

MASTER OF DENTAL SURGERY PROGRAM LEARNING OUTCOME



DEAN
PRINCIPAL (Academic Affairs)
Vinayaka Mission's
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TAMILNADU, INDIA

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

PLO 1.

Able to demonstrate, understand biostatistics and research methodology

PLO 2.

Understand the etiology, pathogenesis, diagnosis and management of periodontal diseases

PLO 3.

Able to perform both surgical and non-surgical management of periodontal diseases

PLO 4.

To develop skills and knowledge to perform in the field of oral implantology, laser surgery, piezosurgery and advanced regenerative techniques

PLO 5.

To gain knowledge outside the area of his/her speciality and refer those to an appropriate speciality

PLO 6.

To understand and manage the interrelationship between periodontal disease and various systemic conditions.

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.

ORTHODONTICS AND DENTOFACIAL ORTHOPEDICIS

PO1

Apply basic scientific knowledge for the safe, effective and efficient practice of orthodontics.

PO2

Assess anomalies of the dentition and facial growth and attain competency in practical and clinical skills in orthodontic management.

PO3

Support a multidisciplinary approach for compromised cases and engage the community to enhance their potential in oral healthcare through social skills.

PO4

Conduct oneself in a professional manner within the ethical and legal framework pertaining to the practice of preventive and interceptive orthodontics.

PO5

Communicate effectively with patients, accompanying family members, peers and other health professionals to ensure a more holistic delivery of health care.

P06

Acquire problem solving and scientific skills in order to manage complex dentofacial and orthodontic problems.

P07

Acquire the competency to manage information and life –long learning skills.

P08

Act effectively as an individual and in a group with leadership, managerial and entrepreneurial capabilities.

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