

FELLOWSHIP IN INFECTIOUS DISEASES

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 Infectious Diseases is a specialized clinical program designed to develop expertise in the diagnosis, treatment, and prevention of infectious diseases. The program focuses on:

- Pathogenesis and epidemiology of infectious diseases
- Bacterial, viral, fungal, and parasitic infections
- Antimicrobial therapy and stewardship
- Infection control and hospital-acquired infections
- Emerging and re-emerging infectious diseases
- Public health and outbreak management

The program integrates **theoretical learning, clinical exposure, and hands-on training**, ensuring competency in infectious disease management.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Diagnose and manage a wide range of infectious diseases.
 2. Apply antimicrobial therapies effectively and responsibly.
 3. Implement infection prevention and control measures.
 4. Contribute to public health and outbreak management strategies.
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PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Diagnose and treat bacterial, viral, fungal, and parasitic infections.
2. **Antimicrobial Stewardship:** Optimize use of antibiotics and antimicrobial agents.

3. **Infection Control:** Implement hospital infection control protocols.
 4. **Public Health Competence:** Manage outbreaks and infectious disease surveillance.
 5. **Diagnostic Skills:** Interpret laboratory investigations for infectious diseases.
 6. **Multidisciplinary Care:** Collaborate with microbiologists and public health teams.
 7. **Evidence-Based Practice:** Apply research and clinical guidelines in infectious disease care.
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COURSE OUTCOMES (COS)

- **CO1:** Understand the epidemiology and pathogenesis of infectious diseases.
 - **CO2:** Diagnose and manage common and complex infections.
 - **CO3:** Apply antimicrobial therapy and stewardship principles.
 - **CO4:** Implement infection control and prevention strategies.
 - **CO5:** Manage public health aspects and outbreak situations.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate competency in diagnosis and treatment of infectious diseases.
 2. Apply antimicrobial stewardship and infection control practices.
 3. Integrate clinical and public health approaches in disease management.
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PROGRAM DETAILS

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

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

- Specialized training in infectious diseases and antimicrobial therapy
- Hands-on clinical exposure in infection management
- Focus on hospital infection control and prevention

- Training in outbreak investigation and public health response
 - Integration of microbiology and clinical medicine
 - Exposure to emerging and re-emerging infections
 - Evidence-based clinical practice
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of infectious diseases, pathogens, and treatment strategies.
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COGNITIVE SKILLS

- Clinical reasoning and decision-making in infection diagnosis and management.
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in diagnosing and treating infectious diseases.
 - Hands-on experience in infection control and patient management.
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TRANSFERABLE SKILLS

- Communication and patient education regarding infection prevention.
 - Documentation and reporting in clinical and public health settings.
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SUBJECT-SPECIFIC SKILLS

- Integrated management of infectious diseases using clinical and public health approaches.
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CURRICULUM MODULES – THEORY

- Principles of Infectious Diseases and Epidemiology
- Bacterial, Viral, Fungal, and Parasitic Infections
- Antimicrobial Therapy and Resistance
- Hospital-Acquired Infections and Infection Control
- Emerging and Re-emerging Infectious Diseases
- Public Health and Outbreak Management
- Diagnostic Microbiology and Laboratory Techniques
- Immunology and Host Defense Mechanisms
- Vaccination and Preventive Strategies
- Advances in Infectious Disease Management

PRACTICAL COURSEWORK

- Clinical training in infectious disease wards and units
- Diagnosis and management of infectious diseases
- Interpretation of laboratory and microbiological investigations
- Implementation of infection control practices
- Antimicrobial therapy planning and stewardship
- Participation in outbreak investigations and public health programs
- Case documentation and clinical evaluation

CAREER OUTCOMES

Graduates of the Fellowship in Infectious Diseases can pursue careers as:

- Infectious Disease Specialist
- Consultant in Hospitals and Infection Control Units
- Public Health and Epidemiology Specialist
- Antimicrobial Stewardship Expert
- Clinical Practitioner in Multispecialty Hospitals
- Academic and Research Roles in Infectious Diseases

