol

	Course Outcomes									
CO1	To understanding and practical aspects of cardiopulmonary pre-test clinical evaluation in exercise testing.									
CO2	To understanding and importance of cardiopulmonary fitness testing and interpretation.									
CO3	To understanding and importance of major manifestations of heart disease & cardiac rehabilitation									
CO4	To understanding and practical aspects of role of exercise in heart disease.									
CO5	To understanding and importance of electrocardiography in heart disease.									

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	PRE-TEST CLINICAL EVALUATION IN EXERCISE TESTING	Practical aspects of the followings: Medical history, physical examination, and laboratory tests. Alternative stress tests. Blood pressure. Cholesterol and lipoproteins. Blood profile analyses. Pulmonary function Contraindication of exercise testing. Informed consent. Patient instruction.	8	CO 1
2	CARDIOPULMONA RY FITNESS TESTING AND INTERPRETATION	Practical aspects of the followings: Purpose of fitness testing. Basic principles and guidelines. Body composition. Concept of maximal oxygen uptake. Maximal verses submaximal exercice testing. Modes of testing. Cardiopulmonary test sequence and measures. Test termination criteria.	8	CO 2
3	MAJOR MANIFESTATIONS OF HEART DISEASE & CARDIAC REHABILITATION	Practical aspects of the followings: Development, Intervention, and Prevention of Coronary Artery Disease. 1. Contemporary Revascularization Procedures 2. Efficacy of Secondary Prevention and Risk Factor Reduction 3. Psychosocial Issues and Strategies	8	CO 3
4	ROLE OF EXERCISE IN HEART DISEASE	Practical aspects of the followings: 1. Exercise and the Coronary Heart Disease Connection 2. Cardiovascular and Exercise Physiology	8	CO 4
5	ELECTROCARDIOG RAPHY IN HEART DISEASE	Practical aspects of the followings: Electrocardiography in Heart Disease: a) Electrodes and Leads b) Supraventricular Arrhythmias. c) Ventricular Arrhythmias. d) Atrioventricular (AV) Blocks. ne) Bundle Branch Blocks . f) Myocardial Infarction and Ischemia. g) ST Segment Deviations During Exercise. h) ECG Monitoring Issues During Exercise.	8	CO 5

Reference Books:

- Physiotherapy for Respiratory and Cardiac Problems by Jennifer A. Pryor, S. Ammani Prasad
- Lifestyle Management for Patients With Coronary Heart Disease; by Houston Miller
- Training Techniques In Cardiac Rehabilitation; by Fardy, Paul
- Exercise Prescription for the High-Risk Cardiac Patient; by Squires, Ray
- Physical Activity and Cardiovascular Health; by Leon, Arthur,
- Advancing the Frontiers of Cardiopulmonary Rehabilitation; by Jobin, Jean 6.
- Exercise and Circulation in Health and Disease; by Saltin, Bengt 7.

e-Learning Source:

- https://www.youtube.com/watch?v=AOYChv 27QQ 1.
- https://youtu.be/gtAdIc_uTvA
- https://youtu.be/UfnKkdcvCMg https://youtu.be/T3ua_XrIomk
- 4.

					C	Course A	Articula	ation M	latrix: ((Mappin	g of CO	s with PC	s and PS	SOs)			
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	3	2	3	2	2	1	2	-	-	-	2	1	1	2	2
CO2	2	3	3	2	3	2	2	1	-	-	-	-	3	2	1	2	2
CO3	2	3	2	2	3	2	2	1	1	-	1	-	3	1	2	3	2
CO4	2	3	2	2	3	2	2	1	2	1	2	1	2	3	1	2	2
CO5	3	2	3	1	2	2	1	-	-	-	-	-	2	1	-	1	1

Attributes & SDGs												
Course Code	Course Title		Attributes									
	PHYSIOTHER APY -II	Employability	Entropropourchin	Skill	Gender	Environment &	Human	Professional	No.			
PT605C	PHISIOTHERAPI -II	Employability	Entrepreneurship	Development	Equality	Sustainability	Value	Ethics	ı			
	(C)		-1	-1	_1		1.	-1	3.1			



Effective from Session: 2016-17									
Course Code PT606 Title of		Title of the Course	SEMINAR ON CLINICAL ISSUES	L	T	P	C		
Year	Zear II Semester III			0	3	0	3		
Pre-Requisite	uisite Nil Co-requisite Nil								
Course Objectives	issues in the effi		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 pointpresentation								
	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:	
Enrollment Number:		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	
(IVIAX IIIAIKS-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 (Max marks-09)	Has the ability to think on the spot	03	
(iviax 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	1503
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

