

## FELLOWSHIP IN NEURO ANAESTHESIA

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### 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.

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### PROGRAM OVERVIEW

The Fellowship in Neuro Anaesthesia is a specialized program designed to develop expertise in anaesthetic management for neurosurgical procedures and critically ill neurological patients.

The program focuses on:

- Neurophysiology and neuropharmacology
- Anaesthesia for neurosurgical procedures
- Intracranial pressure (ICP) management
- Neuro-monitoring techniques
- Neurocritical care and ventilatory support
- Management of brain and spine surgeries

The program integrates **clinical exposure, ICU training, and hands-on anaesthesia practice**, ensuring comprehensive expertise in neuro anaesthesia.

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### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Provide safe anaesthesia for neurosurgical procedures.
  2. Manage intracranial pressure and cerebral perfusion effectively.
  3. Apply advanced neuro-monitoring techniques.
  4. Deliver comprehensive neurocritical care.
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### PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage anaesthesia for brain and spine surgeries.

2. **Monitoring Skills:** Interpret neuro-monitoring and haemodynamic parameters.
  3. **ICP Management:** Control intracranial pressure and maintain cerebral perfusion.
  4. **Critical Care Skills:** Manage neuro ICU patients and ventilatory support.
  5. **Emergency Management:** Handle neuro-emergencies such as trauma and stroke.
  6. **Multidisciplinary Approach:** Collaborate with neurosurgeons and intensivists.
  7. **Evidence-Based Practice:** Apply current neuro anaesthesia guidelines.
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#### COURSE OUTCOMES (COS)

- **CO1:** Understand neurophysiology and anaesthesia principles.
  - **CO2:** Perform anaesthetic management in neurosurgery.
  - **CO3:** Apply neuro-monitoring and ICP management techniques.
  - **CO4:** Manage neurocritical care patients.
  - **CO5:** Handle neurological emergencies effectively.
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#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in neuro anaesthesia techniques.
  2. Apply advanced neuro-monitoring and critical care practices.
  3. Integrate multidisciplinary approaches in neuro patient management.
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#### PROGRAM DETAILS

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

(Deemed to be University)

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#### ELIGIBILITY CRITERIA

- **Academic Qualification:** MBBS with MD/DNB in Anaesthesia / Critical Care / General Medicine
  - **Professional Requirement:** As per institutional norms
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#### KEY FEATURES

- Specialized training in neuro anaesthesia and critical care
- Hands-on exposure in neurosurgical OT and neuro ICU
- Training in advanced neuro-monitoring techniques
- Focus on intracranial pressure and cerebral perfusion management

- Exposure to brain and spine surgical procedures
  - Integration of anaesthesia with neurosurgery and ICU care
  - Evidence-based clinical practice
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## LEARNING OUTCOMES

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### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of neurophysiology and anaesthesia.
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### COGNITIVE SKILLS

- Clinical decision-making in complex neurosurgical cases.
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### PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in neuro anaesthesia and ICU management.
  - Hands-on experience in neurosurgical settings.
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### TRANSFERABLE SKILLS

- Team coordination in multidisciplinary environments.
  - Clinical documentation and patient management.
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### SUBJECT-SPECIFIC SKILLS

- Advanced neuro-monitoring and neurocritical care techniques.
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## CURRICULUM MODULES – THEORY

- Principles of Neuro Anaesthesia
  - Neurophysiology and Neuropharmacology
  - Intracranial Pressure and Cerebral Perfusion
  - Anaesthesia for Brain and Spine Surgery
  - Neuro-Monitoring Techniques
  - Neurocritical Care and Ventilation
  - Trauma and Emergency Neuro Anaesthesia
  - Pain Management in Neurosurgery
  - Complications and Risk Management
  - Advances in Neuro Anaesthesia
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## PRACTICAL COURSEWORK

- Clinical training in neurosurgical OT and neuro ICU
- Anaesthesia management for brain and spine surgeries
- ICP monitoring and neurocritical care management
- Neuro-monitoring techniques and interpretation
- Emergency management of neurological cases
- Ventilatory support and ICU care
- Case documentation and clinical evaluation

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## CAREER OUTCOMES

Graduates of the Fellowship in Neuro Anaesthesia can pursue careers as:

- Neuro Anaesthesiologist
- Neurocritical Care Specialist
- ICU Consultant (Neuro ICU)
- Clinical Practitioner in Tertiary Care Hospitals
- Academic and Research Roles in Anaesthesia

