



INTEGRAL UNIVERSITY, LUCKNOW
INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHYSIOTHERAPY

MASTER OF PHYSIOTHERAPY
(MPT)
SPORTS

SYLLABUS

YEAR/ SEMESTER: II/III



Integral University, Lucknow

Effective from Session: 2016-17											
Course Code	PT601	Title of the Course	MANAGEMENT, EDUCATION & PROFESSIONAL ETHICS	L	3	T	1	P	0	C	4
Year	II	Semester	III								
Pre-Requisite	Nil	Co-requisite	Nil								
Course Objectives	<p>This course deals with basic issues of management to assist the practitioner in efficiently addressing issues related to the organization and administration of a Physiotherapy Department.</p> <p>The education module of this course will provide students information on improving their teaching skills in the classroom and clinical setting. Educational theory is presented. Students develop and present educational units to audiences that may include Bachelor of Physiotherapy students or peers. It provides the student with an introduction to ethical issues facing physiotherapists. Specific topics include documentation. A variety of current issues affecting the physiotherapy profession are addressed in this course. The science of management is presented as it relates to the essential functions of the business of physiotherapy. Following are the topics to be included but not limited to:</p>										

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 style="list-style-type: none"> 1. Management - Functions of Management, Evolution of Management Through Scientific Management Theory, Classical Theory - Systems Approach - Contingency Approach. 2. Management Process - Planning, Organization, Direction, Controlling Decision Making 3. Introduction to Personal Management - Staffing Recruitment Selection, Performance Appraisal, Collective Bargaining, Discipline, Job Satisfaction 4. Quantitative Methods of Management - Relevance of Statistical and / or Techniques in Management. 5. Marketing - Market Segmentation, Marketing Research Production Planning Pricing, Channels of Distribution, Promotion, Consumer Behavior, and Licenses 6. 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 Confidentiality.	8	CO2
3	EDUCATION	<ol style="list-style-type: none"> 1. Philosophy of Education and Emerging issues in Education. 2. 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). 3. Concept of Teaching and Learning: Meaning and Scope of Educational Psychology, meaning and relationship between teaching and learning. 4. 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	<ol style="list-style-type: none"> 1. 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. 2. Method and Techniques of Teaching: Lecture, Demonstration, Discussion, Seminar, Assignment, Project and Case Study. 3. Planning for Teaching: Bloom's Taxonomy of Instructional Objectives, Writing Instructional Objectives in Behavioral Terms. Unit Planning and Lesson Planning. 4. Teaching Aides: Types of Teaching Aides, Principles of Selection, Preparation, and Use of Audio-Visual Aides. 5. 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	<ol style="list-style-type: none"> 1. The Implications & Conformation to the Rules of Professional Conduct. 2. Code of Ethics. 3. Legal Responsibility for Their Actions in the Professional Context and Understanding the Physiotherapist's Liability And Obligations In The Case of Medical Legal Action. 4. A Wider Knowledge of Ethics Relating to Current Social and Medical Policy in the Provisions of Health Care. 5. The Role of the International Health Agencies Such as the World Health Organizations. 6. 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. 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- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
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	Attributes							SDGs No.
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
PT601	MANAGEMENT, EDUCATION & PROFESSIONAL ETHICS	√	√	√			√	√	3,4,17



Integral University, Lucknow

Effective from Session: 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	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	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. Nordin.
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_TMkY9I2g
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	PO3	PO4	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
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

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

Attributes & SDGs Common for all branches / Disciplines

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



Integral University, Lucknow

Effective from Session: 2016-17							
Course Code	PT603S	Title of the Course	PHYSIOTHERAPY-II (SPORTS SPECIFIC PHYSICAL THERAPY AND REHABILITATION)	L	T	P	C
Year	II	Semester	III	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	This course provides students with the principles of Physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorders. Through lectures, case conferences, journal discussions and class discussions students will be able to set up a treatment Programme tailored to the patient's needs						

