

## FELLOWSHIP IN ENDOBRONCHIAL ULTRASOUND (EBUS)

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### ABOUT THE UNIVERSITY

Malla Reddy Vishwavidyapeeth is a premier multidisciplinary institution based in Hyderabad, Telangana, recognized as a “Deemed to be University under Distinct Category.” The university is committed to excellence in medical education, advanced clinical training, and research, offering cutting-edge fellowship programs across healthcare specialties.

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### PROGRAM OVERVIEW

The Fellowship in Endobronchial Ultrasound (EBUS) is a one-year advanced training program designed to provide specialized expertise in minimally invasive pulmonary diagnostics and interventions.

The program focuses on:

- Radial and convex-probe EBUS techniques
- EBUS-guided Transbronchial Needle Aspiration (EBUS-TBNA)
- Mediastinal lymph node evaluation
- Lung cancer diagnosis and staging
- Peripheral lung lesion assessment
- Integration of EBUS with bronchoscopy
- Diagnosis of infectious and interstitial lung diseases
- Advanced pulmonary interventions
- Clinical research in interventional pulmonology

This fellowship combines structured academic learning with extensive hands-on procedural training and real-time clinical exposure.

(Deemed to be University)

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### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform and interpret advanced EBUS procedures.
  2. Diagnose mediastinal and pulmonary diseases using EBUS.
  3. Conduct EBUS-guided biopsy techniques (EBUS-TBNA).
  4. Integrate bronchoscopy and EBUS for comprehensive care.
  5. Apply evidence-based approaches in pulmonary diagnostics.
  6. Collaborate effectively within multidisciplinary teams.
  7. Conduct research in EBUS and interventional pulmonology.
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#### PROGRAM OUTCOMES (POS)

1. **EBUS Expertise:** Master radial and convex-probe EBUS techniques.
2. **Diagnostic Proficiency:** Accurately diagnose lung and mediastinal diseases.
3. **Image Interpretation:** Advanced ability to interpret EBUS imaging.
4. **Interventional Skills:** Perform EBUS-guided biopsies and aspirations.
5. **Integrated Clinical Practice:** Combine EBUS with bronchoscopy for optimal outcomes.
6. **Research Capability:** Contribute to innovation in pulmonary diagnostics.

#### COURSE OUTCOMES (COS)

- CO1: Perform and interpret radial and convex-probe EBUS procedures.
- CO2: Conduct EBUS-TBNA for accurate tissue diagnosis.
- CO3: Diagnose lung cancer, TB, ILD, and lymphadenopathy using EBUS.
- CO4: Evaluate and biopsy peripheral lung lesions.
- CO5: Apply EBUS in infectious and granulomatous diseases.
- CO6: Utilize EBUS for clinical decision-making and patient management.
- CO7: Conduct research in EBUS and pulmonary interventions.

#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Expertise in minimally invasive EBUS-based pulmonary diagnostics.
2. Ability to perform accurate mediastinal staging and biopsy procedures.
3. Integration of imaging, bronchoscopy, and interventional pulmonology techniques.

#### PROGRAM DETAILS

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

#### ELIGIBILITY CRITERIA

- Academic Qualification:  
MBBS with MD/DNB in Pulmonary Medicine / Respiratory Medicine / Internal Medicine
- Professional Requirement:  
As per institutional norms

## KEY FEATURES

- Hands-on EBUS (radial & convex probe) training
  - Advanced EBUS-TBNA procedures
  - Lung cancer staging expertise
  - Real-time mediastinal node evaluation
  - Integration with bronchoscopy procedures
  - Exposure to infectious & ILD diagnostics
  - Multidisciplinary clinical approach
  - Research-driven curriculum
  - Training with advanced endoscopic technology
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## LEARNING OUTCOMES

### KNOWLEDGE & UNDERSTANDING

- In-depth understanding of pulmonary diseases and mediastinal pathology
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### COGNITIVE SKILLS

- Analytical interpretation of EBUS findings and clinical correlation
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### PRACTICAL & PROFESSIONAL SKILLS

- Expertise in EBUS procedures, TBNA, and pulmonary interventions
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### TRANSFERABLE SKILLS

- Communication, teamwork, and clinical decision-making
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### SUBJECT-SPECIFIC SKILLS

- Specialized skills in minimally invasive pulmonary diagnostics
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## CURRICULUM MODULES – THEORY

### SEMESTER 1: FUNDAMENTALS OF ENDOBRONCHIAL ULTRASOUND

- Introduction to EBUS
- Bronchoscopy & EBUS Integration
- Radial vs Convex-Probe EBUS
- Mediastinal Lymphadenopathy Diagnosis

- EBUS-TBNA Techniques
- Clinical Rotations

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#### SEMESTER 2: ADVANCED EBUS TECHNIQUES & APPLICATIONS

- Advanced EBUS-TBNA Procedures
- EBUS in Lung Cancer Diagnosis & Staging
- EBUS for Peripheral Lung Lesions
- EBUS in Infectious Diseases (TB, Fungal)
- EBUS in Interstitial Lung Disease
- Research Project & Case Studies

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#### PRACTICAL COURSEWORK

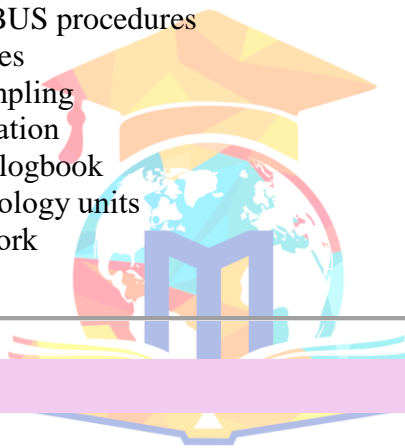
- Radial and convex-probe EBUS procedures
- EBUS-TBNA guided biopsies
- Mediastinal lymph node sampling
- Peripheral lung lesion evaluation
- Case-based discussions and logbook
- Clinical rotations in pulmonology units
- Research and dissertation work

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#### CAREER OUTCOMES

Graduates can pursue roles such as:

- Interventional Pulmonologist (EBUS Specialist)
- Bronchoscopy & EBUS Consultant
- Pulmonary Diagnostics Specialist
- Lung Cancer Staging Expert (Deemed to be University)
- Academic Faculty in Pulmonary Medicine
- Clinical Researcher in Interventional Pulmonology



**MALLA REDDY  
VASTHVIDYA PEETH**

(Deemed to be University)