FELLOWSHIP IN IMPLANTOLOGY

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 university emphasizes academic excellence, research, innovation, clinical proficiency, and global academic collaborations, contributing significantly to advanced healthcare education and training.

PROGRAM OVERVIEW

The Fellowship in Implantology is a comprehensive academic and clinical program designed to develop competence in:

- Diagnosis and treatment planning for implant cases
- Surgical placement of dental implants
- Soft tissue and bone management
- Prosthetic rehabilitation of implants
- Management of medically compromised patients
- Digital dentistry workflows

The program integrates **theoretical, preclinical, and supervised clinical training at the Advanced Dental Center**. Fellows are trained under the **Prosthodontics, Periodontics, and Oral & Maxillofacial Surgery departments**, which jointly handle all aspects of training to ensure **interdisciplinary exposure and hands-on experience**.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Deliver safe, effective, and patient-centered implant dentistry care.
2. Integrate interdisciplinary knowledge across Prosthodontics, Periodontics, and Oral & Maxillofacial Surgery for comprehensive treatment planning.
3. Demonstrate professional, ethical, and legal responsibility in implantology practice.
4. Utilize digital tools, radiographic technologies, and evidence-based guidelines in modern implant dentistry.

PROGRAM OUTCOMES (POS)

1. Clinical Expertise: Perform implant diagnosis, surgical placement, soft tissue and bone management, and prosthetic rehabilitation.

2. Treatment Planning Competence: Formulate accurate, evidence-based treatment plans, including medically compromised patients.
3. Evidence-Based Practice: Apply research evidence, clinical guidelines, and ethical principles in decision-making.
4. Digital & Technological Proficiency: Use CBCT, guided surgery, digital impressions, and CAD-CAM workflows.
5. Problem Solving & Critical Thinking: Manage surgical complications, minor bone/soft tissue interventions, and peri-implant care.
6. Communication & Professional Skills: Communicate effectively with patients, caregivers, assistants, and interdisciplinary teams.
7. Practice Management Competence: Demonstrate documentation skills, infection control, chairside efficiency, and ethical practice.
8. Lifelong Learning & Research Aptitude: Engage in continuous learning, reflective practice, and basic academic activities.

COURSE OUTCOMES (COS)

- CO1: Diagnose implant candidates and develop comprehensive treatment plans.
- CO2: Perform surgical implant placement and soft tissue management under supervision.
- CO3: Apply digital workflows for guided surgery and prosthetic planning.
- CO4: Integrate periodontal, prosthodontic, and surgical principles for successful implant outcomes.
- CO5: Present, document, and evaluate implant cases.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Perform routine implant surgical and prosthetic procedures under supervision.
2. Demonstrate competency in soft tissue management, minor bone grafting, and peri-implant care.
3. Apply radiographic interpretation and digital planning for treatment and surgical decisions.

PROGRAM DETAILS

- Certificate Awarded by: Malla Reddy Vishwavidyapeeth
- Program Duration: One-Year Modular Fellowship
- Mode of Delivery: Hybrid (On-Campus + Online Learning + Clinical Work at Advanced Dental Center)

ELIGIBILITY CRITERIA

- Academic Qualification: B.D.S. or equivalent from a recognized institution
- Professional Registration: Valid registration with Dental Council of India (DCI) or equivalent authority

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KEY FEATURES

- Nationally benchmarked implantology curriculum
- Competency-based preclinical and clinical training
- Hands-on clinical work at the Advanced Dental Center
- Interdisciplinary supervision by Prosthodontics, Periodontics, and Oral & Maxillofacial Surgery departments
- Digital dentistry and CBCT-guided implant planning
- Exposure to medically compromised patients
- Emphasis on diagnosis, treatment planning, surgical procedures, and prosthetic rehabilitation
- Research, documentation, and academic guidance
- Strong academic and industry networking

LEARNING OUTCOMES

Knowledge & Understanding

- Comprehensive understanding of implantology principles, materials, infection control, surgical and prosthetic techniques, and patient management.

Cognitive Skills

- Evidence-based decision-making in implantology.
- Case analysis and interdisciplinary treatment planning.

Practical & Professional Skills

- Proficiency in surgical implant placement, soft tissue and minor bone procedures, and prosthetic rehabilitation.
- Hands-on clinical exposure at the Advanced Dental Center.

Transferable Skills

- Effective communication with patients, caregivers, and interdisciplinary teams.
- Documentation, record-keeping, and academic writing.

Subject-Specific Skills

- Integrated skills across Prosthodontics, Periodontics, Oral & Maxillofacial Surgery, and digital implant workflows.

