

FELLOWSHIP IN CARDIAC INTENSIVE CARE

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 Cardiac Intensive Care is a specialized program designed to develop expertise in the management of critically ill cardiac patients requiring advanced monitoring and life support in intensive care settings.

The program focuses on:

- Cardiac critical care principles
- Management of acute coronary syndromes
- Advanced cardiac life support (ACLS)
- Hemodynamic monitoring and support
- Mechanical ventilation in cardiac patients
- Post-operative care after cardiac surgery

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

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Provide comprehensive care to critically ill cardiac patients.
 2. Apply advanced cardiac life support and resuscitation techniques.
 3. Manage hemodynamic instability and cardiac emergencies.
 4. Deliver evidence-based and patient-centered ICU care.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage critically ill cardiac patients in ICU settings.

2. **Resuscitation Skills:** Apply ACLS and cardiac emergency protocols effectively.
 3. **Hemodynamic Management:** Monitor and manage shock and cardiac dysfunction.
 4. **Ventilatory Support:** Manage respiratory failure in cardiac patients.
 5. **Post-Operative Care:** Provide ICU care following cardiac surgeries.
 6. **Multidisciplinary Approach:** Collaborate with cardiologists and intensivists.
 7. **Evidence-Based Practice:** Apply updated cardiac critical care guidelines.
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COURSE OUTCOMES (COS)

- **CO1:** Understand principles of cardiac intensive care.
 - **CO2:** Manage critically ill cardiac patients.
 - **CO3:** Apply advanced life support and hemodynamic monitoring.
 - **CO4:** Perform ICU procedures and interventions.
 - **CO5:** Ensure comprehensive patient care and recovery.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in cardiac ICU management.
 2. Apply advanced cardiac life support and monitoring techniques.
 3. Integrate multidisciplinary approaches in cardiac 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)

ELIGIBILITY CRITERIA

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

- Specialized training in cardiac intensive care
- Hands-on exposure in cardiac ICU settings
- Training in advanced cardiac monitoring and life support
- Focus on acute coronary syndromes and cardiac emergencies

- Exposure to post-operative cardiac care
 - Integration of cardiology and critical care practices
 - Evidence-based clinical practice
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of cardiac critical care principles.
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COGNITIVE SKILLS

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

- Proficiency in cardiac ICU procedures and monitoring.
 - Hands-on experience in cardiac 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 cardiac life support and ICU management techniques.
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CURRICULUM MODULES – THEORY

- Principles of Cardiac Intensive Care
 - Acute Coronary Syndromes
 - Advanced Cardiac Life Support (ACLS)
 - Hemodynamic Monitoring
 - Mechanical Ventilation in Cardiac Patients
 - Post-Cardiac Surgery ICU Care
 - Arrhythmia Management
 - Heart Failure and Shock
 - Infection Control in Cardiac ICU
 - Advances in Cardiac Critical Care
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PRACTICAL COURSEWORK

- Clinical training in cardiac ICU units
 - Management of acute cardiac emergencies
 - Hemodynamic monitoring and life support techniques
 - Mechanical ventilation and airway management
 - Post-operative cardiac care
 - Patient evaluation and ICU care planning
 - Case documentation and clinical discussions
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CAREER OUTCOMES

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

- Cardiac Intensivist
- Critical Care Cardiologist
- ICU Consultant (Cardiac Care)
- Emergency and Critical Care Specialist
- Clinical Practitioner in Cardiac Hospitals
- Academic and Research Roles in Cardiac Critical Care

