

Program Structure Template

School of Dental Sciences

MDS

(Oral & Maxillofacial Surgery)

SDS0108

2021-2024



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
- 4. Seeking beyond boundaries

Core Values

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



1.2Vision, Mission and Core Values of the School

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



1.3 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 have adequate knowledge and understanding of the etiology, patho physiology and diagnosis, treatment planning of various common oral andMaxillofacial surgical problems both minor and major in nature.
- PEO2: To have understood the general surgical principles like pre and post-surgical management, particularly evaluation, post-surgical care, fluid and electrolyte management, blood transfusion and post-surgical pain management.
- PEO3: Understanding of basic sciences relevant to practice or oral and maxillofacial surgery.
- PEO4: Able to identify social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and Maxillofacial region.
- PEO5: Essential knowledge of personal hygiene and infection control, prevention c cross infection and safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.



1.3.3 Program Outcomes (PO's)

- PO1 : To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures and order relevant laboratory tests and interpr them and to arrive at a reasonable diagnosis about the surgical condition.
- PO2 : To perform with competence minor oral surgical procedures and common maxillofacial surgery. To treat both surgically and medically (or by other means of the oral and Maxillofacial and the related area).
- PO3 : Capable of providing care for maxillofacial surgery patients.
- PO4 : Develop attitude to adopt ethical principles in all aspect of surgical practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed or religion of the patient.
- PO5 : To share the knowledge and clinical experience with professional colleagues
- PO6 : To adopt new and techniques of surgical management developed from time to time based on scientific research which are in the best interest of the patient
- PO7 : Professional honesty and integrity to be fostered.
- PSO1: acquired adequate knowledge and understanding of the etiology, patho physiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems both minor and major in nature.
- PSO2: to identify social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and Maxillofacial region.
- 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: 2021-2024

S. No.			Subjects	L	Teaching Load L T P		Type of Course: 1. CC 2. AECC		
							3. SEC 4. DSE		
THEO	RY SUBJEC	CTS		•					
1.	MDS303	MDS303	Oral & Maxillofacial Surgery	134	-	-	CC		
Practi	Practical/Viva-Voce/Jury								
2.	MDS303	MDS303	Oral & Maxillofacial Surgery	-	-	4187	CC		
	TOTAL CREDITS								



2.1 Template A1: Syllabus

Scho	ool:	School of Dental Sciences			
Prog	gram:	Master Of Dental surgery			
Bato	ch	2021-2024			
1	Course Code	MDS303			
2	Course Title	Oral & Maxillofacial Surgery			
3	Credits	NA NA			
4	Contact	134-0-4187			
	Hours				
	(L-T-P)				
	Course Type	CC			
5	Course	1. To train a post-graduate student to have adequate knowledge and understanding of the etiology, patho			
	Objective	physiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems.			
		2. To have understood the general surgical principles.			
		2. He deserted discrete discrete and a second control of the secon			
		3. Understanding of basic sciences relevant to practice or oral and maxillofacial surgery.			
		4. Essential knowledge of personal hygiene and infection control.			
		5. Essential knowledge of personal hygiene and infection control			
6	Course	The student will be able to:			
	Outcomes	CO 303.1.1:Student should know about Development and growth of face, teeth and jaws, Age changes and			
		evaluation of mandible in detail Congenital abnormality of orofacial regions Surgical anatomy of scalp, temple			
		and face			
		CO 303.1.2:Anatomy and its applied aspects of triangles of neck and deep structures of neck, Cranial facial bones			
		and surrounding soft issues. Cranial nerves, Tongue, Temporal and infratemporal region and temporomandibular			
		joint in detail Orbits and its contents, Muscles of face and neck.			
		CO 303.1.3:Histology of skin, oral mucosa, connective tissue bone, cartilage, cellular elements of blood vessels,			



		Beyond Boundaries
		Lymphatic, Nerves, Muscles.
		CO 303.2.1:Endocrinology - metabolism of calcium, endocranial activity and disorder relating thyroid gland, parathyroid gland, adrenal gland, pituitary gland, pancreas and gonads
		CO 303.2.2:Nutrition – general principles balanced diet, effect of dietary deficiency, protein energy malnutrition, nutritional assessment, metabolic responses to stress, need for nutritional support, entrails nutrition, roots of access to GIT, parenteral nutrition, access to central veins, nutritional support
		CO 303.3.1:Fluid and electrolytic balance / acid base metabolism– the body fluid compartment, metabolism of water and electrolytes, factors maintaining hemostasis causes for treatment of acidosis and alkalosis.
		CO 303.3.2: Wound management - wound healing factors influencing healing, properties of suture materials, and appropriate uses of sutures.CO 303.4.1: The students would be able to diagnose, meticulously plan and manage competently various conditions in maxillofacial surgery including challenging cases.
		CO 303.4.1 The students would be able to diagnose, meticulously plan and manage competently various conditions in maxillofacial surgery including challenging cases.
		CO 303.4.2:Students would be knowledgeable about conventional and recent advances in the diagnosis and management of oral and maxillofacial conditions
7	Course Description	Oral and Maxillofacial surgery deal with the diagnosis, surgical and adjunctive treatment of diseases, injuries and defects of the human jaws and associated oral and facial structures. It is also a surgery to treat many diseases, injuries and defects in the head, neck, face, jaws and the hard and soft tissues of the oral (mouth) and maxillofacial (jaws and face) region. The course helps to develop skilled professionals in diagnosis, surgical and adjunctive treatment of disease, injuries, defects of the human jaws and associated oral and facial structures.

