

FELLOWSHIP IN SPORTS DENTISTRY

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 Sports Dentistry at Malla Reddy Vishwavidyapeeth is a comprehensive academic and clinical training program designed to strengthen competencies in:

- Diagnosis and management of sports-related oral and facial injuries
- Treatment planning for trauma and rehabilitation
- Prosthodontics and pedodontics in athletes
- Minor oral surgical procedures
- Emergency dental care and first aid
- Injury prevention, protective equipment, and physiotherapy integration

The program integrates structured theoretical learning with supervised preclinical and clinical exposure. It follows a hybrid model, combining on-campus skill development with online academic sessions. Emphasis is placed on **athlete-centered trauma care, ethical practice, interdisciplinary coordination, and digital dentistry integration**.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

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Graduates will be able to:

1. Deliver safe, effective, and athlete-centered dental trauma care using clinical, preventive, and minor surgical skills.
2. Integrate interdisciplinary knowledge including physiotherapy, nutrition, and sports medicine to manage oral and facial injuries.
3. Demonstrate professional, ethical, and legal responsibility in sports dental trauma management.
4. Utilize digital tools, radiographic technologies, and evidence-based guidelines in sports dentistry.

PROGRAM OUTCOMES (POs)

1. **Clinical Expertise:** Manage sports-related dental and orofacial injuries, minor surgery, pedodontics, and prosthodontics.
2. **Treatment Planning Competence:** Formulate accurate treatment plans for trauma, prevention, and rehabilitation.
3. **Evidence-Based Practice:** Apply research evidence, clinical guidelines, and ethical principles in trauma management.
4. **Digital & Technological Proficiency:** Use digital radiography, digital impressions, CAD-CAM workflows, and digital records.
5. **Problem Solving & Critical Thinking:** Manage emergencies, trauma complications, minor surgery, and athlete rehabilitation.
6. **Communication & Professional Skills:** Communicate effectively with athletes, parents, coaches, physiotherapists, and colleagues.
7. **Practice Management Competence:** Demonstrate documentation skills, infection control, emergency protocols, and ethical practice.
8. **Lifelong Learning & Research Aptitude:** Engage in continuous learning, reflective practice, and sports trauma research.

COURSE OUTCOMES (COS)

- **CO1:** Diagnose and manage sports-related dental and orofacial trauma.
- **CO2:** Perform trauma-focused preventive, prosthodontic, pedodontic, and minor surgical procedures.
- **CO3:** Apply digital tools for trauma assessment, diagnosis, and rehabilitation.
- **CO4:** Integrate pedodontic, prosthodontic, surgical, and physiotherapy principles for athlete care.
- **CO5:** Present, document, and evaluate trauma-focused clinical cases.

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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Deliver preventive and trauma-focused dental care for athletes of all ages.
2. Demonstrate competency in trauma assessment, pedodontics, prosthodontics, minor surgery, and physiotherapy rehabilitation.
3. Apply radiographic interpretation, digital tools, nutrition, and evidence-based trauma management principles.

PROGRAM DETAILS

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

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

KEY FEATURES

- Sports dentistry curriculum focusing on trauma prevention, management, pedodontics, prosthodontics, minor surgical procedures, emergency care, and physiotherapy rehabilitation
- Competency-based preclinical and clinical training
- Live athlete/patient exposure under expert supervision
- Digital dentistry and radiology integration
- Emphasis on trauma diagnosis, treatment planning, emergency care, minor oral surgery, and rehabilitation
- Access to expert faculty and interdisciplinary mentors
- Use of advanced simulation and preclinical labs
- Research and documentation guidance
- Strong academic and sports industry networking

LEARNING OUTCOMES

Knowledge & Understanding

- Comprehensive understanding of sports dentistry principles, trauma prevention, injury management, pedodontics, prosthodontics, minor oral surgical procedures, and rehabilitation.
- Knowledge of oral pathology, radiology, nutrition, physiotherapy, and sports medicine.

Cognitive Skills

- Evidence-based decision-making in sports dental trauma and minor surgical practice.
- Case analysis, ethical reasoning, and interdisciplinary care planning.

Practical & Professional Skills

- Proficiency in trauma-focused pedodontics, prosthodontics, minor surgery, soft tissue repair, and emergency management.
- Hands-on clinical exposure with athlete/patient cases.

Transferable Skills

- Effective communication and athlete counseling.

- Documentation, record-keeping, interdisciplinary coordination, and academic writing.

