

## FELLOWSHIP IN PEDIATRIC NEUROSURGERY

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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 Pediatric Neurosurgery is a specialized program designed to develop expertise in the diagnosis and surgical management of neurological disorders in infants and children.

The program focuses on:

- Congenital brain and spinal anomalies
- Pediatric brain tumors and neuro-oncology
- Hydrocephalus and CSF disorders
- Pediatric trauma and emergency neurosurgery
- Epilepsy surgery in children
- Minimally invasive pediatric neurosurgical techniques

The program integrates clinical exposure, surgical training, and multidisciplinary pediatric care to ensure comprehensive expertise in pediatric neurosurgery.

(Deemed to be University)

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### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Diagnose and manage pediatric neurological disorders effectively.
  2. Perform pediatric neurosurgical procedures with precision.
  3. Apply minimally invasive and advanced surgical techniques.
  4. Deliver patient-centered and family-oriented care.
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### PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage congenital and acquired pediatric neurosurgical conditions.
  2. **Surgical Skills:** Perform pediatric neurosurgical procedures effectively.
  3. **Advanced Techniques:** Apply minimally invasive and modern surgical methods.
  4. **Pediatric Care:** Provide age-specific and family-centered care.
  5. **Decision-Making Skills:** Handle complex pediatric cases.
  6. **Research Orientation:** Contribute to advancements in pediatric neurosurgery.
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#### COURSE OUTCOMES (COS)

- **CO1:** Understand pediatric neuroanatomy and pathology.
  - **CO2:** Diagnose and manage congenital anomalies and tumors.
  - **CO3:** Perform pediatric neurosurgical procedures.
  - **CO4:** Manage trauma and emergency neurosurgical cases.
  - **CO5:** Ensure long-term follow-up and rehabilitation.
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#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in pediatric neurosurgery.
  2. Apply advanced surgical and diagnostic techniques.
  3. Integrate clinical, surgical, and research 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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#### ELIGIBILITY CRITERIA

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

- Advanced training in pediatric neurosurgery
- Hands-on exposure to pediatric surgical procedures
- Training in congenital and tumor management
- Focus on minimally invasive techniques

- Evidence-based pediatric neurosurgical practice
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## LEARNING OUTCOMES

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### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of pediatric neurological disorders
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### COGNITIVE SKILLS

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

- Proficiency in pediatric neurosurgical procedures
  - Hands-on experience in pediatric OT and ICU
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### TRANSFERABLE SKILLS

- Family communication and multidisciplinary teamwork
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### SUBJECT-SPECIFIC SKILLS

- Advanced pediatric neurosurgical and diagnostic techniques
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## CURRICULUM MODULES – THEORY

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- Pediatric Neuroanatomy
  - Congenital Brain & Spine Disorders
  - Pediatric Neuro-Oncology
  - Hydrocephalus & CSF Disorders
  - Pediatric Trauma
  - Epilepsy Surgery
  - Minimally Invasive Neurosurgery
  - Pediatric Neurocritical Care
  - Advances in Pediatric Neurosurgery
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## PRACTICAL COURSEWORK

- Pediatric neurosurgical procedures
- Tumor and congenital anomaly management
- Trauma and emergency case handling

- ICU and postoperative care
  - Multidisciplinary case discussions
  - Research and documentation
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## CAREER OUTCOMES

Graduates can pursue careers as:

- Pediatric Neurosurgeon
- Neurosurgery Specialist (Pediatric Focus)
- Consultant in Pediatric Hospitals
- Neuro-Oncology Specialist (Pediatric)
- Academic and Research Professional



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VISHWAVIDYAPEETH**  
(Deemed to be University)