



ASTRON
INSTITUTE OF INTERNATIONAL STUDIES
 PRIDE IN EXCELLENCE

ONLINE DIPLOMA NEUROPHYSIOLOGY TECHNICIAN

Benefits to the Individual

For Registration Call
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ASTRON INSTITUTE OF INTERNATIONAL STUDIES

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The student will be able to do the following:

- Communicate effectively with other health care professionals using the appropriate EEG terminology.
- Clinical neurophysiology deals with the working of the nervous system and its disorders. Conditions such as epilepsy, Parkinson's disease, motor neuron disease, seizures, stroke and multiple sclerosis are dealt by a clinical neurophysiologist.
- Clinical neurophysiologists are in fact medical specialists who help in the diagnosis of diseases associated with the central and peripheral nervous systems.
- Hospitals; state, local, and private
- Offices of physicians
- Medical and diagnostic laboratories
- Outpatient care centers

Benefits to the Organization

- Hospitals that have neurologists and neurosurgeons tend to house clinical neurophysiology departments. Usually these tend to be larger hospitals that are able to employ more specialized staff units.
- Clinical neurophysiologists are responsible for analyzing and writing reports on tests that take place within the department.
- They must also interpret the results that they receive and convey this information to the doctor that referred the patient to the particular neurophysiologist.
- Many tests involve carrying out an EMG to read the evoked potential recordings. Nerve conduction recordings are extremely common as well.

About AIIS

Astron Institute of International Studies (AIIS), an academic vertical of Astron Group, Gurgaon, is focused on the intensively growing and continually developing fields of public and community health with emphasis on the underserved section of society at large. It envisions promoting excellence in Healthcare, Research, Education, Training, Skill Enhancement and Consultancy Services. According to National Health Policy 2015 there is a need for planned expansion of allied technical skills including medical and paramedical workforce. AIIS with its Vision and Mission to contribute to the fulfilment of that goal, works towards development of healthcare workforce with specialised skills and knowledge.

Program Overview

Professionals in the field of neurophysiology perform tests that assist physicians in the diagnosis and evaluation of diseases of the brain, peripheral and autonomic nervous systems and disorders of sleep using sophisticated electronic testing equipment. Neurophysiology technicians interact with patients ranging from newborn to older people.

Career opportunities for Neurophysiology technicians are excellent. They are employed in hospitals, clinics, physician's offices, epilepsy monitoring units, sleep disorder centres and research institutions. After further study and experience, you may advance to specialty positions within the field, such as monitoring and analysing data while surgical procedures such as a spinal cord fusion or carotid endarterectomy are being performed

Who is a Neurophysiology Technician

Neurophysiology technician is also known as EEG technicians. EEG technicians are trained to operate machines known as electroencephalographs, which are used to measure and record the electrical activity of brain waves via electrodes secured to the patient's scalp. The technicians use these devices to administer tests called electroencephalograms (EEGs), which may then detect brain disorders or damage.

EEG technicians can use these tests to monitor patients during sleep cycles. EEG technicians also perform pre-test consultations and record the patient's medical history. Since the EEG can be stressful for some patients, EEG technicians can also explain the test procedure to patients in order to help assuage some of their fears.

Objectives

The student will be able to do the following: Communicate effectively with other health care professionals using the appropriate EEG.

•terminology Measure a mannequin head according to the International 10-20 System of Electrode Placement.

•in 20 minutes. Apply electrodes to the pre-measured mannequin head in 45 minutes using paste technique.

• Demonstrate use of the polarity convention in montage design and localization technique.

Eligibility Criteria

Minimum eligibility is -10+2 from Central or State board with Science.

Program Duration

Duration	Certification
One Year (9 Months Theory Classes and 3 Months Hospital Training)	• Astron Institute of International Studies (AIIS)

Contents

- 1) Anatomy & physiology
- 2) Introduction to Neurophysiology
- 3) Nervous system and its parts
- 4) Classification of Nervous system
- 5) Neurotransmitter
- 6) Action Potential
- 7) Neural coding and its general principles
- 8) Reflexes
- 9) Neuropathology
- 10) Electroencephalography

Course Highlights

- Program pedagogy which includes Webinar, Student Faculty Chat by Subject Experts and Project Work.
- Reference subject through E-library.
- Program materials developed by Experts.
- Each block culminating into a qualifying Assignment.
- Credit based teaching outcomes for global application



Evaluation and Grading

Evaluations will collate candidate performance based on Self Assessment, Term End Assessment, completion of Project Work, participation in Webinar, participation in student-faculty chat. Grading will be done based on alphabetical grade point percentage.

Career Pathway

You will work as part of a multi-disciplinary team that includes doctors specializing in neurology, specialist nurses and other healthcare science staff (eg. those specializing in audiology or ophthalmic and vision science).