Course Outcomes	
CO1	Basic principles of biomechanics are reinforced with added emphasis on the changes in biomechanical function and their subsequent effect on the potential and influence on overuse injuries.
CO2	A study of the sporting environment and its effect on injury mechanism, prevention and rehabilitation. The principles of injury Pathomechanics, tissue responses to loading and the role of sports equipment in sports injury prevention and rehabilitation
CO3	Student will understand about body type used in sports and different body measurement technique used in sports, effect of these measurement on performance
CO4	Student will understand ergogenic aid used in sports and natural way of increasing the performance, basic rules of doping and all drugs that are banned by WADA .and adverse effect of drugs on the body and how to control the doping
CO5	Basic knowledge of sports nutrition and diet which athlete have to take before game. And how athlete can sustain the activity without fatigue.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	SPORTS BIOMECHANICS	Basic principles of biomechanics are reinforced with added emphasis on the changes in biomechanical function and their subsequent effect on the potential and influence on overuse injuries. 1. Biomechanics Running. 2. Biomechanics Throwing. 3. Biomechanics Jumping, 4. Biomechanics Swimming. The student to analyze, explain and correct abnormal human movement of the above Sports Biomechanics using a variety of evaluative techniques and computerized tools.	8	CO1
2	SPORTS ERGONOMICS	A study of the sporting environment and its effect on injury mechanism, prevention and rehabilitation. The principles of injury Pathomechanics, tissue responses to loading and the role of sports equipment in sports injury prevention and rehabilitation. The following specific areas will be studied: 1. Mechanical support to the body - taping, splinting, braces, orthotics. 2. Protective equipment - body padding, mouth guards, helmets, headgear,etc., 3. Sport-specific problems. 4. Shoe-surface interaction (Athletic Shoes) - footwear design, surface characteristics, traction, various modifications and adaptations in shoes for specific situations and conditions. The evaluation of shoes and shoe prescription.	8	CO2
3	KINANTHROPOMETRY IN SPORTS	1. Introduction to kin anthropometry 2. Evaluation techniques 3. Body composition 4. Somatotyping	8	CO3
4	ERGOGENIC AIDS & DOPING	1. Doping, 2. Types of doping, 3. TUEC, 4. Blood Doping. 5. Gene Doping	8	CO4
5	SPORTS NUTRITION	1. Introduction to sports nutrition 2. Special considerations for competitive athletes & Energy needs of the athlete 3. Pre-competition meals 4. Content of pre-competition meals, Glucose and insulin responses of pre-competition meals. 5. Glycogen loading (super compensation)	8	CO5

Reference Books:

1. Prentice, William E., Rehabilitation Techniques in Sports Medicine, St. Louis: McGraw Hill Publishing Company.
2. Gray, Gary W., Lower Extremity Functional Profile, 1st Edition, Adrian, MI: Wynn Marketing.
3. Prentice, W. "Therapeutic Modalities for Allied Health Professionals" McGraw Hill.
4. Reed: Sports Injuries - Assessment and Rehabilitation, W.B. Saunders.
5. William E. Prentice: Rehabilitation Techniques - Mosby.
6. Werner Kuprian: Physical Therapy for Sports, W.B. Saunders
7. Ed. Burke & Deakin. Clinical Sports Nutrition, 3rded., McGraw-Hill
8. Exercise physiology, Katch And Katch, Mccardle

e-Learning Source:

1. <https://www.researchgate.net/publication/359637877> Biomechanics of the Hammer Throw Narrative Review
2. <https://www.researchgate.net/publication/51201249> Blood doping and its detection
3. <https://www.researchgate.net/publication/20820752> The assessment of the body fat percentage by skinfold thickness in childhood and young adolescence
4. <https://www.researchgate.net/publication/359783042> What is the effect of ankle disk training and taping on proprioception deficit after lateral ankle sprains 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
CO1	3	2	2	2	3	2	1	1	-	-	-	-	3	2	3	-	3
CO2	3	2	2	2	3	2	1	1	-	-	-	-	3	2	3	-	3
CO3	3	2	2	2	3	2	1	1	-	-	-	-	2	2	2	-	2
CO4	1	-	1	-	1	-	-	2	3	-	-	3	-	-	2	2	-
CO5	3	2	3	2	3	2	2	1	2	-	-	1	2	-	2	3	-

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

Attributes & SDGs

Course Code	Course Title	Attributes							SDGs No.
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
PT603S	PHYSIOTHERAPY –II (S)	√	√	√	√		√	√	3,4



Integral University, Lucknow

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 Objectives	Students will engage in clinical practice in Physiotherapy departments in the musculoskeletal, neurology, cardiopulmonary, 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 POSTING ASSESSMENT 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.	MPT	Ist Year/ Ist Semester	4 Months
2.		Ist Year/ IInd Semester	4 Months
3.		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.	MPT	Ist Year/ Ist Semester	20 Marks	25 Marks (1 Long Case and 2 Short Case)	50 Marks	5 Marks
2.		Ist Year/ IInd Semester				
3.		IInd Year/ 3rd Semester				
4.		IInd Year/ 4th Semester				

