



Session Plan I BDS (2023-24)

Paper Title: Human Oral and Dental Anatomy, Embryology, Physiology and Histology

Learning Outcomes:

At the end of the human oral and dental anatomy, embryology, physiology and histology course, the student should be able to comprehend-

1. The anatomy, morphology, chronology, functions, nomenclature of primary and permanent dentition
2. Tooth numbering system for primary and permanent dentition
3. The anatomy of temporomandibular joint and occlusion
4. The development of face, jaw, and teeth
5. Histology of different tissues of oral cavity
6. Histochemistry of oral tissues
7. Blood supply, nerve supply and lymphatic drainage of teeth and surrounding tissues

Sl no	Unit	Topic	Lecture hour	Teaching pedagogy	Resources
1.	Introduction, dental anthropology and comparative dental anatomy	Introduction, dental anthropology and comparative dental anatomy	Theory – 1	Lecture	T3 chapter – 1,4
2.	Functions of teeth	Functions of teeth	Theory – 1	Lecture	T3 chapter – 4
3.	Tooth numbering	Tooth numbering	Theory – 1	Lecture	T3 chapter – 1
4.	Cell	Structure and function	Theory – 1	Lecture	T4 chapter – 9
5.	Nomenclature	Nomenclature	Theory – 1	Lecture	T3 chapter – 9
6.	Development and growth of face and jaws	Development and growth of face and jaws	Theory – 1	Lecture	T1 chapter – 2 T2 chapter – 2 W1
7.	Chronology of deciduous and permanent teeth	Chronology of deciduous and permanent teeth	Theory – 1	Lecture Ict based demo	T3 chapter – 2
	Deciduous teeth	Deciduous teeth	Theory – 4	Lecture	T3 chapter – 3



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8.				Ict based demo	
9.	Gross morphology of deciduous teeth	Gross morphology of deciduous teeth	Theory – 2	Lecture Ict based demo	T3 chapter – 3
10	General Difference between deciduous and permanent teeth	General Difference between deciduous and permanent teeth	Theory – 1	Lecture Ict based demo	T3 chapter – 3
11.	Development of tooth	Dental lamina, Developmental stages, histophysiology, clinical considerations	Theory – 6	Lecture Ict based demo videos	T1 chapter – 9 T2 chapter – 7 W1
		Developmental stages	Practical – 5	Individual learning group discussion Ict based seminar Tutorials Assignments	Hand outs Led screen Microscopic slides
12.	Morphology of permanent teeth	Morphology of maxillary and mandibular incisors, Morphology of maxillary and mandibular canines, Morphology of maxillary and mandibular premolars, Morphology of maxillary and mandibular molars	Theory – 6	Lecture Ict based demo videos	
	Incisors, canines, premolars and molars		Practicals – 250	Individual learning group discussion Ict based seminar Tutorials Assignments	Hand outs Led screen Microscopic slides
13.	Enamel	Physical and chemical properties of enamel, Structure of enamel, Development - life cycle of ameloblasts, Amelogenesis, Mineralization, Clinical considerations, Age changes	Theory – 8	Lecture Ict based demo Videos	T1 chapter 6 T2 chapter 3 W1 W2
			Practicals - 6	Individual learning group discussion Ict based seminar Tutorials	Hand outs Led screen Microscopic slides

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				Assignments	
14.	Morphological differences of the same arch	Morphological differences between the maxillary central and maxillary lateral, Morphological differences between the mandibular central and mandibular lateral, Morphological differences between the maxillary 1 st premolar and maxillary 2 nd premolar, Morphological differences between the mandibular 1 st premolar and mandibular 2 nd premolars, Morphological differences between the maxillary 1 st molar and maxillary 2 nd molar, Morphological differences between the mandibular 1 st molar and mandibular 2 nd molar	Theory – 9	Lecture	T3 chapter 6 Models
15.	Dentin	Physical and chemical properties of dentin, Structure of dentin – types, Development of dentin – dentinogenesis, mineralization, Clinical considerations, Age changes	Theory – 5	Lecture Ict based demo videos	T1 chapter – 5 W1 W2
			Practicals – 10	Individual learning group discussion Ict based seminar Tutorials Assignments	
16.	Morphological differences of opposite arch	Morphological differences between the maxillary and mandibular incisors, Morphological differences between the maxillary and mandibular canines, Morphological differences between the maxillary and mandibular premolars, Morphological differences between the maxillary and mandibular molars	Theory – 4	Lecture	T3 chapter – 1

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17.	Pulp	Anatomy, structural features, functions and cells of pulp, Development, clinical considerations and age changes	Theory – 5	Lecture	T1 chapter – 6 T2 chapter – 10 W1
			Practicals – 2	Individual learning group discussion Ict based seminar Tutorials Assignments	Hand outs Led screen Microscopic slides
18.	Cementum	Physical and chemical properties of cementum, Structure and development of cementum, Clinical considerations, age changes	Theory – 5	Lecture Ict based demo	T1 chapter – 7,5 T2 chapter – 13 W1 W2
			Practicals – 6	- Individual learning, group discussion Ict based seminar Tutorials Assignments	Hand outs Led screen Microscopic slides
19.	Periodontal liagment	Developmnt and functions of pdl, Cells and fibers of pdl, Clinical considerations, age changes	Theory – 5	Lecture Ict based demo	T1 chapter – 8 T2 chapter – 13,14
			Practicals – 1	Individual learning group discussion Ict based seminar Tutorials Assignments	Hand outs Led screen Microscopic slides
20.	Internal anatomy of pulp	Pulp chambers and canal, pulp horn	Theory – 1	Lecture	T3 chapter – 30
21.	Oral mucous membrane	Definition and general considerations, Structure and microscopic appearance, Classification	Theory – 8	Lecture	T1 chapter – 10 T2 chapter – 18 W1

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		and functions, Gingival sulcus and dento gingival junction, Clinical considerations and age changes			
			Practicals – 9	Individual learning, group discussion Ict based seminar Tutorials Assignments Projects	Hand outs Led screen Microscopic slides
22.	Salivary glands	Classification, Structure and histology, Functions, Clinical considerations, age changes	Theory – 4	Lecture Ict based demo	T1 chapter – 11 T2 chapter – 17 W1 W2
			Practicals – 3	Individual learning, group discussion Ict based seminar Tutorials Assignments	Hand outs Led screen Microscopic slides
23.	Bone	Physical and chemical properties of bone, Structure of bone, Development and internal reconstruction of bone, Clinical considerations	Theory – 5	Lecture Ict based demo videos	T1 chapter – 5,9 T2 chapter – 13,14
			Practicals – 10	Individual learning group discussion Ict based seminar Tutorials Assignments	Hand outs Led screen Microscopic slides
24.	Occlusion	Development of occlusion, dental arch form, compensating curves of dental arches, Angulations of individual teeth in relation to various planes, Functional form of the teeth	Theory – 7	Lecture videos	T3 chapter – 16

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		at their incisal and occlusal thirds, Facial relations of each tooth in one arch to its antagonist, Occlusal contact and intercusp relations of all teeth			
25.	Tooth eruption	Patterns and histology of tooth movement, Mechanism of tooth movement and clinical considerations	Theory – 2	Lecture Ict based demo	T1 chapter – 13 T2 chapter – 15
26.	Shedding of deciduous teeth	Pattern and histology of shedding, Mechanism of resorption and shedding, clinical considerations	Theory – 2	Lecture Ict based demo	T1 chapter – 14 T2 chapter – 15
27.	Theories of calcification	The theories of calcification	Theory – 1	Lecture	T1 chapter – 9 T2 chapter – 7
28.	Temporo mandibular joint	Gross anatomy, muscles of mastication, mandibular movements, histology and clinical considerations	Theory – 1	Lecture	T3 chapter – 15
29.	Histochemistry Of oral Tissues	Histochemical study of oral tissues, Histochemical technique,	Theory – 4	Lecture Ict based demo	T1 chapter – 18
30.	Mastication & deglutition	Muscles of mastication, deglutition	Theory – 1	Lecture	T3 chapter – 1
31.	Cranial nerves	5 th , 7 th , 9 th cranial nerves	Theory – 1	Lecture	T1 chapter – 9
32.	Blood, nerve and lymphatic drainage of teeth and surrounding tissues	Blood, nerve and lymphatic drainage	Theory – 1	Lecture	T1 chapter – 25
33.	Maxillary sinus	Definition and variations, Structure and Histology, Functions and Clinical considerations	Theory – 1	Lecture Ict based demo	T1 chapter – 16 W1
			Practicals – 10	Individual learning group discussion Ict based seminar Tutorials Assignments	Hand outs Led screen Microscopic slides

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Textbooks

- T1. Orban's - oral histology and embryology – SN bhaskar 15th Edition
- T2. A.R Tencates – oral histology, development, structure and function 8th Edition
- T3. Wheeler's dental anatomy, physiology and occlusion – Nelson /Ash 9th Edition
- T4. Human Physiology Vol – I. Chatterjee C. C.
- T5. Cunningham's Manual of practical Anatomy (Vol-I) 1998 ELBS Oxford

Web link

- W1. <https://teachmeanatomy.info/the-basics/embryology/head-neck/face-palate/>
- W2. <https://openoregon.pressbooks.pub/histologyandembryology/chapter/chapter-8-tooth-development>
- W3. <https://www.youtube.com/watch?v=RyelOpCS0Uo>
- W4. <https://www.youtube.com/watch?v=RyelOpCS0Uo>
- W5. J dent res. 1952 jun;31(3):366-70.doi: 10.1177/00220345520310031401
- W6. Front biosci (elite ed). 2011 jan 1; 3: 711–735. 2011 jan 1
- W7. International journal of science and research (ijsr) issn (online): 2319-7064 index copernicus value (2015): 78.96 | impact factor (2015): 6.391
- W8. International journal of science and research (ijsr) issn (online): 2319-7064 index copernicus value (2015): 78.96 | impact factor (2015): 6.391
- W9. J indian soc periodontol. 2014 sep-oct; 18(5): 549–554
- W10. International journal of science and research (ijsr) issn (online): 2319-7064 index copernicus value (2015): 78.96 | impact factor (2015): 6.391
- W11. <https://www.youtube.com/watch?v=fofiZa7xlo0>
- W12. Delporte C, Bryla A, Perret J. Aquaporins in Salivary Glands: From Basic Research to Clinical Applications. Int J Mol Sci. 2016 Jan 27;17(2)
- W13. The American Journal of Surgical Pathology: October 2009 - Volume 13 - Issue 10 - p 879-899
- W14. "The composition, function and role of saliva in maintaining oral health:



