

NEUROLOGY (DM)

POST GRADUATE DEGREE STANDARD

1. BASIC GENERAL SCIENCES AND INVESTIGATIVE NEURO SURGERY

I BASIC SCIENCES

- (a) Physics
- (b) Electricity, AC & DC
- (c) Light
- (d) Sound
- (e) Electro Magnetism
- (f) Ultrasound
- (g) Laser

II COMPUTER SCIENCE

III STATISTICS

2 BASIC NEUROSCIENCES

I NEURO ANATOMY

- (a) Surgical Anatomy
- (b) Micro surgical Anatomy
- (c) Endoscopic Anatomy

II NEUROPHYSIOLOGY

III NEUROPATHOLOGY

IV NEUROCHEMISTRY

V NEUROPHARMACOLOGY

3. NEURO RADIOLOGY

I Tomography of skull and spine

II CT Scan

III MRI & MRA & MR Spectrascopy

IV PET / SPECT

V Angiography

VI Myelography

VII Others

- (a) EEG
- (b) EMG
- (c) Nerve Conduction Study
- (d) Evoked Potential
- (e) Electrocardiography
- (f) Brain Mapping
- (g) Ultrasonography of Brain
- (h) Transcranial Doppler

4. INTERVENTIONAL NEURORADIOLOGY

5. CLINICAL NEUROLOGY

I Basic Neurology

II Neurological Disease

III Congenital Malformation

IV Developmental Anomaly

V Elicitation Interpretation of Neurological Symptoms and signs

VI Brain death

PAPER - II

Clinical Neuro Surgery, practice of Neuro Surgery and Recent Advances 1. History

2. Diagnostic Aids

- a) Intracranial Pressure Monitoring
- b) Intra Operative Monitoring.

3. Developmental Anomalies

4. Trauma

5. Bacterial infections
6. Parasitic and Fungal infections
7. Vascular diseases
8. Spine & Spinal cord
9. Intracranial Tumors
10. Stereotaxy
11. Movement disorders
12. Cerebral Palsy
13. Epilepsy
14. Functional & Sedative Neuro Surgery
15. Pain
16. Miscellaneous a) Neuro Anaesthesia b) Pre & Post operative care
17. Recent Developments in Neurosurgery
 - a) Neuro Endoscopy
 - b) Gene Therapy
 - c) Immuno Therapy
 - d) Neuro Navigation.

18. Neuro Rehabilitation
19. Medico Legal Aspects in Neurosurgery.
20. Paediatric Neuro surgery.