



INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH

DEPARTMENT OF PHYSIOTHERAPY

BACHELOR OF PHYSIOTHERAPY

(BPT)

SYLLABUS

YEAR/ SEMESTER: III/V



Integral University, Lucknow

Effective from Session: 2017-18										
Course Code	PT301	Title of the Course	GENERAL SURGERY				L	T	P	C
Year	III	Semester	V				3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil							
Course Objectives	The objectives of this course are that students at the end of course should have a broad understanding about common medical diseases which they would be handling as a physiotherapist. They should have a brief idea about Etiology, Pathology and Type and Degree of Disability the patient will have as result of the disease, so that he/she as a Physiotherapist with Physician should help the patient to achieve cure and/or ameliorate his/her illness and sufferings.									

Course Outcomes	
CO1	Student able to understand about general surgical procedures and post surgical complications
CO2	Student able to understand various degree of burn their management and basic procedure and advantage of plastic surgery
CO3	Student able to understand various abdominal surgeries
CO4	Student able to understand various conditions including Sinusitis & Rhinitis, Pharangitis & laryngitis, Deafness
CO5	Student able to understand various ophthalmological conditions

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	GENERAL SURGERY & INFECTIONS	1. Wound (basic principles of wound healing, types and management), 2. Ulcer, 3. Abscess, 4. Sinus, 5. Infection, 6. Tetanus	8	CO1
2	BURN & PLASTIC SURGERY	1. Burn, Scar, 2. Cysts, 3. Basics of Plastic Surgery, 4. Skin grafting, 5. Shocks, types, Clinical Feature and Management	8	CO2
3	ABDOMINAL SURGERY	1. Cholecystectomy & Hysterectomy, 2. Nephrectomy & Appendectomy, 3. Prostatectomy & Mastectomy, 4. Cystectomy & Colostomy, Hernia	8	CO3
4	ENT	1. Sinusitis & Rhinitis, 2. ASOM & CSOM, 3. Otosclerosis & Meneire's disease, 4. Pharangitis & laryngitis, 5. Deafness	8	CO4
5	EYE	1. Basic Sciences–Anatomy, Physiology of Eye, 2. Physiological & Refraction Optics, Squint. 3. Ocular motility disorder, 4. Lens–Cataract, Cornea and 5. Sclera-Ulcer, degeneration, Keratoplasty, Miscellaneous- 6. Brief about Glaucoma, Uvea and Retinal Disorder	8	CO5

Reference Books:	
1.	A Practical Guide to Operative Surgery: S.Das
2.	Short practice of Surgery: Baily and Love
3.	Principle of Surgery: Schwartz
4.	Concise book of general Surgery by Aggrawal, N.K.
5.	Essential of Surgery by Aggrawal, S.B.
6.	Surgery A clinical Approach by Bongard, Fred S.
7.	Many Jane Gray, J. A. Merrill.
8.	Text book of Ear, Nose & Throat disease By Mohammad Maqbool
9.	General Surgical Operations by R. M. Kirk and R.C.N. Williamson.
10.	A text of Clinical Ophthalmology
e-Learning Source:	
1.	https://youtu.be/5_bPMZsmfp8
2.	https://youtu.be/V1KhO6se7ko

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

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

Course Code	Course Title	Attributes						SDGs No.	
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics
PT 301	GENERAL SURGERY	√		√	√		√	√	3,4



Integral University, Lucknow

Effective from Session: 2017-18							
Course Code	PT302	Title of the Course	GENERAL ORTHOPEDICS & TRAUMATOLOGY	L	T	P	C
Year	III	Semester	V	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	The objective of this course is that after the lectures & demonstration, in addition to clinics the student will be able to demonstrate an understanding of orthopedic conditions causing disability and their management. In addition the student will be able to fulfill with 75% accuracy (as measured by written, oral & practical internal evaluations) the following objectives of the course.						