,			,		
Attributes	& SDGs	Common	for all	branches /	Disciplines
		0 0			

Course Code	Course Title	Attributes							SDGs No.
	SEMINAR ON CLINICAL	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT606		yability	neurship	Development	Equality	Sustainability	Value	Ethics	
	ISSUES	1	√	√	√		√	√	3,4,11



Effective from Ses	Effective from Session: 2016-17								
Course Code	ourse 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 i	Students will engage in clinical practice in Physiotherapy departments in the musculoskeletal, neurology, cardiopulmonary,							
Objectives	sports settings to enhan	nce their clinical skills ar	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:	
Enrolment Number:		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.	MP1	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	20 Marks		50 Marks	5 Marks
3.	MIPT	IInd Year/ 3rd Semester	20 Marks	(1 Long Case and 2 Short Case)		3 Warks
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	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

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation Attributes & SDGs Common for all branches / Disciplines

Course Code	Course Title				Attribut	es			SDGs No.
		Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT607	CLINICAL POSTING	yability	neurship	Development	Equality	Sustainability	Value	Ethics	
		√	√	√	1		7	7	3,4,11



INTEGRAL UNIVERSITY, LUCKNOW INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHYSIOTHERAPY

MASTER OF PHYSIOTHERAPY (MPT) CARDIOPULMONARY

SYLLABUS

YEAR/ SEMESTER: II/IV



Effective from S	ession: 2016-17						
Course Code	Course Code PT 608C		PHYSIOTHERAPY-III	L	Т	P	C
		Course	(CARDIOPULMONARY REHABILITATION & HEALTH PROMOTION)				
Year	II	Semester	IV	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	conceptual fram cardiopulmonar 2. Armed with	nework for clinica y conditions defica a solid foundation	, students then build a thorough understanding of motor control issues as they r	ents in	n patie to pos	nts v	with and
			emity function. For each of these three key areas, the authors discuss normal cor and the clinical applications of current research.	itrol p	proces	ses, a	age-

	Course Outcomes								
CO1	Understanding about the assessment, diagnosis, exercise prescription and resistance training of cardiopulmonary diseases.								
CO2	Understanding and special considerations for evaluations, exercise testing, prescriptions and training of cardiopulmonary conditions.								
CO3	Pulmonary rehabilitation: understanding about the rehabilitations and psychosocial assessment of respiratory conditions.								
CO4	Specific pulmonary rehabilitation: Understanding about Specific approaches for pulmonary rehabilitations of respiratory diseases.								
CO5	Post surgical pulmonary rehabilitation: Understanding about the post surgical rehabilitative support of respiratory diseases.								

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	INTERPRETATION OF CLINICAL TEST DATA	1.Exercise testing as a screening tool for coronary artery disease 2.Interpretation of response to graded exercise testing 3.Maximal oxygen uptake: Heart rate response, Blood pressure response, ECG wave forms. 4.Diagnostic value of exercise testing: Sensitivity, Specificity, Predictive value, Comparisons with imaging stress tests, Prognostic application of exercise test5.Interpretation of exercise tests in pulmonary patients. 6.Exercise prescription in cardiovascular rehabilitation: Mode, Intensity, Frequency, Duration, Rate of Progression, Training Specificity, Arm Exercise Prescription, and Resistance Training. 7.Exercise testing as a screening tool for coronary artery disease	8	CO 1
2	OUTCOME MEASURES IN CARDIAC REHABILITATION	Special Considerations1.Women: Treatment of Coronary Heart Disease, Evaluation of Chest Pain, Cardiac Risk Factors, Non-invasive stress testing, Exercise Benefits, Enrollment and Adherence in Exercise Programs. 2. Older Patients: Cardiovascular Physiologic Changes of Aging, Coronary Heart Disease Risk Factor Management, Exercise Training. 3. Diabetes Mellitus: Classification, Diagnosis, and Screening, Complications, Medical Management, Exercise Prescription 4. Chronic Heart Failure: Exercise Benefits, Exercise Testing, Exercise Training. 5. Heart Transplantation: Physiology of the Denervated Heart, Exercise Responses, Evidence for Reinnervation, Exercise Training.	8	CO 2
3	PULMONARY REHABILITATION	1.Overview: Definition and Scope of Pulmonary Rehabilitation, The Burden of Chronic Respiratory Disease, A Brief History of Pulmonary Rehabilitation, Essential Components of Pulmonary Rehabilitation, Prevention, Patient Goals, Program Goals. 2. Selection and Assessment of the Pulmonary Rehabilitation Candidate: Patient Selection, Patient Assessment, Goal Development, Rehabilitation Potential. 3.Patient education and skills training: Education process, Focus and Scope of Educational and Skills Training 4.Exercise Assessment and Training: Exercise Assessment, Functional Performance Assessment, Exercise Training, Emergency Procedures 5.Psychosocial Assessment and Intervention: Adjustment Process, Psychosocial Assessment, Psychosocial Interventions.	8	CO 3
4	SPECIFIC PULMONARY REHABILITATION	Disease-Specific Approaches in Pulmonary Rehabilitation-1.Asthma 2.Cystic Fibrosis 3.Interstitial Lung Disease 4.Obesity-Related Respiratory Disorders 5.Pulmonary Hypertension 6.Neuromuscular and Chest Wall Disorders	8	CO 4
5	POST SURGICAL PULMONARY REHABILITATION	Mode, Intensity, Frequency, Duration, Rate of Progression Training Specificity, Arm Exercise Prescription, Resistance Training- 1.Lung Volume Reduction Surgery 2.Lung Transplantation 3.Lung Cancer and Thoraco-abdominal Surgery 4.Mechanical Ventilation 5.Pediatric Patients With Respiratory Disease	8	CO 5
Referen	ice Books:			
1.	- 	iratory and Cardiac Problems - by Jennifer A. Pryor, S. Ammani Prasad		
2.		for Patients With Coronary Heart Disease; by Houston Miller Cardiac Rehabilitation; by Fardy, Paul		

