

## FELLOWSHIP IN CARDIAC IMAGING

---

### 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 Imaging is a specialized program designed to develop expertise in non-invasive diagnostic techniques for cardiovascular diseases.

The program focuses on:

- Echocardiography (2D, 3D, Doppler)
- Cardiac CT and MRI imaging
- Stress imaging and functional assessment
- Imaging of congenital and structural heart diseases
- Advanced cardiovascular imaging techniques
- Clinical interpretation and reporting

The program integrates **advanced imaging training, clinical exposure, and hands-on practice**, ensuring comprehensive expertise in cardiac imaging.

---

(Deemed to be University)

### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform and interpret advanced cardiac imaging techniques.
  2. Diagnose cardiovascular diseases using non-invasive methods.
  3. Apply imaging modalities in clinical decision-making.
  4. Deliver accurate, evidence-based diagnostic reports.
- 

### PROGRAM OUTCOMES (POS)

1. **Imaging Expertise:** Perform echocardiography, CT, and MRI for cardiac evaluation.
2. **Diagnostic Proficiency:** Interpret imaging findings in cardiovascular diseases.

3. **Technical Skills:** Utilize advanced imaging equipment and software.
  4. **Clinical Integration:** Apply imaging results in patient management.
  5. **Comprehensive Evaluation:** Assess structural, functional, and congenital heart diseases.
  6. **Multidisciplinary Approach:** Collaborate with cardiologists and radiologists.
  7. **Evidence-Based Practice:** Apply current guidelines in cardiac imaging.
- 

#### COURSE OUTCOMES (COS)

- **CO1:** Understand principles of cardiac imaging modalities.
  - **CO2:** Perform and interpret echocardiography and advanced imaging.
  - **CO3:** Diagnose cardiovascular conditions using imaging techniques.
  - **CO4:** Apply imaging findings in clinical practice.
  - **CO5:** Develop reporting and diagnostic skills.
- 

#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in non-invasive cardiac imaging techniques.
  2. Apply advanced diagnostic imaging modalities effectively.
  3. Integrate imaging findings into clinical decision-making.
- 

#### PROGRAM DETAILS

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

(Deemed to be University)

---

#### ELIGIBILITY CRITERIA

- **Academic Qualification:** MBBS with MD/DNB in Cardiology / Radiology or equivalent
  - **Professional Requirement:** As per institutional norms
- 

#### KEY FEATURES

- Advanced training in cardiac imaging techniques
- Hands-on exposure to echocardiography, CT, and MRI
- Training in stress and functional imaging
- Focus on structural and congenital heart disease imaging

- Integration of cardiology and radiology practices
  - Emphasis on accurate diagnosis and reporting
  - Evidence-based clinical practice
- 

## LEARNING OUTCOMES

---

### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of cardiovascular imaging modalities.
- 

### COGNITIVE SKILLS

- Clinical decision-making based on imaging findings.
- 

### PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in performing and interpreting cardiac imaging.
  - Hands-on experience with imaging technologies.
- 

### TRANSFERABLE SKILLS

- Diagnostic reporting and communication skills.
  - Clinical documentation and case interpretation.
- 

### SUBJECT-SPECIFIC SKILLS

- Advanced cardiac imaging techniques and analysis.
- 

## CURRICULUM MODULES – THEORY

- Principles of Cardiac Imaging
  - Echocardiography (2D, 3D, Doppler)
  - Cardiac CT Imaging
  - Cardiac MRI Techniques
  - Stress Imaging and Functional Assessment
  - Imaging of Congenital Heart Diseases
  - Structural Heart Disease Imaging
  - Reporting and Interpretation
  - Imaging-Guided Clinical Decisions
  - Advances in Cardiac Imaging
- 

## PRACTICAL COURSEWORK

- Hands-on training in echocardiography and imaging labs
  - Cardiac CT and MRI interpretation
  - Stress testing and functional imaging procedures
  - Diagnosis of structural and congenital heart diseases
  - Reporting and clinical case discussions
  - Patient evaluation and follow-up imaging
  - Case documentation and clinical assessment
- 

## CAREER OUTCOMES

Graduates of the Fellowship in Cardiac Imaging can pursue careers as:

- Cardiac Imaging Specialist
- Non-Invasive Cardiologist
- Cardiovascular Radiology Consultant
- Clinical Practitioner in Cardiac Centers
- Academic and Research Roles in Cardiac Imaging

