

FELLOWSHIP IN AESTHETIC DENTISTRY

1. ABOUT THE UNIVERSITY

Malla Reddy Vishwavidyapeeth (MRVU), Hyderabad, Telangana, is a “Deemed to be University” offering programs in Medicine, Dentistry, Nursing, Pharmacy, Engineering, and Allied Health Sciences. The university is committed to academic excellence, technological innovation, clinical competence, and research-driven learning.

2. PROGRAM OVERVIEW

The **Fellowship in Aesthetic Dentistry** is designed to train undergraduate dentists in foundational and advanced concepts of smile design, cosmetic dental procedures, and minimally invasive aesthetic restorative dentistry.

The program integrates:

- Conservative Dentistry & Endodontics
- Prosthodontics
- Orthodontics
- Clinical exposure via the Advanced Dental Center

It provides structured theoretical knowledge, preclinical hands-on training, clinical demonstrations, case-based learning, and supervised practice.

3. PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO 1: Develop strong foundational knowledge in aesthetic and cosmetic dentistry.

PEO 2: Build practical skills through preclinical and clinical training.

PEO 3: Enhance diagnostic and treatment planning abilities for aesthetic cases.

PEO 4: Develop professional, ethical, and patient-centered cosmetic dental practice.

PEO 5: Promote lifelong learning and evidence-based aesthetic dentistry.

4. PROGRAM OUTCOMES (POS)

1. Apply basic knowledge of aesthetic principles in clinical decision-making.
2. Demonstrate essential manual skills for aesthetic restorative procedures.
3. Plan and execute smile analysis under supervision.
4. Understand material selection for cosmetic procedures.
5. Perform preclinical simulations with accuracy.
6. Assist in clinical cosmetic procedures.
7. Exhibit communication, patient counseling, and case presentation abilities.

8. Maintain ethical and professional behavior in aesthetic dental care.

5. PROGRAM SPECIFIC OUTCOMES (PSOS)

- **PSO 1:** Identify aesthetic concerns and propose suitable treatment options.
- **PSO 2:** Demonstrate preclinical proficiency in composite restorations, veneers, bleaching, and smile design.
- **PSO 3:** Assist in clinical cosmetic cases including direct & indirect aesthetic procedures.
- **PSO 4:** Understand interdisciplinary roles in aesthetic dentistry (Prosthodontics, Orthodontics).

6. STRUCTURE OF THE FELLOWSHIP (6 MODULES)

MODULE 1: FUNDAMENTALS OF AESTHETIC DENTISTRY

- Principles of dental aesthetics
- Facial and dental proportions
- Smile analysis and digital smile concepts
- Color science & shade selection
- Tooth morphology and texture

Preclinical Skills:

- Shade matching
- Basic aesthetic mock-ups

MODULE 2: DIRECT AESTHETIC RESTORATIONS

- Composite resin science
- Layering techniques
- Class III, IV, V aesthetic restorations
- Diastema closure techniques
- Finishing & polishing protocols

Preclinical Exercises:

- Anterior composite buildup
 - Characterization techniques
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MODULE 3: INDIRECT ESTHETIC PROCEDURES

- Veneers: preparation & temporization
- All-ceramic crowns
- Inlays & onlays
- Ceramic material selection
- Lab communication

Preclinical Exercises:

- Veneer preparations on typodont
 - Impression techniques
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MODULE 4: TOOTH WHITENING PROTOCOLS

- Causes of discoloration
- Vital & non-vital bleaching
- Office & home bleaching systems
- Sensitivity management
- Safety protocols

Demonstration:

- Chairside bleaching technique
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MODULE 5: INTERDISCIPLINARY AESTHETIC DENTISTRY

Prosthodontics:

VISHWAVIDYAPEETH
(Deemed to be University)

- Full-mouth aesthetic rehabilitation (observation)
- Smile lift & occlusal plane correction

Orthodontics:

- Aesthetic alignment concepts
- Clear aligner overview

Periodontics:

- Gingival aesthetics, pink smile correction
 - Crown lengthening (observation)
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MODULE 6: CLINICAL APPLICATIONS & CASE-BASED LEARNING

- Clinical photography
- Documentation and shade communication
- Treatment planning for aesthetic cases
- Case discussions
- Clinical assisting in aesthetic procedures

7. PRACTICAL COURSEWORK

PRECLINICAL LABORATORY WORK

- Shade selection & matching
- Composite layering models
- Veneer preparation exercises
- Mock-up and wax-up practice
- Polishing & finishing protocols

CLINICAL WORK (SUPERVISED)

- Assisting in aesthetic restorations
- Clinical photography for smile design
- Shade mapping for composite & ceramic cases
- Chairside bleaching assistance
- Helping during veneer try-in sessions

8. ASSIGNMENTS

1. **Case Submission**
 - Minimum 3 AESTHETIC CASES (diagnosis + treatment plan + follow-up).
2. **Preclinical Lab Assignments**
 - Composite buildup
 - Veneer preparation
 - Shade tab exercise
3. **Clinical Logbook**
 - Chairside assisting
 - Clinical photographs
4. **Case Presentation**
 - 1 major aesthetic case

9. DEPARTMENTAL RESPONSIBILITIES

DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS

- Direct composite restorations
- Tooth whitening
- Aesthetic tooth modification techniques
- Preclinical labs

DEPARTMENT OF PROSTHODONTICS

- Veneers & all-ceramic restorations
- Smile design & digital planning
- Occlusal corrections

DEPARTMENT OF ORTHODONTICS

- Aesthetic alignment basics
- Clear aligner principles

10. CLINICAL WORK AT ADVANCED DENTAL CENTER

- Assisting in ceramic veneer cases
- Shade selection & photography
- Intraoral scanning observation
- Chairside composite cases
- Bleaching procedures
- Hands-on polishing and contouring on models

11. NAAC / UGC ANNEXURE TABLES

ANNEXURE 1: PEO-PO MAPPING

PEO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
PEO1	3	2	2	3	2	1	1	1
PEO2	2	3	2	2	3	3	1	2
PEO3	2	2	3	2	2	2	2	2
PEO4	1	1	2	2	1	1	3	3
PEO5	2	1	1	2	2	1	1	2

COURSE OUTCOMES (COS)

CO1: Understand fundamentals of dental aesthetics, smile analysis, and color science.

CO2: Demonstrate preclinical skills in direct aesthetic restorations using composite layering techniques.

CO3: Explain and assist with indirect aesthetic procedures such as veneers and all-ceramic restorations.

CO4: Perform and assist in tooth whitening procedures with proper protocols.

CO5: Apply interdisciplinary aesthetic concepts (Prosthodontics, Periodontics, Orthodontics) in treatment planning.

CO6: Document aesthetic cases using clinical photography and prepare basic aesthetic treatment plans.

CO7: Display professionalism, patient communication skills, and ethical practice in aesthetic dentistry.

