

FELLOWSHIP IN BREAST IMAGING (WOMEN'S)

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 Breast Imaging (Women's) is a one-year advanced program designed to develop expertise in the diagnosis and management of breast diseases using advanced imaging modalities.

The program focuses on:

- Mammography, ultrasound, and breast MRI
- Breast cancer screening and early detection
- Advanced imaging techniques including tomosynthesis and contrast-enhanced mammography
- Image-guided biopsy techniques (FNA, core needle, stereotactic biopsy)
- High-risk breast imaging and genetic considerations
- Breast cancer staging and follow-up imaging
- Multidisciplinary collaboration in breast care

The program integrates clinical exposure, hands-on training, and research to ensure high-level competency in breast imaging.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform and interpret breast imaging modalities effectively.
 2. Apply screening protocols for early detection of breast diseases.
 3. Utilize advanced imaging techniques for accurate diagnosis.
 4. Perform image-guided breast biopsy procedures.
 5. Manage high-risk patients using specialized imaging strategies.
 6. Collaborate in multidisciplinary breast care teams.
 7. Conduct research in breast imaging.
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PROGRAM OUTCOMES (POS)

1. **Imaging Expertise:** Perform and interpret mammography, ultrasound, and MRI.
2. **Screening Competency:** Apply evidence-based breast cancer screening protocols.
3. **Diagnostic Accuracy:** Evaluate benign and malignant breast conditions.
4. **Procedural Skills:** Perform image-guided biopsy techniques.
5. **High-Risk Management:** Manage patients with genetic and familial risk.
6. **Multidisciplinary Collaboration:** Work with oncology and surgical teams.
7. **Research Skills:** Contribute to advancements in breast imaging.

COURSE OUTCOMES (COS)

- CO1: Perform and interpret mammography, ultrasound, and MRI.
- CO2: Conduct breast cancer screening and staging.
- CO3: Perform image-guided biopsy procedures.
- CO4: Manage high-risk breast conditions.
- CO5: Apply multidisciplinary approaches in breast care.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in breast imaging modalities.
2. Apply advanced imaging and biopsy techniques effectively.
3. Integrate imaging findings into clinical breast care 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 or equivalent
- Professional Requirement: As per institutional norms

KEY FEATURES

- Comprehensive training in breast imaging
 - Hands-on exposure to mammography, ultrasound, and MRI
 - Advanced imaging techniques including tomosynthesis and contrast-enhanced imaging
 - Training in image-guided biopsy procedures
 - Focus on early detection and cancer staging
 - Multidisciplinary approach to breast cancer management
 - Research-oriented learning
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of breast anatomy, pathology, and imaging
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COGNITIVE SKILLS

- Clinical decision-making in breast disease diagnosis
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in imaging and biopsy procedures
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TRANSFERABLE SKILLS

- Multidisciplinary teamwork and communication
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SUBJECT-SPECIFIC SKILLS

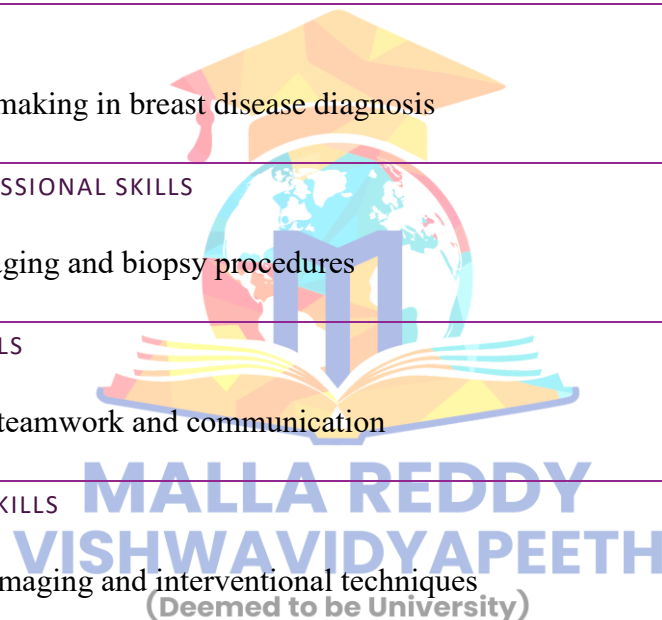
- Advanced breast imaging and interventional techniques
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CURRICULUM MODULES – THEORY

SEMESTER 1: FUNDAMENTALS OF BREAST IMAGING

- Introduction to Breast Imaging
 - Mammography (Digital & 3D Tomosynthesis)
 - Breast Ultrasound
 - Breast MRI
 - Screening and Early Detection
 - Clinical Rotations
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SEMESTER 2: ADVANCED BREAST IMAGING & RESEARCH



- Advanced Imaging Techniques (Contrast-enhanced mammography, elastography)
 - Breast Biopsy Techniques (FNA, Core Needle, Stereotactic)
 - High-Risk Breast Imaging
 - Breast Cancer Staging and Follow-up
 - Multidisciplinary Breast Care
 - Research Project & Case Studies
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PRACTICAL COURSEWORK

- Mammography imaging and interpretation
 - Breast ultrasound and MRI procedures
 - Image-guided biopsy techniques
 - Case discussions and clinical decision-making
 - Clinical logbook maintenance
 - Research and dissertation
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CAREER OUTCOMES

Graduates can pursue careers as:

- Breast Imaging Specialist
- Consultant Radiologist (Breast Imaging)
- Onco-Imaging Specialist
- Women's Health Imaging Expert
- Academic and Research Professional



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