

FELLOWSHIP IN PAEDIATRIC ANAESTHESIA

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 Paediatric Anaesthesia is a specialized program designed to develop expertise in anaesthetic management for infants, children, and adolescents undergoing surgical and diagnostic procedures.

The program focuses on:

- Pediatric physiology and pharmacology
- Anaesthesia for neonatal and pediatric surgeries
- Airway management in children
- Pediatric pain management
- Critical care and ICU management
- Emergency and resuscitation in pediatric patients

The program integrates **clinical exposure, simulation-based training, and hands-on anaesthesia practice**, ensuring comprehensive expertise in pediatric anaesthesia.

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Provide safe anaesthesia for pediatric and neonatal surgeries.
 2. Manage airway and perioperative care in children.
 3. Apply pediatric pain management techniques.
 4. Deliver comprehensive pediatric critical care.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage anaesthesia for pediatric surgical procedures.

2. **Airway Skills:** Perform pediatric airway management effectively.
3. **Pain Management:** Apply acute and chronic pain management strategies in children.
4. **Critical Care Skills:** Manage pediatric ICU and ventilatory support.
5. **Emergency Management:** Handle pediatric emergencies and resuscitation.
6. **Multidisciplinary Approach:** Collaborate with pediatricians and surgeons.
7. **Evidence-Based Practice:** Apply current pediatric anaesthesia guidelines.

COURSE OUTCOMES (COS)

- **CO1:** Understand pediatric physiology and anaesthesia principles.
- **CO2:** Perform anaesthetic management in pediatric surgeries.
- **CO3:** Apply airway and pain management techniques.
- **CO4:** Manage pediatric critical care patients.
- **CO5:** Handle emergencies and resuscitation in children.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in pediatric anaesthesia techniques.
2. Apply advanced airway and pain management strategies.
3. Integrate multidisciplinary approaches in pediatric care.

PROGRAM DETAILS

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

(Deemed to be University)

ELIGIBILITY CRITERIA

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

KEY FEATURES

- Specialized training in pediatric anaesthesia
- Hands-on exposure in pediatric OT and ICU
- Training in neonatal and infant anaesthesia
- Focus on airway and pain management in children

- Simulation-based emergency training
 - Integration of anaesthesia with pediatrics and surgery
 - Evidence-based clinical practice
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of pediatric physiology and anaesthesia.
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COGNITIVE SKILLS

- Clinical decision-making in pediatric surgical cases.
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in pediatric anaesthesia and airway management.
 - Hands-on experience in pediatric OT and ICU settings.
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TRANSFERABLE SKILLS

- Communication with children and caregivers.
 - Clinical documentation and multidisciplinary coordination.
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SUBJECT-SPECIFIC SKILLS

- Advanced pediatric anaesthesia and critical care techniques.
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CURRICULUM MODULES – THEORY

- Principles of Pediatric Anaesthesia
 - Pediatric Physiology and Pharmacology
 - Neonatal Anaesthesia
 - Airway Management in Children
 - Pediatric Pain Management
 - Pediatric Critical Care
 - Emergency and Resuscitation
 - Anaesthesia for Pediatric Surgeries
 - Complications and Risk Management
 - Advances in Pediatric Anaesthesia
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PRACTICAL COURSEWORK

- Clinical training in pediatric OT and ICU
 - Anaesthesia management for pediatric and neonatal surgeries
 - Airway management and resuscitation techniques
 - Pain management and sedation procedures
 - Emergency management in pediatric patients
 - ICU care and ventilatory support
 - Case documentation and clinical evaluation
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CAREER OUTCOMES

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

- Pediatric Anaesthesiologist
- Neonatal and Pediatric ICU Specialist
- Clinical Practitioner in Pediatric Hospitals
- Critical Care Specialist
- Academic and Research Roles in Anaesthesia

