

FELLOWSHIP IN PEDIATRIC 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 Pediatric Radiology is a one-year advanced program designed to provide specialized training in imaging for infants, children, and adolescents.

The program focuses on:

- Pediatric-specific imaging techniques (X-ray, USG, CT, MRI, fluoroscopy)
- Radiation safety and ALARA principles
- Congenital, genetic, and developmental disorders
- Pediatric neuro, chest, abdominal, and musculoskeletal imaging
- Pediatric oncology and cardiovascular imaging
- Emergency and trauma imaging in children
- Child-friendly imaging protocols and care
- Research in pediatric radiology

The fellowship integrates theoretical knowledge, clinical exposure, and hands-on training tailored to the unique needs of pediatric patients.

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Interpret pediatric imaging across all major organ systems.
 2. Apply pediatric-specific imaging protocols and techniques.
 3. Ensure radiation safety and optimize imaging doses in children.
 4. Diagnose congenital and developmental disorders accurately.
 5. Perform imaging in pediatric emergencies and trauma cases.
 6. Collaborate effectively with pediatricians and multidisciplinary teams.
 7. Conduct research in pediatric radiology.
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PROGRAM OUTCOMES (POS)

1. **Pediatric Imaging Expertise:** Mastery in pediatric radiographic interpretation.
2. **Modality Proficiency:** Skilled use of X-ray, USG, CT, MRI, and fluoroscopy.
3. **Radiation Safety:** Expertise in ALARA and pediatric dose optimization.
4. **Neuroimaging Skills:** Diagnosis of CNS malformations and pediatric brain disorders.
5. **Oncology Imaging:** Early detection and monitoring of pediatric cancers.
6. **Emergency Imaging:** Ability to manage pediatric trauma and urgent cases.
7. **Research Capability:** Contribution to pediatric radiology advancements.

COURSE OUTCOMES (COS)

- CO1: Interpret pediatric imaging across multiple systems.
- CO2: Apply pediatric-specific imaging protocols effectively.
- CO3: Diagnose congenital, oncological, and neurological conditions.
- CO4: Evaluate pediatric trauma and emergency conditions.
- CO5: Conduct research in pediatric imaging techniques.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in pediatric imaging modalities and protocols.
2. Apply safe and effective imaging practices in children.
3. Integrate imaging findings into pediatric clinical decision-making.

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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

- Specialized training in pediatric radiology
 - Focus on radiation safety (ALARA principles)
 - Hands-on experience in all imaging modalities
 - Exposure to pediatric oncology and cardiology imaging
 - Child-friendly imaging approaches
 - Emergency and trauma imaging training
 - Multidisciplinary pediatric collaboration
 - Research-oriented curriculum
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Understanding pediatric anatomy, physiology, and imaging differences
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COGNITIVE SKILLS

- Clinical reasoning in pediatric diagnosis
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PRACTICAL & PROFESSIONAL SKILLS

- Expertise in pediatric imaging interpretation and procedures
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TRANSFERABLE SKILLS

- Communication and teamwork in pediatric care settings
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SUBJECT-SPECIFIC SKILLS

- Pediatric radiology specialization across all systems
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CURRICULUM MODULES – THEORY

SEMESTER 1: FUNDAMENTALS OF PEDIATRIC RADIOLOGY

- Introduction to Pediatric Radiology
 - Pediatric Imaging Techniques
 - Radiation Safety in Pediatrics (ALARA)
 - Pediatric Chest Imaging
 - Pediatric Musculoskeletal Imaging
 - Abdominal Imaging in Pediatrics
 - Clinical Rotations
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SEMESTER 2: ADVANCED PEDIATRIC RADIOLOGY & RESEARCH

- Pediatric Neuroimaging
 - Pediatric Cardiovascular Imaging
 - Pediatric Oncology Imaging
 - Genetic & Metabolic Disorders Imaging
 - Pediatric Emergency & Trauma Imaging
 - Research Project & Case Studies
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PRACTICAL COURSEWORK

- Pediatric X-ray interpretation
 - CT & MRI for pediatric conditions
 - Ultrasound in pediatric abdominal and emergency cases
 - Trauma imaging in children
 - Clinical case discussions and logbook
 - Research and dissertation
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CAREER OUTCOMES

Graduates can pursue careers as:

- Pediatric Radiologist
- Consultant Radiologist (Children's Hospitals)
- Pediatric Imaging Specialist
- Academic Faculty in Radiology
- Researcher in Pediatric Imaging



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(Deemed to be University)