

FELLOWSHIP IN MINIMAL INVASIVE NEURO SURGERY

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 Minimal Invasive Neuro Surgery is a specialized program designed to develop expertise in minimally invasive techniques for the diagnosis and surgical management of neurological disorders.

The program focuses on:

- Minimally invasive brain and spine surgeries
- Endoscopic neurosurgical procedures
- Keyhole neurosurgery techniques
- Neuro-navigation and image-guided surgery
- Management of tumors and vascular lesions
- Advanced surgical instrumentation and technology

The program integrates clinical exposure, hands-on surgical training, and advanced technologies to ensure comprehensive expertise in minimally invasive neurosurgery.

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PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform minimally invasive neurosurgical procedures effectively.
 2. Manage neurological conditions using advanced techniques.
 3. Apply modern surgical technologies with precision.
 4. Deliver patient-centered and evidence-based care.
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PROGRAM OUTCOMES (POS)

1. **Surgical Expertise:** Master minimally invasive neurosurgical techniques.

2. **Advanced Technology Skills:** Utilize neuro-navigation and imaging systems.
 3. **Clinical Knowledge:** Manage tumors, vascular lesions, and spinal disorders.
 4. **Precision Surgery:** Perform safe and effective interventions.
 5. **Decision-Making Skills:** Handle complex neurosurgical cases.
 6. **Research Orientation:** Contribute to advancements in neurosurgery.
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COURSE OUTCOMES (COS)

- **CO1:** Understand principles of minimally invasive neurosurgery.
 - **CO2:** Perform endoscopic and keyhole surgical procedures.
 - **CO3:** Apply neuro-navigation and imaging techniques.
 - **CO4:** Manage neurological tumors and lesions.
 - **CO5:** Ensure patient safety and postoperative care.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in minimally invasive neurosurgery.
 2. Apply advanced surgical and diagnostic techniques.
 3. Integrate clinical, imaging, and surgical approaches.
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PROGRAM DETAILS

- **Certificate Awarded by:** Malla Reddy Vishwavidyapeeth
 - **Program Duration:** One-Year Fellowship
 - **Mode of Delivery:** Clinical Training + Surgical Exposure + Theoretical Learning
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(Deemed to be University)

ELIGIBILITY CRITERIA

- **Academic Qualification:** MS/DNB in General Surgery or M.Ch/DNB in Neurosurgery or equivalent
 - **Professional Requirement:** As per institutional norms
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KEY FEATURES

- Advanced training in minimally invasive neurosurgery
- Hands-on exposure to endoscopic and keyhole techniques
- Training in neuro-navigation and imaging systems
- Focus on precision and patient safety
- Evidence-based neurosurgical practice

LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of minimally invasive neurosurgical techniques

COGNITIVE SKILLS

- Clinical decision-making in complex neurosurgical cases

PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in endoscopic and minimally invasive procedures
- Hands-on experience in OT and advanced surgical setups

TRANSFERABLE SKILLS

- Patient communication and multidisciplinary coordination

SUBJECT-SPECIFIC SKILLS

- Advanced surgical instrumentation and image-guided techniques

CURRICULUM MODULES – THEORY

- Principles of Minimally Invasive Neurosurgery
- Endoscopic Neurosurgical Techniques
- Keyhole Surgery Approaches
- Neuro-navigation & Image-Guided Surgery
- Brain & Spine Tumors
- Vascular Lesions
- Advanced Surgical Technologies
- Postoperative Care & Complications
- Advances in Neurosurgery

PRACTICAL COURSEWORK

- Endoscopic neurosurgical procedures
- Keyhole surgical techniques
- Tumor and lesion management
- Image-guided surgery
- Clinical case discussions

- Research and documentation
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CAREER OUTCOMES

Graduates can pursue careers as:

- Minimally Invasive Neurosurgeon
- Neuro Surgery Specialist
- Consultant in Advanced Neurosurgical Centers
- Spine & Brain Surgery Specialist
- Academic and Research Professional



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