

Course Title	MEDICAL AND SURGICAL SCIENCES II
Course Code	PT506
Course Credit	Lecture: 3
	Practical / Clinical Training: 1
	Total: 4

Course Objective

1. To understand the application of physiotherapy knowledge for prevention of secondary complications during medical & surgical conditions
2. To execute rehabilitative measures for maximum possible functional independence of a patient at home & work place.
3. To practice the physiotherapy assessment (physical & functional outcome measures) & therapeutic treatment in medical & surgical conditions

Detailed Syllabus

Sr. No.	Name of chapter & details	Hours Allotted
Section – I		
1	Introduction and Role of Physiotherapy in medical conditions	1
2	Dermatological conditions	
	Structure and Functions of Skin.	1
	PT management of various skin disorders Various skin disorders- Acne vulgaris, Psoriasis, Vitiligo, Alopecia, Hyperhidrosis, Mycosis fungoides, PLE, Pityriasis rosea	5
	Boil, Carbuncle	1
3	Women's Health - Antenatal and postnatal assessment & management, Physiotherapy in mother and child care.	7
4	Geriatrics – Changes in ageing, theories of ageing, physiotherapeutic assessment and management. Handling of old Patients and their problems.	4
5	ENT conditions	
	Sinusitis, Otitis Media , Otosclerosis	3

	Labyrinthitis, Facial Palsy, Mastoidectomy, Chronic Rhinitis	4
	Laryngectomy, Pharyngolaryngectomy	2
	Post-Operative PT management	3
6	Lymphedema	
	Types, aetiology, clinical features	2
	Physiotherapy assessment	3
	Physiotherapy management	4
Section – II		
7	Introduction of Role of Physiotherapy in Medical & Surgical conditions	1
8	Abdominal surgeries	
	Anatomy of Abdominal Wall and muscles	2
	Preoperative and Post-operative Physiotherapy Assessment and treatment Various Abdominal Incisions Common Abdominal Surgeries with Aetiology and Indications- Cholecystectomy, Colectomy, Colostomy, Ileostomy, Gastrostomy, Herniotomy, herniorraphy, Hysterectomy, Nephrectomy, Prostatectomy, Appendectomy Pelvis repair, Caesarian. other gynaecological operations. Mastectomy (simple & radical) Operative procedures for the lower urinary tract disorders.	7
	Common post-operative complications and Physiotherapy intervention	2
9	Amputation	
	Indications for amputation	2
	Levels of amputation in upper limb	2
	Levels of amputation in lower limb	2
	pre-operative medical & surgical physiotherapy assessment and management	3
	post-operative medical & surgical physiotherapy assessment and management	3
10	Burns	
	Burns- Classification	2
	Aetiology, Complications	2
	Physiotherapy Assessment and Management of a burns patient.	4
	Various types of Skin graft and Physiotherapy management after skin grafting, Flaps and Pedicles.	5

	Various types of scar and scar management	1
11	Role of Physiotherapy in Plastic Surgery	2

Instructional Method:

1. Teaching and training sessions will be carried out through active learning. Active participation and contribution in group discussion and seminars are mandatory for students
2. Lectures to be conducted with the help of black board and/or audio-visual aids that includes multi-media projector, OHP, etc.
3. Problem based and/or case based assignments based on course content will be given to the students at the end of each unit/topic and will be evaluated at regular interval.
4. The course includes a laboratory where the students have an opportunity to build and appreciation for the concepts being taught in lectures.
5. Instruction method will be integrated with clinical training, bedside / class room teaching and tutorials as necessary.

Text books:

1. Tidy's Physiotherapy (Physiotherapy Essentials): 14th edition. Stuart Porter. Churchill Livingstone 2008
2. Cash textbook of General Medical and Surgical Conditions for Physiotherapists: 2nd edition. Cash JE; Downie PA. Mosby Publication

Reference Books:

1. Physical Rehabilitation (O'Sullivan, Physical Rehabilitation): [5th edition.](#) [Susan B. O'Sullivan](#); Thomas J. Schmitz. FA Davis Company 2006
2. Elements in Pediatric Physiotherapy. Eckersley PM. Churchill Livingstone 1993