

**STATE COUNCIL OF MEDICAL
SCIENCES ODISHA**



**CERTIFIED EEG TECHNICIAN
(CEEGET)**

CERTTIFIED COURSE IN EEG TECHNICIAN

This course is of 6 months duration, After 6 months of Theory, Practical & Clinical classes, students have to appear one Final exam at the end to obtain the certificate(CEEGT).Final examination will be held at the end of 6th month. To obtain the certificate the student has to secure 50% of the total mark. Theory class attendance of 75% & Practical class attendance of 85% is mandatory to appear the final examination.

EXAMINATION PATTERN:

Theory -----40
Clinical& Practical -----50
Internal Assessment ----- 10

Total 100

Theory -----hrs

Sl. No	Topic	Estimate d Hrs
1	Study of General Anatomy and Physiology of Human Body	
2	NEURO-ANATOMY: Muscle : Origin, insertion, nerve supply, structure Nerve : Course-cranial and peripheral, structure	
3	NEURO-PHYSIOLOGY : Muscle :Functions of muscles, i. Muscle contractions ii. Electrical properties of muscles Nerve: Functions of nerve i. Electrical properties of nerve. ii. Nerve conduction. iii. Neuromuscular junction and iv. Neurotransmitters	
4	NEURO-PATHOLOGY: Muscle : Pathological changes in muscles i. Primary muscle disease ii. injury iii. Metabolic iv. Inflammatory v. Others vi. Neurogenic muscle involvement vii. Neuromuscular junction abnormalities Nerve: Pathological Changes in nerve i. Demyelination ii. Axonopathy	

5	<p>(A) Seizure disorder and its differential diagnosis</p> <p>(B) Normal EEG pattern in</p> <ul style="list-style-type: none"> i) Children and adult, ii) Awake and sleep. iii) Neonatal EEG iv) Normal variants v) Artifacts : Eye movements, muscle pulse vi) Activation methods: -Hyperventilation, -Photic stimulation, -Sleep deprivation, -others <p>(C) Abnormal EEG records,</p> <ul style="list-style-type: none"> i. Definition ii. Spike, sharp, slow waves, iii. Other abnormalities iv. Abnormal EEG in neurological diseases v. Brain death 	
6	<p>(a) Disease affecting cranial and peripherals</p> <ul style="list-style-type: none"> a. Bell's palsy b. Peripheral neuropathy c. Entrapment neuropathy <p>(b) Basic principles of nerve conduction study (NCS)</p> <ul style="list-style-type: none"> (i) Motor Nerve Conduction Studies (ii) Sensory NCS 	
7	<ul style="list-style-type: none"> a. H-reflex b. Blink reflex and others c. Repetitive nerve stimulation d. Abnormalities in disease e. Central motor conduction f. Polysomnographic studies — Normal sleep and Sleep disorder (in brief) 	

PRACTICALS

- a. Different parts of EEG machine and its functions,
i.e. montage, electrodes, filter, calibration, sphenoidal electrode, depth electrodes.
- b. Electroencephalographic monitoring (Both indoor patients and ambulatory),
- c. Video Electroencephalography,
- d. Intraoperative Records
- e. Quantitative Electroencephalography
- f. Brain mapping and others (in brief).
- g. Electroencephalographer's reporting
- h. Record keeping.

Theory – 250 Hrs.

Practical / Clinical – 350 Hrs.

Total – 600 Hrs. of classes

At the end of 6th month final exam will be held. A candidate has to secure 50% to get the certificate of (CEMGT)

Distribution of Marks

Theory – 40

Clinical / Practical – 50

Internal Assessment – 10

Total – 100

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