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 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

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



INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHYSIOTHERAPY

MASTER OF PHYSIOTHERAPY

(MPT)

SPORTS

SYLLABUS

YEAR/ SEMESTER: II/IV



Integral University, Lucknow

Effective from Session:							
Course Code	PT608S	Title of the Course	PHYSIOTHERAPY-III (SPORTS SPECIFIC PHYSICAL THERAPY AND REHABILITATION)	L	T	P	C
Year	II	Semester	IV	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	This course provides students with the principles of Physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorders. Through lectures, case conferences, journal discussions and class discussions students will be able to set up a treatment Programme tailored to the patient's needs						

Course Outcomes	
CO1	This course provides students with the principles of physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorders in noncontact sports injuries
CO2	This course provides students with the principles of physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorders in limited contact sports injuries
CO3	This course provides students with the principles of physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorders in semi contact sports injuries
CO4	This course provides students with the principles of physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorder in full contact sports injuries
CO5	Student will understand about current issue in management of sports specific injuries and recent advances in technique

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Noncontact Sports Injuries	1.Injuries related to Cricket 2. Injuries related to Running 3.Injuries related to Swimming 4.Injuries related to Volleyball 5.Injuries related to Tennis 6.Injuries related to Badminton 7. Injuries related to Gymnastics.	8	CO1
2	Limited Contact Sports Injuries	1.Injuries related to Football 2. Injuries related to Baseball 3.Injuries related to Basket-ball 4.Injuries related to Hockey 5.Injuries related to Cycling	8	CO2
3	Semi Contact Sports Injuries	1.Injuries related to Karate 2 Injuries related to Kick Boxing 3.Injuries related to Chinese Martial Arts 4.Injuries related to Kalari Payattu 5.Injuries related to Judo	8	CO3
4	Full Contact Sports Injuries	1.Injuries related to Kabbadi 2.Injuries related to Handball 3.Injuries related to Australian Rules football 4.Injuries related to Taekwondo 5.Injuries related to Wrestling 6.Injuries related to Sumo 7.Injuries related to Boxing	8	CO4
5	Current Issues In Sports Physical Therapy	1.Dry needling 2. K taping. 3.Tai-Chi 4.Power Yoga 5.Other Recent methods in sports Rehabilitation	8	CO5

Reference Books:	
1.	Prentice, William E., Rehabilitation Techniques in Sports Medicine, St. Louis: McGraw Hill Publishing Company
2.	Sports Injuries: Mechanisms, Prevention, Treatment Freddie H. Fu, David Alan Stone, Lippincott Williams & Wilkins, 2001
3.	Reed: Sports Injuries - Assessment and Rehabilitation, W.B. Saunders
4.	Werner Kuprian: Physical Therapy for Sports, W.B. Saunders.
e-Learning Source:	
1-	https://www.researchgate.net/publication/279658546 A review of cricket injuries and the effectiveness of strategies to prevent cricket injuries at all levels
2-	https://www.researchgate.net/publication/359685359 Common Sports Injury in Football Players A Review
3-	https://www.researchgate.net/publication/306247784 Injuries Sustained by the Mixed Martial Arts Athlete
4-	https://www.researchgate.net/publication/348512423 A Literature Review on Common Injuries and Their Prevention in Kabaddi

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

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

Course Code	Course Title	Attributes							SDGs No.
PT608S	PHYSIOTHERAPY- III (S)	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	3,4
		√	√	√	√		√	√	



Integral University, Lucknow

Effective from Session: 2016-17

Course Code	PT609S	Title of the Course	PHYSIOTHERAPY-III LAB (SPORTS SPECIFIC PHYSICAL THERAPY AND REHABILITATION)	L	T	P	C
Year	II	Semester	IV	0	0	4	2
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	This course provides students with the principles of Physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorders. Through lectures, case conferences, journal discussions and class discussions students will be able to set up a treatment Programme tailored to the patient's needs						

Course Outcomes	
CO1	This course provides students with the principles of physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorders in noncontact sports injuries
CO2	This course provides students with the principles of physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorders in limited contact sports injuries
CO3	This course provides students with the principles of physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorders in semi contact sports injuries
CO4	This course provides students with the principles of physiotherapy management in sports related injuries and in sports training and the application of thesis principles in specific disorder in full contact sports injuries
CO5	Student will understand about current issue in management of sports specific injuries and recent advances in technique

