

FELLOWSHIP IN CARDIAC ELECTROPHYSIOLOGY

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 Electrophysiology is a specialized program designed to develop expertise in the diagnosis and management of cardiac rhythm disorders using advanced electrophysiological techniques.

The program focuses on:

- Cardiac electrophysiology and conduction system
- Diagnosis of arrhythmias
- Electrophysiology (EP) studies
- Catheter ablation procedures
- Pacemaker and ICD implantation
- Management of complex rhythm disorders

The program integrates **clinical exposure, EP lab training, and hands-on procedural experience**, ensuring advanced competency in cardiac electrophysiology.

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Diagnose and manage cardiac arrhythmias effectively.
 2. Perform electrophysiology studies and catheter ablation procedures.
 3. Implant and manage cardiac devices such as pacemakers and ICDs.
 4. Deliver evidence-based and patient-centered cardiac care.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Diagnose and manage arrhythmias such as atrial fibrillation, tachycardia, and heart blocks.
 2. **Procedural Skills:** Perform EP studies, catheter ablation, and device implantation.
 3. **Device Management:** Handle pacemakers, ICDs, and cardiac resynchronization therapy devices.
 4. **Diagnostic Proficiency:** Interpret ECG, Holter monitoring, and electrophysiological data.
 5. **Emergency Management:** Manage life-threatening arrhythmias and cardiac emergencies.
 6. **Multidisciplinary Approach:** Collaborate with cardiology and critical care teams.
 7. **Evidence-Based Practice:** Apply updated guidelines in electrophysiology.
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COURSE OUTCOMES (COS)

- **CO1:** Understand cardiac electrophysiology and conduction systems.
 - **CO2:** Diagnose and manage cardiac arrhythmias.
 - **CO3:** Perform EP studies and catheter ablation procedures.
 - **CO4:** Implant and manage cardiac devices.
 - **CO5:** Apply electrophysiological data in clinical practice.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in electrophysiological diagnosis and treatment.
 2. Apply advanced EP procedures and device therapies effectively.
 3. Integrate multidisciplinary approaches in arrhythmia management.
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PROGRAM DETAILS

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

- **Academic Qualification:** MBBS with DM/DNB in Cardiology or equivalent
 - **Professional Requirement:** As per institutional norms
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KEY FEATURES

- Advanced training in cardiac electrophysiology
 - Hands-on exposure in EP labs and procedures
 - Training in catheter ablation and device implantation
 - Focus on arrhythmia diagnosis and management
 - Exposure to pacemakers and ICD technologies
 - Integration of clinical and procedural cardiology
 - Evidence-based clinical practice
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of cardiac electrophysiology and arrhythmias.
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COGNITIVE SKILLS

- Clinical decision-making in complex rhythm disorders.
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in EP procedures and device management.
 - Hands-on experience in electrophysiology labs.
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TRANSFERABLE SKILLS

- Patient communication and procedural counseling.
 - Clinical documentation and case management.
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SUBJECT-SPECIFIC SKILLS

- Advanced electrophysiological techniques and interventions.
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CURRICULUM MODULES – THEORY

- Basics of Cardiac Electrophysiology
- Cardiac Conduction System
- Arrhythmias and Their Management
- Electrophysiology Studies (EPS)
- Catheter Ablation Techniques
- Pacemakers and ICDs
- Cardiac Resynchronization Therapy
- ECG and Holter Interpretation
- Complications and Risk Management
- Advances in Cardiac Electrophysiology

PRACTICAL COURSEWORK

- Hands-on training in electrophysiology labs
- EP studies and catheter ablation procedures
- Pacemaker and ICD implantation
- ECG and Holter monitoring interpretation
- Management of arrhythmias and emergencies
- Pre- and post-procedural patient care
- Case documentation and clinical evaluation

CAREER OUTCOMES

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

- Cardiac Electrophysiologist
- Arrhythmia Specialist
- Device Implantation Specialist
- Clinical Practitioner in Cardiac Hospitals
- Academic and Research Roles in Electrophysiology