Course Outcomes	
CO1	Students will understand about basic concept of bone and joint infection, bone tumours & TB with their clinical examination, investigation and management.
CO2	Knowledge in regards to different types of metabolic and non-traumatic disorders of bone (Osteomalacia, Rickets, Osteoporosis, and Osteonecrosis) is gained.
CO3	Students will understand the etiology, classification, pathology, clinical features, relevant investigation, complications and surgical management of the fracture
CO4	Gain knowledge about fracture dislocation and soft tissue injury with their investigation and management
CO5	Learn about the principles, contraindications, indications, complications of different types of techniques used in Orthopedic Surgery.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	GENERAL ORTHOPAEDICS	Basic concept of bone and joint infections (Clinical examination, investigation, management).Osteomyelitis & infectious arthritis, T.B of joint and spine. General principle of Bone Tumors & Common benign and malignant tumor of bones	8	CO1
2	METABOLIC AND OTHER NON TRAUMATIC DISORDER OF BONE	Osteomalacia & Rickets, Osteoporosis, Paget's disease & Osteopetrosis, Osteonecrosis & Osteochondrosis	8	CO2
3	TRAUMATOLOGY (FRACTURE)	Basics of fracture(Healing, clinical & radiological feature of fracture), Complication of fracture & basic principle of fracture management, Common fracture of long bone of U/L (Humerus, Radius, Ulna, Metacarpal & Phalanges),Common fracture of long bone of L/L (Femur, Tibia, Fibula, Metatarsal, &Phalanges)	8	CO3
4	TRAUMATOLOGY (FRACTURE, DISLOCATION & SOFT TISSUEINJURY)	Common fracture of spine (Cervical, Thoracic, Lumbar),Basic concept of dislocation, Ligament, Tendon , Muscle injury, Shoulder & Elbow, Hip &Patella	8	CO4
5	COMMON ORTHOPAEDIC SURGERY	Arthrodesis and Arthroplasty. Bone grafting and Tendon transfer. Osteotomy and Arthroscopy. Amputation (Basic principle, level, indication contraindication complication)	8	CO5

Reference Books:

1. Essential Orthopaedics: Maheshwari
2. Textbook of Orthopaedics: Kotwal and Natrajan
3. Apley System of orthopedics and Fracture
4. Essential Clinical Orthopaedics by John Ebenezer
5. Outline of fracture: Adams

e-Learning Source:

1. <https://youtu.be/l9yGc73lrss>
2. <https://youtu.be/NMJnvtjdUfc>
3. <https://youtu.be/7uc-tm6kmo0>
4. <https://youtu.be/7uc-tm6kmo0>
5. <https://youtu.be/h-pLjHJ6oy0>

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

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

Attributes & SDGs

Course Code	Course Title	Attributes							SDGs No.
PT 302	GENERAL ORTHOPEDICS & TRAUMATOLOGY	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	3,4
		√	√	√	√		√	√	



Integral University, Lucknow

Effective from Session: 2017-18							
Course Code	PT304	Title of the Course	BIOMECHANICS & KINESIOLOGY	L	T	P	C
Year	III	Semester	V	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	This course includes a detailed study of some special techniques of treatment used in Physiotherapy that will help to make students able to treat problems that are related to different systems of the body.						

Course Outcomes	
CO1	The student will be able to learn basic anatomy of shoulder complex elbow and forearm and its biomechanics.
CO2	The student will be able to learn basic arthrology of wrist complex, hand complex its biomechanics.
CO3	The student will be able to learn basic arthrology of Hip and pelvis complex and its biomechanics.
CO4	The student will be able to learn basic arthrology of knee, ankle and foot complex and its biomechanics.
CO5	The student will be able to learn basic arthrology of cervical, Thorax and Lumbar.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	ARTHROLOGY AND KINEMATICS, KINETICS	Description of the following joint biomechanics: 1. Shoulder complex (Glenohumeral, Sternoclavicular, Acromioclavicular, and Scapulothoracic). 2. Elbow and forearm (Superior Radio ulnar, Radiohumeral & Ulnohumeral).	8	CO1
2	ARTHROLOGY AND KINEMATICS, KINETICS	Description of the following joint biomechanics: 1. Wrist complex (Radio carpal & Intercarpal), 2. Hand complex (Carpometacarpal, Metacarpophalange)	8	CO2
3	ARTHROLOGY AND KINEMATICS, KINETICS	Description of the following joint biomechanics: 1. Hip, Plevic (Sacroiliac joint) & 2. Knee	8	CO3
4	ARTHROLOGY AND KINEMATICS, KINETICS	Description of the following joint biomechanics: 1. Ankle & 2. Foot Complex (Subtalar, Tarsometatarsal, Met tarsophalangeal)	8	CO4
5	ARTHROLOGY AND KINEMATICS, KINETICS	Description of the following joint biomechanics: 1. Cervical, 2. Thorax and 3. Lumbar	8	CO5

Reference Books:

