

Program Structure Template

School of Dental Sciences MDS (Oral Pathology & Microbiology) SDS0104 2018-21

SU/SDS/MDS- Oral Pathology & Microbiology



1. Standard Structure of the Program at University Level

1.1 Vision, Mission and Core Values of the University

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience
- 2. Enrichment by educational initiatives that encourage global outlook
- 3. Develop research, support disruptive innovations and accelerate entrepreneurship

Core Values

4. Seeking beyond boundaries

- **1.** Integrity
- 2. Leadership
- 3. Diversity
- 4. Community

SU/SDS/MDS- Oral Pathology & Microbiology



Vision of the School

To serve the society by being a global center in pursuit of academic and professional excellence in the field of dentistry.

Mission of the School

- 1. Creating a stimulating and flexible learning environment amongst the faculty and students
- 2. Strongly promoting research, innovation, clinical excellence
- 3. Promote and inculcate ethical values and continued betterment in the dental profession and in all facets of life.

Core Values

- 1. Integrity
- 2. Leadership
- 3. Diversity
- 4. Community

SU/SDS/MDS- Oral Pathology & Microbiology



1.3 Programme Educational Objectives (PEO)

1.3.1 Writing Programme Educational Objectives (PEO)

Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

- **PEO1:** To train a post-graduate student to ensure higher competence in both general and special pathology dealing with nature of oral diseases, their cause, processes and effects.
- **PEO2:** Routine and special technique used for histopathology including principle of histochemistry, immunochemistry related to oral pathology.
- **PEO3:** Concepts of oral premalignancy and management of oral oncology.
- **PEO4:** Oral microbiology and their relationship to various branches of dentistry.
- **PEO5:** Working knowledge on current databases, automated data retrieval systems, referring and skill in writing scientific papers.



1.3.3 Program Outcomes (PO's)

- PO1: An oral pathologist is expected to perform routine histopathological evaluation of specimens relating to oral and peri-oral tissues.
- PO2: An oral pathologist should acquire skill to identify oral disease through microscopic slides.
- PO3: To carry out routine diagnostic procedures including hematological, cytological, microbiological, immunological and ultra-structural investigations.
- PO4: Understanding of current research methodology, collection and interpretation of data.
- PO5: Ability to carry out research projects on clinical and / or epidemiological aspects.
- PO6: Skills in age estimation and identification during forensic investigation.
- PO7: Professional honesty and integrity to be fostered.
- PSO1: Competency in diagnosis of oral precancer and cancerous lesions
- PSO2: Competent to carry out exfoliate cytology and its interpretation
- PSO3: Able to do mass screening of oral cancer patients
- PSO4: Competency to analyze and interpret routine blood investigations



Program Structure Template School of Dental Sciences Master of Dental Surgery (MDS) Batch: 2018-2021

S.	Paper	Subject	Subjects		aching	g Load	
No.	ID	Code		L	Т	P	
THEORY SUBJECTS							
1.			Oral Pathology & Microbiology	134-	-	-	CC
	MDS306	MDS306					
Practical/Viva-Voce/Jury							
2.			Oral Pathology & Microbiology	-	-	4187	CC
2.	MDS306	MDS306					
TOTAL CREDITS						NA	



School:		School of Dental sciences				
Program:		Master of Dental Surgery- Oral & Maxillofacial Pathology and Oral				
		Microbiology				
Batch		2018-2021				
Course Code		MDS306				
Credits		NA				
Contact Hours						
(L	-T-P)	134-0-4187				
1	Course Type	Compulsory (CORE)				
2	Course Objective	 1.1 To train a post graduate student in the field of basic principles of biostatistics and study as applied to dentistry and research 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 of oral diseases, their causes, processes and effects. 4.2 He/ She is expected to present a scientific data pertaining to the field in 				
3	Course Outcomes	 The shows of presence to present a second presentation of a transferred in the main of the conferences both as poster and verbal presentations and to take part in group discussions. The student will be able to: CO306.1.1 Understanding of research methodology CO306.1.2 Appreciate the normal development, morphology, structure and function of oral tissues. CO306.1.3 Understanding of pathologies affecting head and neck CO306.1.4 Professional honesty and integrity are to be fostered CO306.2.1 At the end of the course, student is expected to appreciate the normal development, morphological states. CO306.2.2 Cytopathological, histopathological and microbiological diagnosis and interpretation of oral diseases. CO306.2.3 Screening and diagnosis of precancer and oral cancer CO306.3.1 At the end of the course, student is expected to have knowledge 				

