



# MANSAROVAR DENTAL COLLEGE

Mansarovar Campus, Rani Avanti Bai Marg, Village- Hinotia Aalam,  
Ward No. 84, Kolar Road, Bhopal (M.P) 462042

Tel: +91-9111777225, 761158888. Website: [www.mansarovardentalcollege.com](http://www.mansarovardentalcollege.com)

## BEST PRACTICE 1

### **"TRANSFORMING ANATOMY LEARNING: ENGAGING FIRST YEAR UNDERGRADUATE STUDENTS WITH 3D MODELS, VISUAL CHARTS, AND PEER-DRIVEN SEMINARS"**

#### **OBJECTIVES OF THE PRACTICE:**

This practice aims to help first-year students understand anatomy in a more practical and enjoyable way. Through interactive tools and support from senior students, our objectives are:

- To make it easier for students to learn complex anatomy by using 3D models and visual charts.
- To create a friendly learning environment where third-year students guide first-year students through seminars.
- To make anatomy classes more interesting and hands-on, which will help students learn better and feel more confident in their studies.

#### **BACKGROUND:**

Learning human anatomy is essential for dental students, but it can be quite difficult to grasp through lectures alone. Recognizing this, Mansarovar Dental College decided to adopt a new teaching style to make anatomy more engaging. The goal is to connect theoretical knowledge with practical learning by using 3D models, visual aids, and peer-driven seminars.

#### **THE PRACTICE:**

Implemented for the 2023-24 first-year batch, this approach has three main parts:

1. **3D Models:** First-year students use 3D models to gain a hands-on understanding of anatomy, making it easier to visualize structures.
2. **Visual Charts:** Detailed charts support learning by helping students visually connect concepts they read about.
3. **Peer-Driven Seminars:** Third-year students take charge of interactive seminars, guiding first-year students through topics and answering questions. This not only benefits first-year students but also strengthens the knowledge of the seniors.



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## EVIDENCE OF SUCCESS:

The practice has shown positive outcomes since it began:

- **Better Test Scores:** Anatomy test results improved by about 20% compared to previous years, showing better understanding.
- **Higher Engagement:** About 85% of students reported feeling more interested in anatomy and confident in their studies.
- **Stronger Peer Connections:** Both first- and third-year students enjoyed working together, which has created a stronger learning community at the college.

Table .1. Show the success metrics for the initiative

Month	Student Engagement (%)	Test Score Improvement (%)	Student Satisfaction (%)
Jun-23	65	5	60
Jul-23	68	7	63
Aug-23	70	8	66
Sep-23	72	10	69
Oct-23	75	12	72
Nov-23	78	13	75
Dec-23	80	15	78
Jan-24	82	16	80
Feb-24	85	18	83
Mar-24	87	20	85
Apr-24	90	22	88
May-24	92	25	90

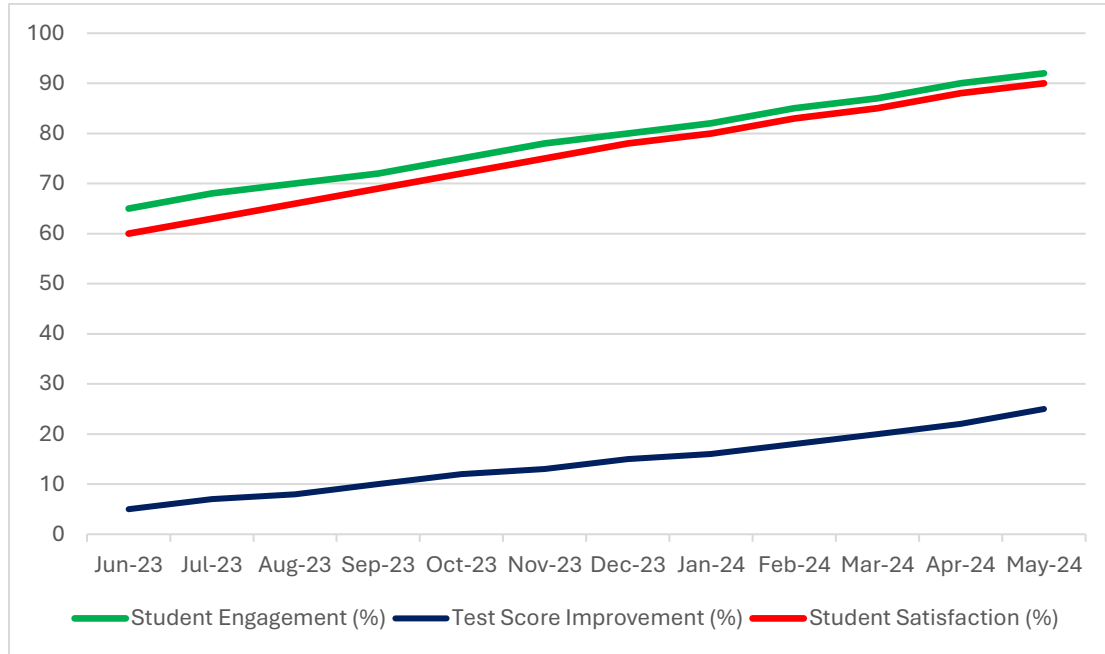
Line Graph .1. showing the success metrics for the initiative



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**Student Engagement (%)**: Percentage of students actively participating in peer-led seminars, interacting with 3D models, and engaging in discussions.

