

FELLOWSHIP IN EMERGENCY & TRAUMA 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 Emergency & Trauma Radiology is a one-year advanced program designed to develop specialized expertise in imaging acute and trauma-related conditions in high-pressure clinical environments.

The program focuses on:

- Rapid and accurate interpretation of emergency imaging
- CT, MRI, X-ray, and ultrasound in trauma care
- Polytrauma and multi-organ injury assessment
- Imaging in ICU and emergency settings
- FAST and point-of-care ultrasound applications
- Clinical decision-making and triage support
- Multidisciplinary trauma team collaboration
- Research in emergency and trauma radiology

The program integrates theoretical knowledge, hands-on clinical exposure, and research to ensure high-level competency in emergency radiology practice.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform rapid and accurate interpretation of emergency imaging studies.
 2. Diagnose trauma-related injuries using CT, MRI, X-ray, and ultrasound.
 3. Assess and triage polytrauma patients effectively.
 4. Apply imaging protocols in ICU and emergency settings.
 5. Collaborate with emergency and trauma care teams.
 6. Perform imaging-based decision-making in critical scenarios.
 7. Conduct research in emergency and trauma radiology.
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PROGRAM OUTCOMES (POS)

1. **Trauma Imaging Expertise:** Master imaging modalities in trauma diagnosis.
2. **Advanced Imaging Skills:** Expertise in CT, MRI, X-ray, and ultrasound protocols.
3. **Polytrauma Management:** Ability to evaluate multi-organ injuries.
4. **Critical Care Imaging:** Competence in ICU and emergency imaging workflows.
5. **Clinical Collaboration:** Effective participation in trauma care teams.
6. **Decision-Making Skills:** Rapid interpretation and clinical correlation.
7. **Research Skills:** Contribution to emergency radiology advancements.

COURSE OUTCOMES (COS)

- CO1: Interpret imaging in trauma and emergency cases accurately.
- CO2: Diagnose fractures, hemorrhage, and organ injuries.
- CO3: Evaluate polytrauma and complex emergency conditions.
- CO4: Perform imaging-based triage and decision-making.
- CO5: Apply imaging protocols in ICU and emergency settings.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in emergency and trauma imaging techniques.
2. Apply imaging findings in acute clinical decision-making.
3. Integrate radiology into multidisciplinary emergency care.

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PROGRAM DETAILS

- Certificate Awarded by: Malla Reddy Vishwavidyapeeth (Deemed to be University)
- Program Duration: One-Year Fellowship
- Mode of Delivery: Clinical + Theoretical + Hands-on Training

ELIGIBILITY CRITERIA

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

KEY FEATURES

- Intensive training in emergency and trauma radiology
- Hands-on exposure to CT, MRI, X-ray, and ultrasound
- FAST and point-of-care ultrasound training
- Polytrauma and critical care imaging expertise
- Real-time emergency case exposure
- Multidisciplinary collaboration with trauma teams
- Research-focused curriculum
- High-pressure decision-making training

LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Understanding of trauma mechanisms and emergency imaging protocols

COGNITIVE SKILLS

- Rapid clinical reasoning in emergency situations

PRACTICAL & PROFESSIONAL SKILLS

- Expertise in trauma imaging interpretation and procedures

TRANSFERABLE SKILLS

- Teamwork and communication in critical care environments

SUBJECT-SPECIFIC SKILLS

- Emergency radiology and trauma imaging mastery



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CURRICULUM MODULES – THEORY

SEMESTER 1: FUNDAMENTALS OF EMERGENCY & TRAUMA RADIOLOGY

- Introduction to Emergency & Trauma Radiology
- Trauma Imaging Basics
- X-ray in Trauma
- CT in Trauma & Emergency Cases
- MRI in Trauma
- Ultrasound in Emergency & Trauma (FAST)
- Clinical Rotations

SEMESTER 2: ADVANCED EMERGENCY IMAGING & APPLICATIONS

- Polytrauma and Multi-Organ Injuries
 - Advanced CT in Emergency Radiology (CTA)
 - MRI in Acute Emergencies
 - Imaging in Head and Spine Trauma
 - Abdominal Trauma Imaging
 - Imaging in Critical Care & ICU
 - Research Project & Case Studies
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PRACTICAL COURSEWORK

- Trauma imaging (CT, MRI, X-ray, ultrasound)
 - FAST examinations and emergency ultrasound
 - Polytrauma case evaluation
 - ICU and emergency imaging workflow
 - Case discussions and clinical logbook
 - Research and dissertation
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CAREER OUTCOMES

Graduates can pursue careers as:

- Emergency Radiologist
- Trauma Imaging Specialist
- Consultant Radiologist (ER/ICU)
- Critical Care Imaging Specialist
- Academic and Research Professional



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