2.1 Template A1: Syllabus



			Beyond Boundaries					
		about all the special stains and advanced laboratory techniques.						
		CO306.3.2 At the conclusion of course, student should be confident of						
		diagnosing the histopathological slides.						
		CO306.3.3 At the end of the course, student should be confident to diagnose						
		oral cancer and precancer diseases.						
		CO306.4.1 To make the student sound in diagnosing and treatment planning						
			of challenging cases of oral precancer and cancer.					
		CO306.4.2 To make the student develop communication skills to explain various treatment modalities to the patient.						
		various reatment modanties to the patient.						
4	Course	Under this course	we teach students about basic anatomy and histology of					
	Description		a brief of research methodology, biochemistry and physiology					
	-	2	e teach students a detailed description of all the oral					
		precancerous, canc	precancerous, cancerous, vesiculobullous lesions, and all the lesions					
		-	affecting the oral cavity. We ensure that post graduate students learn about					
			chniques as well as special laboratory procedures which					
		helps in arriving at	t diagnosis of various precancer and cancerous lesions.					
5		T T •/ A	Outline syllabus					
	MDS306.A	Unit A	APPLIED BASIC SCIENCES					
	MDS306.A1	Unit A Topic1	Bio-Statistics and Research Methodology					
	MDS306.A2	Unit A Topic 2	Applied Gross Anatomy of Head and Neck					
			including Histology, Cell Biology, General					
			Histology, Applied physiology, Applied					
			Biochemistry					
	MDS306.A3	Unit A Topic3	Applied General Pathology and General and					
			Systemic Microbiology, Pathogenic mechanism at					
	MDS306.A4	Unit A Topic 4	molecular level, Basic Immunology					
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	MDS306.A5Unit A Topic 5Embryology and Oral Physiology)							
	MDS306.A6	Unit A Topic 6	Basic Histology techniques and Microscopy					
	MDS306.B Unit B ORAL PATHOLOGY,							
			MICROBIOLOGY,					
			IMMUNOLOGY AND FORENSIC					
			Odontology					
	disturbances of e		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					

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	region and discoloration of				f teeth,		
			Microbial infections of oral soft				
			tissues, Diseases of the bone and				
			. смт				
	MDS306.B2	Unit B Topic 2	Biopsy, Exfoliative cytology				
	MDS306.B3	Unit B Topic 3	Principles of Basic Forensic Odontology				
	MDS306.B4	Unit B Topic 4	Oral Microbiolo	ogy			
	MDS306.B5	Unit B Topic 5	Immunology				
	MDS306.C	Unit C	LABORATORY TECHNIQUES, DIAGNOSIS AND ONCOLOGY				
	MDS306.C1	Unit C Topic 1	Basic Histology techniques and Microscopy				
	MDS306.C2 Unit C Topic 2 Oral Oncology						
	MDS306.C3				intenance		
	MDS306.C4	Unit C Topic 4	Recent Advances in Oral Pathology				
	MDS306.C5	Unit C Topic 5	Histopathology slide discussions				
	MDS306.D	Unit D	ESSAY				
	MDS306.D1	Unit D Topic 1	Benign and malignant tumors of oral cavity			ý	
	MDS306.D2	Unit D Topic 2	Developmental disorders of oral and paraoral				
			structures				
	MDS306.D3	Unit D Topic 3	Potentially malignant disorders, Bone pathology				
	MDS306.D4	Unit D Topic 4	Odontogenic cysts and tumors				
	MDS306.D5	Unit D Topic 5	Pathology of salivary glands				
	MDS306.D6	Unit D Topic 6	Genodermatosis, Giant cell lesions				
	MDS306.D7	Unit D Topic 7	Molecular pathology				
1	Course	Attendance	Minimum 75% is needed for both theory and				
	evaluation	0	clinical/practical				
		Quizzes Presentations	Taken every 2		a macantation	. Thesis and	
		Fresentations	Seminars, Journal Clubs, Case presentations, Thesis and Library Dissertation presentations			is, Thesis and	
		Any Other	Project based lo			nments	
		End Term	700 Marks	Theory	1^{st} year -	3 rd year-300	
		Examinations	700 Whaths	Theory	100 Marks	marks	
				Practical	100111	3 rd year-300	
						Marks	
2	Text book/s*	Orbans, Tencate, H	Berkowitz, Robin	's and Cotrar	n's, Wheelers,		
		Shafers, Neville, R	legezi and Scuba	, Fletcher, Cu	illings		
3	Other	TED learning					
	References	EBSCOHOST					
		Various scientific	articles from var	ous sources			