

FELLOWSHIP IN FETAL MEDICINE

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 Fetal Medicine is a one-year advanced program designed to train healthcare professionals in the diagnosis, management, and treatment of fetal conditions and high-risk pregnancies.

The program focuses on:

- Prenatal diagnosis of fetal anomalies (genetic, structural, and functional)
- Advanced imaging techniques including fetal ultrasound and Doppler studies
- Invasive diagnostic procedures such as amniocentesis and chorionic villus sampling (CVS)
- Fetal interventions and in-utero treatments
- Maternal-fetal medicine and high-risk pregnancy management
- Counseling and multidisciplinary care for expectant parents

The program integrates clinical training, advanced diagnostics, procedural skills, and research to ensure comprehensive expertise in fetal medicine.

(Deemed to be University)

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Diagnose and manage fetal anomalies effectively.
 2. Utilize advanced prenatal diagnostic technologies.
 3. Perform invasive fetal diagnostic and therapeutic procedures.
 4. Manage high-risk pregnancies and maternal-fetal conditions.
 5. Apply fetal intervention techniques where appropriate.
 6. Provide effective counseling to expectant parents.
 7. Conduct research in fetal medicine and prenatal care.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Diagnose and monitor fetal conditions using advanced tools.
2. **Diagnostic Skills:** Perform and interpret ultrasound and genetic screening.
3. **Procedural Skills:** Conduct invasive diagnostic and therapeutic procedures.
4. **Maternal-Fetal Care:** Manage high-risk pregnancies and complications.
5. **Intervention Skills:** Apply fetal intervention techniques and treatments.
6. **Communication Skills:** Provide sensitive counseling and patient care.
7. **Research Orientation:** Contribute to advancements in fetal medicine.

COURSE OUTCOMES (COS)

- CO1: Perform prenatal diagnostic assessments.
- CO2: Conduct invasive procedures such as amniocentesis and CVS.
- CO3: Manage fetal anomalies and high-risk pregnancies.
- CO4: Apply fetal intervention techniques.
- CO5: Provide effective counseling and multidisciplinary care.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in fetal medicine and diagnostics.
2. Apply advanced clinical and procedural techniques.
3. Integrate maternal and fetal care for optimal outcomes.

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: MD in Obstetrics & Gynaecology or equivalent
- Professional Requirement: As per institutional norms

KEY FEATURES

- Advanced training in fetal medicine and high-risk pregnancy care
- Hands-on exposure to fetal ultrasound and diagnostic procedures
- Training in invasive techniques and fetal interventions
- Focus on multidisciplinary maternal-fetal care

- Emphasis on patient counseling and ethical practice
 - Evidence-based clinical and diagnostic approach
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of fetal development and anomalies
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COGNITIVE SKILLS

- Clinical decision-making in high-risk pregnancy and fetal conditions
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in ultrasound, Doppler, and invasive procedures
 - Hands-on experience in fetal diagnostics and interventions
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TRANSFERABLE SKILLS

- Communication and counseling for expectant parents
 - Multidisciplinary coordination
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SUBJECT-SPECIFIC SKILLS

- Advanced fetal diagnostic and intervention techniques
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CURRICULUM MODULES – THEORY

SEMESTER 1: FOUNDATIONS OF FETAL MEDICINE

- Introduction to Fetal Medicine
 - Fetal Development and Physiology
 - Prenatal Screening and Diagnosis
 - Ultrasound in Fetal Medicine
 - Genetic Screening and Counseling
 - Clinical Rotations
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SEMESTER 2: ADVANCED FETAL MEDICINE

- Fetal Anomalies and Management
- Invasive Diagnostic Procedures (Amniocentesis, CVS)
- Fetal Surgery and Interventions

- Maternal-Fetal Medicine
 - Multiple Pregnancies and Complications
 - Research Project & Case Studies
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PRACTICAL COURSEWORK

- Fetal ultrasound and Doppler studies
 - Invasive procedures (amniocentesis, CVS, fetal blood sampling)
 - Fetal anomaly assessment and management
 - Clinical case discussions and decision-making
 - Patient counseling and multidisciplinary care
 - Documentation and clinical logbook
 - Research and dissertation work
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CAREER OUTCOMES

Graduates can pursue careers as:

- Fetal Medicine Specialist
- Maternal-Fetal Medicine Consultant
- Obstetrician in High-Risk Pregnancy Units
- Prenatal Diagnostic Specialist
- Academic and Research Professional

