



KALINGA INSTITUTE OF DENTAL SCIENCES

Serving through Exemplary Oral Health Care, Education & Research



**MASTER OF DENTAL SURGERY (MDS)
PERIODONTICS AND ORAL IMPLANTOLOGY**

PROGRAM OUTCOMES

At the end of the program, graduates will be able to...

PO1: Describe the biology and pathology of the periodontium as well as the principles of bone biology and wound healing.

PO2: Collect, organize, analyze, interpret and present clinical data related to the examination of periodontal tissues and for implant placement

PO3: Utilize the appropriate diagnosing techniques relevant to periodontal and implant treatment and establish a prognosis for the outcomes of periodontal and implant treatments.

PO4: Demonstrate competence in non-surgical and surgical management of periodontal defects, regenerative techniques, mucogingival procedures for normal and medically compromised patients. Also for managing medical emergencies in the dental clinic.

PO5: Perform restoration driven implant placement based on the pre-operative planning. And, perform augmentation procedures prior to implant placement by using the appropriate material and techniques.

PO6: Communicate effectively with other disciplines in treatment planning and in treatment sequencing.

PO7: Teach in both didactic and clinical areas of undergraduate. Conduct, present and publish research projects based on national and global needs.

PO8: Demonstrate appropriate professional attitudes and behaviour in dealing with staff members and helping personnel. Converse with patients in an attentive manner that conveys concern, compassion, and the moral support of patients or their families.

PAPER - 1

COURSE OUTCOMES:

Part - 1

1. Should have abroad overview of the current research and methods used in studying problems in periodontal disease.
2. Should have an understanding of the broad range of infection diseases affecting the oral cavity.
3. Should have an understanding the clinical and biological factors to be considered in the appropriate use of antimicrobial drugs
4. Be aware of the contemporary principles and practices of laboratory diagnostic techniques and interpretation of laboratory reports.
5. Should have an understanding of hospital acquired infections and infections in the compromised host
6. Should have a basic knowledge on research methodology, biostatistics and be able to apply it in various research projects as well as dissertations.

Mapping of COs to POs

Program: MDS in Periodontology

Course: Part I: Applied basic sciences

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	✓					✓	✓	
CO2	✓					✓	✓	
CO3	✓		✓	✓				✓
CO4			✓	✓	✓			
CO5				✓		✓		✓
CO6		✓				✓	✓	

PO = Program Outcome

CO = Course Outcome

Name of the Course	Employability	Entrepreneurship	Skill development
Part I : Paper I: Applied basic sciences	Y		Y

COURSE OUTCOMES:

Part - 2

1. Should have an understanding on the normal structure of periodontium and the contributing etiological factors resulting in the pathogenesis of periodontal diseases and be able to apply this knowledge in the diagnosis.
2. Should be able to record indices and plan out epidemiological survey to assess the prevalence and incidence of early onset periodontitis and adult periodontitis in Indian Population

Mapping of COs to POs

Program: MDS in Periodontology

Course: Part II:

Paper I: Normal periodontal structure and etiopathogenesis and epidemiology

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	✓		✓				✓	
CO2		✓	✓				✓	

PO = Program Outcome

CO = Course Outcome

Name of the Course	Employability	Entrepreneurship	Skill development
Part II: Paper I: Normal periodontal structure and etiopathogenesis and epidemiology	Y		Y

PAPER - 2

COURSE OUTCOMES:

Part - 2

1. Should have a sound knowledge of the etiopathogenesis and apply it in diagnosing various periodontal diseases and should be familiar with various periodontal therapies available to treat those cases.
2. Should have an updated knowledge on the recent advancements and be able to modify their treatment accordingly.
3. Develop knowledge skill and the science of oral Implantology.
4. Should be aware of the various designs and placement of oral implants and follow up of implant restorations.

Mapping of COs to POs

Program: MDS in Periodontology

Course: Part II

Paper II- Periodontal Diagnosis, Therapy and Oral Implantology

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1			✓	✓		✓		✓
CO2			✓	✓		✓	✓	
CO3		✓	✓	✓	✓			
CO4			✓	✓		✓		✓

PO = Program Outcome

CO = Course Outcome

Name of the Course	Employability	Entrepreneurship	Skill development
Part II: Paper II: Periodontal Diagnosis, Therapy and Oral Implantology	Y	Y	Y

PAPER - 3

COURSE OUTCOMES:

Part - 2

1. Should be knowledgeable to provide clinical care for patients with complex problems that are beyond the treatment skills of general dentist and demonstrate evaluative and judgment skills in making appropriate decision regarding prevention, correction and referral to deliver comprehensive care to patients.
2. Should be able to analyze various clinical scenarios and apply their knowledge accordingly.

Mapping of COs to POs

Program: MDS in Periodontology

Course: Part II:

Paper III: Descriptive Analyzing Type Question

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1				✓		✓		✓
CO2			✓	✓	✓	✓	✓	

PO = Program Outcome

CO = Course Outcome

Name of the Course	Employability	Entrepreneurship	Skill development
Part II: Paper III: Descriptive Analyzing Type Question	Y	Y	Y