A review," Int J Contemp Dent Med Rev, vol.2017, Article ID: 011217, 2017

Questions bank

Short questions

1. Functions of teeth
2. Tooth numbering system
3. Structure and function of cell
4. Development of face
5. Development of mandible
6. Morula
7. Blastula
8. Neural crest cells
9. Pharyngeal arches and pouches and their derivatives
10. Meckel's cartilage
11. Development of tongue
12. Development of palate
13. Notochord
14. Chronology of teeth
15. Chronology of deciduous teeth
16. Sequence of emergence of primary teeth
17. Transition dentitional period
18. Differences between primary and permanent teeth
19. Incremental lines of enamel
20. Hypocalcified structures of enamel
21. Age changes of enamel
22. Enamel rods
23. Types of dentin
24. structure of dentinal tubules
25. Age changes in dentin
26. Physical and chemical properties of dentin
27. Dento enamel junction
28. Function of pulp
29. Age changes in pulp
30. Cells of pulp
31. Zone of weil
32. Pulp stones
33. Types of cementum
34. Hypercementosis
35. Functions of cementum
36. Types of cemento enamel junction



37. Age changes in cementum
38. Epithelial rests of mallassez
39. Cementicles
40. Functions of pdl
41. Sharpey's fibers
42. Pulp chambers
43. Pulp horn
44. Write in brief about non keratinocytes
45. Discuss layers in keratinized epithelium of keratinized mucosa
46. Vermillion border of lip
47. Histology of gingiva
48. Taste buds
49. Specialized mucosa
50. Papilla of tongue
51. Lip mucosa
52. Histological difference between keratinized and non keratinized mucosa
53. Clinical features of gingiva in detail
54. Types of gingiva and its appearance
55. Orthokeratized epithelium
56. Junctional epithelium
57. Histology of skin
58. Strata in keratinized epithelium
59. Age changes in oral mucosa
60. Development of dento gingival junction
61. Epithelial attachment
62. Odland bodies
63. Mast cells
64. Incisive papilla
65. Attached gingiva
66. Tonofilaments
67. Lamina propria
68. Lamina limitans
69. Col
70. Linea alba
71. Fordyce's granules
72. Cytokeratins and their significance
73. Functions of saliva
74. Composition of saliva
75. Describe the histology of serous glands
76. Histology of salivary glands
77. Ducts of salivary glands
78. Deminules



79. Von Ebner glands
80. Myoepithelial cells
81. Histology of serous cells
82. Goblet cells
83. Stenson duct
84. Alveolar bone proper
85. Bundle bone
86. Resting lines
87. Reversing lines
88. Osteoblasts, osteoclast, osteocytes
89. Bay like recess
90. Composition of bone
91. Osteon
92. Lamina dura
93. Howships lacunae
94. Osteoid
95. Internal reconstruction of bone
96. Centric occlusion
97. Key of occlusion
98. Compensatory curves of dental arches
99. Freeway space
100. Leeway space of nance
101. Curves of Wilson
102. Curve of spee
103. Theories of tooth eruption
104. Pre eruptive tooth eruption
105. Gubernacular cord and canal
106. Fibronexus
107. Histology of shedding
108. Odontoclasts
109. Theories of calcification
110. Write in brief histology of TMJ
111. Muscles of mastication
112. Anatomy of TMJ
113. Curve of spee
114. Functions of TMJ
115. Articular disc
116. Synovial membrane and synovial fluid
117. Decalcification of tissue specimens
118. Fixation of tissue specimen
119. Ground sections
120. Fixatives



121. Muscles of mastication
122. Deglutition
123. Oral and pharyngeal phase of deglutition
124. Functions of maxillary sinus
125. Histology of maxillary sinus
126. Goblet cells
127. Oro antral fistula

Long questions

1. Morphology of maxillary incisors
2. Morphology of mandibular incisors
3. Morphology of maxillary canines
4. Morphology of mandibular canines
5. Morphology of maxillary premolars
6. Morphology of mandibular premolars
7. Morphology of maxillary molars
8. Morphology of mandibular molars
9. Discuss amelogenesis in detail
10. Enumerate the stages in the life cycle of ameloblasts
11. Write in detail structure of enamel and add a note on clinical considerations
12. Morphological differences between the maxillary central and maxillary lateral
13. Morphological differences between the mandibular central and mandibular lateral
14. Morphological differences between the maxillary 1st premolar and maxillary 2nd premolar
15. Morphological differences between the mandibular 1st premolar and mandibular 2nd premolars
16. Morphological differences between the maxillary 1st molar and maxillary 2nd molar
17. Morphological differences between the mandibular 1st molar and mandibular 2nd molar
18. Describe dentinogenesis
19. Describe the theories of dentin hypersensitivity
20. Write in detail structure of enamel and add a note on clinical considerations
21. Morphological differences between the maxillary central and mandibular central incisors
22. Morphological differences between the maxillary and mandibular lateral incisors
23. Morphological differences between the maxillary canine and mandibular canine



24. Morphological differences between the maxillary 1st premolar and mandibular 1st premolar
25. Morphological differences between the maxillary 2nd premolar and mandibular 2nd premolar
26. Morphological differences between the maxillary 1st molar and mandibular 1st molar
27. Morphological differences between the maxillary 2nd molar and mandibular 2nd molar
28. Enumerate the zones of pulp, histology of dental pulp, add a note on blood vessels of pulp
29. Describe difference between acellular and cellular cementum
30. Describe the chemical and physical properties and classification of cementum
31. Describe the fibers of pdl and write about the synthetic and resorbative cells of pdl
32. Classify OMM and write in detail about histology of masticatory mucosa
33. Discuss light and ultra microscopic appearance of gingiva
34. Classify OMM describe light microscopic and ultra structural features of keratinized and non keratinized stratified squamous epithelium of oral mucosa
35. Discuss the formation of dento gingival junction
36. Define OMM, classify OMM, discuss the specialized mucosa of the oral cavity
37. Describe lining mucosa, add a note on gingival fibers
38. Shift of dento gingival junction and its clinical significance
39. Classify salivary glands, discuss serous and mucous salivary glands with a neat labelled diagram
40. Difference between serous and mucous salivary glands
41. Classify salivary glands and duct

Topics for seminar

- Topic 1. Development of mandible
- Topic 2. Development of tongue
- Topic 3. Chronology of deciduous teeth
- Topic 4. Life cycle of ameloblasts
- Topic 5. Amelogenesis
- Topic 6. Age changes in enamel
- Topic 7. Dentinogenesis
- Topic 8. Dentin hypersensitivity
- Topic 9. Types of dentin
- Topic 10. Cells of pulp
- Topic 11. Types of cementum
- Topic 12. Fibers of PDL
- Topic 13. Cells of PDL



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- Topic 14. Functions of PDL
- Topic 15. Classification of OMM
- Topic 16. Gingiva
- Topic 17. Keratinocytes and non keratinocytes
- Topic 18. Papilla of tongue
- Topic 19. Composition and function of saliva
- Topic 20. Classification of salivary glands
- Topic 21. Ductal system
- Topic 22. Alveolar bone proper
- Topic 23. Theories of tooth eruption
- Topic 24. Pattern of shedding
- Topic 25. Anatomy of maxillary sinus

Topic for group discussion

- Topic 1. Taste buds
- Topic 2. Papilla of tongue
- Topic 3. Structure of enamel
- Topic 4. Structure of dentin
- Topic 5. Zones of pulp
- Topic 6. Pulp stones
- Topic 7. Cement enamel junction
- Topic 8. Hypercementosis
- Topic 9. Sharpey's fibers
- Topic 10. Parakeratinized epithelium
- Topic 11. Orthokeratinized epithelium
- Topic 12. Skin
- Topic 13. Mucous acini
- Topic 14. Serous acini
- Topic 15. Haversian canal
- Topic 16. Lining of maxillary sinus

Staff In-charge

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Session Plan- III BDS (2023-2024)

Paper Title: Oral Pathology and Microbiology

Learning Outcomes:

At the end of the oral pathology and microbiology course, the student should be able to comprehend-

1. The different types of pathological processes that involve the oral cavity.
2. The manifestations of common diseases, their diagnosis and correlation with clinical and pathological processes.
3. An understanding of the oral manifestations of systemic diseases and correlating with systemic physical signs and laboratory findings
4. The student should understand the underlying biological principles governing treatment of oral diseases
5. The principles of certain basic aspects of forensic odontology.

Practical Skills:

1. Microscopic study of common lesions affecting oral tissues through microscopic slides and projection slides.
2. Study of disease process by surgical specimens.
3. Study of tooth anomalies through tooth specimens and plaster casts.
4. Microscopic study of plaque pathogens.

TEACHING-LEARNING PLAN

Units	Topic	Lecture Hours	Teaching Pedagogy	Resources
1. Benign and Malignant Tumours of the Oral Cavity	1.1 Benign tumours of epithelial tissue origin 1.2 Premalignant lesions and conditions 1.3 Malignant tumours of epithelial tissue origin 1.4 Benign tumours of connective tissue origin	Theory:30	ICT based lecture	T1 Chapter 4,5 T2Chapter 10,12 T3 Chapter 2,3,12,14 T4 Chapter 36 W1 W2 W3



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	Tumour like lesions of connective tissue origin 1.5 Malignant Tumours of Connective tissue origin 1.6 Benign Tumours of Muscle tissue origin 1.7 Benign and malignant tumours of Nerve Tissue Origin 1.8 Metastatic Tumours of Jaws and Soft Tissues of Oral Cavity			W4 W5
		Practical: 44	(i)Team teaching (ii)Seminar (iii)Tutorial (iv)Individual learning (v)ICT based demo (vi)Group Discussion (vi) Assignments	Hand outs Microscopic slides LCD Projector T7
2.Tumours of the salivary glands	2.1 Benign tumours of salivary glands 2.2 Malignant tumours of salivary glands 2.3 Non neoplastic enlargements of salivary glands	Theory:10	ICT based lecture	T1 Chapter 6 T2 Chapter 11 W6 W7
		Practical: 16	(i)Team teaching (ii)Seminar (iii)Tutorial (iv)Individual learning (v)ICT based demo (vi)Group Discussion (vi) Assignments	Hand outs Microscopic slides LCD Projector T7
3.Cysts of Odontogenic Origin & Pseudocysts	3.1 Introduction and classification of cysts of oral region 3.2 Odontogenic cysts 3.3 Pseudocysts	Theory:8	ICT based lecture	T1 Chapter 2 T2 Chapter 15 T3 Chapter 10 T5 W8
		Practical: 12	(i)Team teaching (ii)Seminar	Hand outs Microscopic slides

