

Medical and Surgical Sciences - I

Course Title	Medical and Surgical Sciences I	
Course Code	PT407	
Course Credit	Lecture: 4	
	Practical/ Clinical Training : 1	
	Total: 5	
Course Objectives		
<ol style="list-style-type: none"> To understand the Clinical manifestation of various diseases and disorders managed in medical and surgical faculties of medical sciences. To learn the intervention of general surgery, medicine and therapeutic applications. To learn and practice basic Physiotherapy technique for the medical and surgical conditions. The student will also have an opportunity to get physiotherapy assessment and management skills in various types of pre and post medical / surgeries. To learn the applied aspect of the subject for physiotherapy practice. 		
#	Detailed Syllabus	Hours Allocated
Section I		
1.	Introduction to General Medical and Surgical sciences - I Clinical manifestation : diseases and disorders / conditions General Medical, Surgical and physiotherapy intervention – assessment and treatment Orientation of General Medical and surgical Wards, ICU, etc...	4
2.	Assessment and investigation of patients undergoing for medical consultations and surgical procedures.	6
3.	Hematological diseases and disorders / conditions Clinical manifestation Blood disorders, Anemia, Hemophilia, Blood cancer General Medical, Surgical and physiotherapy intervention – assessment and treatment	6
4.	Principles of anesthesia: Clinical manifestation Types of anesthesia and its effects on the patient, General verses localized anesthesia Chest complications, Respiratory failure, etc...	4
5.	Types of surgical Incisions for different conditions Types of incision, clips, ligatures and sutures, etc... Plastic Surgery: introduction	8

6.	<p>Infections Clinical manifestation</p> <p>General Medical, Surgical and physiotherapy intervention – assessment and treatment Role of health and hygiene in prevention of infection. Acute and chronic infection management Physiotherapy care/ precaution while treating patient with infections</p>	12
7.	<p>Chronic Infections Diseases Role of Physiotherapy in conditions like Leprosy, Syphilis, AIDS, etc..</p>	8
Section II		
8.	<p>Wound / ulcer / pressure sores Clinical manifestation</p> <p>Wound Healing, Pressure sores, techniques of management, General Medical, Surgical and physiotherapy intervention – assessment and treatment</p>	12
9.	<p>Ophthalmology Clinical manifestation</p> <p>General Medical, Surgical and physiotherapy intervention – assessment and treatment Visual testing in brief, common eye diseases and its medical management, Ophthalmologic surgeries conditions, Defects of extra-ocular muscles surgical management, etc...</p>	8
10.	<p>Diabetes and other endocrine diseases Clinical manifestation</p> <p>General Medical, Surgical and physiotherapy intervention – assessment and treatment Clinical manifestation and management of diabetes, role of physiotherapy in diabetes, diabetic wound management and other endocrine diseases, etc...</p>	12
11.	<p>Obesity and Bariatric surgery Clinical manifestation</p> <p>General Medical, Surgical and physiotherapy intervention – assessment and treatment Causes, complication and Management of Obesity, precaution and Physical therapy following to surgery, etc...</p>	8

12.	<p>Psychiatric disorders Clinical manifestation</p> <p>General Medical, and physiotherapy intervention – assessment and treatment Role of physiotherapy in mental health, etc...</p>	8
Instruction Method		
<ol style="list-style-type: none"> 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		
<ol style="list-style-type: none"> 1. Manual of Clinical Surgery. 6th Edition. , S. Das. S.B. Publications. 2. Textbook of Surgery. 25th Edition. Bailey and Love. Butterworth and Heinmann 		
Reference Books		
<ol style="list-style-type: none"> 1. Manipl Manual of Surgery. 3rd edition. K. Rajgopal Shenoy. CBS Publishers 2. General Surgical Operations: 2nd edition. Kirk RM; Williamson RNC. Churchill Livingstone 		