

## FELLOWSHIP IN RESPIRATORY 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 Respiratory Intensive Care is a specialized program designed to develop expertise in the management of critically ill patients with respiratory failure and pulmonary disorders in intensive care settings.

The program focuses on:

- Respiratory physiology and critical care principles
- Mechanical ventilation and advanced ventilatory support
- Acute respiratory failure and ARDS management
- Pulmonary infections and critical lung diseases
- Airway management and bronchoscopy
- ICU protocols and respiratory care

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

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### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Provide comprehensive care to critically ill respiratory patients.
  2. Apply advanced ventilatory support and airway management techniques.
  3. Manage acute respiratory failure and pulmonary emergencies.
  4. Deliver evidence-based and patient-centered ICU care.
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### PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage critically ill patients with respiratory disorders.

2. **Ventilatory Skills:** Apply mechanical ventilation and advanced respiratory support.
  3. **Airway Management:** Perform airway interventions and bronchoscopy.
  4. **Critical Care Skills:** Manage ARDS, pneumonia, and respiratory failure.
  5. **Infection Control:** Diagnose and treat pulmonary infections in ICU.
  6. **Multidisciplinary Approach:** Collaborate with pulmonologists and intensivists.
  7. **Evidence-Based Practice:** Apply updated respiratory critical care guidelines.
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#### COURSE OUTCOMES (COS)

- **CO1:** Understand respiratory physiology and critical care principles.
  - **CO2:** Manage acute respiratory failure and ICU patients.
  - **CO3:** Apply mechanical ventilation and airway management techniques.
  - **CO4:** Perform respiratory ICU procedures.
  - **CO5:** Ensure comprehensive patient care and recovery.
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#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in respiratory ICU management.
  2. Apply advanced ventilatory and airway techniques effectively.
  3. Integrate multidisciplinary approaches in respiratory critical care.
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#### PROGRAM DETAILS

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

(Deemed to be University)

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#### ELIGIBILITY CRITERIA

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

- Specialized training in respiratory intensive care
- Hands-on exposure in ICU settings
- Training in mechanical ventilation and airway management
- Focus on ARDS, respiratory failure, and pulmonary infections

- Exposure to bronchoscopy and respiratory procedures
  - Integration of pulmonology and critical care
  - Evidence-based clinical practice
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## LEARNING OUTCOMES

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### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of respiratory critical care principles.
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### COGNITIVE SKILLS

- Clinical decision-making in respiratory ICU settings.
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### PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in ventilatory support and airway management.
  - Hands-on experience in respiratory ICU environments.
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### TRANSFERABLE SKILLS

- Team coordination in critical care environments.
  - Communication with patients' families and healthcare teams.
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### SUBJECT-SPECIFIC SKILLS

- Advanced respiratory ICU and ventilation techniques.
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## CURRICULUM MODULES – THEORY

- Principles of Respiratory Intensive Care
  - Respiratory Physiology
  - Mechanical Ventilation
  - Acute Respiratory Failure and ARDS
  - Pulmonary Infections in ICU
  - Airway Management and Bronchoscopy
  - Oxygen Therapy and Ventilatory Support
  - Sepsis and Critical Care
  - Infection Control in ICU
  - Advances in Respiratory Critical Care
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## PRACTICAL COURSEWORK

- Clinical training in respiratory ICU units
  - Mechanical ventilation and airway management
  - Bronchoscopy and respiratory procedures
  - Management of ARDS and respiratory failure
  - ICU patient monitoring and care planning
  - Emergency respiratory interventions
  - Case documentation and clinical discussions
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## CAREER OUTCOMES

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

- Respiratory Intensivist
- Critical Care Specialist (Respiratory ICU)
- Pulmonary Critical Care Physician
- ICU Consultant
- Clinical Practitioner in Tertiary Care Hospitals
- Academic and Research Roles in Critical Care Medicine