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			(iii)Tutorial (iv)Individual learning (v)ICT based demo (vi)Group Discussion (vi) Assignments	LCD Projector T7
4.Tumours of Odontogenic Origin	4.1 Classification of odontogenic tumours 4.2 Benign odontogenic tumours- Odontogenic epithelium without odontogenic ectomesenchyme 4.3 Benign odontogenic tumours- Odontogenic epithelium with Odontogenic ectomesenchyme with or without hard tissue Formation 4.4 Benign odontogenic tumours- Odontogenic ectomesenchyme with or without included Odontogenic epithelium 4.5 Malignant odontogenic tumours	Theory:9	ICT based lecture	T1 Chapter 3 T2 Chapter 15 T3 Chapter 11 T4
		Practical: 22	(i)Team teaching (ii)Seminar (iii)Tutorial (iv)Individual learning (v)ICT based demo (vi)Group Discussion (vi) Assignments	Hand outs Microscopic slides LCD Projector T7
5. Regressive alterations of teeth	5.1 Regressive alterations affecting enamel 5.2 Regressive alterations affecting dentin 5.3 Regressive alterations affecting pulp 5.4 Regressive alterations affecting cementum	Theory:2	ICT based lecture	T1 Chapter 20 T2 Chapter 2 T3 Chapter 16
		Practical: 2	(i) Group discussion	

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			(ii) Assignments	
6. Infections of the Oral cavity	6.1 Bacterial infections 6.2 Viral infections 6.3 Fungal infections	Theory:10	ICT based lecture	T1 Chapter 7,8,9 T2 Chapter 5,6,7 T3 Chapter 1,2,3 T4 Chapter 12, 13-18, 26
		Practical: 12	(i)Team teaching (ii)Seminar (iii)Tutorial (iv)Individual learning (v)ICT based demo (vi)Group Discussion (vi) Assignments	Hand outs Microscopic slides LCD Projector T7
7. Allergic and Immunological Diseases of the Oral cavity	7.1 Immunological Diseases 7.2 Allergic Diseases	Theory:2	ICT based lecture	T1 Chapter 18 T2 Chapter 9 T3 Chapter 2
		Practical:2	(i)Group Discussion (ii) Assignments	
8. Spread of Oral Infection	8.1 Cellulitis, Ludwig's Angina, Intra Cranial Complication of Dental Infection, Maxillary sinusitis 8.2 Focal Infection and foci of Infection	Theory:2	ICT based lecture	T1 Chapter 13 T2 Chapter 3
		Practical: 2	(i)Group Discussion (ii) Assignments	
9. Physical and Chemical Injuries of the Oral Cavity	9.1 Physical Injuries of Teeth 9.2 Physical Injuries of Bone 9.3 Physical Injuries of Soft tissues 9.4 Chemical Injuries of Oral Cavity 9.5 Effects of Radiation on bone and Oral Mucosa	Theory:5	ICT based lecture	T1 Chapter 21 T2 Chapter 8
		Practical: 4	(i)Group Discussion	

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			(ii) Assignments	
10. Biopsy, Cytology and Healing of Oral Wounds	10.1 Factors affecting the healing of wounds. Healing of Extraction Wound . 10.2 Healing of Fracture 10.3 Biopsy 10.4 Cytology 10.5 Re-Implantation and Transplantation of Teeth	Theory:5	ICT based lecture	T1 Chapter 22 T2 Chapter 3 W10
		Practical: 4	(i) Group Discussion (ii) Assignments	
11. Disease of Bone	11.1 Genetic diseases of bone 11.2 Fibro-Osseous Lesions 11.3 Diseases of bone with unknown Etiology 11.4 Disorders of the Temporomandibular Joint	Theory:8	ICT based lecture	T1 Chapter 14 T2 Chapter 14 T3 Chapter 12,18
		Practical: 8	(i) Team teaching (ii) Seminar (iii) Tutorial (iv) Individual learning (v) ICT based demo (vi) Group Discussion (vi) Assignments	Hand outs Microscopic slides LCD Projector T7
12. Blood Dyscrasias	12.1 Diseases involving red blood cells 12.2 Diseases involving white blood cells 12.3 Diseases involving platelets 12.4 Diseases involving specific factors	Theory:4	ICT based lecture	T1 Chapter 15 T2 Chapter 13
		Practical:4	(i) Team teaching (ii) Seminar (iii) Tutorial (iv) Individual learning (v) ICT based demo (vi) Group	Hand outs Microscopic slides LCD Projector T7

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			Discussion (vi) Assignments	
13. Periodontal Disease	13.1 Introduction 13.2 Gingival diseases 13.3 Periodontal diseases	Theory:5	ICT based lecture	T1 Chapter 12 T2 Chapter 4
		Practical: 4	(i)Group Discussion (ii) Assignments	
14. Diseases of Skin	14.1 Hereditary skin diseases 14.2 Immune-mediated skin diseases	Theory:10	ICT based lecture	T1 Chapter 16 T2 Chapter 16 T3 Chapter 1
		Practical: 6	(i)Team teaching (ii)Seminar (iii)Tutorial (iv)Individual learning (v)ICT based demo (vi)Group Discussions (vii) Assignments	Hand outs Microscopic slides LCD Projector T7
15. Defense Mechanisms of the Oral Cavity	15.1 Defense mechanisms	Theory:1	ICT based lecture	W11 W12
16. Introduction to Forensic Odontology	16.1 Introduction, definition 16.2 Dental Age estimation 16.3 Personal identification 16.4 Bite marks, rugae pattern and lip prints	Theory:2	ICT based lecture	T1 Chapter 23 T2 Chapter 19
		Practical: 6	(i)Team teaching (ii)Seminar (iii)Tutorial (iv)Individual learning (v)ICT based demo (vi)Group Discussion	

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			(vii) Assignments	
17.Oral Aspects Of Metabolic Disease	17.1 Oral Aspects of Disturbances in Mineral Metabolism 17.2 Oral Aspects of Avitaminoses and Hypervitaminoses 17.3 Oral Aspects of Disturbances in Hormone Metabolism	Theory:3	ICT based lecture	T1 Chapter 19 T2 Chapter 17 T3 Chapter 15
		Practical: 4	(i)Group Discussion (ii) Assignments	
18.Diseases of Nerves	18.1 Trigeminal neuralgia, sphenopalatine neuralgia 18.2 Frey's syndrome, burning mouth syndrome.	Theory:2	ICT based lecture	T1 Chapter 17 T2 Chapter 18
		Practical: 2	(i)Group Discussion (ii) Assignments	
19. Oral Microbiology	19.1 Normal Oral Microbial Flora 19.2 Microbiology of Dental Caries 19.2 Microbiology of Periodontal diseases 19.3 Microbiology of Oral Infections	Theory: 1	ICT based lecture	W13
		Practical: 2	(i)Group Discussion (ii) Assignments	

Resources:

• **Textbooks**

T1.Shafer's Text Book of Oral Pathology by R. Rajendran & B. Shivapathasundaram. 9th Edition

T2. Textbook of Oral and Maxillofacial Pathology by Neville, Damm. Allen, Bouquot. 5th edition.

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T3: Oral Pathology Clinical Pathologic Correlation by Regezi & Sciuba. 7th Edition.

T4: S R Prabhu & Daftary. Oral diseases of the tropics. 2016.

T5: Cysts of the oral and maxillofacial Region. Mervyn Shear and Paul.M.Speight. 4th edition.

T6: Peter.A.Reichert, Hans P.Philipsen: Odontogenic tumors and allied lesions.

T7: Colour Atlas of oral diseases. Roderick A Cawson. 2nd edition

- **Web links**

W1: <https://www.drteethacademy.com/>

W2: <https://www.hackdentistry.com/bundles/videos>

W3: Nomenclature and classification of potentially malignant disorders of the oral mucosa - PubMed (nih.gov)

W4: Histological grading of oral epithelial dysplasia: revisited - Warnakulasuriya - 2001 - The Journal of Pathology - Wiley Online Library

W5: Staging and grading of oral squamous cell carcinoma: An update - PubMed (nih.gov)

W6: Histogenesis of salivary gland neoplasms Dwivedi N, Agarwal A, Raj V, Chandra S - Indian J Cancer

W7: Histogenetic and Morphogenetic Concepts of Salivary Gland Neoplasms (ijsr.net)

W8: Identification of an Odontogenic Keratocyst and Treatment with Guided Tissue Regeneration: Case Report | jcda

W9: Update from the 4th Edition of the World Health Organization Classification of Head and Neck Tumours: Odontogenic and Maxillofacial Bone Tumors - PubMed (nih.gov)

W10: The replantation and transplantation of teeth. A review - PubMed (nih.gov)

W11: Uttarakhand State Dental Journal Vol. 2 Issue 1, March 2017 (wordpress.com)

W12: (PDF) Oral defense mechanisms (researchgate.net)

W13: (PDF) Oral Microbial Flora in Health (researchgate.net)

Question Bank

- **Short answer questions**

1. Clinical and histological features of papilloma.

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2. Osteosarcoma
3. Fibroma
4. Epithelial dysplasia
5. Grading and staging of OSCC.
6. Keratoacanthoma
7. Frictional keratosis
8. Reed Sternberg cells
9. Erythroplakia
10. TNM staging
11. Clinical feature and histological feature of fibroma
12. Neurofibromatosis
13. Nevus
14. Cementoblastoma
15. Etiopathogenesis of ABC
16. Hodgkin's and non Hodgkin's lymphoma
17. Burkitts lymphoma
18. Nevoid basal cell carcinoma
19. Carcinoma in situ
20. Histopathology of OSMF
21. Histopathology of OSCC
22. Hodgkin's lymphoma
23. CGCG
24. Neurofibroma
25. Odontomes
26. Fibroma
27. Blue nevi
28. Lymphangioma
29. Teratoma
30. PGCG
31. Capillary and cavernous hemangioma
32. Enumerate features of epithelial dysplasia
33. Von Recklinghausen a disease of skin
34. Premalignant conditions
35. Stag horn pattern
36. Cart wheel pattern
37. Reed Sternberg cells
38. Starry sky appearance
39. Hematoma
40. Histopathology of schwannoma
41. Causes of recurrence of OKC.
42. Etiopathogenesis of ABC.
43. Labelled Histopathological diagram of plexiform ameloblastoma.
44. AOT - radiographic features and histopathology.
45. Histopathologic variants of ameloblastoma.
46. Histopathology of OKC.
47. Odontomes.
48. Histopathology of radicular cyst.
49. Histopathology of dentigerous cyst.

