

## FELLOWSHIP IN PAEDIATRIC CRITICAL CARE

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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 Paediatric Critical Care is a specialized program designed to develop expertise in the management of critically ill infants, children, and adolescents requiring intensive care.

The program focuses on:

- Pediatric critical care principles
- Pediatric advanced life support (PALS)
- Mechanical ventilation in children
- Hemodynamic monitoring and shock management
- Sepsis and multi-organ dysfunction in pediatrics
- Neonatal and pediatric ICU care

The program integrates **ICU-based clinical training, simulation, and hands-on procedures**, ensuring advanced competency in pediatric critical care.

(Deemed to be University)

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### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Provide comprehensive care to critically ill pediatric patients.
  2. Apply pediatric advanced life support and resuscitation techniques.
  3. Manage respiratory failure and mechanical ventilation in children.
  4. Deliver evidence-based and patient-centered pediatric ICU care.
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### PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage critically ill infants and children with complex conditions.
  2. **Resuscitation Skills:** Apply PALS and pediatric emergency protocols effectively.
  3. **Ventilatory Support:** Manage mechanical ventilation in pediatric patients.
  4. **Hemodynamic Management:** Monitor and manage shock and organ dysfunction in children.
  5. **Infection Control:** Diagnose and treat pediatric sepsis and ICU infections.
  6. **Multidisciplinary Approach:** Collaborate with pediatricians and intensivists.
  7. **Evidence-Based Practice:** Apply updated pediatric critical care guidelines.
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#### COURSE OUTCOMES (COS)

- **CO1:** Understand principles of pediatric critical care.
  - **CO2:** Manage critically ill pediatric patients in ICU settings.
  - **CO3:** Apply mechanical ventilation and life support in children.
  - **CO4:** Perform pediatric critical care procedures.
  - **CO5:** Ensure comprehensive care and recovery in pediatric patients.
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#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in pediatric ICU management.
  2. Apply advanced pediatric life support and monitoring techniques.
  3. Integrate multidisciplinary approaches in pediatric critical care.
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#### PROGRAM DETAILS

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

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

- Specialized training in pediatric critical care

- Hands-on exposure in pediatric ICU settings
  - Training in pediatric ventilation and life support
  - Focus on neonatal and pediatric emergency management
  - Exposure to sepsis and organ failure management in children
  - Integration of multidisciplinary pediatric care
  - Evidence-based clinical practice
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## LEARNING OUTCOMES

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### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of pediatric ICU care and physiology.
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### COGNITIVE SKILLS

- Clinical decision-making in pediatric critical conditions.
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### PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in pediatric ICU procedures and monitoring.
  - Hands-on experience in pediatric ICU environments.
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### TRANSFERABLE SKILLS

- Communication with children and caregivers.
  - Team coordination in pediatric critical care units.
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### SUBJECT-SPECIFIC SKILLS

- Advanced pediatric life support and ICU management techniques.
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## CURRICULUM MODULES – THEORY

- Principles of Pediatric Critical Care
- Pediatric Advanced Life Support (PALS)
- Mechanical Ventilation in Children
- Hemodynamic Monitoring and Shock
- Pediatric Sepsis and Infection Control
- Neonatal Critical Care
- Organ Dysfunction in Pediatrics
- Nutrition in Pediatric ICU
- Ethical and Legal Aspects
- Advances in Pediatric Critical Care

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## PRACTICAL COURSEWORK

- Clinical training in pediatric ICU units
- Mechanical ventilation and airway management in children
- Pediatric resuscitation and emergency care
- Management of sepsis and organ failure
- Neonatal and pediatric ICU care
- Patient evaluation and treatment planning
- Case documentation and clinical discussions

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## CAREER OUTCOMES

Graduates of the Fellowship in Paediatric Critical Care can pursue careers as:

- Pediatric Intensivist
- Pediatric Critical Care Specialist
- NICU/PICU Consultant
- Emergency Pediatric Specialist
- Clinical Practitioner in Pediatric Hospitals
- Academic and Research Roles in Pediatric Critical Care

