

## **Programme Structure**

School of Dental Sciences

MDS

(Oral & Maxillofacial Pathology and
Oral Microbiology)

Programme Code: SDS0104 Batch: 2023-26



## Programme Structure School of Dental Sciences Master of Dental Surgery (MDS) Batch: 2023-2026

S. No.	Paper ID	Subject Code	Subjects	Subjects							
THE	THEORY SUBJECTS										
•	MDS306	MDS306	Oral Pathology & Microbiology					CC			
Prac	Practical/Viva-Voce/Jury										
•	MDS306	Oral Pathology & 0 MDS306 Microbiology		0		3	45	CC			

## 2.1 Module: Syllabus

	Module. Sy								
Sc	hool:	School of Dental sciences							
<b>Programme:</b>		Master of Dental Surgery- Oral & Maxillofacial Pathology and Oral							
		Microbiology							
Ba	itch	2023-2026							
Co	ourse Code	MDS306							
Cı	edits								
Co	ontact Hours	NA							
(L	-T-P)	0-3-45							
1	Course	Compulsory (CORE)							
	Type								
2	Course	1.1 To train a post graduate student in the field of basic principles of							
	Objective	biostatistics and study as applied to dentistry and research							
	J	1.2 To develop a basic understanding of gross anatomy of head & neck,							
		including histology, biology, biochemistry and physiology							
		1.3 Basic understanding of pathologies affecting head and neck region							
		1.4 Basic knowledge of oral microbiology and immunology							
		2.1 To make post graduate student learn about pathologies of oral and							
		maxillofacial region.							
		2. 2 Knowledge of manifestations of common diseases, their diagnosis &							
		pathogenesis.							
		2.3 Student should know some basic aspects of Forensic Odontology.							
		3.1 To make post graduate students learn about routine and special							
		histological techniques							
		3.2 To make student diagnose cancer cases by interpreting							
		histopathological slides							
		4.1 To train a post graduate dental surgeon so as to ensure higher							
		competence in both general and special pathology dealing with the nature							



3	of oral diseases, their causes, processes and effects. 4.2 He/ She is expected to present a scientific data pertaining to the fin the conferences both as poster and verbal presentations and to take in group discussions.  The student will be able to: CO1 Understanding of research methodology CO2Appreciate the normal development, morphology, structure and funct of oral tissues. CO3 Understanding of pathologies affecting head and neck CO4Professional honesty and integrity are to be fostered CO1 At the end of the course, student is expected to appreciate the norm development, morphology, structure and function of oral tissues & variati in different pathological/non-pathological states. CO2 Cytopathological, histopathological and microbiological diagno and interpretation of oral diseases. CO3Screening and diagnosis of precancer and oral cancer CO1 At the end of the course, student is expected to have knowledge abrall the special stains and advanced laboratory techniques. CO2 At the conclusion of course, student should be confident of diagnosing the histopathological slides. CO3 At the end of the course, student should be confident to diagnose o cancer and precancer diseases. CO1 To make the student sound in diagnosing and treatment planning challenging cases of oral precancer and cancer. CO2 To make the student develop communication skills to explain various treatment modalities to the patient.								
	Description	Description of oral cavity, a brief of research methodology, biochemistry and physiology of human body. We teach students a detailed description of all the oral precancerous, cancerous, vesiculobullous lesions, and all the lesions affecting the oral cavity. We ensure that post graduate students learn about routine staining techniques as well as special laboratory procedures which helps in arriving at diagnosis of various precancer and cancerous lesions.							
5		Outline syllabus CO Mapp							
	Unit 1								
	A	Topic1  Bio-Statistics and Research Methodology, Applied Gross Anatomy of Head and Neck including Histology, Cell Biology, General Histology, Applied physiology, Applied Biochemistry							