8 Outline syllabus



MDS303.A	Unit A	
	Applied 1	Basic Sciences:
MDS303.A1	Unit A	Applied Anatomy- Surgical anatomy of scalp, temple and face anatomy and its applied
	Topic 1	aspects
MDS303.A2	Unit A	Applied Physiology - General consideration of the structure and function, brain and applie
	Topic 2	anatomy of intracranial venous sinuses, cavernous sinus and superior sagittal sinus, Brief consideration of autonomous nervous system of head and neck.
MDS303.A3	Unit A	Applied Biochemistry- General principles governing the various biological principles of th
	Topic 3	body such as osmotic, pressure, electrolytes, dissociation, oxidation, reduction etc, genera composition of body enzymes and antimetabolite
MDS303. A4	Unit A	Applied General Pathology- Wound management, Hypersensitivity, Shock and pulmonary
	Topic 4	failure, types of shock, diagnosis, resuscitation, pharmacological support, ARDS and its causes and prevention, ventilation and support.
MDS303. A5	Unit A	Applied Oral Pathology and microbiology - Wide range of pathological lesions of hard and
	Topic 5	soft tissues of the Orofacial regions like the odontogenic infection, maxillary sinus diseases mucosal diseases, role of laboratory investigation in oral surgery.
MDS303. A6	Unit A	Applied Pharmacology and therapeutics- Dosage and mode of administration of drugs, action
	Topic 6	and fate in the body.
MDS303. A7	Unit A	Applied Computer science- The value of computer based systems in biomedical equipment
	Topic 7	

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MDS303. A8	Unit A	ORAL AND MAXILLOFACIAL SURGERY- Evolution of Maxillofacial surgery, Diagnosis,
	Topic 8	history taking, clinical examination, investigations, Informed consent/medico-legal issues, Principles of surgery, Pre operative workup, Surgical sutures, drains, Post operative care.
MDS303.B	Unit B	
	ORAL A	ND MAXILLOFACIAL SURGERY – Minor
MDS303.B1	Unit B	Communication skills with patients
	Topic 1	
MDS303. B2	Unit B	Principles of evidence based surgery
	Topic 2	
MDS303. B3	Unit B	Medical emergencies
	Topic 3	
MDS303. B4	Unit B	Common cysts and Tumors.
	Topic 4	
MDS303. B5	Unit B	Airway obstruction management
	Topic 5	
MDS303. B6	Unit B	Facial pain
	Topic 6	
MDS303. B7	Unit B	Pain control



		Beyond Boundarie
	Topic 7	
MDS303. B8	Unit B	Temporomandibular joint disorders
	Topic 8	
MDS303. B9	Unit B	Clinical oral surgery
	Topic 9	
MDS303. B10	Unit B	Pre-prosthetic surgery
	Topic 10	
MDS303. B11	Unit B	Maxillofacial trauma
	Topic 11	
MDS303. B12	Unit B	Assessment of trauma
	Topic 12	
MDS303. B13	Unit B	General patient management
	Topic 13	
MDS303. B14	Unit B	Cyst and tumors of head and neck region and their management
	Topic	



	14	
MDS303. B15	Unit B	Surgical Infections
	Topic	
	15	
MDS303. B16	Unit B	Distraction osteogenesis in maxillofacial region
	Topic	
	16	
MDS303. B17	Unit B	Implantology principles
	Topic	
	17	
MDS303. B18	Unit B	Allied specialties- Neuro-surgery, ENT/ Ophthalmology, Orthopaedic
	Topic	
	18	
MDS303. C	Unit C	
	ORAL & MAX	ILLOFACIAL SURGERY – Major
MDS303.C1	Unit C	Principles of surgical audit
	Topic 1	
MDS303.C2	Unit C	Tissue grafting
	Topic 2	



		Beyond Boundaries
MDS303.C3	Unit C	Laser surgery
	Topic 3	
MDS303. C4	Unit C	Cleft lip and palate surgery
	Topic 4	
MDS303. C5	Unit C	Aesthetic facial surgery
	Topic 5	
MDS303. C6	Unit C	Craniofacial surgery
	Topic 6	
MDS303. C7	Unit C	Head and Neck Oncology
	Topic 7	
MDS303. C8	Unit C	Micro vascular surgery
	Topic 8	

		Attendance	Minimum 75% is Needed for both theory and clinical practical
1.	Course evaluation	Discussions	Every week
		Presentations	Seminar, Journal Club, Case Presentations

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		Any Other		Posters		Beyond Boundaries	
		Annual examinatio	Marks	1st year theory – 100 marks	rks 3 rd year theory – 300marks		
		n	Theory and Practical)	3 rd year		ar practical – 300 marks	
2.	Text book/s*	 Text 1 & 2 Princ Vol. 1 Maxis Maxis Maxis Princ 	iples of Oral & 2 illofacial Inj illofacial Tra llofacial Infe iples of Oral	- Malamed I & Maxillofacial Surgery – Last I & Maxillofacial Surgery – Pete uries – Row & Williams Vol.1 & auma Fonseca Vol. 1 &2 ections – Topazian I & Maxillofacial Surgery – Mod Dentofacial deformities – Epke	erson & 2 ore	Stanley F. Malamed Daniel M. Laskin Peterson N.L Rowe & J.LI. Williams Fonseca Topazian Moore Bruce N. Epker	



		1. Journal of Oral & Maxillofacial Surgery	
3.	SUGGESTED PERIODICALS	2. British Journal of Oral & Maxillofacial Surgery	
		3. International Journal of Oral & Maxillofacial Surgery	
		TED learning	
4.	Other References	EBSCOHOST	
		Various scientific articles from various sources	