

## FELLOWSHIP IN SEDATION IN DENTISTRY (FDS)

### ABOUT THE UNIVERSITY

Malla Reddy Vishwavidyapeeth is a reputed educational institution located in Hyderabad, Telangana, India. Recognized as a deemed to be university under the distinct (existing) category, the university offers multidisciplinary programs in medical, dental, nursing, pharmaceutical sciences, engineering, and allied health sciences. The institution is committed to academic excellence, research innovation, advanced clinical training, and global academic collaborations, contributing significantly to high-quality healthcare education and professional training.

### PROGRAM OVERVIEW

The Fellowship in Sedation in Dentistry (FDS) is a one-year advanced academic and clinical training program designed to equip dental professionals with the knowledge and skills required to safely administer and manage sedation techniques in dental practice. The program emphasizes patient safety, anxiety and pain control, pharmacological principles, monitoring protocols, and medico-legal considerations.

#### Key Focus Areas:

- Principles of pain and anxiety control in dentistry
- Minimal and moderate sedation techniques
- Pharmacology of sedative and analgesic agents
- Patient assessment, monitoring, and recovery
- Medical emergencies and basic life support
- Ethical, legal, and safety considerations in dental sedation

The fellowship integrates didactic instruction with hands-on simulation, supervised clinical exposure, and interdisciplinary learning through a hybrid mode of delivery.

### PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates of the program will be able to:

- **PEO1:** Demonstrate competency in patient evaluation and selection for dental sedation.
- **PEO2:** Safely administer minimal and moderate sedation techniques in dental settings.
- **PEO3:** Manage sedation-related complications and medical emergencies effectively.
- **PEO4:** Apply ethical, legal, and evidence-based principles in sedation dentistry practice.

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## PROGRAM OUTCOMES (POS)

1. **Clinical Competence:** Perform safe and effective dental procedures under sedation.
2. **Treatment Planning:** Formulate sedation plans based on patient needs and risk assessment.
3. **Evidence-Based Practice:** Apply current guidelines and research in sedation dentistry.
4. **Technological Proficiency:** Use monitoring devices and emergency equipment appropriately.
5. **Critical Thinking:** Identify and manage complications and emergencies.
6. **Communication Skills:** Counsel patients and caregivers regarding sedation procedures.
7. **Practice Management:** Maintain documentation, consent, and safety protocols.
8. **Lifelong Learning:** Engage in continuous education and skill enhancement in sedation care.

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## COURSE OUTCOMES (COS)

- **CO1:** Understand pharmacology and physiology relevant to dental sedation.
- **CO2:** Perform patient assessment and risk stratification for sedation.
- **CO3:** Administer minimal and moderate sedation safely.
- **CO4:** Monitor patients intraoperatively and postoperatively.
- **CO5:** Document and evaluate sedation-assisted dental cases.

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## PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate competency in sedation techniques for dental procedures.
2. Apply patient safety, monitoring, and emergency management protocols.
3. Integrate sedation dentistry into routine and advanced dental practice.

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## PROGRAM DETAILS

- **Certificate Awarded by:** Malla Reddy Vishwavidyapeeth
- **Program Duration:** One-Year Modular Fellowship
- **Mode of Delivery:** Hybrid (On-Campus + Online Learning)

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## ELIGIBILITY CRITERIA

- **Academic Qualification:** B.D.S. or equivalent from a recognized institution
- **Professional Registration:** Valid DCI or equivalent registration

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## KEY FEATURES

- Comprehensive sedation dentistry curriculum
- Emphasis on patient safety and risk management
- Hands-on simulation and clinical exposure
- Emergency preparedness and life support training
- Ethical and medico-legal documentation focus
- Interdisciplinary teaching with anesthesiology support

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## LEARNING OUTCOMES

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### KNOWLEDGE & UNDERSTANDING

- Pain and anxiety mechanisms
- Pharmacology of sedative and analgesic drugs
- Sedation guidelines and safety standards

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### COGNITIVE SKILLS

- Patient assessment and case selection
- Clinical decision making under sedation

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### PRACTICAL & PROFESSIONAL SKILLS

- Administration of sedation techniques
- Monitoring and recovery management
- Emergency response and complication management

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### TRANSFERABLE SKILLS

(Deemed to be University)

- Patient communication and consent
- Clinical documentation and reporting

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## PROGRAM STRUCTURE – 6 MODULES

Module	Focus Area
Module 1	Fundamentals of Pain & Anxiety Control
Module 2	Pharmacology of Sedation Agents

Module	Focus Area
Module 3	Patient Assessment & Monitoring
Module 4	Clinical Sedation Techniques
Module 5	Medical Emergencies & Life Support
Module 6	Comprehensive Sedation Case Management

#### CURRICULUM MODULES – THEORY

Module	Key Topics Covered	Learning Outcomes
Module 1	Anxiety control, sedation continuum	Understand sedation principles
Module 2	Sedatives, analgesics, interactions	Apply pharmacological knowledge
Module 3	Monitoring, ASA classification	Perform patient assessment
Module 4	Inhalation and oral sedation	Deliver clinical sedation
Module 5	Emergencies, BLS, ACLS overview	Manage complications
Module 6	Documentation, ethics, audit	Deliver safe sedation care

(Deemed to be University)

#### ELABORATED PRACTICAL COURSEWORK

##### 1. PRECLINICAL TRAINING

- Simulation-based sedation techniques
- Monitoring equipment handling
- Emergency drills and airway management

##### 2. SUPERVISED CLINICAL PROCEDURES

- Sedation-assisted dental procedures
- Patient monitoring and recovery care

##### 3. CLINICAL OBSERVATION

- Observation of sedation cases with anesthesiology support

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#### 4. CASE EXECUTION & DOCUMENTATION

- Minimum 6–8 documented sedation dentistry cases
- Consent, monitoring charts, and follow-up records

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#### 5. RESEARCH & ACADEMIC WORK

- Journal clubs
- Case reports in sedation dentistry

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#### 6. COMPREHENSIVE CASE PORTFOLIO

- Complete sedation case documentation
- Panel presentation and evaluation

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#### ASSESSMENT & CERTIFICATION

- Direct Observation of Procedural Skills (DOPS)
- OSCE
- Clinical logbook & portfolio
- Case presentation and viva voce

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#### DEPARTMENT RESPONSIBILITIES

- **Oral Medicine & Diagnosis:** Patient evaluation and risk assessment
- **Anesthesiology:** Sedation protocols, emergency management training
- **Conservative Dentistry / OMFS:** Clinical sedation-assisted procedures

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THIS FELLOWSHIP AIMS TO DEVELOP SAFE, CONFIDENT, AND ETHICALLY RESPONSIBLE DENTAL SEDATION PRACTITIONERS.

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#### NAAC / UGC ANNEXURES

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ANNEXURE I: PEO-PO MAPPING

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

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ANNEXURE II: PO-PSO MAPPING

PO / PSO	PSO1	PSO2	PSO3
PO1	✓	✓	
PO2	✓	✓	
PO3	✓		✓
PO4		✓	✓
PO5	✓	✓	✓
PO6	✓		✓
PO7	✓		
PO8			✓

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ANNEXURE III: CO-PO-PSO MAPPING MATRIX

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



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