- Coping With Heart Illness Video Pkg (NTSC); by Human Kinetics
- Exercise Prescription for the High-Risk Cardiac Patient; by Squires, Ray
- Physical Activity and Cardiovascular Health; by Leon, Arthur,
- Advances in Cardiopulmonary Rehabilitation: by Jobin, Jean
- 8. Coronary Artery Disease; Author: Brubaker, Peter
- Advancing the Frontiers of Cardiopulmonary Rehabilitation; by Jobin, Jean

e-Learning Source:

- https://www.youtube.com/watch?v=BLEkl48T-gk
- https://youtu.be/wNuzCsJXvnk
- 3. https://youtu.be/bE33Wmcz9zQ
- 4. https://youtu.be/NHNSB3q4x2g

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

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

Course Code	Course Title				Attribut	es			SDGs No.
	PHYSIOTHERAPY-III	Emplo	Entrepre	Skill	Gender	Environment &	Human	Professional	
PT608C	(2)	yability	neurship	Development	Equality	Sustainability	Value	Ethics	i l
	(C)	1	1	√	4		1	1	3,4



Effective from S	lession: 2016-17						
Course Code	PT 609C	Title of the Course	PHYSIOTHERAPY-III LAB (CARDIOPULMONARY REHABILITATION & HEALTH PROMOTION)	L	T	P	С
Year	II	Semester	IV	0	0	4	2
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	conceptual framework for cardiopulmonary conditio 2. Armed with a solid fou balance, mobility, and up	clinical practice and a ns deficits. Indation, students then l per extremity function.	liopulmonary conditions, and recovery of function, studes practical framework for understanding and examining important a thorough understanding of motor control issues as the for each of these three key areas, the authors discuss normal applications of current research.	airmen hey rel	ts in pa	tients v	with and

	Course Outcomes								
CO1	Understanding about the assessment, diagnosis, exercise prescription and resistance training of cardiopulmonary diseases.								
CO2	Understanding and special considerations for evaluations, exercise testing, prescriptions and training of cardiopulmonary conditions.								
CO3	Pulmonary rehabilitation: understanding about the rehabilitations and psychosocial assessment of respiratory conditions.								
CO4	Specific pulmonary rehabilitation: Understanding about Specific approaches for pulmonary rehabilitations of respiratory diseases.								
CO5	Post surgical pulmonary rehabilitation: Understanding about the post surgical rehabilitative support of respiratory diseases.								

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	INTERPRETATION OF CLINICAL TEST DATA	Demonstration of application of various screening tool for cardiopulmonary disease with Interpretations.	8	CO 1
2	OUTCOME MEASURES IN CARDIAC REHABILITATION	Demonstration of application of specific outcome measures for cardiac rehabilitation.	8	CO 2
3	PULMONARY REHABILITATION	Demonstration of Selection and Assessment of the Pulmonary Rehabilitation Candidate, Patient education, skills training, Exercise Training & Psychosocial Assessment and Intervention.	8	CO 3
4	SPECIFIC PULMONARY REHABILITATION	Demonstration of Disease-Specific Approaches in Pulmonary Rehabilitation for: 1.Asthma 2.Cystic Fibrosis 3.Interstitial Lung Disease 4.Obesity- Related Respiratory Disorders 5.Pulmonary Hypertension 6.Neuromuscular and Chest Wall Disorders	8	CO 4
5	POST SURGICAL PULMONARY REHABILITATION	Case based demonstration of post surgical pulmonary rehabilitation.	8	CO 5

