

Course Title	Neuromuscular Sciences - II	
Course Code	PT703	
Course Credit	Lecture: 4	
	Practical/ Clinical Training: 2	
	Total: 6	
Course Objective		
<ol style="list-style-type: none"> 1. Understand clinical aspects of various conditions of nervous system 2. Examine and manage various conditions of nervous system 3. Practice integrated neuro approaches in neuro rehabilitation. 		
Detailed Syllabus		
Sr. No.	Name of chapter & details	Hours Allotted
Section – I		
1	Introduction of Neuromuscular Sciences-II	2
2	Definition, Classification, Etiology, Pathogenesis, Clinical Features, Clinical Investigation and Complications of the following conditions. Medical, Surgical And Physiotherapy Management (Assessment And Treatment) including Rehabilitation of...	
3	Diseases and disorders of the Brain	3
4	Multiple Sclerosis	3
5	Epilepsy	3
6	Amyotrophic Lateral Sclerosis	3
7	Vestibular Disorders	
	Acoustic Neuroma	2
	Vertebrobasilar Insufficiency	3
	Pediatric Vestibular Disorders	2
	Ménière's Disease	2

	Migraine-Associated Vertigo	2
	Cervicogenic Dizziness	2
	Benign Paroxysmal Positional Vertigo	2
	Autoimmune Inner Ear Disease	2
	Age-related dizziness and imbalance	2
8	Infective disorders of Brain	2
	Eukoencephalopathy	
	Encephalitis,	2
	Meningitis,	2
	Panencephalitis,	2
9	Motor Neuron Diseases	
	Pseudobulbar palsy,	2
	Progressive bulbar palsy,	2
	Progressive muscular atrophy	2
	Primary lateral sclerosis,	2
10	Disease of Cranial Nerves	
	Trigeminal neuralgia,	2
	Bell's palsy,	4
	Facial palsy,	4
	Glossopharyngeal neuralgia	3
	Bulbar palsy,	3
	Multiple cranial nerve palsy	2
	SECTION II	

11	Diseases and Disorders of the Spinal cord	
	Introduction Spinal cord injuries	1
	Trauma to the Spine and spinal cord of Cervical ,Thoracic, Lumber and Sacral region,	4
	Radiation injuries to the Spinal cord,	2
	Spinal cord injuries due to Electric currents and Lightning, Lathyrism,	2
	Spina bifida,	3
	Spinal stenosis	3
12	Myelitis	
	Poliomyelitis, Leukomyelitis,	3
	Transvers myelitis, Meningomyelitis,	2
	Viral myelitis	2
	Myelitis secondary to Bacterial, Fungal, Parasitic infection	2
	Non inflammatory myelitis	2
13	Vascular disorder of Spinal cord	
	Myelomalacia,	2
	Hemorrhage of the spinal cord and spinal canal,	2
	Vascular malformation of the spinal cord and dura,	1
	Subdural hemorrhage,	1
14	Spinal syndrome	
	Spinal multiple sclerosis,	5
	Cervical, Thorasic, Lumbar and Secral spondylosis with myelopathy	5
15	Spinal tumors with spinal cord compression	5
16	Spinal cord syndrome	
	Syringomyelia, Hydromyelia	4
	Brown-sequard syndrome,	4
	Central cord syndrome,	2
	Cauda equina syndrome	4

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. Physical rehabilitation. 5th edition. Susan B. O Sullivan, Thomas Schmitz. F.A. Davis Company
2. Cash's textbook for Physiotherapists in neurological conditions- 4th Edition. Patricia Downie. Lippincott Williams & Wilkins.
3. Neurological Rehabilitation. 4th edition. Darcy Umphred. Mosby Publication

Reference books:

1. Tetraplegia & Paraplegia. 6th edition. Ida Bromley. Churchill Livingstone
2. Adams and Victor's principles of Neurology. 9th edition. Allan H. Ropper, Martin A. Samuels. McGraw-Hill Medical publication
3. Brains diseases of Nervous system. 12th edition. Michael Donaghy. OUP Oxford publication