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50. Pindborg 's tumour.
51. Traumatic bone cyst.
52. Causes of recurrence of OKC.
53. Etiopathogenesis of ABC.
54. Labelled Histopathological diagram of plexiform ameloblastoma.
55. AOT - radiographic features and histopathology.
56. Histopathologic variants of ameloblastoma.
57. Histopathology of OKC.
58. Odontomes.
59. Histopathology of radicular cyst.
60. Histopathology of dentigerous cyst.
61. Pindborg's tumour.
62. Traumatic bone cyst.
63. Unicystic ameloblastoma.
64. Parasitic cysts.
65. Ameloblastic fibroma.
66. Radiographic features and histopathology of DC.
67. CEOT.
68. Ameloblastic fibroma.
69. COC
70. Define cyst.
71. Enumerate lesions in which ghost cells are seen.
72. What is pseudocyst. Name 2 pseudocyst.
73. Epstein pearls, Bohn's nodules.
74. Phases of cyst formation.
75. Mucoepidermoid carcinoma.
76. Xerostomia.
77. Write pathogenesis and histopathology of pleomorphic adenoma.
78. Discuss sialolithiasis.
79. Warthin's tumour.
80. Mucous extravasation phenomenon.
81. Sjogren's syndrome.
82. Mixed tumour.
83. Histopathology of adenoid cystic carcinoma.
84. Mucous retention cyst.
85. Histopathology of mucoepidermoid carcinoma.
86. Histopathology of Warthin's tumour.
87. Clinical features of Sjorgren's syndrome.
88. Ranula.
89. Describe pathogenesis of warthin's tumour.
90. Xerostomia
91. Swiss cheese pattern.
92. Cherry blossom appearance.
93. Sialolith.
94. Lichen planus
95. Clinical and Histopathological features of pemphigus
96. Oral pemphigus
97. Hereditary ectodermal dysplasia

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98. White sponge nevus
99. Scleroderma
100. Pathogenesis of lichen planus
101. CREST syndrome
102. Tzanck cell
103. Auspitz sign
104. Civatte bodies
105. Raynauds phenomenon
106. Tzanck test
107. Saw tooth appearance
108. Bulls eye
109. Nikolsky's sign
110. Bite marks
111. Importance of palatal rugae pattern in forensic dentistry
112. Lip prints
113. Age estimation method
114. Sequelae of dental caries
115. Histopathological features of radicular cyst /periapical cyst
116. Chronic hyperplastic pulpitis/pulp polyp
117. Garre's osteomyelitis
118. Periapical granulom
119. Acute pulpitis
120. Pathogenesis of radicular cyst
121. Chronic focal sclerosing osteomyelitis
122. Pheonix abscess.
123. Cholestrol clefts
124. Pheonix abscess
125. Sequestrum
126. Types of pulpitis
127. Anachorectic pulpitis
128. Garre's osteomyelitis
129. Types of osteomyelitis
130. Hyperemia of pulp
131. Granuloma
132. Rushton bodies
133. Clinical features of reversible pulpitis
134. Clinical features of acute pulpitis
135. Sequestrum and involucrum
136. Oral thrush
137. Scarlet fever
138. Actinomycosis
139. Syphilis
140. Herpes zoster
141. Oral manifestation of syphilis
142. Oral manifestation of herpes labialis
143. Lab finding and oral manifestation of iron deficiency anemia
144. Types of oral candidiasis
145. Acute pseudomembraneous candidiasis

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146. Lab diagnosis of oral candidiasis
147. Paul bunnel test
148. HIV
149. Ray fungus
150. Treponema pallidumpyogenic granuloma
151. Fusiform bacilli
152. Lipshutz bodies
153. Sulphar granules
154. Identification of candid organism
155. Ballooning degeneration
156. Raspberry tongue
157. Candida albicans
158. Exfoliative cytology
159. Biopsy
160. Types and procedure of biopsy
161. Interpretation of exfoliative cytology
162. James Ramsay Hunt syndrome
163. Albright syndrome
164. Sjogren's syndrome
165. Pierre robin syndrome
166. Plummer Vinson syndrome
167. Marfan syndrome
168. Papillon efevre syndrome
169. Myofacial pain dysfunction syndrome
170. Clinical feature of Treacher Collins syndrome
171. Treacher collins syndrome
172. Merlkersson rosenthal syndrome
173. Pierre robin syndrome
174. Gorlin goltz syndrome
175. Grinspan's syndrome
176. Garden's syndrome
177. Crest syndrome
178. Steven johnson syndrome
179. Ascher syndrome
180. Vander woude's syndrome
181. Eagle's syndrome
182. Apert's syndrome
183. Cherry blossom appearance
184. Treacher collin syndrome
185. Myofacial pain dysfunction syndrome
186. Trigeminal neuralgia
187. Bells Palsy
188. Tic doloureux
189. Trigger zones
190. Crocodile tears
191. Crowe's sign
192. Alarm clock headache.
193. Aphthous ulcer

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194. Recurrent aphthous ulcer
195. Anug
196. Gingival hyperplasia
197. Dental plaque
198. Pregnancy tumor
199. Herpetic gingival stomatitis
200. Factors affecting wound healing
201. Healing of extraction socket
202. Dry socket
203. Bruxism
204. Attrition
205. Abrasion
206. Erosion
207. Plumbism
208. Pink tooth of mummery
209. Acrodynia
210. Swift's disease (pink disease)
211. Erosion
212. Bruxism
213. Hypercemetosis
214. Osteoradionecrosis
215. Cyclic neutropenia
216. Sick cell anaemia
217. Cooleys anaemia
218. Bence jones protein
219. Raynaud's phenomenon
220. Anemia
221. Hair on end appearance
222. Lab findings of iron deficiency anaemia
223. Purpura
224. Types of leukemia
225. Hemophilia
226. Polycythemia
227. Hyperparathyroidism
228. Brown tumor
229. Ludwigs angina
230. Foci of infection
231. Cellulitis
232. Definition of focus of infection
233. Cumulus cloud
234. Fish net pattern

• Long answer questions

1. Enumerate the benign and malignant tumours of epithelial origin. Discuss in detail etiopathogenesis, clinical features and histopathology of OSCC.

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2. Enumerate premalignant conditions. Discuss in detail etiopathogenesis and histopathology of OSMF. Write in detail etiology, clinical features and histopathology of OSMF.
3. Enumerate non-odontogenic benign epithelial neoplasms. write the etiology, clinical features of the same.
4. Enumerate giant cell lesions. Write in detail pathogenesis and histopathology of ABC.
5. Define leukoplakia. Add a note on its malignant potential.
6. Enumerate non-odontogenic malignant epithelial neoplasm. Write in detail the clinical features and histopathology of SCC.
7. Mention non odontogenic malignant tumours of epithelial tissues oral mucosa. Describe Clinical features and histopathology of verrucous carcinoma.
8. Enumerate benign odontogenic tumours. Write in detail the clinical feature, radiographic features and histopathology of follicular ameloblastoma.
9. Classify odontogenic cysts. Write in detail the clinical features, radiographic features and histopathology of dentigerous cysts.
10. Classify cysts of orofacial region. Describe in detail OKC. Add a note on Causes of recurrence of OKC.
11. Classify odontogenic cysts. Describe pathogenesis, clinical features. Radiographic features and histopathology of radicular cyst.
12. Classify odontogenic tumours. Write in detail clinical features, radiographic features and histopathology of ameloblastoma.
13. Classify cysts of maxillofacial region. Write in detail about pathogenesis. Clinical features, radiographic features and histopathology of apical periodontal cyst.
14. Enumerate non-neoplastic enlargement of salivary glands and discuss in detail Sjogren's syndrome.
15. Enumerate benign salivary gland tumours. Describe pathogenesis, clinical features and histopathology of pleomorphic adenoma.
16. Enumerate malignant salivary gland tumours. Write in detail about muco-epidermoid carcinoma.
17. Classify salivary gland neoplasms. Write in detail about pleomorphic adenoma.
18. Classify tumours of salivary glands. Write in detail about adenoid cystic carcinoma.
19. Enumerate mucocutaneous lesions, write in detail about pemphigus
20. Enumerate mucocutaneous diseases affecting oral mucosa. Discuss in detail pathogenesis, clinical and Histopathological features of pemphigus
21. Describe etiopathogenesis. clinical feature. Radiographic feature and histopathological feature of acute osteomyelitis
22. Classify pulpitis. Discuss and differentiate the types. Write the sequelae of Dental caries. Write about periapical granuloma
23. Classify viral lesions. discuss about oral herpes simplex virus infection
24. Enumerate the bacterial lesions seen in the oral cavity. Write in detail about herpes simplex infection



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25. Describe the etiopathogenesis. Clinical feature and management of pulmonary tuberculosis
26. Define healing, repair and regeneration. Describe the healing of an extraction wound.
27. Factors affecting oral wounds and mention its complication.
28. Enumerate the factors affecting healing of oral wound and describe the healing of extraction wound

Topics for Seminar

- Topic 1:** Development disturbances affecting teeth
- Topic 2:** Premalignant lesions
- Topic 3:** Histological variants of Squamous Cell Carcinoma
- Topic 4:** Immunohistochemical profile of epithelial and non-epithelial tumours.
- Topic 5:** Various grading systems for Oral Squamous Cell Carcinoma
- Topic 6:** Epithelial dysplasia
- Topic 7:** Orthokeratinized Odontogenic cyst and Odontogenic keratocyst
- Topic 8:** Fissural cysts
- Topic 9:** Primary intraosseous squamous cell carcinoma
- Topic 10:** Metastatic tumours of the jaws
- Topic 11:** Fibro-osseous lesions
- Topic 12:** Lab investigations for Bacterial, viral and fungal infections.
- Topic 13:** Forensic Odontology

Topics for Group discussion

- Topic 1:** Oral Nevus
- Topic 2:** Oral submucous fibrosis
- Topic 3:** Verrucous carcinoma
- Topic 4:** Oral squamous cell carcinoma
- Topic 5:** Pleomorphic Adenoma and Carcinoma ex- pleomorphic adenoma
- Topic 6:** Adenoid cystic carcinoma
- Topic 7:** Mucoepidermoid carcinoma
- Topic 8:** Warthin's tumour
- Topic 9:** Aneurysmal bone cyst
- Topic 10:** Calcifying odontogenic cyst
- Topic 11:** Unicystic ameloblastoma
- Topic 12:** Calcifying epithelial odontogenic tumour
- Topic 13:** Adenomatoid odontogenic tumour
- Topic 14:** Ameloblastic fibroma
- Topic 15:** Odontoma

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Topic 16: Fibrosarcoma and osteosarcoma

