

FELLOWSHIP IN INTERVENTIONAL RADIOLOGY

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 Interventional Radiology is a one-year advanced program designed to train healthcare professionals in minimally invasive, image-guided diagnostic and therapeutic procedures.

The program focuses on:

- Imaging-guided procedures using fluoroscopy, CT, MRI, and ultrasound
- Vascular interventions including angiography, angioplasty, and embolization
- Image-guided biopsy and drainage procedures
- Tumor ablation techniques (RFA, cryoablation, microwave ablation)
- Interventions for liver, renal, and peripheral vascular diseases
- Patient safety, radiation protection, and ethical practice

The program integrates clinical training, procedural expertise, and research to ensure comprehensive competency in interventional radiology.

**MALLA REDDY
VISHWAVIDYAPEETH**
(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform minimally invasive image-guided procedures.
 2. Apply vascular and non-vascular interventional techniques.
 3. Utilize advanced imaging modalities for diagnosis and treatment.
 4. Manage oncological and non-oncological conditions.
 5. Ensure patient safety and radiation protection.
 6. Address ethical considerations in interventional procedures.
 7. Conduct research in interventional radiology.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Perform diagnostic and therapeutic interventional procedures.
 2. **Imaging Skills:** Utilize fluoroscopy, CT, MRI, and ultrasound effectively.
 3. **Vascular Skills:** Perform angioplasty, stenting, and embolization.
 4. **Oncological Expertise:** Apply tumor ablation techniques.
 5. **Procedural Skills:** Conduct biopsies and drainage procedures.
 6. **Safety Awareness:** Ensure radiation safety and patient care standards.
 7. **Research Orientation:** Contribute to advancements in interventional radiology.
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COURSE OUTCOMES (COS)

- CO1: Perform interventional radiology procedures independently.
 - CO2: Apply imaging techniques for guided interventions.
 - CO3: Manage vascular and non-vascular conditions.
 - CO4: Perform tumor ablation and oncological interventions.
 - CO5: Integrate clinical and procedural decision-making.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in interventional radiology procedures.
 2. Apply advanced imaging and procedural techniques.
 3. Integrate multidisciplinary approaches in patient care.
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PROGRAM DETAILS

- Certificate Awarded by: Malla Reddy Vishwavidyapeeth
 - Program Duration: One-Year Fellowship
 - Mode of Delivery: Clinical + Theoretical + Hands-on Training
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ELIGIBILITY CRITERIA

- Academic Qualification: MD in Radiology or equivalent
 - Professional Requirement: As per institutional norms
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KEY FEATURES

- Advanced training in interventional radiology
- Hands-on exposure to minimally invasive procedures
- Training in vascular and non-vascular interventions
- Focus on oncological and image-guided therapies

- Emphasis on patient safety and radiation protection
 - Evidence-based and technology-driven practice
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of interventional radiology principles
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COGNITIVE SKILLS

- Clinical decision-making in image-guided interventions
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in IR procedures and imaging techniques
 - Hands-on experience in clinical and procedural settings
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TRANSFERABLE SKILLS

- Communication and multidisciplinary collaboration
 - Patient-centered care and safety practices
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SUBJECT-SPECIFIC SKILLS

- Advanced interventional radiology and imaging-guided techniques
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CURRICULUM MODULES – THEORY

SEMESTER 1: FUNDAMENTALS OF INTERVENTIONAL RADIOLOGY

- Introduction to Interventional Radiology
 - Basic Imaging Techniques (Fluoroscopy, CT, MRI, Ultrasound)
 - Vascular Interventions
 - Biopsy and Drainage Procedures
 - Non-Vascular Interventions
 - Clinical Rotations
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SEMESTER 2: ADVANCED INTERVENTIONAL TECHNIQUES

- Oncological Interventions (RFA, Cryoablation, Microwave Ablation)
- Interventional Nephrology
- Liver Interventions (TACE, Biopsy)

- Endovenous and Peripheral Interventions
 - Paediatric Interventional Radiology
 - Research Project & Case Studies
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PRACTICAL COURSEWORK

- Vascular procedures (angiography, angioplasty, embolization)
 - Tumor ablation techniques
 - Image-guided biopsy and drainage
 - Clinical case discussions and decision-making
 - Patient safety and radiation protocols
 - Documentation and clinical logbook
 - Research and dissertation work
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CAREER OUTCOMES

Graduates can pursue careers as:

- Interventional Radiologist
- Vascular & Endovascular Specialist
- Oncological Intervention Specialist
- Diagnostic & Therapeutic Radiology Consultant
- Academic and Research Professional

