

FELLOWSHIP IN ONCO-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 Onco-Radiology is a one-year advanced program designed to develop expertise in the radiologic aspects of oncology, focusing on cancer diagnosis, staging, and treatment monitoring using advanced imaging techniques.

The program focuses on:

- CT, MRI, and PET/CT in oncology imaging
- Cancer detection, staging, and treatment monitoring
- Imaging of solid tumors and hematologic malignancies
- Imaging-guided biopsy and interventional procedures
- Radiation therapy planning and follow-up imaging
- Assessment of treatment response and recurrence
- Multidisciplinary oncology imaging approach

The program integrates clinical exposure, hands-on training, and research to ensure comprehensive expertise in oncological imaging.

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform and interpret advanced imaging modalities in oncology.
 2. Diagnose and stage various cancers using imaging techniques.
 3. Perform imaging-guided interventional procedures.
 4. Contribute to radiation therapy planning and evaluation.
 5. Assess treatment response and detect recurrence.
 6. Collaborate in multidisciplinary oncology teams.
 7. Conduct research in oncological imaging.
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PROGRAM OUTCOMES (POS)

1. **Imaging Expertise:** Master CT, MRI, and PET/CT for cancer imaging.
2. **Diagnostic Competency:** Identify and stage various malignancies.
3. **Interventional Skills:** Perform imaging-guided biopsies and procedures.
4. **Treatment Planning:** Assist in radiation therapy planning.
5. **Disease Monitoring:** Evaluate treatment response and recurrence.
6. **Multidisciplinary Approach:** Integrate imaging with oncology care.
7. **Research Skills:** Contribute to advancements in onco-radiology.

COURSE OUTCOMES (COS)

- CO1: Perform and interpret oncological imaging studies.
- CO2: Diagnose and stage cancers accurately.
- CO3: Perform imaging-guided interventional procedures.
- CO4: Assist in radiation therapy planning and evaluation.
- CO5: Assess metastatic disease and treatment outcomes.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in oncological imaging techniques.
2. Apply interventional radiology skills in cancer care.
3. Integrate imaging findings into comprehensive oncology management.

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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 / Medicine or equivalent
- Professional Requirement: As per institutional norms

KEY FEATURES

- Advanced training in oncological imaging
 - Hands-on exposure to CT, MRI, and PET/CT
 - Training in interventional onco-radiology procedures
 - Integration with radiation therapy planning
 - Focus on cancer staging and treatment monitoring
 - Multidisciplinary oncology collaboration
 - Research-oriented curriculum
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of cancer biology and imaging
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COGNITIVE SKILLS

- Clinical decision-making in oncology imaging
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in imaging and interventional oncology procedures
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TRANSFERABLE SKILLS

- Team collaboration in multidisciplinary oncology care
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SUBJECT-SPECIFIC SKILLS

- Advanced oncological imaging and intervention techniques
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CURRICULUM MODULES – THEORY

SEMESTER 1: FUNDAMENTALS OF ONCO-RADIOLOGY

- Introduction to Onco-Radiology
 - Imaging Modalities in Oncology (CT, MRI, PET/CT)
 - Radiologic Anatomy in Cancer
 - Oncology Basics (Tumor Biology & Classification)
 - Imaging in Solid Tumors
 - Clinical Rotations
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SEMESTER 2: ADVANCED ONCO-RADIOLOGY & RESEARCH

- Advanced Imaging Techniques (Functional imaging, diffusion MRI)
 - Interventional Onco-Radiology
 - Radiation Therapy Planning
 - Pediatric Oncology Imaging
 - Metastasis Imaging
 - Research Project & Case Studies
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PRACTICAL COURSEWORK

- CT, MRI, and PET/CT imaging interpretation
 - Imaging-guided biopsy and interventional procedures
 - Radiation therapy imaging planning
 - Case discussions and clinical decision-making
 - Clinical logbook maintenance
 - Research and dissertation
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CAREER OUTCOMES

Graduates can pursue careers as:

- Onco-Radiologist
- Consultant Radiologist (Oncology Imaging)
- Interventional Onco-Radiology Specialist
- Imaging Specialist in Cancer Centers
- Academic and Research Professional in Oncology Imaging

The logo features a yellow graduation cap with a red tassel, positioned above a stylized globe. In the center is a large blue letter 'M' with a white outline, set against a background of a city skyline. Below the 'M' is an open book with yellow pages. The entire logo is set against a light blue background.

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