Topic 17: Radicular cyst

Topic 18: Recurrent Aphthous Stomatitis

Topic 19: Angioedema


Topic 20: Osteoradionecrosis


Topic 21: Fibrous dysplasia

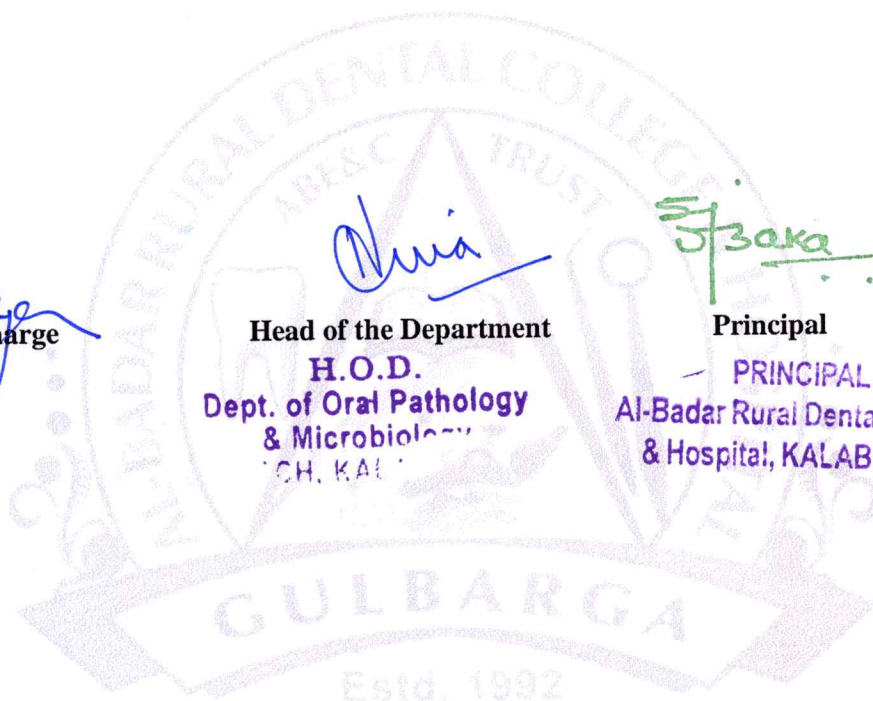
Topic 22: Paget's disease

Topic 23: Oral Lichen Planus


Staff In-charge


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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

IIIRD YEAR BDS - Part I (2023-2024)

Theory Session Plan

Learning outcomes:

At the end of the session the student should have :

- L1.** Knowledge of Surgical Anatomy of Trigeminal Nerve
- L2.** Acquired knowledge and understanding of etiology, patho-physiology, diagnosis and treatment planning of various localised Odontogenic pathologies.
- L3.** Understood the general surgical principles, including pain management.
- L4.** Acquired in depth knowledge of Local Anesthesia, Local anesthetic blocks, Prevention and management of complications and briefly about general anesthesia
- L5.** Acquired knowledge of infection control, prevention of cross infection and hospital waste management
- L6.** Acquired knowledge of Medical Emergencies, their prevention & management and management of Medically Compromised Patients



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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

Teaching-Learning plan

SL NO	TOPICS	LECTURE HOURS	TEACHING PEDAGOGY	RESOURCES
01	Trigeminal Nerve	1hr	lecture	T1 (Chp 2) T18 (chap 4) T19 (chp12)
02	Pain Pathway	1hr	lecture	T1(Chp 1)
03	Local Anesthesia	5hrs	lecture	T1 (Chp3) T6(Chp 5-20)
04	Maxillary And Mandibular Nerve Blocks	4hrs	lecture	T1 (Chp4) T18 (Chp16)
05	Exodontia	4hrs	lecture	T13 (chap 1) T18 (chap 18)
06	Principles Of Surgery	4hrs	lecture	T20 (Chp3) T12 (Chp1) T18 (Chp1)
07	Medical Emergencies And Medically Compromised Patients	6hrs	lecture	T6 T21
08	General Anesthesia	2hrs	lecture	T1 (Chp9) T12 (Chp 21) T18 (Chp18)



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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

RESOURCES

TEXTBOOKS:

T1	Monheim's	Textbook of Local Anesthesia and pain control in dental practice 7 th edition
T2	Stanely F Malamed	Handbook of Local Anesthesia 7 th edition
T3	Alling John F et al	Impacted teeth
T4	Peterson L J et al	Principles of Oral and Maxillofacial Surgery Vol 1, 2 & 3
T5	Srinivasan B	Textbook of Oral and Maxillofacial Surgery
T6	Malamed S F	Handbook of medical emergencies in the dental office 7 th edition
T7	Banks P	Killey's fracture of mandible
T8	Banks P	Killey's fracture of middle third of the facial skeleton
T9	OMFS Clinics of North America	The Maxillary sinus 1 st edition
T10	Seward G R et al	Killey and Kays outline of oral surgery Part I
T11	Mc Carthy F M	Essentials of safe dentistry for the medically compromised patients 2 nd edition
T12	Laskin D M	Oral and Maxillofacial Surgery 2 edition
T13	Howe G L	Extraction of teeth
T14	Howe G L	Minor oral surgery
T15	Peterson I J et al	Contemporary Oral and Maxillofacial Surgery 7 th edition
T16	Topazian R G & Goldberg M H	Oral and Maxillofacial infections 4 th edition
T17	Scully and Cawson	Medical problems in dentistry 7 th edition
T18	Neelima Anil Malik	Textbook of Oral & Maxillofacial Surgery, 5 th edition
T19	BD Chaurasia	Human Anatomy 7 th Addition
T20	Peterson Ellis	Contemporary Oral Maxillofacial Surgery 4 th edition
T21	James W Little	Dental Management Of Medically Compromised Patient 2017



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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

WEB LINKS:

- W1. MCQ on medically compromised dental patients – Dentosphere : World of Dentistry <https://youtu.be/3SEofSo83Iw>
- W2. Medical emergencies in dental practice – MS Dental lectures - <https://youtu.be/6gkd3RR9-8Y>
- W3. LA in Oral and Maxillofacial Surgery – Youtube – Dental Pathshala <https://youtu.be/8Ia5SdDPoYM>
- W4. Different anesthesia options for dental and oral surgery – Youtube <https://youtu.be/VqWXttFnaLI>
- W5. Specific extraction technique for each tooth – Youtube – Leeds School of Dentistry <https://youtu.be/Usu5pTTz2SY>
- W6. Impacted wisdom teeth – Youtube – MS Dental lectures <https://youtu.be/O5iPDUXaxIc>

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Head of the Dept

**Curriculum
Committee
Coordinator**
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ARDCH, KALABURAGI

IQAC Coordinator
INTERNAL QUALITY ASSURANCE CELL
CO-ORDINATOR
ARDCH, KALABURAGI

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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

IVRD YEAR BDS (2023-2024) BATCH

Theory Session Plan -Part I

Learning outcomes:

At the end of the session the student should have.

L1. Knowledge of Surgical Anatomy of orofacial region.

L2. acquired knowledge and understanding of etiology, patho-physiology, diagnosis and treatment planning of various oral and maxillofacial cases of congenital anomalies, trauma and pathologies of orofacial region

L3. understood the general surgical principles, including pain management.

L4. Student should have acquired knowledge of infection control, prevention of cross infection and hospital waste management

TEACHING-LEARNING PLAN

UNIT	SL NO.	TOPIC	LECTURE HOURS	TEACHING PEDAGOGY	RESOURCES
II	01	Impaction	5hrs	Lecture	T12 (Chp5) T10 (Chp2) T16(Chp10)
	02	Endodontic Surgery	1hr	Lecture	T10 (Part 1, Chp 5) T12 (Chp12)
	03	Infections Of The Oral Cavity	4hrs	Lecture	T14and T17 T10 (Chp 7-8)
	04	Cystic Lesions Of Jaw	3hrs	Lecture	T10 (Chap 12) T18
	05	Oral Implantology	2hrs	Lecture	T16
	06	Ethics	1hr	Lecture	
	07	Pre-Prosthetic Surgery	2hrs	Lecture	T19T10 (CHP 9) T16(Chp 34 & 48)
	08	Diseases Of Maxillary Sinus	2hrs	Lecture	T20 (chp19) T16 (chp 19)
	09	TMJ Disorders	5hrs	Lecture	T21 (Chp 8) T20 (Chp 28) T16 (Chp 21)



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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

RESOURCES

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T3	Srinivasan B	Textbook of Oral and Maxillofacial Surgery
T4	Malamed S F	Handbook of medical emergencies in the dental office 7 th edition
T5	Banks P	Killey's fracture of mandible
T6	Banks P	Killey's fracture of middle third of the facial skeleton
T7	OMFS Clinics of North America	The Maxillary sinus 1st edition
T8	Seward G R et al	Killey and Kays outline of oral surgery Part I
T9	McCarthy F M	Essentials of safe dentistry for the medically compromised patients 2 nd edition
T10	Laskin D M	Oral and Maxillofacial Surgery 2 st edition
T11	Howe G L	Extraction of teeth
T12	Howe G L	Minor oral surgery
T13	Peterson I J et al	Contemporaray Oral and Maxillofacial Surgery 7 edition
T14	Topazian R G & Goldberg M H	Oral and Maxillofacial infections 4 th edition
T15	Scully and Cawson	Medical problems in dentistry 7 th edition
T16	Neelima Anil Malik	Textbook of Oral & Maxillofacial Surgery 5 th edition
T17	Golbarg M H	Oral Surgery
T18	Mervyn Shear Speight	Cysts Of Oral maxillofacial regions 4 th edition
T19	Starshak	Preprosthetic Surgery
T20	Peterson Ellis	Contemporary Oral Maxillofacial Surgery 4 th edition
T21	Jeffrey P Okaeson	TMJ Disorders



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WEB LINKS

- W1. MCQ on medically compromised dental patients – Dentosphere : World of Dentistry <https://youtu.be/3SEofSo83Iw>
- W2. Medical emergencies in dental practice – MS Dental lectures - <https://youtu.be/6gkd3RR9-8Y>
- W3. LA in Oral and Maxillofacial Surgery – Youtube – Dental Pathshala <https://youtu.be/8Ia5SdDPoYM>
- W4. Different anesthesia options for dental and oral surgery – Youtube <https://youtu.be/VqWXtFnaLI>
- W5. Specific extraction technique for each tooth – Youtube – Leeds School of Dentistry <https://youtu.be/Usu5pTTz2SY>
- W6. TMJ Dislocation/Subluxation Etiopathogenesis & clinical features – Youtube – MS Dental lectures - <https://youtu.be/CGwwwWULJCI>
- W7. Impacted wisdom teeth – Youtube – MS Dental lectures <https://youtu.be/O5iPDUXaxIc>
- W8. Basics of dental implants – Youtube – Dental Pathshala - <https://youtu.be/L4hGJD4zxcc>
- W9. Oral cancer – Causes, Symptoms, Diagnosis, Treatment and Pathology – Osmosis.org - <https://youtu.be/aTve7KM04EY>
- W10. Trigeminal Neuralgia – Youtube – MS Dental lectures - <https://youtu.be/pci7kBU9h94>
- W11. Spread of infection in fascial spaces – Youtube – Dental Pathshala - <https://youtu.be/7IKzTIzFKYw>
- W12. Maxillary sinus diseases – Youtube – Dental Flossophers - <https://youtu.be/Mj77WYoJLkI>
- W13. Mandibular fracture – Youtube – Dr Teeth - <https://youtu.be/1bHncoTMt-w>
- W14. Lefort fractures – Youtube – Dr Teeth - <https://youtu.be/t6tUThsvE4M>

Staff Incharge

Head of the Dept

**Curriculum Committee
Coordinator**
CURRICULUM COMMITTEE
ARDCH, KALABURAGI

IQAC Coordinator
INTERNAL QUALITY ASSURANCE CELL
CO-ORDINATOR
ARDCH, KALABURAGI

Principal
PRINCIPAL
Al-Badar Rural Dental College
& Hospital, KALABURAGI



DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

IVRD YEAR BDS (2023-24) BATCH

Theory Session Plan -Part II

Learning outcomes:

At the end of the session the student should have :

L1. Knowledge of Surgical Anatomy of orofacial region.

