



LESSON PLAN

Subject : **Physiotherapy in Neurosciences**
Class : **BPT IV year**
Class Incharge : **Dr. Reema Joshi (PT)**
Subject Teacher : **Dr. Vidhi Shah, Dr. Tanpreet**
Theory – 70 hrs + Clinical – 140 hrs= 210 Hours

| Sr.No | Topic | No.of Lect. | Mode of teaching |
|--------------|---|--------------------|-----------------------------|
| 1 | Structure & function of Nervous system | 2 | Seminar |
| 2 | Neurological assessment: <ul style="list-style-type: none">• Normal development• Cranial nerve• Sensory system• Motor system• Coordination• Reflexes | 5 | Class demonstration/seminar |
| 3 | Cerebro vascular accidents: stroke <ul style="list-style-type: none">• Introduction• Pathophysiology• Types• Clinical features• Impairments• Scales• Management | 8 | PPT |
| 4 | Hydrocephalus <ul style="list-style-type: none">• Clinical features• Management | 2 | PPT |
| 5 | Spina bifida & Management | 2 | PPT |
| 6 | Assessment and Management of Neurological Gait | 1 | PPT |
| 7 | Theories of motor control and Motor learning | 2 | Chalk & board |
| 8 | Principles of application of therapeutic skills- <ul style="list-style-type: none">• PNF• NDT, Brunnstrom | 3 | Chalk & board Demonstration |

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| | <ul style="list-style-type: none"> • Roods approaches | | |
| 9 | Cerebral palsy <ul style="list-style-type: none"> • Introduction • Types • Pathophysiology • Clinical feature • Management | 6 | PPT |
| 10 | Spinal cord: <ul style="list-style-type: none"> • Spinal cord injury • Syringomyelia • Transverse myelitis • Spinal dysraphism • Management | 5 | PPT and chalk board |
| 11 | Muscular dystrophy <ul style="list-style-type: none"> • DMD • Management | 3 | Chalk board |
| 12 | Lesions of Extra-pyramidal system & Basal ganglia –Parkinsonism | 3 | PPT Chalk board |
| 13 | Polyneuropathy: GBS, Diabetic and alcoholic neuropathy | 3 | Chalk board |
| 14 | Cognition and perception disorder | 2 | PPT |
| 15 | Neuro-muscular junction disorders – Mysathesia Gravis | 1 | PPT |
| 16 | Disorder of peripheral nerve <ul style="list-style-type: none"> • Classification • Brachial plexus injury • Lowerlimb nerve injury • Management | 5 | PPT and chalk board |
| 17 | EMG and NCV | 2 | |
| 18 | Congenital & Degenerative disorders- <ul style="list-style-type: none"> • M.N.D., S.M.A • Hereditary Ataxia, Peroneal muscle atrophy | 2 | PPT |
| 19 | Traumatic head injury <ul style="list-style-type: none"> • Introduction • Pathophysiology • Sign & symptom | 6 | PPT |

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| | <ul style="list-style-type: none"> • Management | | |
| 20 | Demyelinating diseases of NS <ul style="list-style-type: none"> • Multiple sclerosis • ALS | 3 | PPT and Chalk board |
| 21 | Infections of nervous system: <ul style="list-style-type: none"> • Meningitis, Encephalitis • Neurosyphilis, Tabes dorsalis • Leprosy, Poliomyelitis | 4 | PPT Chalk & board |

Total Lecture scheduled =70 hrs

Total Practicals/Clinicals scheduled =140hrs (at clinical posting)

Total =210hrs

Total Tutorials scheduled =10hrs

Doubt clearing sessions =15hr