Reference Books:

- 1. Physiotherapy for Respiratory and Cardiac Problems by Jennifer A. Pryor, S. Ammani Prasad
- 2. Lifestyle Management for Patients With Coronary Heart Disease; by Houston Miller
- 3. Training Techniques In Cardiac Rehabilitation; by Fardy, Paul
- 4. Coping With Heart Illness Video Pkg (NTSC); by Human Kinetics
- 5. Exercise Prescription for the High-Risk Cardiac Patient; by Squires, Ray
- 6. Physical Activity and Cardiovascular Health; by Leon, Arthur,
- 7. Advances in Cardiopulmonary Rehabilitation: by Jobin, Jean
- 8. Coronary Artery Disease; Author: Brubaker, Peter
- 9. Advancing the Frontiers of Cardiopulmonary Rehabilitation; by Jobin, Jean

e-Learning Source:

- 1. https://www.youtube.com/watch?v=BLEkl48T-gk
- 2. https://youtu.be/wNuzCsJXvnk
- 3. https://youtu.be/bE33Wmcz9zQ
- 4. https://youtu.be/NHNSB3q4x2g

		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	1	103	100	107	100	10)	1010	1011	1012	1501	1502	1503	1504	1503
CO1	3	2	3	2	3	2	1	1	1	-	-	-	3	1	1	2	2
CO2	2	2	3	2	3	2	3	2	-	-	-	-	2	1	1	2	2
CO3	3	3	3	3	3	2	3	3	2	-	2	2	3	3	2	1	2
CO4	2	3	3	2	3	2	3	3	2	-	2	2	3	3	2	1	2
CO5	3	3	3	3	3	2	3	3	2	-	2	2	3	3	2	1	2

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

Course Code	Course Title				Attributes				
PT609C	PHYSIOTHERAPY-III LAB (C)	Employabili ty	Entrepren eurship	Skill Developmen t	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	SDGs No.
	End (O)	√	√	4	√		√	√	3,4



Effective from Session: 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 this course is to develop independence in the research skills and to develop the research interpretation											
Course Objectives	skill. To promote education and research in physiotherapy and provide academic and professional excellence for immediate											
Ů	productivity in hosp	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:	
Enrollment Number:		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	Obtained
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	Conclusion, signification.	3	
8.	Examination.	Bibliography	3	
9.		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)

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO CO	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

		At	irroutes & b	DOS COMMON I	or an oranche	5 / 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	Effective from Session: 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	This course will serve as a platform for students to integrate various components of patient management and debate contentious												

	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:	
Enrollment Number:		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	
(IVIAX IIIAIKS-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 (Max marks-06)	Has a good design of presentation (appropriate font, type, size, color, matter per slide etc.)	03	
(IVIAX IIIAIKS-00)	Has a clear verbal expression and eye contact with audience	03	
Desmance to questions	Answers question(s) correctly	03	
Response to questions (Max marks-09)	Has the ability to think on the spot	03	
(IVIAX IIIAIKS-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	1505	150	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

Attributes	& SDGS	Common for	an branches	/ Disciplines
			Attribute	S

		120	erroutes et a	2 op common i	or am or amend	o i Discipilites							
Course Code	Course Title		Attributes										
PT611	SEMINAR ON CLINICAL	Emplo yability	Entrepre neurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics					
	ISSUES	√	\ \	√	√		√	1	3,4,11				



Effective from S	Effective from Session: 2016-17											
Course Code	PT612	Title of the Course	CLINICAL POSTING	L	T	P	C					
Year	II	Semester	nester III 0 0 14 7									
Pre-Requisite	Nil	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 sessio	ns.								

	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:	
Enrolment Number:		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.	MPT	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.	MPT	Ist Year/ Ist Semester		25 Marks		
6.		Ist Year/ IInd Semester	20 Marks	(1 Long Case and 2	50 Marks	5 Marks
7.		IInd Year/ 3rd Semester	20 Marks	Short Case)		J Warks
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

_	7 Htteriau	1100-5	co-s 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	1503
	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	-	1	2	2	3	2	3
	CO3	3	3	3	3	2	2	3	2	1	3	-	1	3	2	2	2	3
	CO4	3	3	3	3	2	2	3	2	1	3	-	1	2	3	2	2	3
	CO5	3	3	3	3	2	2	3	2	1	3	-	-	3	2	3	3	2

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				
			1	,	1		1	,	2 4 11			