L2. acquired knowledge and understanding of etiology, patho-physiology, diagnosis and treatment planning of various oral and maxillofacial cases of congenital anomalies, trauma and pathologies of orofacial region

L3. understood the general surgical principles, including pain management.

L4. Student should have acquired knowledge of infection control, prevention of cross infection and hospital waste management

Teaching-Learning plan

<u>Unit</u>	<u>SL NO.</u>	<u>TOPIC</u>	<u>LECTURE HOURS</u>	<u>TEACHING PEDAGOGY</u>	<u>RESOURCES</u>
II	10	Tumors Of The Oral Cavity	5hrs	Lecture	T10 (Chp 13-16) T16 (Chp 47)
	11	Maxillofacial Trauma	9hrs	Lecture	T17(Part 3) T18 (vol-1, Chp 1-18) T10 (Chp7-9) T16 (Chp27-33)
	12	Developmental Deformities	4hrs	Lecture	T16 T19
	13	Salivary Gland Disorders	3hrs	Lecture	T16 (Chp 37) T20 (Vol 5)
	14	Neurologic Disorders	3hrs	Lecture	T21 (Chp 28) T16 (Chp 42-46)
	15	Cleft Lip And Palate	4hrs	Lecture	T18 (Vol 2, Chp3) T20 (Chp 26) T16 (Chp38)
	16	LASERS	1hr	Lecture	T22
	17	OSMF	1hr	Lecture	T10 (Part 7, Chp 13) T16(Chp 47)
	18	Cryosurgery	2hrs	Lecture	T16



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RESOURCES

TEXTBOOKS:

T1	Alling John F et al	Impacted teeth
T2	Peterson L J et al	Principles of Oral and Maxillofacial Surgery Vol 1, 2 & 3
T3	Srinivasan B	Textbook of Oral and Maxillofacial Surgery
T4	Malamed S F	Handbook of medical emergencies in the dental office 7 th edition
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T16	Neelima Anil Malik	Textbook of Oral & Maxillofacial Surgery 5 th edition
T17	Banks P	Fractures Of Middle Third Of Facial Region
T18	Peter Ward Booth	Maxillofacial Trauma and Esthetic Facial Reconstruction
T19	George Dimitroulis	Illustrated Lecture Notes in Oral & Maxillofacial Surgery
T20	Fonseca	Oral and Maxillofacial Surgery: Elsevier Ebook on VitalSource. by Raymond J. Fonseca 17 January 2018
T21	Peterson Ellis	Contemporary Oral Maxillofacial Surgery 4 th edition
T22	Robert A.Convissar	Principles and Practice of Laser Dentistry



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- W11. Spread of infection in fascial spaces – Youtube – Dental Pathshala - <https://youtu.be/7IKzTIzFKYw>
- W12. Maxillary sinus diseases – Youtube – Dental Flossophers - <https://youtu.be/Mj77WYoJLkI>
- W13. Mandibular fracture – Youtube – Dr Teeth - <https://youtu.be/1bHncoTMt-w>
- W14. Lefort fractures – Youtube – Dr Teeth - <https://youtu.be/t6tUThsvE4M>



DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

QUESTION BANK

Topic wise distribution of previously occurred questions for IV B.D.S

1. Dento- alveolar surgery-

- 1) Indications of extraction. (July 2017, RS 3)5 M
- 2) Sedation. (July 2017, RS 3)5 M
- 3) Overdose reaction of Local anaesthesia. (July 2017, RS 3)2 M
- 4) Maxillary nerve branches. (July 2017, RS 3)2 M
- 5) Write about inferior alveolar nerve block techniques. (July 2017, RS 3) 2 M
- 6) Autoclave. (July 2017, RS 3)2 M
- 7) Classify impaction of 3rd molar and write about clinical features and management.
(July 2018, RS 3)10 M
- 8) Complications of tooth extraction. (July 2018, RS 3)5 M, (Dec 2010, RS) 5M,
(APR 2024 RS3) 5M
- 9) Classify local anaesthetic agents. (July 2018. RS 3)5 M
- 10) Technique of posterior superior alveolar block. (July 2018, RS 3)2M
- 11) Mandibular nerve. (July 2018, RS 3)2 M
- 12) War lines. (Dec 2013, RS 3)5 M
- 13) Technique for inferior alveolar nerve block. (Dec 2013, RS 3) 5 M
- 14) Course of maxillary nerve and describe in detail about the infra orbital nerve
block. (Dec 2013)10 M
- 15) Transalveolar extraction. (Dec 2013, RS 2)5M, (Dec 2010, RS, RS 2)5 M, (DEC
2016 RS3) 5M
- 16) Classification of impacted maxillary canine and write its radiographic assessment
in detail. (Dec 2013, RS 2)5 M
- 17) Indications of G.A in oral surgery, write in detail about ketamine.
(Dec 2013, RS 2)5 M
- 18) Lasers. (Dec 2013, RS 2)2M, (DEC 2011 RS2) 2M
- 19) Vasoconstrictors. (Dec 2013, RS 2)2 M
- 20) Sterilization, (Dec 2013, RS 2)2 M



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- 21) Principles of tooth extraction. (Dec 2013, RS 2) 2 M, (DEC 2014 RS3) 5M, (DEC 2018 RS3) 5M
- 22) Define local anaesthetics. Enumerate the various inferior alveolar nerve block techniques. Discuss the conventional technique. (June 2013, RS 3)10 M, (June 2010, RS)5 M
- 23) Anatomy of trigeminal nerve. (2013, RS 3)5 M
- 24) Indications and contraindications of extraction. (June 2013, RS 3)5 M
- 25) Principles of flap design. (June 2013, RS 3)5M, (dec 2010, RS)5 M
- 26) Composition of local anaesthetic solution, discuss the mode of action of lignocaine hydrochloride. (June 2013, RS 2)10 M
- 27) Give various classifications of impacted lower third molar. How will you remove a horizontally impacted lower third molar tooth. (June 2013, RS 2)10 M, (dec 2010, RS) 5 M
- 28) Principles of elevators in oral surgery. (June 2013, RS 2)5 M, (Jun 2011, RS)5M, (dec 2010, RS 2)5 M, (JULY 2016 RS3) 2M
- 29) Signs and stages in general anaesthesia. (June 2013, RS 2)5 M
- 30) Corticosteroids. (June 2013, RS 2)5 M, (June 2010, RS)5 M
- 31) Valvular heart disease. (June 2013, RS 2)2 M
- 32) Lingual nerve. (June 2013, RS 2)2 M
- 33) Electrocautery. (June 2013, RS 2)2 M, (DEC 2018 RS3) 2M
- 34) Define local anaesthesia. Write about mechanism of action and ideal requirements of local anaesthesia. (Dec 2011, RS 2)10 M, (June 2011, RS 2)5 M
- 35) Autoclave. (June 2013, RS 2) 2 M, (dec 2010, RS 2)5 M
- 36) Intravenous anaesthesia. (Dec 2011, RS 2)5 M
- 37) Types of mucoperiosteal flaps. (Dec 2011, RS 2)5 M
- 38) Cartridges. (Dec 2011, RS 2)2 M
- 39) Antiseptics. (Dec 2011, RS 2)2 M
- 40) Tooth transplantation. (Dec 2011, RS 2)2 M
- 41) Lasers in oral surgery (DEC 2016 RS3) 5M
- 42) Toxic dose of local anaesthesia. (Dec 2011, RS 2)2 M
- 43) Dry socket and its management. (June 2011, RS)5 M
- 44) Theories of local anaesthesia. (June 2011, RS)5 M



- 45) Classification of canine impaction. (June 2011, RS)5 M
- 46) Local Anaesthesia (DEC 2016 RS3) 5M
- 47) Cephalosporins. (June 2011, RS)5 M, (June 2013, RS 3)5 M
- 48) Premedication (June 2011, RS)5 M
- 49) Describe in detail the complications of extractions, their prevention and management. (June 2011, RS 2)10 M
- 50) Infraorbital nerve block. (June 2011, RS 2)5 M
- 51) Suture materials. (June 2011, RS 2)5 M, (JULY 2015 RS3) 5M, (JULY 2019 RS3) 2M
- 52) Systemic complications of local anaesthesia. (Dec 2011, RS)5 M
- 53) Gate control theory. (Dec 2010, RS)2 M
- 54) NSAIDS. (DEC 2010, RS)2 M
- 55) Local and systemic complications of local anesthesia. (Dec 2010, RS 2, June 2010, RS)10 M, 2M
- 56) Role of muscle relaxant in general anaesthesia. (Dec 2010, RS)5 M
- 57) Order of extraction. (Dec 2010, RS 2)5 M
- 58) Absorbable sutures. (Dec 2010, RS 2)2 M
- 59) Eutectic mixture of local anaesthesia. (Dec 2010, RS 2)2 M
- 60) Color coding employee in waste disposal. (Dec 2010, RS 2)2 M
- 61) Classify suture materials. Principles of suturing and technique of suturing. (June 2010, RS) 10 M
- 62) Birn's hypothesis. (June 2010, RS)2 M
- 63) Sterilization. (June 2010, RS)2 M
- 64) Describe in detail the complications of extraction and their management. (JUNE 2013, OLD SCHEME)10 M
- 65) Local systemic complication of local anaesthesia (NOV 2021 RS3) 10 M
- 66) Indication and contraindication of extraction (NOV 2021RS3) 5M
- 67) Complication of post extraction haemorrhage (NOV 2021 RS3) 5M
- 68) Pre anaesthetic medication (NOV 2021 RS 3) 2M
- 69) Composition of local anaesthesia (NOV 2021 RS3)2M
- 70) Define impaction. Classify mandibular 3rd molar impaction (APR 2022 RS3) 10M
- 71) Mode of action of local anaesthetic agents (APR 2022RS3)5M