PROGRAM STRUCTURE – 6 MODULES

Module	Focus Area
Module 1	Fundamentals of Implantology & Clinical Diagnosis
Module 2	Prosthodontic Principles in Implantology
Module 3	Periodontal & Soft Tissue Management for Implants
Module 4	Surgical Placement of Dental Implants
Module 5	Digital Workflows, Guided Surgery, and CBCT Planning
Module 6	Comprehensive Case Management & Portfolio Presentation

CURRICULUM MODULES – THEORY

Module Name	Key Topics Covered	Learning Outcomes
Module 1	Oral diagnosis, radiology, patient assessment	Diagnose implant candidates and plan cases
Module 2	Implant prosthetics, abutments, crowns, overdentures	Plan and execute prosthetic rehabilitation
Module 3	Periodontal evaluation, soft tissue management, minor bone grafting	Perform peri-implant tissue care
Module 4	Surgical techniques, implant placement, flap management, suturing	Execute implant surgery safely
Module 5	CBCT imaging, guided implant planning, digital impressions, CAD-CAM workflow	Integrate digital workflows into treatment
Module 6	Case planning, documentation, ethics, reflective writing	Present and manage comprehensive implant cases

PRACTICAL COURSEWORK

1. **Preclinical Training (Simulation & Skill Labs)**
    - Conducted jointly by Prosthodontics, Periodontics, and Oral & Maxillofacial Surgery departments
    - Implant osteotomy preparation, flap design, suturing, minor grafting on models
    - Digital workflow simulations, CAD-CAM prosthetics
    - Infection control and sterilization protocols
2. **Supervised Clinical Procedures at Advanced Dental Center**
    - Surgical implant placement, soft tissue management, minor bone grafting
    - Prosthetic rehabilitation of implants
    - Diagnosis and treatment planning including medically compromised patients
3. **Clinical Observation & Rotations**
    - Rotations in Prosthodontics, Periodontics, and Oral & Maxillofacial Surgery
    - Observation of complex cases, interdisciplinary treatment planning
4. **Case Execution & Documentation**
    - Performing implant procedures under faculty supervision
    - Maintaining clinical records, photographic documentation, and digital radiographs
    - Reflective case logs and treatment evaluation
5. **Research & Academic Skills**
    - Participation in seminars, journal clubs, and PBL sessions
    - Literature review on implant procedures and digital workflows
    - Clinical audits and quality improvement exercises
6. **Comprehensive Case Management & Portfolio**
    - Compilation of 6–8 implant case logs covering surgical, soft tissue, bone, and prosthetic procedures
    - Case presentation before a joint faculty panel
    - Evaluation of procedural competence, documentation, ethical practice, and professional communication

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ASSIGNMENTS

- Literature review on implantology concepts
- Case-based treatment planning
- Radiograph analysis
- Clinical case documentation and reflective writing
- Digital workflow planning logs

DEPARTMENTAL RESPONSIBILITIES

- **Prosthodontics:** Implant prosthetics, CAD-CAM workflows, abutments, crowns, overdentures
- **Periodontics:** Soft tissue management, minor bone grafting, peri-implant care

- **Oral & Maxillofacial Surgery:** Surgical implant placement, flap management, suturing, minor bone procedures

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ASSESSMENT & CERTIFICATION

- Direct Observation of Procedural Skills (DOPS)
- OSCE (Objective Structured Clinical Examination)
- Clinical logbook and portfolio evaluation
- Case submission (as per quota)
- Viva voce and case presentation

NAAC / UGC ANNEXURE TABLES (6-MODULE VERSION)

Annexure I: PEO–PO Mapping

PEO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
PEO1	✓	✓		✓	✓	✓	✓	
PEO2	✓	✓	✓	✓	✓		✓	
PEO3		✓	✓		✓	✓	✓	
PEO4		✓	✓	✓			✓	✓

Annexure II: PO–PSO Mapping

PO / PSO	PSO1	PSO2	PSO3
PO1	✓	✓	
PO2	✓		✓
PO3		✓	✓

PO / PSO	PSO1	PSO2	PSO3
PO4	✓		✓
PO5	✓	✓	✓
PO6	✓	✓	
PO7	✓	✓	
PO8		✓	✓

CO–PO–PSO Mapping Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	✓	✓	✓		✓			✓	✓	✓	
CO2	✓	✓		✓	✓		✓		✓	✓	
CO3		✓	✓	✓		✓	✓	✓	✓		✓
CO4	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
CO5	✓	✓	✓	✓	✓	✓	✓	✓	✓		