Subject-Specific Skills

- Integrated skills across trauma assessment, minor surgery, pedodontics, prosthodontics, physiotherapy, radiology, and preventive dentistry.
- Basic digital dentistry workflows.

PROGRAM STRUCTURE – 6 MODULES

Module	Focus Area
Module 1	Fundamentals of Sports Dentistry, Sports Physiology & Sports Medicine
Module 2	Injury Prevention, Custom Mouthguard Fabrication & Protective Equipment
Module 3	Trauma Assessment, Orofacial Injury Management & Emergency Protocols
Module 4	Prosthodontics, Occlusal Rehabilitation & Athlete-Specific Care
Module 5	Pedodontics, Periodontics, Nutrition & Psychological Considerations
Module 6	Minor Oral Surgery, Soft Tissue Repair, Physiotherapy, First Aid & Comprehensive Trauma Case Management

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CURRICULUM MODULES – THEORY

Module Name	(Deemed to be University) Key Topics Covered	Learning Outcomes
Module 1	Sports dentistry principles, sports physiology, sports medicine, oral diagnosis, radiology, infection control	Diagnose and plan trauma prevention and athlete care
Module 2	Preventive care, custom mouthguards, face shields, oral hygiene education, protective equipment technology	Fabricate and evaluate protective appliances for trauma prevention
Module 3	Trauma assessment, dental avulsion, fractures, soft tissue lacerations, first aid, emergency protocols	Manage acute orofacial injuries on-field and clinically

Module Name	Key Topics Covered	Learning Outcomes
Module 4	Crowns, bridges, occlusal rehabilitation, prosthetic planning for trauma patients	Restore and rehabilitate traumatic tooth loss or damage
Module 5	Pediatric trauma management, scaling, periodontal maintenance, nutrition, psychological considerations	Maintain oral health for young and adult athletes
Module 6	Minor oral surgery, extractions, suturing, soft tissue repair, physiotherapy coordination, case documentation	Manage trauma comprehensively, including surgical and rehabilitation interventions

PRACTICAL COURSEWORK (ELABORATED)

1. Preclinical Training (Simulation & Skill Labs)

- Phantom head exercises for trauma management techniques
- Minor surgical procedure simulations: suturing, incision, soft tissue repair
- Mouthguard fabrication and evaluation
- Digital impressions, CAD-CAM simulations for trauma rehabilitation
- Infection control and emergency protocols

2. Supervised Clinical Procedures

- Trauma-focused pedodontics and prosthodontics
- Minor Oral Surgery: Extractions, suturing, incision & drainage, soft tissue repair
- Physiotherapy integration for jaw and facial rehabilitation
- Emergency dental care and first aid management

3. Clinical Observation & Rotations

- Shadowing senior faculty in trauma, prosthodontic, and pedodontic procedures
- Observing advanced trauma, surgical, and emergency cases

4. Case Execution & Documentation

- Handling live trauma cases under expert supervision
- Maintaining detailed case records, photographs, and digital radiographs
- Preparation of trauma-focused treatment plans and follow-ups

5. Research & Academic Skills

- Participation in journal clubs, seminars, and PBL sessions on sports trauma

- Literature review on trauma management and prevention
- Clinical audits and quality improvement exercises

6. Comprehensive Trauma Case Management & Portfolio

- Compilation of 8–10 trauma case logs including pedodontics, prosthodontics, minor surgery, and rehabilitation procedures
- Case presentation before faculty panel
- Evaluation of treatment outcomes, ethical practice, and interdisciplinary coordination

ASSIGNMENTS

- Literature review on sports trauma management
- Case-based trauma treatment planning
- Radiograph analysis for trauma
- Clinical trauma case documentation and reflective writing
- Minor oral surgery and rehabilitation procedure logs

DEPARTMENTAL RESPONSIBILITIES

- **Conservative Dentistry & Endodontics:** Pain management, temporary stabilization, and trauma assessment
- **Prosthodontics:** Rehabilitation of trauma-induced tooth loss
- **Periodontics:** Soft tissue management, periodontal maintenance post-trauma
- **Pedodontics:** Pediatric trauma management, prevention, and restoration
- **Oral & Maxillofacial Surgery:** Minor oral surgical procedures including extractions, suturing, incision & drainage, soft tissue repair
- **Physiotherapy / Rehabilitation:** Coordination for rehabilitation of oral-facial injuries

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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 trauma-focused 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		✓	✓
PO4	✓		✓
PO5	✓	✓	✓
PO6	✓	✓	
PO7	(Deemed to be University)	✓	✓
PO8		✓	✓

CO-PO-PSO Mapping Matrix

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

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



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