	В	Topic 2	Applied General Pathology and General and Systemic Microbiology, Pathogenic mechanism at molecular level, Basic Immunology , Oral Biology (Oral and Dental Histology including Embryology and Oral Physiology)	CO2, CO3
_	С	Topic3	Oral Biology (Oral and Dental Histology including Embryology and Oral Physiology) . Basic Molecular Biology and Genetics.	CO3, CO2
	UNIT 2		ORAL PATHOLOGY, MICROBIOLOGY, IMMUNOLOGY AND FORENSIC Odontology	
	A	Topic 1	Basic Oral Pathology Development disturbances of oral and para oral structures, Dental caries, Pulp and periapical pathology,Osteomyelitis, Periodontal diseases, Salivary gland diseases, Cysts of the oral and para oral region, Traumatic, reactive and regressive lesions of oral cavity, Pigmentation of oral and para oral region and discoloration of teeth, Microbial infections of oral soft tissues, Diseases of the bone and TMJ.	CO306.1.3, CO306.2.1
	В	Topic 2	Biopsy, Exfoliative cytology	CO2 CO3
=	С	Topic 3	Principles of Basic Forensic Odontology, Oral Microbiology, Immunology	CO2, CO1, CO4
	UNIT 3  LABORATORY TECHNIQUES, DIAGNOSIS AND ONCOLOGY			



	A	Topic 1	Basic Histolog Microscopy	CO2, CO1						
		T:								
	В	Topic 2	Oral Oncology	CO1,						
							CO2 CO1			
	C	Topic 3		<i></i>						
	UNIT 4		ESSAY							
	A	Topic 1	Benign and m		CO3,					
			cavity, Develo	pmental diso	rders of oral		CO2,			
			and paraoral s	tructures, Pot	entially		CO1			
			malignant disc							
	В	Topic 2	Odontogenic o	CO2,						
		_	of salivary gla	of salivary glands, Genodermatosis, Giant						
			cell lesions							
	C	Topic 3	Molecular pat	CO1						
1	Course	Attendance	Minimum 75%	1						
	evaluation		clinical/praction	cal						
		Quizzes	Taken every 2	months						
		Presentations	Seminars, Jou	rnal Clubs, C	ase presentat	ions	, Thesis and			
			Library Disser	tation presen	tations					
		Any Other	Project based	learning, flip	learning, Ass	signı	ments			
		End Term	700 Marks	Theory	1 <sup>st</sup> year -		year-300			
		Examinations			100	ma	rks			
					Marks					
				year-300						
					Practical 3 <sup>rd</sup> y Marl					
2	Text book/s*	Orbans, Tencate, Berkowitz, Robin's and Cotran's, Wheelers, Bancroft,								
		Shafers, Neville			•		-			
3	Other	TED learning								
	References	EBSCOHOST								
		Various scientif	fic articles from	various sour	ces					



## **Mapping**

Cos	PO	PSO	PSO	PSO	PSO						
	1	2	3	4	5	6	7	1	2	3	4
CO306.1.	-	1	-	3	3	2	1	-	-	-	-
1											
CO306.1.		1		3	3	3	1				
2	-		-					-	-	-	-
CO306.1.		2		2	3	1	1				
3	-		-					-	-	-	-
CO306.1.		2		3	2	1	2				
4	-		-					-	-	-	-
CO306.2.	3	3	3	1	2	1	1	3	3	3	2
1											
CO306.2.	2	2	2	2	2	1	2	3	2	1	3
2											
CO306.2.	3	3	3	2	1	2	2	2	2	2	3
3											
CO306.3.	3	3	3	2	2	2	2	3	3	3	1
1											
CO306.3.	2	2	3	2	1	1	3	2	2	2	2
2											
CO306.3.	2	1	2	2	2	2	2	3	2	2	2
3											
CO306.4.	-	1	2	3	1	1	2	-	3	2	1
1											
CO306.4.	_	2	1	2	2	2	1	-	2	1	2
2											

- 1-Slight (Low)
- 2-Moderate (Medium)
- 3-Substantial (High)