

FELLOWSHIP IN NEURO ELECTROPHYSIOLOGY

ABOUT THE UNIVERSITY

Malla Reddy Vishwavidyapeeth is a reputed educational institution located in Hyderabad, Telangana, India. Recognized as a “Deemed to be University under Distinct (Existing) Category,” the university offers multidisciplinary programs across medical, dental, nursing, pharmaceutical sciences, and allied health sciences. The institution emphasizes academic excellence, clinical expertise, innovation, and global collaboration in advancing healthcare education.

PROGRAM OVERVIEW

The Fellowship in Neuro Electrophysiology is a specialized program designed to develop expertise in the diagnosis and evaluation of neurological disorders using electrophysiological techniques.

The program focuses on:

- Electroencephalography (EEG) and epilepsy monitoring
- Nerve conduction studies (NCS) and electromyography (EMG)
- Evoked potentials (visual, auditory, somatosensory)
- Sleep studies and polysomnography
- Neuromuscular disorders evaluation
- Intraoperative neurophysiological monitoring

The program integrates clinical exposure, hands-on diagnostic training, and advanced neurophysiological techniques to ensure comprehensive expertise in neuro electrophysiology.

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Diagnose neurological disorders using electrophysiological techniques.
 2. Perform and interpret EEG, EMG, and NCS studies.
 3. Apply advanced neurodiagnostic procedures effectively.
 4. Deliver patient-centered and evidence-based neurological care.
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PROGRAM OUTCOMES (POS)

1. **Diagnostic Expertise:** Perform and interpret electrophysiological studies.

2. **Clinical Skills:** Evaluate epilepsy, neuromuscular, and sleep disorders.
 3. **Technical Proficiency:** Operate EEG, EMG, and monitoring systems.
 4. **Patient Care:** Provide accurate diagnosis and clinical correlation.
 5. **Decision-Making Skills:** Manage complex neurological cases.
 6. **Research Orientation:** Contribute to advancements in neurodiagnostics.
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COURSE OUTCOMES (COS)

- **CO1:** Understand neurophysiology and electrophysiological principles.
 - **CO2:** Perform EEG, EMG, and nerve conduction studies.
 - **CO3:** Interpret electrophysiological data accurately.
 - **CO4:** Diagnose neurological disorders using neurodiagnostic tools.
 - **CO5:** Ensure quality patient care and safety.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in neuro electrophysiology.
 2. Apply advanced diagnostic techniques effectively.
 3. Integrate clinical and neurophysiological findings.
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PROGRAM DETAILS

- **Certificate Awarded by:** Malla Reddy Vishwavidyapeeth
- **Program Duration:** One-Year Fellowship
- **Mode of Delivery:** Clinical Training + Hands-on Diagnostic Exposure + Theoretical Learning

(Deemed to be University)

ELIGIBILITY CRITERIA

- **Academic Qualification:** MD/DNB/DM in Neurology or equivalent
 - **Professional Requirement:** As per institutional norms
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KEY FEATURES

- Advanced training in neuro electrophysiology
- Hands-on exposure to EEG, EMG, and NCS
- Training in sleep studies and evoked potentials
- Focus on epilepsy and neuromuscular disorders
- Evidence-based diagnostic practice

LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of neurophysiology and diagnostics

COGNITIVE SKILLS

- Clinical decision-making based on electrophysiological findings

PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in EEG, EMG, NCS, and monitoring techniques
- Hands-on experience in neurodiagnostic labs

TRANSFERABLE SKILLS

- Patient communication and multidisciplinary coordination

SUBJECT-SPECIFIC SKILLS

- Advanced neurodiagnostic and electrophysiological techniques

CURRICULUM MODULES – THEORY

- Basics of Neurophysiology
- Electroencephalography (EEG)
- Electromyography (EMG) & Nerve Conduction Studies
- Evoked Potentials
- Epilepsy Monitoring
- Sleep Studies & Polysomnography
- Neuromuscular Disorders
- Intraoperative Monitoring
- Advances in Neuro Electrophysiology

PRACTICAL COURSEWORK

- EEG recording and interpretation
- EMG and nerve conduction studies
- Evoked potential testing
- Sleep study analysis
- Clinical case discussions

- Research and documentation
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CAREER OUTCOMES

Graduates can pursue careers as:

- Neuro Electrophysiologist
- Epilepsy Specialist
- Neurodiagnostic Consultant
- Neurologist with Subspecialty Expertise
- Academic and Research Professional



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