

## FELLOWSHIP IN CLINICAL CARDIOLOGY

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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 in medical, dental, nursing, pharmaceutical sciences, engineering, and allied health sciences. The institution emphasizes academic excellence, clinical proficiency, innovation, and global collaborations, contributing significantly to advanced healthcare education and training.

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### PROGRAM OVERVIEW

The Fellowship in Clinical Cardiology is a specialized clinical program designed to develop expertise in the diagnosis, management, and prevention of cardiovascular diseases. The program focuses on:

- Cardiovascular anatomy and physiology
- Diagnosis and management of cardiac diseases
- Hypertension and ischemic heart disease
- Heart failure and arrhythmias
- Preventive cardiology and risk factor management
- Non-invasive cardiac diagnostic techniques

The program integrates **theoretical learning, clinical exposure, and hands-on training**, ensuring competency in cardiovascular care.

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### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Diagnose and manage common cardiovascular diseases.
  2. Apply preventive strategies for cardiac health.
  3. Utilize diagnostic tools in cardiology effectively.
  4. Deliver evidence-based cardiovascular care.
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### PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Diagnose and manage cardiac conditions including hypertension, coronary artery disease, and heart failure.

2. **Diagnostic Proficiency:** Interpret ECG, echocardiography, and other non-invasive cardiac investigations.
  3. **Therapeutic Skills:** Apply pharmacological management and preventive strategies.
  4. **Emergency Care:** Manage acute cardiac emergencies such as myocardial infarction.
  5. **Preventive Cardiology:** Address risk factors including diabetes, obesity, and lifestyle habits.
  6. **Multidisciplinary Care:** Collaborate with cardiologists and healthcare teams.
  7. **Evidence-Based Practice:** Apply clinical guidelines and research in cardiology.
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#### COURSE OUTCOMES (COS)

- **CO1:** Understand cardiovascular physiology and disease mechanisms.
  - **CO2:** Diagnose and manage common cardiac disorders.
  - **CO3:** Interpret ECG and other cardiac diagnostic tools.
  - **CO4:** Manage cardiac emergencies and critical care situations.
  - **CO5:** Apply preventive cardiology and lifestyle interventions.
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#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate competency in clinical cardiology diagnosis and management.
  2. Apply diagnostic tools for cardiac evaluation and monitoring.
  3. Integrate preventive and therapeutic strategies in cardiovascular care.
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#### PROGRAM DETAILS

- **Certificate Awarded by:** Malla Reddy Vishwavidyapeeth
  - **Program Duration:** One-Year Fellowship
  - **Mode of Delivery:** Hybrid (Clinical Training + Theoretical Learning + Hands-on Practice)
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#### ELIGIBILITY CRITERIA

- **Academic Qualification:** MD/DNB in General Medicine
  - **Professional Requirement:** As per institutional and regulatory guidelines
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#### KEY FEATURES

- Specialized training in cardiovascular diseases and management
- Hands-on clinical exposure in cardiology units

- Training in ECG, echocardiography, and diagnostic techniques
  - Focus on preventive cardiology and risk factor management
  - Exposure to cardiac emergencies and critical care
  - Integration of clinical and diagnostic cardiology
  - Evidence-based clinical practice
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## LEARNING OUTCOMES

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### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of cardiovascular diseases and treatment strategies.
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### COGNITIVE SKILLS

- Clinical reasoning and decision-making in cardiology.
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### PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in cardiac diagnosis, ECG interpretation, and patient management.
  - Hands-on experience in cardiology clinical settings.
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### TRANSFERABLE SKILLS

- Patient counseling and communication regarding cardiac health.
  - Clinical documentation and reporting.
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### SUBJECT-SPECIFIC SKILLS

- Integrated management of cardiovascular diseases using multidisciplinary approaches.
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(Deemed to be University)

## CURRICULUM MODULES – THEORY

- Cardiovascular Anatomy and Physiology
  - Hypertension and Ischemic Heart Disease
  - Heart Failure and Cardiomyopathies
  - Cardiac Arrhythmias
  - ECG Interpretation and Cardiac Diagnostics
  - Echocardiography and Non-Invasive Imaging
  - Preventive Cardiology and Risk Management
  - Acute Cardiac Care and Emergencies
  - Pharmacological Management in Cardiology
  - Advances in Cardiovascular Medicine
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## PRACTICAL COURSEWORK

- Clinical training in cardiology departments and units
- ECG recording and interpretation
- Echocardiography observation and basic training
- Management of cardiac patients and emergencies
- Risk assessment and preventive cardiology practices
- Case documentation and clinical evaluation
- Patient counseling and follow-up care

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## CAREER OUTCOMES

Graduates of the Fellowship in Clinical Cardiology can pursue careers as:

- Clinical Cardiologist (Non-Invasive)
- Cardiology Consultant
- Hospital-Based Cardiac Care Specialist
- Preventive Cardiology Specialist
- Clinical Practitioner in Multispecialty Hospitals
- Academic and Research Roles in Cardiology