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- 72) General anaesthesia (APR 2022 RS3) 5M
- 73) Gow gates technique (APR 2022 RS3) 5M, (JULY 2019 RS3) 5M
- 74) Role of local anesthetic agent (APR 2022 RS3) 2M
- 75) Role_of_steroid_in_OMFS (APR 2022 RS3)2M
- 76) Alveolar Osteitis (SEP 2022 RS3) 5M
- 77) Contra indications for tooth extraction (SEP 2022 RS3) 5M
- 78) Anterior superior alveolar nerve block (SEP 2022 RS3) 2M
- 79) Define LA. Write in detail is local and systemic complication of LA. (FEB 2023 RS3) 10 M
- 80) Write about various planes of GA and its significances (FEB 2023 RS3) 5 M
- 81) Lingual Split techniques (FEB 2023 RS3) 5M
- 82) Felypressin (FEB 2023 RS3) 2M
- 83) Theories of LA (FEB 2023 RS3) 2M
- 84) Classify local anaesthesia. Write in detail about their composition and mechanism of action. Add a note on the contraindications for the use of vasoconstriction. (AUG 2023 RS3) 10M
- 85) Infra Orbital Block (AUG 2023 RS3) 2M
- 86) Define and classify local anesthesia. Write in detail about the mechanism of action of local anaesthesia. (APR 2024 RS3) 10M
- 87) Classify Elevators (APR 2024 RS3) 2M.
- 88) Role of vasoconstrictors in local anaesthesia (DEC 2014 RS30 5M, (JULY 2016 RS3) 5M
- 89) Alveolitis Sicca Dolorosa (Dec 2014 RS3) 5M
- 90) Idiosyncrasy (DEC 2014 RS3) 2M
- 91) Diplopia (DEC 2016 RS3) 2M
- 92) Closed mouth technique of local anaesthesia (DEC 2016 RS3) 2M
- 93) Lignocaine Hydrochloride (JUN 2014 RS3) 5M
- 94) Intra Oral Periapical Radiographs (JUN 2014 RS3) 5M
- 95) Akinosi-technique (JUN 2014 RS3) 5M
- 96) Suturing techniques (JULY 2016 RS3) 5M
- 97) Trismus (JULY 2016 RS3) 5M, (DEC 2018 RS3) 2M
- 98) Complication of LA (DEC 2015 RS3) 5M



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- 99) Mechanical principles of elevators (DEC 2015 RS3) 2M
- 100) Mechanism of action of LA (DEC 2018 RS3) 5M
- 101) Mandibular nerve blocks (DEC 2018 RS3) 5M
- 102) Wharfe's assessment (DEC 2018 RS3) 2M
- 103) Chair position in extraction (DEC 2018 RS3) 2M
- 104) Contents of local anaesthetic solution (JULY 2015 RS3) 5M
- 105) Asepsis (JULY 2015 RS3) 5M
- 106) Mandibular 3rd molar impaction classification (JULY 2015 RS3) 5M
- 107) Classify mandibular III molar impactions. Write about removal of horizontally impacted 38 (JULY 2019 RS3) 10M
- 108) Hemostasis in oral surgery (July 2019 RS3) 5M
- 109) Preanesthetic assessment and premedication (JULY 2019 RS3) 5M
- 110) Dry socket (July 2019 RS3) 2M

2. Endodontic surgery-

- 1) Apicoectomy (dec 2013 RS 2)2 M
- 2) Whitehead varnish. (June 2103, RS 2)2 M, (June 2011, RS 2) 2 M

3. Infections of the oral cavity-

- 1) Classify osteomyelitis and write about clinical features and management. (July 2017, RS 3)10 M
- 2) Cavernous sinus thrombosis. (July, RS 3)5 M , (JUN 2014 RS3) 2M
- 3) Oral microbial flora, (July 2017, RS 3)2 M
- 4) Canine space infection. (July 2018, RS 3)5M
- 5) Pterygomandibular space infection. (Dec 2013, RS 3)5M
, (June 2013, RS3, RS 2)5M, (JUNE 2010, RS)2 M
- 6) Osteoradionecrosis. (Dec 2013, RS 3)5 M
- 7) Chronic suppurative osteomyelitis. (Dec 2013, RS 3) 5 M
- 8) HBO therapy. (Dec 2013, RS 3)2 M, (June 2011, RS)5 M
- 9) Treatment of Ludwig's Angina (Dec 2013, RS 2)5M
- 10) Classify osteomyelitis and its management. (Dec 2013, RS 2) 5 M
- 11) Incision and drainage. (Dec 2013, RS 2) 5 M
- 12) Clinical features of Ludwig's Angina and its management. (June 2011, RS)5M
- 13) Involucrum. (June 2011, RS 2)5 M



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- 14) Buccal space infection C/F and management. (June 2011, RS 2) 2 M, (dec 2010, RS 2) 5 M
- 15) Sequestrectomy and saucerization. (Dec 2010, RS) 5 M
- 16) Hilton's method. (Dec 2010, RS) 5 M
- 17) Garre's osteomyelitis. (June 2010, RS) 2 M, (SEP 2022 RS 3) 5M , (APR 2024 RS3) 2M
- 18) Osteomyelitis (NOV 2021 RS 3) 5M
- 19) Primary spaces of mandible (SEP 2022 RS3) 5M
- 20) Write the surgical anatomy of muscles of mastication. Describe the boundaries, signs, symptoms, and management of Pterygomandibular space infection (FEB 2023 RS3) 10 M
- 21) Classify Osteomyelitis. Describe the treatment of chronic suppurative osteomyelitis. (AUG 2023 RS 3) 10M
- 22) Dangerous area of the face (AUG 2023 RS) 2M
- 23) Marx theory (DEC 2014 RS3) 2M
- 24) Discuss the pathways of spread of infections from mandibular third molar and management of Ludwig's Angina (JUN 2014 RS3) 10M.
- 25) Boundaries and contents of Pterygomandibular space (DEC 2016 RS3) 5M
- 26) I and D – Incision and Drainage (JUN 2014 RS3) 2M
- 27) Boundaries of Pterygomandibular space (JULY 2015 RS3) 2M, (JULY 2016 RS3) 5M
- 28) Ludwig's Angina (JULY 2016 RS3) 2M , (DEC 2015 RS3) 5M, (DEC 2018 RS3) 5M , (JULY 2019 RS3) 5M
- 29) Pericoronitis (DEC 2015 RS3) 5M
- 30) Submandibular space infection (DEC 2015 RS3) 2M

4. Cystic lesions of the jaw-

- 1) Adenomatoid odontogenic tumor (AOT). (DEC 2014 RS3) 5M, (July 2017, RS 3) 5 M
- 2) Classify odontogenic cysts. Write about the clinical features, diagnosis, and management of odontogenic keratocyst of mandible. (Dec 2013, RS 2) 10 M



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- 3) Classify odontogenic tumors. Write about the clinical features, radiological features, and management of ameloblastoma. (Dec 2013, RS 3) 10 M
- 4) Classify odontogenic cysts. Write about the clinical features, diagnosis, and management of odontogenic keratocyst of the mandible. (Dec 2013, RS 2) 10 M
- 5) Clinical features & management of ameloblastoma in mandible. (Dec 2013, RS 2) 5M
- 6) Management of odontogenic keratocyst. (June 2013, RS 3) 2 M
- 7) Pleomorphic adenoma. (June 2013, RS2) 5 M, (Dec 2010, RS 2) 5 M, (June 2010, RS) 5M, (DEC 2015 RS3) 2M
- 8) Fissural cysts. (June 2013, RS 2) 2 M
- 9) Define cyst. Write classification of cysts. Describe clinical features, investigations, histopathological features, and management of odontogenic keratocyst of mandible. (Dec 2011, RS 2) 10 M, (dec 2011, RS) 10 M
- 10) Aspiration biopsy. (Dec 2011, RS 2) 2 M
- 11) Culture and sensitivity. (June 2011, RS) 2 M
- 12) Clinical features and management of keratocyst. (June 2011, RS 2) 5 M
- 13) Surgical management of ameloblastoma. (Dec 2010, RS) 5M, (June 2013, OLD SCHEME) 5 M, (JUN 2014 RS3) 10M
- 14) Marsupialization. (Dec 2010, RS, RS 2) 2 M
- 15) Dentigerous cyst. (Dec 2010, RS 2) 5 M, (AUG 2023 RS3) 5M
- 16) Radicular cyst. (June 2010, RS) 2M
- 17) Plunging ranula (NOV 2021 RS 3) 2M
- 18) Theories of cyst expansion (APR 2022 RS3) 5M
- 19) Define Cyst, Classify odontogenic cyst of jaws. Write in detail clinical features, radiographic features, and management of odontogenic keratocyst. (SEP 2022 RS3) 10M
- 20) Sequelae of Odontogenic infection (FEB 2023 RS3) 5M
- 21) Odontoma (AUG 2023 RS3) 2M
- 22) Define cyst and classify cysts of the jaws. Describe in detail about dentigerous cysts and write about its radiology and its detailed management in children and adults (APR 2024 RS3) 10M.
- 23) Ameloblastoma clinical features, radiology, and treatment (APR 2024 RS30) 5M



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- 24) Odontomes (APR 2024 RS3) 2M
- 25) Management of odontogenic cysts (JUN 2014 RS3) 5M
- 26) Parsch I operation (DEC 2015 RS3) 5M
- 27) Write about the clinical features, diagnosis, and management of Dentigerous cyst (DEC 2018 RS3) 10M.
- 28) Osteoma (DEC 2018 RS3) 2M

5. Medical emergencies in the dental practices

- 1) Management of extraction in pregnant patients. (July 2017, RS 3)5 M
- 2) Management of patients with anticoagulant therapy in dental office for extraction. (July 2018, RS 3), 5 M
- 3) Syncope. (July 2018, RS 3)2M, (dec 2013, RS 2) 5 M, (June 2013, RS 2)2M, (dec 2010, RS 2)2 M, (June 2010, RS)2 M
- 4) Anaphylaxis. (Dec 2013, RS 3)5 M
- 5) Two primary indications of effective C.P.R(dec 2013, RS 2)2 M
- 6) Classifications of hemorrhage. (June 2013, RS 2) 5 M
- 7) Secondary hemorrhage and its management. (June 2011, RS)5 M
- 8) Emergency drugs in dental office. (Dec 2010, RS)5 M
- 9) Tracheostomy. (Dec 2010, RS)5 M
- 10) Hypovolemic shock (NOV 2021RS3)2M
- 11) Septic shock (APR 2022 RS3)2M
- 12) Hyperventilation (SEP 2022 RS3) 2M
- 13) Thyroid storm (FEB 2023 RS3) 2M
- 14) Extraction in a Diabetic patient (AUG 2023 RS3) 5M
- 15) CPR (JULY 2015 RS3) 5M

