

PACIFIC DENTAL COLLEGE AND HOSPITAL, DEBARI, UDAIPUR

ORAL AND MAXILLOFACIAL SURGERY

MDS CURRICULUM

Curriculum for the **Master of Dental Surgery (MDS) in Oral and Maxillofacial Surgery** at Pacific Dental College & Hospital, Debari is a comprehensive program designed to produce highly skilled specialists capable of managing complex conditions of the oral and maxillofacial region. Below is an outline of the syllabus and key components.

Objectives

The program aims to:

1. Provide in-depth knowledge of surgical and non-surgical management of conditions in the oral and maxillofacial region.
 2. Develop advanced diagnostic, treatment planning, and surgical skills.
 3. Train students in research methodology and academic teaching.
 4. Prepare students to handle emergencies and manage complications.
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Program Duration

- **3 years** of full-time training
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Syllabus Overview

The syllabus includes **theoretical knowledge, clinical and practical training, and research work.**

1. Theoretical Knowledge

The course covers a broad range of topics in-depth:

- **Basic Sciences** (with relevance to oral surgery)
 - Anatomy, physiology, and pathology of the head and neck.
 - Pharmacology and microbiology.
 - Biostatistics and research methodology.
- **Principles of Surgery**
 - General surgical principles and asepsis.
 - Wound healing and infection control.
 - Preoperative and postoperative management.

- **Anesthesia**
 - Local anesthesia techniques and complications.
 - General anesthesia and sedation methods.
 - Management of emergencies in anesthesia.
- **Trauma**
 - Management of facial trauma (soft tissue, hard tissue, and dental trauma).
 - Fractures of the mandible, maxilla, zygoma, nasal bones, and orbit.
 - Management of avulsive injuries.
- **Oral and Maxillofacial Pathology**
 - Odontogenic and non-odontogenic cysts and tumors.
 - Premalignant and malignant lesions.
 - Infections of the head and neck.
- **Orthognathic Surgery**
 - Surgical correction of dentofacial deformities.
 - Cephalometric analysis for surgical planning.
- **Temporomandibular Joint (TMJ) Disorders**
 - Diagnosis and management of TMJ ankylosis, dislocations, and arthritis.
 - Arthroscopy and open joint surgeries.
- **Cleft and Craniofacial Surgery**
 - Management of cleft lip and palate.
 - Syndromic craniofacial anomalies.
- **Preprosthetic and Implant Surgery**
 - Ridge augmentation and sinus lift procedures.
 - Implant placement and complications.
- **Oncology**
 - Diagnosis and management of oral cancer.
 - Resection, reconstruction, and rehabilitation.
 - Chemotherapy and radiotherapy considerations.
- **Reconstructive Surgery**
 - Flap techniques (local, regional, and free flaps).

- Microvascular reconstruction.
 - **Aesthetic Surgery**
 - Cosmetic procedures for the face.
 - Rhinoplasty, genioplasty, and facial contouring.
 - **Miscellaneous Topics**
 - Salivary gland diseases.
 - Neurological disorders of the maxillofacial region.
 - Management of medically compromised patients.
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2. Clinical and Practical Training

- **Clinical Work**
 - Performing minor and major oral surgical procedures under supervision.
 - Managing complex cases in maxillofacial trauma, TMJ disorders, and oncology.
 - Administering anesthesia (local and general).
 - **Surgical Exposure**
 - Observing and assisting in advanced maxillofacial surgeries.
 - Independent handling of cases in the final year.
 - **Case Management**
 - Comprehensive diagnostic workup, treatment planning, and execution.
 - Managing preoperative, intraoperative, and postoperative care.
 - **Emergency Management**
 - Handling maxillofacial emergencies like trauma, bleeding, and airway compromise.
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3. Research and Academic Training

- **Research Work**
 - Conducting a research project and submitting a dissertation.
 - Participation in conferences, workshops, and seminars.
- **Teaching Skills**
 - Involvement in teaching undergraduate students.

- Preparing and delivering lectures.
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Assessment

- **Formative Assessment**
 - Continuous evaluation through clinical work, seminars, journal clubs, and case presentations.
 - **Summative Assessment**
 - Final university examination includes:
 - **Theory:** Four papers covering basic sciences, applied aspects, and recent advances.
 - **Clinical/Practical Exam:** Performing and explaining surgical procedures.
 - **Viva Voce:** Assessing comprehensive knowledge and skills.
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Recommended Reading

- Textbooks on Oral and Maxillofacial Surgery, such as:
 - "Peterson's Principles of Oral and Maxillofacial Surgery"
 - "Fonseca's Oral and Maxillofacial Surgery"
 - "Contemporary Oral and Maxillofacial Surgery" by Hupp, Ellis, and Tucker.