

FELLOWSHIP IN MAXILLOFACIAL TRAUMA (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 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 Maxillofacial Trauma (FDS) is a one-year advanced academic and clinical training program designed to develop competency in the diagnosis, emergency management, and definitive treatment of maxillofacial trauma. The program emphasizes contemporary trauma protocols, surgical skills, interdisciplinary coordination, and comprehensive patient rehabilitation.

Key Focus Areas:

- Assessment and emergency management of maxillofacial trauma
- Dentoalveolar, midface, and mandibular fractures
- Open and closed reduction techniques
- Rigid internal fixation principles
- Soft tissue injuries of the maxillofacial region
- Trauma imaging, CBCT, and surgical planning
- Post-trauma rehabilitation and complication management

The fellowship integrates structured didactic learning with hands-on preclinical training, supervised clinical exposure, trauma postings, and academic activities through a hybrid learning model.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates of the program will be able to:

- **PEO1:** Demonstrate proficiency in diagnosis and management of maxillofacial trauma cases.
- **PEO2:** Perform surgical and non-surgical trauma management using evidence-based protocols.
- **PEO3:** Apply ethical, professional, and medico-legal principles in trauma care.
- **PEO4:** Integrate imaging, digital planning, and interdisciplinary approaches in trauma management.

PROGRAM OUTCOMES (POS)

1. **Clinical Expertise:** Manage maxillofacial trauma from emergency care to definitive treatment.
2. **Treatment Planning Competence:** Formulate comprehensive trauma management plans.
3. **Evidence-Based Practice:** Apply current trauma guidelines and surgical principles.
4. **Digital & Technological Proficiency:** Utilize CBCT, imaging software, and fixation systems.
5. **Critical Thinking & Decision Making:** Manage complex trauma and associated complications.
6. **Communication & Teamwork:** Coordinate with medical, anesthesia, and emergency teams.
7. **Practice Management & Documentation:** Maintain trauma records, consent, and medico-legal documentation.
8. **Lifelong Learning & Research Aptitude:** Engage in trauma research and continuous skill enhancement.

COURSE OUTCOMES (COS)

- **CO1:** Understand principles of maxillofacial trauma assessment and classification.
- **CO2:** Perform emergency and definitive management of dentoalveolar and facial fractures.
- **CO3:** Apply open and closed reduction techniques with fixation systems.
- **CO4:** Manage soft tissue injuries and post-traumatic complications.
- **CO5:** Document, present, and critically evaluate trauma cases.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate competency in surgical and non-surgical maxillofacial trauma management.
2. Apply rigid fixation principles and trauma protocols for predictable outcomes.
3. Integrate imaging, digital planning, and multidisciplinary care in trauma cases.

PROGRAM DETAILS

- **Certificate Awarded by:** [University Name]
 - **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. from a recognized institution
- **Professional Registration:** Valid DCI or equivalent registration

KEY FEATURES

- Comprehensive trauma-focused curriculum
- Hands-on surgical training under expert supervision
- Emergency and trauma ward postings
- Exposure to real-time trauma cases
- Emphasis on AO principles and fixation systems
- Integration of CBCT and digital surgical planning
- Medico-legal documentation and ethics training
- Research and case documentation guidance

LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Etiology, classification, and biomechanics of facial trauma
- Principles of fracture fixation and wound healing
- Trauma imaging and surgical anatomy

COGNITIVE SKILLS

- Trauma triage and decision making
- Risk assessment and complication prevention

PRACTICAL & PROFESSIONAL SKILLS

- Emergency trauma management
- Open and closed reduction with fixation
- Soft tissue repair and postoperative care

TRANSFERABLE SKILLS

- Interdisciplinary communication
- Patient counseling and consent
- Clinical documentation and reporting

PROGRAM STRUCTURE – 6 MODULES

Module	Focus Area
Module 1	Fundamentals of Maxillofacial Trauma & Emergency Care
Module 2	Dentoalveolar and Mandibular Fractures
Module 3	Midface and Zygomatic Complex Injuries
Module 4	Surgical Fixation Techniques & AO Principles
Module 5	Soft Tissue Injuries & Complication Management
Module 6	Comprehensive Trauma Case Management & Rehabilitation

CURRICULUM MODULES – THEORY

Module	Key Topics Covered	Learning Outcomes
Module 1	Trauma assessment, ATLS principles	Understand emergency trauma care
Module 2	Mandibular fracture management	Manage mandibular trauma
Module 3	Midface fracture classification	Treat midface injuries
Module 4	Plates, screws, fixation systems	Apply fixation principles
Module 5	Soft tissue repair, infections	Manage complications
Module 6	Rehabilitation, documentation	Deliver comprehensive care

ELABORATED PRACTICAL COURSEWORK

1. PRECLINICAL TRAINING

- Trauma instruments and fixation system handling
- Plating and fixation on models and simulation labs
- Suturing and soft tissue repair exercises

2. SUPERVISED CLINICAL PROCEDURES

- Emergency dentoalveolar trauma management
- Mandibular and midface fracture surgeries
- Assistance in open reduction and internal fixation (ORIF)

3. CLINICAL OBSERVATION

- Observation of complex trauma surgeries
- Emergency department and ICU trauma rounds

4. CASE EXECUTION & DOCUMENTATION

- Minimum 8–10 documented maxillofacial trauma cases
- Preoperative and postoperative imaging records

5. RESEARCH & ACADEMIC WORK

- Journal clubs
- Trauma case reports
- Literature review on maxillofacial trauma

6. COMPREHENSIVE CASE PORTFOLIO

- Complete trauma case documentation
- Panel presentation and evaluation

ASSESSMENT & CERTIFICATION

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

DEPARTMENT RESPONSIBILITIES

- **Oral & Maxillofacial Surgery:** Academic instruction, surgical training, trauma supervision
- **Oral Radiology:** Imaging interpretation and surgical planning support
- **Anesthesiology & Emergency Medicine:** Trauma life support coordination

THIS FELLOWSHIP AIMS TO PRODUCE CLINICALLY COMPETENT, ETHICALLY RESPONSIBLE, AND TRAUMA-READY MAXILLOFACIAL SURGEONS.

NAAC / UGC ANNEXURES

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	✓		✓
PO4		✓	✓
PO5	✓	✓	✓
PO6	✓		✓
PO7	✓		
PO8			✓

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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(Deemed to be University)