

**MASTER OF DENTAL SURGERY
PROGRAM LEARNING OUTCOME**

ORAL MEDICINE AND RADIOLOGY

A MDS graduate is expected to be

PLO 1. Able to examine, develop diagnostic skills and differentiate all oral mucosal lesions, skeletal involvement of maxillofacial region.

PLO 2. Able to apply the knowledge of basic medical sciences in dental patients and Plan necessary and advanced diagnostic procedures in oral mucosal lesions, skeletal involvement of maxillofacial region and in orofacial pain.

PLO 3. Performs, Plans extra oral radiographic techniques and displays diagnostic skills in interpreting radiographs and chairside investigations.

PLO 4. Formulates the treatment plan in non-surgical management of dental patients with systemic diseases, Orofacial plan, TMJ disorders.

PLO 5. Develops basic research skills and displays didactic skills

PLO 6. Demonstrates good communication skills, positive mental attitude and demonstrates continued learning skills.

ORAL AND MAXILLO FACIAL SURGERY

At the end of the programme the students will be able to

PLO 1. Execute basic sciences relevant to practice of oral and maxillofacial surgery

PLO 2. Implement adequate knowledge and understanding of the etiology, pathophysiology and diagnosis, treatment planning of various common oral and maxillofacial surgical problems

PLO 3. Recognise social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and maxillofacial region

PLO 4. Perform minor oral surgical procedures and common maxillofacial surgery to treat both medically and surgically the problems of the oral and maxillofacial and the related area

PLO 5. Execute providing care for maxillofacial surgery patients

PLO 6. Shares knowledge and clinical experience with professional colleagues

PLO 7. Proceeds new techniques of surgical management developed from time to time based on scientific research which are in the best interest of the patient

PERIODONTOLOGY

At the end of the programme training in Periodontology, a student should be able to

PLO 1. Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population.

PLO 2. Explain the biochemical, microbiological, immunological and genetic aspects of periodontal pathology.

PLO 3. Describe various preventive periodontal measures.

PLO 4. Describe various treatment modalities of periodontal disease from historical aspect to currently available once.

PLO 5. Describe interrelationship between periodontal disease and various systemic conditions.

PLO 6. Describe periodontal hazards due to estrogenic causes and deleterious habits with prevention of it.

PLO 7. Identify rarities in periodontal disease and environmental/ emotional determinates in a given case

PLO 8. Recognize conditions that may be outside the area of his /her speciality and refer them to an appropriate speciality.

PLO 9. Differentiate between non -surgical and surgical management of the case.

PLO 10. Assist the public in motivation and education regarding periodontal diseases, its prevention and consequences if not treated.

PLO 11. Perform epidemiological survey to assess prevalence and incidence of aggressive periodontitis and chronic periodontitis in indian population.

PLO 12. Develop knowledge, skill in the science and practice of oral implantology.

PLO 13. Develop teaching skill in the field of periodontology and implantology.

PLO 14. Assist students about inter disciplinary approach towards the soft tissue of the oral cavity with the help of specialist from other departments.

PLO 15. Perform patient motivation and education regarding periodontal disease and maintenance after the treatment.

PLO 16. Perform both non-surgical therapies and education regarding periodontal disease, maintenance after the treatment.

PLO 17. Perform both non-surgical and surgical procedures independently.

PLO 18. Perform basic life support service.

PLO 19. Follow ethical principles in all aspects of treatment modalities.

Conservative and Endodontics

On completion of this course, the students will be able to

PLO 1. Formulate etiology, pathophysiology, diagnosis, differential diagnosis and management of restorative/endodontic situations that include contemporary management of trauma, pulpal pathosis including periodontal situations and also develop skill to master differential diagnosis and recognise conditions that may require multidisciplinary approach or a clinical situation outside the realm of the speciality, which the operator should be able to recognise and refer to appropriate specialist.

PLO 2. Apprise by self-study on attending basic and advanced courses, conferences, seminars, workshops and also teach /guide colleagues and other students.

PLO 3. Design research study with aim of publishing his/her work and presenting the same at scientific platform

PLO 4. Construct and perform all levels of restorative work, surgical and non-surgical endodontics as well as endodontic-periodontal surgical procedures as part of multidisciplinary approach.

PLO 5. Justify ethical principles in all aspects of restorative and contemporary Endodontics.

PEDIATRIC AND PREVENTIVE DENTISTRY

PLO 1. Conceptualize and advocate the various behaviour management techniques in pediatric dentistry & appraise a good oral health by constructing positive attitude in children

PLO 2. Organise, relate and operate on the principles of prevention in pediatric dentistry right from birth to adolescence including children with special health care needs

PLO 3.To plan and construct an individualized treatment protocol for the developing malocclusion

PLO 4.To understand and apply the principles of bio statistics and research methodology

PROSTHODONTICS

PLO 1: Apply experience, scientific knowledge and methods to the management of problems associated with partial and completely edentulous situations.

PLO 2: Demonstrate the clinical proficiency necessary to carry out appropriate

PLO 3: Treatment at higher level of knowledge, training and practice skills currently available in field of prosthodontics

PLO 4: Manage a diverse patient population and have the interpersonal and communication skills to function successfully in a multi-cultural work environment.

PLO 5: Apply the principles of ethical reasoning and professional responsibility as they pertain to patient care and practice management in pertaining to basic & advanced courses in Prosthodontics

PLO 6: Communicate effectively with dental auxiliaries, dental laboratory technicians and other health care providers to ensure appropriate prosthodontics treatment

PLO 7: Analyse and solve clinical problems through scientific knowledge & skills particularly in relation with basic & advanced courses in Prosthodontics

PLO 8: Use the scientific literature and information management resources to provide evidence based care

PLO 9: To acquire managerial & entrepreneurial skills for management of complex prosthodontic problems

ORAL&MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY

A MDS graduate is expected to be

PLO 1. Able to Demonstrate, Understand biostatistics and research methodology.

PLO 2. Able to Apply, Implement the knowledge of basic medical sciences in dental patients and to recall, reproduce and to implement the basic pathology, microbiology and basic molecular aspects of pathologies.

PLO 3. Calibrate and Reproduce Basic hematological tests and urine analysis and Recognize and Confirms its clinical significance.

PLO 4. Understand the pathological processes of oral diseases, Identify , Compare and Interpret diseases based on clinical, radiological and histopathological findings.

PLO 5. Perform ground sections of hard tissues, Oral Exfoliative Cytology, Oral Histology slides, biopsy procedures, tissue processing and slide preparation with more efficiency and confidence.

PLO 6. To Prepare Pathological Slides and be able to Differentiate and Identify the diseases based on microscopy.

PLO 7. Develop and Display knowledge on Forensic Odontology and measure or Calibrate the age based on teeth, cast and x rays.

PLO 8. Understand and Identify the diagnosis of the Pathologies to the patients and Support the Oral Surgeons in Planning the treatment