

## FELLOWSHIP IN DIABETIC RETINAL SCIENCES

---

### 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 in medical, dental, nursing, pharmaceutical sciences, engineering, and allied health sciences. The institution emphasizes academic excellence, clinical proficiency, innovation, and global collaborations, contributing significantly to advanced healthcare education and training.

---

### PROGRAM OVERVIEW

The Fellowship in Diabetic Retinal Sciences is a specialized clinical program designed to develop expertise in the diagnosis, management, and prevention of retinal complications associated with diabetes. The program focuses on:

- Pathophysiology of diabetic retinopathy
- Screening and early detection of retinal disorders
- Fundus examination and retinal imaging techniques
- Management of diabetic macular edema and retinopathy
- Laser therapy and advanced retinal interventions
- Preventive strategies and vision preservation

The program integrates **theoretical learning, clinical exposure, and hands-on training**, ensuring competency in diabetic eye care.

---

### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Diagnose and manage diabetic retinal disorders effectively.
  2. Apply retinal imaging and diagnostic techniques.
  3. Prevent vision loss through early detection and intervention.
  4. Deliver evidence-based and patient-centered ophthalmic care.
- 

### PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Diagnose and manage diabetic retinopathy and related complications.

2. **Diagnostic Proficiency:** Perform fundus examination and interpret retinal imaging (OCT, fundus photography).
  3. **Therapeutic Skills:** Apply laser therapy and medical management for retinal diseases.
  4. **Preventive Care:** Implement screening programs for early detection of diabetic eye disease.
  5. **Vision Preservation:** Manage diabetic macular edema and prevent vision loss.
  6. **Multidisciplinary Care:** Collaborate with ophthalmologists, diabetologists, and healthcare teams.
  7. **Evidence-Based Practice:** Apply clinical guidelines and research in retinal care.
- 

#### COURSE OUTCOMES (COS)

- **CO1:** Understand pathophysiology of diabetic retinal diseases.
  - **CO2:** Diagnose and manage diabetic retinopathy and macular edema.
  - **CO3:** Perform and interpret retinal imaging techniques.
  - **CO4:** Apply laser and pharmacological treatments.
  - **CO5:** Implement preventive screening and patient education.
- 

#### PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate competency in diagnosing and managing diabetic retinal disorders.
  2. Apply retinal imaging and therapeutic techniques effectively.
  3. Integrate multidisciplinary approaches in diabetic eye care.
- 

#### PROGRAM DETAILS

- **Certificate Awarded by:** Malla Reddy Vishwavidyapeeth
  - **Program Duration:** One-Year Fellowship
  - **Mode of Delivery:** Hybrid (Clinical Training + Theoretical Learning + Hands-on Practice)
- 

#### ELIGIBILITY CRITERIA

- **Academic Qualification:** MBBS / MD/DNB in Ophthalmology / General Medicine or related fields
  - **Professional Requirement:** As per institutional and regulatory guidelines
- 

#### KEY FEATURES

- Specialized training in diabetic retinal diseases and vision care
  - Hands-on clinical exposure in ophthalmology and retinal units
  - Training in fundus examination and retinal imaging
  - Focus on early detection and prevention of vision loss
  - Exposure to laser therapy and advanced retinal treatments
  - Integration of ophthalmology and diabetology
  - Evidence-based clinical practice
- 

## LEARNING OUTCOMES

---

### KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of diabetic retinal disorders and management.
- 

### COGNITIVE SKILLS

- Clinical reasoning in diagnosing and managing retinal diseases.
- 

### PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in retinal imaging, diagnosis, and treatment planning.
  - Hands-on experience in clinical ophthalmology settings.
- 

### TRANSFERABLE SKILLS

- Patient counseling and communication for vision care.
  - Clinical documentation and reporting.
- 

### SUBJECT-SPECIFIC SKILLS

- Integrated management of diabetic retinal diseases using multidisciplinary approaches.
- 

## CURRICULUM MODULES – THEORY

- Pathophysiology of Diabetic Retinopathy
- Retinal Anatomy and Physiology
- Fundus Examination and Imaging Techniques
- Diabetic Macular Edema
- Laser Therapy and Retinal Interventions
- Screening and Preventive Strategies
- Pharmacological Management in Retinal Diseases
- Advanced Retinal Imaging (OCT, Angiography)
- Vision Preservation and Rehabilitation

- Advances in Retinal Sciences
- 

#### PRACTICAL COURSEWORK

- Clinical training in ophthalmology and retinal clinics
  - Fundus examination and retinal imaging procedures
  - Diagnosis and management of diabetic retinal diseases
  - Laser therapy observation and assistance
  - Patient counseling and preventive care education
  - Case documentation and clinical evaluation
  - Interdisciplinary patient care
- 

#### CAREER OUTCOMES

Graduates of the Fellowship in Diabetic Retinal Sciences can pursue careers as:

- Diabetic Retinal Specialist
- Ophthalmology and Retina Consultant
- Vision Care and Preventive Specialist
- Clinical Practitioner in Hospitals and Eye Care Centers
- Academic and Research Roles in Retinal Sciences

