



Programme Structure
School of Dental Sciences
MDS
(Oral & Maxillofacial Surgery)
Programme Code: SDS0108
Batch :2023-2026

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



S. No.	Paper ID	Subject Code	Subjects	Teaching Load			Type of Course: 1. CC 2. AECC 3. SEC 4. DSE
				L	T	P	
THEORY SUBJECTS							
1.	MDS303	MDS303	Oral & Maxillofacial Surgery	0	3	45	CC
Practical/Viva-Voce/Jury							
2.	MDS303	MDS303	Oral & Maxillofacial Surgery	0	3	45	CC



2.1 Module Syllabus

School:	School of Dental Sciences	
Program:	Master Of Dental surgery	
Batch	2023-2026	
1	Course Code	MDS303
2	Course Title	Oral & Maxillofacial Surgery
3	Credits	NA
4	Contact Hours (L-T-P)	0-3-45
	Course Type	CC
5	Course Objective	<p>1. 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 and Maxillofacial surgical problems.</p> <p>2. To have understood the general surgical principles.</p> <p>3. Understanding of basic sciences relevant to practice or oral and maxillofacial surgery.</p> <p>4. Essential knowledge of personal hygiene and infection control.</p> <p>5. Essential knowledge of personal hygiene and infection control</p>
6	Course Outcomes	<p>The student will be able to:</p> <p>CO1: 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</p> <p>CO2: Anatomy and its applied aspects of triangles of neck and deep structures of neck, Cranial facialbones 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.</p> <p>CO3: Histology of skin, oral mucosa, connective tissue bone, cartilage, cellular elements of blood vessels,</p>

		<p>Lymphatic, Nerves, Muscles.</p> <p>CO1: Endocrinology - metabolism of calcium, endocranial activity and disorder relating thyroid gland, parathyroid gland, adrenal gland, pituitary gland, pancreas and gonads</p> <p>CO2: Nutrition – general principles balanced diet, effect of dietary deficiency, protein energy malnutrition, nutritional assessment, metabolic responses to stress, need for nutritional support, enteral nutrition, routes of access to GIT, parenteral nutrition, access to central veins, nutritional support</p> <p>CO1: 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.</p> <p>CO2: 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.</p> <p>CO1 The students would be able to diagnose, meticulously plan and manage competently various conditions in maxillofacial surgery including challenging cases.</p> <p>CO2: Students would be knowledgeable about conventional and recent advances in the diagnosis and management of oral and maxillofacial conditions</p>
7	Course Description	<p>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.</p>

8	Outline syllabus		CO Mapping
	UNIT 1		
	Applied Basic Sciences:		
A	Topic 1	Applied Anatomy- Surgical anatomy of scalp, temple and face anatomy and its applied aspects, Applied Physiology - General consideration of the structure and function, brain and applied anatomy of intracranial venous sinuses, cavernous sinus and superior sagittal sinus, Brief consideration of autonomous nervous system of head and neck. Applied Biochemistry - General principles governing the various biological principles of the body such as osmotic, pressure, electrolytes, dissociation, oxidation, reduction etc, general composition of body enzymes and antimetabolite	CO1
B	Topic 2	Applied General Pathology - Wound management, Hypersensitivity, Shock and pulmonary failure, types of shock, diagnosis, resuscitation, pharmacological support, ARDS and its causes and prevention, ventilation and support. Applied Oral Pathology and microbiology - Wide range of pathological lesions of hard and soft tissues of the Orofacial regions like the odontogenic infection, maxillary sinus diseases, mucosal diseases, role of laboratory investigation in oral surgery.	CO1
C	Topic 3	Applied Pharmacology and therapeutics - Dosage and mode of administration of drugs, action and fate in the body. Applied Computer science - The value of computer based systems in biomedical equipment. ORAL AND MAXILLOFACIAL SURGERY - Evolution of Maxillofacial surgery, Diagnosis, history taking, clinical examination, investigations, Informed consent/medico-legal issues, Principles of surgery, Pre operative workup, Surgical sutures, drains, Postoperative care.	CO1



UNIT 2	ORAL AND MAXILLOFACIAL SURGERY – Minor		
A	Topic 1	Communication skills with patients, Principles of evidence based surgery, Medical emergencies, Common cysts and Tumors. Airway obstruction management, Facial pain, Pain control	CO1
B	Topic 2	Temporomandibular joint disorders. Clinical oral surgery, Pre-prosthetic surgery, Maxillofacial trauma, Assessment of trauma General patient management, Cyst and tumors of head and neck region and their management, Surgical Infections	CO2
C	Topic 3	Distraction osteogenesis in maxillofacial region, Implantology principles, Allied specialties - Neuro-surgery, ENT/ Ophthalmology, Orthopaedics,	CO1, CO2



Unit 3	ORAL & MAXILLOFACIAL SURGERY – Major		
A	Topic 1	Principles of surgical audit, Tissue grafting, Laser surgery	CO1,CO2
B	Topic 2	Cleft lip and palate surgery, Aesthetic facial surgery	CO2
C	Topic 3	Craniofacial surgery, Micro vascular surgery	CO3,CO2

1.	Course evaluation	Attendance		Minimum 75% is Needed for both theory and clinical practical	
		Discussions		Every week	
		Presentations		Seminar, Journal Club, Case Presentations	
		Any Other		Posters	
		Annual examination	(700 Marks Theory and Practical)	1 st year theory – 100 marks	3 rd year theory – 300marks
		3 rd year practical – 300 marks			
2.	Text book/s*	<ol style="list-style-type: none"> 1. Local anesthesia – Malamed 2. Text book of Oral & Maxillofacial Surgery – Laskin Vol. 1 & 2 3. Principles of Oral & Maxillofacial Surgery – Peterson Vol. 1 & 2 4. Maxillofacial Injuries – Row & Williams Vol.1 & 2 5. Maxillofacial Trauma Fonseca Vol. 1 & 2 6. Maxillofacial Infections – Topazian 7. Principles of Oral & Maxillofacial Surgery – Moore 8. Facial esthetics & Dentofacial deformities – Epker Vol 1 to 4 			<p>Stanley F. Malamed</p> <p>Daniel M. Laskin</p> <p>Peterson</p> <p>N.L Rowe & J.LI. Williams</p> <p>Fonseca</p> <p>Topazian</p> <p>Moore</p> <p>Bruce N. Epker</p>



3.	SUGGESTED PERIODICALS	<ol style="list-style-type: none">1. Journal of Oral & Maxillofacial Surgery2. British Journal of Oral & Maxillofacial Surgery3. International Journal of Oral & Maxillofacial Surgery	
4.	Other References	<p>TED learning</p> <p>EBSCOHOST</p> <p>Various scientific articles from various sources</p>	



PROGRAM OUTCOME COURSES	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO 303.1.1	-	1	-	3	3	2	1	-	-	-	-
CO 303.1.2	-	1	-	3	3	2	1	-	-	-	-
CO 303.1.3	3	3	3	1	2	1	1	3	3	3	2
CO 303.2.1	3	3	3	1	2	1	1	3	3	3	2
CO 303.2.2	1	1	2	1	1	2	-	3	2	1	1
CO 303.3.1	3	3	3	2	2	2	2	3	3	3	1
CO 303.3.2	1	3	2	1	3	2	-	3	2	1	1
CO 303.4.1	2	2	2	1	2	2	1	2	2	1	1
CO 303.4.2	1	1	2	1	1	2	1	3	3	1	1

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)