**Test Score Improvement (%)**: Month-over-month average improvement in assessment scores, indicating knowledge retention and application skills.

**Student Satisfaction (%)**: Percentage of students reporting satisfaction with the anatomy learning enhancements through surveys or feedback forms.

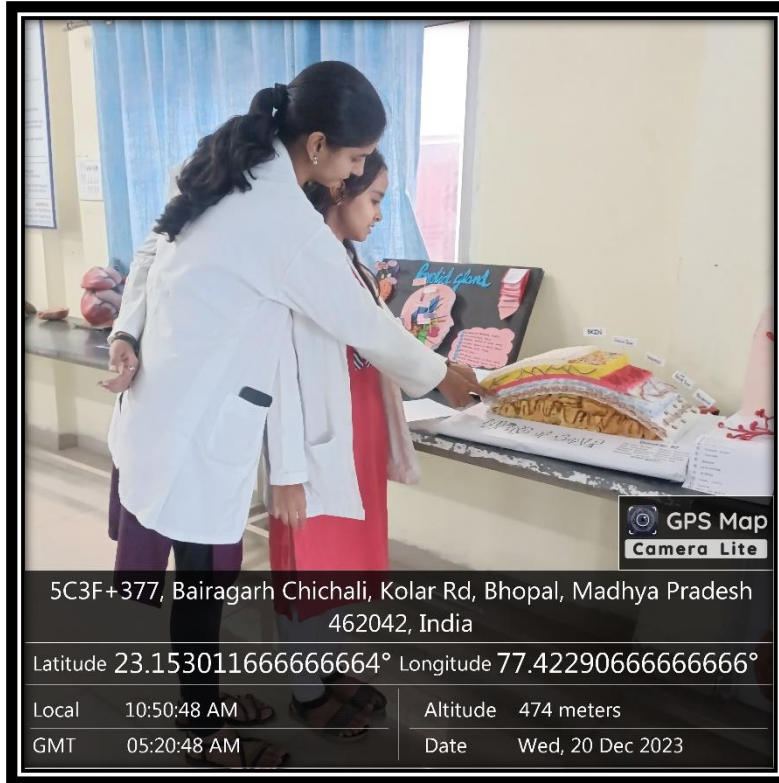




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5C3F+377, Bairagarh Chichali, Kolar Rd, Bhopal, Madhya Pradesh  
462042, India

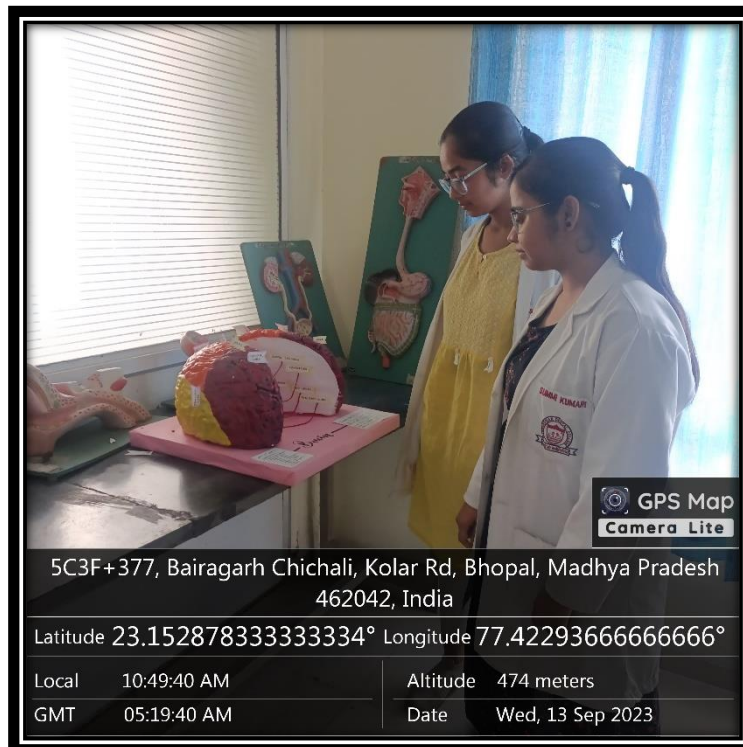
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Date Wed, 20 Dec 2023



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462042, India

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Local 10:49:40 AM

Altitude 474 meters

GMT 05:19:40 AM

Date Wed, 13 Sep 2023



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## CHALLENGES AND SOLUTIONS:

1. **Challenge:** Third-year students were initially nervous about leading seminars.
  - **Solution:** We organized training sessions to build their confidence and provide tips on effective teaching.
2. **Challenge:** There were limited high-quality 3D models available due to budget.
  - **Solution:** We set up a schedule so that all students could use the models in turns, and we secured additional models through funding support.

## RESOURCES REQUIRED:

- A variety of detailed 3D anatomy models.
- High-quality visual charts.
- Seminar spaces with audio-visual tools for interactive sessions.
- Training workshops to prepare third-year students for their role as mentors.

## CONCLUSION:

This approach has changed the way anatomy is taught at Mansarovar Dental College by making it more interactive and student friendly. Through peer-driven learning and practical tools, students feel more engaged and confident, setting a new standard for student-centered learning in dental education.