1. Joint Structure and Function – A comprehensive Analysis, By Cynthia Norkins.
2. Clinical Kinesiology for Physical Therapist Assistants, JP Bros Medical Publishers, Bangalore, 1st Indian Ed1997
3. Basic Biomechanics Explained - Low & Reed - ButterworthHeinmann
4. Kinesiology: Applied to Pathological Motion - Soderberg Lippincott
5. Therapeutic Exercise by Carolyn Kisner, F. A. Davis.
6. Basic Biomechanics. Nordins.
7. Basic Biomechanics & clinical Kinesiology. Otis
8. Biomechanics of Human Movement. D Winter

e-Learning Source:

1. <https://youtu.be/j5873VW2ohw>
2. <https://youtu.be/gQz18YILEwI>
3. <https://youtu.be/JGVp13TeRjk>
4. https://youtu.be/OR4zRSE_-40
5. https://youtu.be/EEW_aM-lpQk

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	3	1	1	-	-	-	1	-	2	-	2	2	2	2	3	-
CO2	1	3	2	2	-	-	-	-	-	3	-	3	2	3	1	2	-
CO3	1	3	3	1	-	-	-	1	-	2	-	2	3	2	1	3	-
CO4	1	3	3	2	-	-	-	-	-	3	-	3	2	3	2	2	-
CO5	1	3	2	1	-	-	-	-	-	2	-	3	3	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	
PT 304	BIOMECHANICS & KINESIOLOGY	√	√	√	√		√	√	3,4,9



Integral University, Lucknow

Effective from Session: 2017-18							
Course Code	PT305	Title of the Course	MANUAL THERAPY LAB	L	T	P	C
Year	III	Semester	V	0	0	4	2
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	This course includes a detailed study of some special techniques of treatment used in Physiotherapy that will help to make students able to treat problems that are related to different systems of the body.						

Course Outcomes	
CO1	To understand the history of Physiotherapy in ancient time as well as modern time, Understand basic concepts of manual therapy, effects and utilization with biomechanical conceptual & its application in Physiotherapy.
CO2	To understand the basic principles for different school of thought (Maitland, Mulligan, Keltenborn, Mackenzie,) of Joint mobilization techniques and procedure of application with proper manner of application with dosimeters in body by different types of joint mobilization techniques.
CO3	To understand the basic principles for different school of thought (Butler, Cyriax, PNF, PRT, MET etc) of soft tissue mobilization techniques and procedure of application with proper manner of application with dosimeters in body by different types of soft tissue mobilization techniques.
CO4	To understand the basic principles different types of Cardiopulmonary techniques used for cardiopulmonary dysfunction. At the end student must know about the proper application of CPT in ICU, ICCU.
CO5	To understand about the different types of manual therapy concept (Roods, Bobath, PNF, transferring) used in physiotherapy for treating different neurological physiotherapy conditions.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	BASIC CONCEPTS IN MANUAL THERAPY	Practical aspects of Manual therapy on joint muscle, ligaments etc. Effects of manual therapy, Biomechanical principles in manual therapy. Implementation of manual therapy over the human body	8	CO1
2	INTRODUCTION TO JOINT MOBILIZATION TECHNIQUES	Practical aspects of Manual therapy of following on models/patients: Maitland concepts and techniques, Mulligan concepts and techniques, McKenzie concepts and techniques.	8	CO2
3	INTRODUCTION TO SOFT TISSUE MOBILIZATION TECHNIQUES	Practical aspects of Manual therapy of following on models/patients: Cyriax concepts and techniques, Muscle energy technique, Positional Release Technique, Taping Technique.	8	CO3
4	MANUAL THERAPY IN CARDIO-PULMONARY	Practical aspects of Manual therapy of following on models/patients: Breathing Exercise techniques, Self Assisted Coughing Techniques, Postural drainage, its indications and contraindications and its applications, Respiratory muscle training. Airway clearance technique: Active cycle of breathing technique. Autogenic drainage technique. PEP techniques.	8	CO4
5	MANUAL THERAPY IN NEUROLOGY	Practical aspects of Manual therapy of following on models/patients: Proprioceptive Neuromuscular Facilitation - Conceptual framework, principle of Proprioceptive neuromuscular facilitation (PNF) techniques, including indications, therapeutic effects and precautions. Neural Mobilization: Buttler concepts and techniques, Roods Approaches, Transfer Technique	8	CO5

Reference Books:

1. Therapeutic Exercise by Carolyn Kisner
2. S Brent Brotzman. Kevin ewilk clinical orthopaedic rehabilitation
3. Kessler. management of common musculo skeletal disorders.
4. Positional Release technique- Leon Chaitow
5. Neurodynamics mobilization technique-Buttler
6. Muscle Energy techniques- Leon Chaitow
7. Physical Therapy of the Cervical and Thoracic Spine by Gran
8. Grieve's Modern Manual Therapy
9. Science and Practice of Manual therapy by EyalLyderma
10. Motor control by Shummway Cook.

e-Learning Source:

1. https://youtu.be/G_QI7bVrHN0
2. <https://youtu.be/QBII2woyZM0>
3. <https://youtu.be/s9Q9W13ilHY>
4. <https://youtu.be/mO36BglY6P8>
5. https://youtu.be/acUZdGd_3Dg

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

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

Attributes & SDGs

Course Code	Course Title	Attributes							SDGs No.
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
PT 305	MANUAL THERAPY LAB	√	√	√	√		√	√	3,4



Integral University, Lucknow

Effective from Session: 2017-18							
Course Code	PT306	Title of the Course	BIOMECHANICS & KINESIOLOGY LAB	L	T	P	C
Year	III	Semester	V	0	0	2	1
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	This course includes a detailed study of some special techniques of treatment used in Physiotherapy that will help to make students able to treat problems that are related to different systems of the body.						

Course Outcomes	
CO1	The student will be able to learn basic anatomy of shoulder complex elbow and forearm and its biomechanics.
CO2	The student will be able to learn basic arthrology of wrist complex, hand complex its biomechanics.
CO3	The student will be able to learn basic arthrology of Hip and pelvis complex and its biomechanics.
CO4	The student will be able to learn basic arthrology of knee, ankle and foot complex and its biomechanics.
CO5	The student will be able to learn basic arthrology of cervical, Thorax and Lumbar.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	ARTHROLOGY AND KINEMATICS, KINETICS	Practical aspects or demonstration of biomechanical concepts on below joints: 1. Shoulder complex (Glenohumeral, Sternoclavicular, Acromioclavicular, and Scapulothoracic). 2. Elbow and forearm (Superior Radio ulnar, Radiohumeral & Ulnohumeral).	4	CO1
2	ARTHROLOGY AND KINEMATICS, KINETICS	Practical aspects or demonstration of biomechanical concepts on below joints: 1. Wrist complex (Radio carpal & Intercarpal), 2. Hand complex (Carpometacarpal, Metacarpophalange)	4	CO2
3	ARTHROLOGY AND KINEMATICS, KINETICS	Practical aspects or demonstration of biomechanical concepts on below joints: 1. Hip, Plevic (Sacroiliac joint) & 2. Knee	4	CO3
4	ARTHROLOGY AND KINEMATICS, KINETICS	Practical aspects or demonstration of biomechanical concepts on below joints: 1. Ankle & 2. Foot Complex (Subtalar, Tarsometatarsal, Met tarsophalangeal)	4	CO4
5	ARTHROLOGY AND KINEMATICS, KINETICS	Practical aspects or demonstration of biomechanical concepts on below joints: 1. Cervical, 2. Thorax and 3. Lumbar	4	CO5

Reference Books:	
1.	Joint Structure and Function – A comprehensive Analysis, By Cynthia Norkins.
2.	Clinical Kinesiology for Physical Therapist Assistants, JP Bros Medical Publishers, Bangalore, 1 st Indian Ed1997
3.	Basic Biomechanics Explained - Low & Reed – Butterworth Heinmann
4.	Kinesiology: Applied to Pathological Motion - Soderberg Lippincott
5.	Therapeutic Exercise by Carolyn Kisner, F. A. Davis.
6.	Basic Biomechanics. Nordins.
7.	Basic Biomechanics & clinical Kinesiology. Otis
8.	Biomechanics of Human Movement. D Winter
e-Learning Source:	
1.	https://youtu.be/j5873VW2ohw
2.	https://youtu.be/gQz18YILEwI
3.	https://youtu.be/JGVp13TeRjk
4.	https://youtu.be/OR4zRSE_-40
5.	https://youtu.be/EEW_aM-lpQk

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

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

Course Code	Course Title	Attributes							SDGs No.
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
PT 306	BIOMECHANICS & KINESIOLOGY LAB	√	√	√	√				3,4,9



Integral University, Lucknow

Effective from Session: 2018-19							
Course Code	PT307	Title of the Course	SEMINAR ON CLINICAL ISSUES	L	T	P	C
Year	III	Semester	V	0	2	0	2
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 issues in the efficacy of Physiotherapy techniques used in musculoskeletal, neurological, cardiopulmonary, & Sports rehabilitation as well as enhance presentation 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 point presentations on an assigned topic.
CO4	The students will be able to communicate his/her ideas with his peers as audience, which will enhance both oral and written communication skills.
CO5	The students will be able to create interest to pursue lifelong learning.

