

## FELLOWSHIP IN INTERVENTIONS IN INTENSIVE 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 Interventions in Intensive Care is a specialized program designed to develop expertise in performing advanced invasive and non-invasive procedures required in the management of critically ill patients.

The program focuses on:

- Principles of intensive care interventions
- Airway management and intubation techniques
- Vascular access and invasive monitoring
- Ultrasound-guided procedures
- Mechanical ventilation and procedural support
- Emergency and bedside ICU interventions

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

(Deemed to be University)

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### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform advanced ICU procedures safely and effectively.
  2. Apply ultrasound-guided and minimally invasive techniques.
  3. Manage airway, ventilation, and invasive monitoring.
  4. Deliver evidence-based and patient-centered critical care.
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### PROGRAM OUTCOMES (POS)

1. **Procedural Expertise:** Perform ICU interventions such as intubation, central lines, and arterial lines.
  2. **Airway Skills:** Master advanced airway management techniques.
  3. **Ultrasound Proficiency:** Apply point-of-care ultrasound (POCUS) for diagnosis and procedures.
  4. **Critical Care Skills:** Support mechanical ventilation and invasive monitoring.
  5. **Emergency Management:** Perform life-saving bedside interventions.
  6. **Multidisciplinary Approach:** Collaborate with ICU and emergency teams.
  7. **Patient Safety:** Ensure adherence to protocols and safety standards.
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#### COURSE OUTCOMES (COS)

- **CO1:** Understand principles of ICU interventions and procedures.
  - **CO2:** Perform airway and vascular access procedures.
  - **CO3:** Apply ultrasound-guided techniques in ICU settings.
  - **CO4:** Manage mechanical ventilation and invasive monitoring.
  - **CO5:** Ensure safe and effective procedural outcomes.
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#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in ICU procedural skills.
  2. Apply advanced interventional and monitoring techniques.
  3. Integrate multidisciplinary approaches in critical care procedures.
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#### PROGRAM DETAILS

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

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

- Specialized training in ICU interventions and procedures

- Hands-on exposure to bedside and emergency procedures
  - Training in ultrasound-guided techniques (POCUS)
  - Focus on airway management and vascular access
  - Exposure to invasive monitoring and ventilation support
  - Integration of procedural skills with critical care
  - Emphasis on patient safety and precision
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## LEARNING OUTCOMES

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### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of ICU procedures and interventions.
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### COGNITIVE SKILLS

- Clinical decision-making in procedural and emergency situations.
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### PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in invasive and non-invasive ICU procedures.
  - Hands-on experience in ICU and emergency settings.
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### TRANSFERABLE SKILLS

- Team coordination and communication in critical care environments.
  - Clinical documentation and procedural planning.
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### SUBJECT-SPECIFIC SKILLS

- Advanced ICU intervention and procedural techniques.
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## CURRICULUM MODULES – THEORY

- Principles of ICU Interventions
- Airway Management and Intubation
- Vascular Access and Invasive Monitoring
- Point-of-Care Ultrasound (POCUS)
- Mechanical Ventilation Support
- Emergency Bedside Procedures
- Infection Control and Sterile Techniques
- Complications and Risk Management
- Ethical and Legal Aspects
- Advances in Critical Care Interventions

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## PRACTICAL COURSEWORK

- Clinical training in ICU procedural units
- Airway management and intubation techniques
- Central line, arterial line, and vascular access procedures
- Ultrasound-guided interventions
- Mechanical ventilation and monitoring support
- Emergency bedside procedures and simulations
- Case documentation and clinical evaluation

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## CAREER OUTCOMES

Graduates of the Fellowship in Interventions in Intensive Care can pursue careers as:

- Critical Care Intervention Specialist
- Intensivist with Advanced Procedural Skills
- ICU Consultant
- Emergency and Critical Care Physician
- Clinical Practitioner in Tertiary Care Hospitals
- Academic and Research Roles in Critical Care Medicine