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	NON CONTACT SPORTS INJURIES	Practical demonstration and hands on technique for assessment and management of following sports 1.Injuries related to Cricket. 2.Injuries related to Running. 3.Injuries related to Swimming. 4.Injuries related to Volleyball. 5.Injuries related to Tennis. 6.Injuries related to Badminton. 7. Injuries related to Gymnastics.	8	CO1
2	LIMITED CONTACT SPORTS INJURIES	Practical demonstration and hands on technique for assessment and management of following sports: 1. Injuries related to Football. 2. Injuries related to Baseball. 3. Injuries related to Basketball. 4. Injuries related to Hockey. 5.Injuries related to Cycling	8	CO2
3	SEMI CONTACT SPORTS INJURIES	Practical demonstration and hands on technique for assessment and management of following sports 1. Injuries related to Karate. 2. Injuries related to Kick Boxing 3. Injuries related to Chinese Martial Arts. 4.Injuries related to Kalari Payattu 5.Injuries related to Judo	8	CO3
4	FULL CONTACT SPORTS INJURIES	Practical demonstration and hands on technique for assessment and management of following sports: 1. Injuries related to Kabbadi 2.Injuries related to Handball. 3. Injuries related to Australian Rules football. 4.Injuries related to Taekwondo 5.Injuries related to Wrestling. 6.Injuries related to Sumo. 7.Injuries related to Boxing	8	CO4
5	CURRENT ISSUES IN SPORTS PHYSICAL THERAPY	Practical demonstration and hands on technique on advance physiotherapy technique: 1. Dry needling 2.K taping. 3.Tai-Chi. 4.Power Yoga. 5.Other Recent methods in sports Rehabilitation	8	CO5

Reference Books:

- 1.Prentice, William E., Rehabilitation Techniques in Sports Medicine, St. Louis: McGraw Hill Publishing Company
- 2.Sports Injuries: Mechanisms, Prevention, Treatment Freddie H. Fu, David Alan Stone, Lippincott Williams & Wilkins, 2001
- 3.Reed: Sports Injuries - Assessment and Rehabilitation, W.B. Saunders
4. Werner Kuprian: Physical Therapy for Sports, W.B. Saunders.

e-Learning Source:

- 1- https://www.researchgate.net/publication/279658546_A_review_of_cricket_injuries_and_the_effectiveness_of_strategies_to_prevent_cricket_injuries_at_all_levels
- 2- https://www.researchgate.net/publication/359685359_Common_Sports_Injury_in_Football_Players_A_Review
- 3- https://www.researchgate.net/publication/306247784_Injuries_Sustained_by_the_Mixed_Martial_Arts_Athlete
- 4- https://www.researchgate.net/publication/348512423_A_Literature_Review_on_Common_Injuries_and_Their_Prevention_in_Kabaddi

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

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

Attributes & SDGs

Course Code	Course Title	Attributes						SDGs No.
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics
PT609S	PHYSIOTHERAPY-III LAB (S)	√	√	√	√	√	√	√
								3,4



Integral University, Lucknow

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				
Course Objectives	The main objective of this course is to develop independence in the research skills and to develop the research interpretation skill. To promote education and research in physiotherapy and provide academic and professional excellence for immediate productivity in hospital, governmental, or clinical settings for an ultimate benefit of society and environment.						

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.	On the basics of continuous assessment (10 Marks)	Periodic Consultation with Guide	2	
2.		Regular collection of Data with the consultation of guide.	2	
3.		Command of the topic & presentation skill	2	
4.		Methods, analysis, dissuasion and Conclusions	2	
5.		Contribution to knowledge and thesis structure	2	
Review all heading				
1.	On the basics of External Evaluators at the time of End Sem Examination.	Introduction	3	
2.		Aims, objectives & research hypothesis	3	
3.		Review of literature	3	
4.		Material & Methods	3	
5.		Data analysis & results	3	
6.		Discussion, lamination & future study	3	
7.		Conclusion, signification.	3	
8.		Bibliography	3	
9.		Tables, graph, diagram & Annexure (if any) Statistical Analysis Master Chart	3	
10.		The deface of study	3	
Total Score			40	

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
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						SDGs No.	
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics
PT610	Dissertation	√	√	√	√	√	√	√	3,4,9, 17