SEMINAR PRESENTATION ASSESSMENTN FORM

Name of Student:		Session:	
Enrolment Number:		Date:	
Name of Subject:	Seminar on Clinical Issues	Subject code:	PT315
Topics:			

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

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

Comments/Suggestions:

(Name and signature of Incharge)

(Head, Physiotherapy)

EVALUATION OF SEMINAR ON CLINICAL ISSUES

BPT- Students has to prepare minimum 2 long case and 2 short cases during their seminar presentation during due course of time.

The evaluation for internal clinical examination of 50 marks will be distributed:

Seminar Presentation=25marks.

Viva voce =20 marks

Attendance=5 marks

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

Course Code	Course Title	Attributes						SDGs No.	
		Empleyability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics
PT307	SEMINAR ON CLINICAL ISSUES	√	√	√			√	√	3,4,9, 17



INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH

DEPARTMENT OF PHYSIOTHERAPY

BACHELOR OF PHYSIOTHERAPY

(BPT)

SYLLABUS

YEAR/ SEMESTER: III/VI



Integral University, Lucknow

Effective from Session: 2017-16							
Course Code	PT 312	Title of the Course	PHYSIOTHERAPY IN MEDICAL, SURGICAL, OBSTETRICS & GYNAECOLOGICAL CONDITION	L	T	P	C
Year	III	Semester	VI	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	The objective of this course is that after 40 hours of lectures and demonstrations, in addition to clinics, the students will be able to demonstrate an understanding of general medical, general surgical, obstetrics & gynecological conditions.						

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

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	PHYSIOTHERAPY IN MEDICAL CONDITION	Review of the pathological changes and principles of management by Physiotherapy in the following conditions(a) Inflammation-acute, chronic and suppurative, (b) Edema – Traumatic, obstructive, paralytic, edema due to poor muscle and laxity.(c) Diabetes Mellitus & Its Physiotherapy Managements.(d) Obesity & Its Physiotherapy Managements,(e) Common condition of Skin – Acne, Psoriasis, Alopecia, Leucoderma, Leprosy.	8	CO1
2	PHYSIOTHERAPY IN SURGICAL CONDITION	Review of the pathological changes and principles of pre and postoperative management by Physiotherapy of the following conditions(a) Common abdominal and transplant surgeries, including, liver, kidney, bladder, bone marrow, (b) Common reconstructive surgical procedures for the management of wounds, ulcers, Burns and consequent contractures and deformities	8	CO2
3	PHYSIOTHERAPY IN ONCOLOGY	Overview of oncology, staging and grading, Common oncological condition of musculoskeletal & their Principles of Management, Common oncological condition of different system-breast, Liver and Brain, Principles of Management.	8	CO3
4	CLINICAL OBSTETRICS AND GYNECOLOGY CONDITIONS	Anatomy and Physiology of Female reproductive system, Principles of clinical examination, investigation diagnosis and prognosis in female reproductive system disorders, Events of 1st IInd& III rd Stages of labour, Pre, Peri & Post Menopause - Physiology, Complications &management, Surgical considerations in Obstetrics and Gynecology	8	CO4
5	PHYSIOTHERAPY IN OBS AND GYNECOLOGICAL CONDITION	Overview of pregnancy, Pelvic inflammatory Diseases, Prolapse Uterus, Incontinence, Diastasis recti, Low back and pelvic pain, varicose veins, pelvic floor dysfunction, compression syndrome, Exercise during pregnancy (Ante natal and post natal Physiotherapy management) and postpartum, Effects of aerobic exercise during pregnancy, MaternityBlues.	8	CO5

Reference Books:	
1.	Therapeutic Exercise by Carolyn Kisner
2.	Physiotherapy in Gynaecological& Obstetrical Conditions-Polden
3.	Dutta, Text book of Gynecology, New Central Book Agency
4.	Essential of Obstetrics and Gynecology, Hacker Moore Gambone.
e-Learning Source:	
1.	https://youtu.be/adkrWQ8sWFU
2.	https://youtu.be/qOT_HpqYN6s

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

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

Course Code	Course Title	Attributes							SDGs No.
		Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
PT312	PHYSIOTHERAPY IN MEDICAL, SURGICAL, OBSTETRICS & GYNAECOLOGICAL CONDITION	√	√	√	√		√	√	3,4



Integral University, Lucknow

Effective from Session: 2017-18							
Course Code	PT314	Title of the Course	PHYSIOTHERAPY IN MEDICAL, SURGICAL, OBSTETRICS & GYNAECOLOGICAL CONDITION LAB	L	T	P	C
Year	III	Semester	VI	0	0	2	1
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	Students will be able learn and understand the assessment and management procedures in the obstetrics & Gynecology.						

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

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	PHYSIOTHERAPY IN MEDICAL CONDITION	Pre Post operative Exercises	4	CO1
2	PHYSIOTHERAPY IN SURGICAL CONDITION	Pre Post operative Exercises	4	CO2
3	PHYSIOTHERAPY IN ONCOLOGY	Post Oncosurgical Lymph edema management, management of cancer related fatigue, Rehabilitation of post surgical complication.	4	CO3
4	CLINICAL OBSTETRICS AND GYNECOLOGY CONDITIONS	<ul style="list-style-type: none"> Physiotherapy Assessment of different gynecological condition. Pre & Post operative assessment of gynecological surgery Physiotherapy assessment of Bladder and Bowel Dysfunction. Pelvic floor muscle assessment. Assessment of pain. Diagnostic tools used in gynecological assessment. Examination of breast. h. Relaxation techniques. 	4	CO4
5	PHYSIOTHERAPY IN OBS AND GYNECOLOGICAL CONDITION	Physiotherapy assessment in obstetrics: a. Antenatal assessment. b. Assessment during labour. c. Postnatal assessment. d. Common musculoskeletal problem. i. Diastasis recti. ii. Pelvic floor muscle function. iii. Bowel & bladder dysfunction.	4	CO5

Reference Books:

1. Therapeutic Exercise by Carolyn Kisner
2. Physiotherapy in Gynaecological & Obstetrical Conditions-Polden
3. Dutta, Text book of Gynecology, New Central Book Agency.
4. Essential of Obstetrics and Gynecology, Hacker Moore Gambone

e-Learning Source:

3. <https://youtu.be/adkrWQ8sWFU>
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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	2	3	3	1	1	2	1	1	2	-	3	2	2	2	1
CO2	2	3	2	2	2	2	2	2	-	2	-	2	2	3	3	2	2
CO3	2	3	2	2	2	3	3	1	2	3	2	3	2	3	3	2	1
CO4	1	3	1	3	2	3	2	1	1	3	2	3	3	2	2	1	1
CO5	2	2	3	3	3	2	2	1	2	2	-	2	3	3	2	1	1

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	
PT 314	Physiotherapy In Medical, Surgical, Obstetrics & Gynaecological Condition Lab	√	√	√	√		√	√	3,4



Integral University, Lucknow

Effective from Session: 2017-18							
Course Code	PT315	Title of the Course	SEMINAR ON CLINICAL ISSUES	L	T	P	C
Year	III	Semester	VI	0	2	0	2
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 issues in the efficacy of Physiotherapy techniques used in musculoskeletal, neurological, cardiopulmonary, & Sports rehabilitation as well as enhance presentation 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 point presentations on an assigned topic.
CO4	The students will be able to communicate his/her ideas with his peers as audience, which will enhance both oral and written communication skills.
CO5	The students will be able to create interest to pursue lifelong learning.

SEMINAR PRESENTATION ASSESSMENTN FORM

Name of Student:		Session:	
Enrolment Number:		Date:	
Name of Subject:	Seminar on Clinical Issues	Subject code:	PT315
Topics:			

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

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

Comments/Suggestions:

(Name and signature of Incharge)

(Head, Physiotherapy)

EVALUATION OF SEMINAR ON CLINICAL ISSUES

BPT- Students has to prepare minimum 2 long case and 2 short cases during their seminar presentation during due course of time.

The evaluation for internal clinical examination of 50 marks will be distributed:

Seminar Presentation=**25marks**.

Viva voce =**20 marks**

Attendance=**5 marks**

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

Course Code	Course Title	Attributes							SDGs No.
PT315	SEMINAR ON CLINICAL ISSUES	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
		√	√	√			√	√	3,4,9, 17