6. Management of medically compromised patients-

- 1) Management of HIV patient in dental office for extraction. (July 2018, RS 3)5 M
- 2) Bleeding Disorders. (Dec 2011, RS 2)5 M



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- 3) Human Immune Deficiency Virus. (Dec 2010, RS 2) 5 M
- 4) Methemoglobinemia (FEB 2023 RS3) 2M
- 5) Management of patients with cardiac diseases for extraction of teeth (DEC 2018 RS3) 5M

7. Oral implantology

- 1) Anatomical considerations of implant selection. (July 2018, RS 3) 5M
- 2) Implants. (Dec 2013, RS 3) 5 M
- 3) Lingual split bone technique. (Dec 2013, RS 3) 5 M, (June 2010, RS) 5 M
- 4) Indications and contraindications of dental implants, (June 2013, RS 3) 5 M
- 5) Dental implants. (June 2011, RS) 5 M, (APR 2024 RS3) 5M , (JULY 2016 RS3) 2M
- 6) Alveolar bone grafting (APR 2022 RS3) 2M
- 7) Endosseous Implants (SEP 2022 RS3) 5M
- 8) Osseointegration of Implants (FEB 2023 RS3) 5M
- 9) Classification of dental implants (AUG 2023 RS3) 5M

8. Preprosthetic surgery

- 1) Classify pre prosthetic surgeries, explain Clarke's technique. (July 2017, RS 3) 10M
- 2) Palatine tori. (July 2017, RS 3) 5 M
- 3) Torus palatinus. (Dec 2013, RS 3) 2 M
- 4) Frenectomy (Dec 2013, RS 2) 2 M, (dec 2011 RS 2) 2 M
- 5) Alveoloplasty. (June 2013, RS 3) 2 M, (June 2011, RS) 2 M, (JULY 2016 RS3) 5M
- 6) Ridge augmentation. (June 2013, RS 2) 5 M, (June 2011, RS2) 5 M, (APR 2024 RS3) 5M
- 7) Clark's technique. (June 2011, RS 2) 5 M
- 8) Vestibuloplasty. (Dec 2011, RS) 5 M, (DEC 2014 RS3) 5M
- 9) Cryosurgery. (Dec 2010, RS) 5 M, (JUN 2014 RS3) 2M
- 10) Dean's Alveoloplasty. (June 2010, RS 2) 2M, (JULY 2015 RS3) 2M
- 11) Ridge extension procedures. (June 2013, old scheme) 5 M
- 12) Pre prosthetic surgery (APR 2022 RS3) 10M



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- 13) Ridge augmentation (APR 2022 RS3)5M, (JULY 2019 RS3) 5M
- 14) Define Pre-prosthetic surgery. Describe in detail the various Mandibular Ridge Augmentation procedures. (FEB 2023 RS3) 10M
- 15) Various osteotomy techniques of Mandibular Ramus (DEC 2015 RS3) 2M

9. Diseases of maxillary sinus –

- 1) Management of oroantral fistula. (July 2017, RS 3)2 M, (JUN 2014 RS3) 2M
- 2) Broken tooth in maxillary sinus. (Dec 2013, RS 2) 5 M
- 3) Caldwell - Luc procedure. (June 2013, RS 3) 2M, (DEC 2011, RS 2) 5M, (DEC 2010, RS) 5 M, (SEP 2022 RS3) 5M, (AUG 2023 RS3) 5M, (DEC 2018 RS3) 5M
- 4) Oroantral communication. (June 2013, RS 2)5 M
- 5) Clinical features and management of acute maxillary sinusitis. (June 2011, RS) 5M
- 6) Oro antral fistula- management. (June 2011, RS)2 M, (JUNE 2010, RS)5 M
- 7) Management of oroantral fistula (Nov 2021 RS3)5M
- 8) Maxillary sinus (APR 2022 RS3) 5M
- 9) Ashley's flap (SEP 2022 RS3) 2M
- 10) Oro Antral Fistula (FEB 2023 RS3) 5M , (DEC 2026 RS3) 2M
- 11) Caldwell Luc operation (DEC 2015 RS3) 5M
- 12) Maxillary sinus lift procedure (DEC 2018 RS3) 5M
- 13) Define Oro-antral fistula. Describe the etiology, clinical features, investigations and management of Oro-antral fistula (JULY 2019 RS3) 5M

10. TMJ disorders-

- 1) Clinical features of bilateral TMJ ankylosis. (July 2017, RS 3)2M
- 2) Classify and define TMJ ankylosis. discuss in detail the clinical, radiological features and management of bilateral TMJ ankylosis. (June 2013, RS 3)10 M, (dec 2010, RS)10 M, (dec 2010, RS 2)10 M
- 3) Myofascial pain dysfunction syndrome. (June 2013, RS 2)5 M
- 4) Treatment of ankylosis. (Dec 2011, RS 2)5 M
- 5) Trismus. (Dec 2011, RS 2)5 M
- 6) Osteoradionecrosis. (Dec 2011, RS 2)2 M



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- 7) Subluxation and dislocation of TMJ (dec 2011, RS)5 M
- 8) TMJ ankylosis. (June 2010, RS)5 M, (DEC 2016 RS3) 2M, (July 2019 RS3) 5M
- 9) Define TMJ ankylosis. Write in detail about etiology, clinical features and management of unilateral ankylosis (DEC 2014 RS3) 10M
- 10) Define TMJ ankylosis. Write in detail about the etiology, clinical features, and the management of bilateral ankylosis of TMJ. (NOV 2021 RS3) 5M
- 11) Various approaches to TMJ (APR 2022 RS3)5M
- 12) Various extra oral approaches to the temporomandibular joint (SEP 2022 RS3) 5M
- 13) Kaban's protocol (SEP 2022 RS3) 5M
- 14) TMJ Dislocation (APR 2024 RS3) 5M
- 15) TMJ Ankylosis management (APR 2024 RS3) 5M
- 16) Chronic recurrent dislocation (JUN 2014 RS3) 5M
- 17) Gap Arthroplasty (JUN 2014 RS3) 5M
- 18) Clinical features, diagnosis and management of Bilateral Ankylosis in a 8 year old boy (JULY 2016 RS3) 10M
- 19) Approaches to TMJ (JULY 2015 RS3) 5M

11. Tumors of the oral cavity

- 1) Bone grafts (July 2017, RS 3)5 M
- 2) Classification of neck lymph nodes (July 2017, RS 3)5 M
- 3) Leukoplakia (July 2018, RS 3)5 M, (SEP 2022 RS3) 2M
- 4) Classify odontogenic tumors. Write classification, clinical features, investigations, and management of fractures of angle of mandible. (Dec 2013, RS 3)10 M
- 5) Carcinoma of buccal mucosa. (June 2013, RS 3)2 M
- 6) Brachytherapy. (June 2013, RS 2)2 M
- 7) Mucoepidermoid carcinoma. (Dec 2011, RS 2)5 M
- 8) TNM staging (dec 2010, RS 2)5 M
- 9) Xerostomia. (Dec 2010, RS)2 M
- 10) Autogenous grafts. (Dec 2010, RS 2)2 M
- 11) Biopsy. (June 2010, RS) 5 M
- 12) TNM classification and staging (NOV 2021 RS3) 5 M



- 13) Fibrous Dysplasia (FEB 2023 RS3) 5M
- 14) Neck dissection (AUG 2023 RS3) 5M
- 15) Fine Needle Aspiration Biopsy (DEC 2016 RS3) 2M, (JULY 2016 RS3) 5M
- 16) Submucous Fibrosis (JUN 2014 RS3) 5M
- 17) Keratocystic Odontogenic Tumour (KCOT) (JULY 2016 RS3) 5M, (JULY 2015 RS3) 2M
- 18) Brown's tumour of Hyper Parathyroidism (JULY 2016 RS3) 2M
- 19) Classify odontogenic tumours and write about management of ameloblastoma involving body of the mandible (DEC 2015 RS3) 10M.

12. Fractures of the jaws-

- 1) Classify zygomatic complex fracture and write about clinical features and management of zygomatic complex fracture. (JULY 2015 RS3) 10M, (July 2018, RS 3)10 M, C/F, radiological features, and treatment of depressed zygomatic arch fracture. (Jan 2010, RS)10 M
- 2) Define fracture. Write classification, clinical features, investigations, and management of fractures of angle of mandible. (Dec 2013, RS 3)10 M
- 3) Guerin's sign. (Dec 2013, RS 3)2 M
- 4) Principles of fracture management. (Dec 2013, RS3) 5 M
- 5) Le Fort II fracture definition and clinical features. (Dec 2013, RS 2) 5M
- 6) Acrylic cap splint. (Dec 2013, RS 2) 2M, (June 2011, RS) 5 M
- 7) Risdon's submandibular incision. (Dec 2013, RS 2)2 M, (JULY 2015 RS3) 2M
- 8) Subconjunctival hemorrhage. (June 2013, RS 3)5M
- 9) IMF (June 2013, RS 2)2 M
- 10) Classification of mandibular fractures. (June 2013, RS 3)2 M
- 11) Le Fort III fracture. (June 2103, RS 2)5 M
- 12) Miniplate osteosynthesis. (DEC 2011, RS 2)5 M
- 13) Blowout fractures. (Dec 2011, RS 2)5 M, (JULY 2019 RS3) 2M, (APR 2022 RS3)5M
- 14) Define fractures. Classify mandibular fractures. Describe clinical features and management of unilateral subcondylar fracture. (June 2011, RS)10 M



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- 15) Classification of mandibular fractures and general principles of management.
(June 2011, RS 2) 5 M
- 16) Classification of fracture of middle third of face. (June 2011, RS 2) 5 M
- 17) Diplopia. (June 2011, RS 2) 2 M
- 18) Classify midface fractures write in detail about le fort fracture, its clinical and radiological features and management. (Dec 2010, RS) 10 M
- 19) Gunning splint. (Dec 2010, RS) 2 M
- 20) Champy's osteosynthesis lines. (Dec 2010, RS 2) 5 M, (DEC 2014 RS3) 5 M
- 21) Miniplate. (Dec 2010, RS 2) 2 M
- 22) Favorable and unfavorable fractures. (Jun 2010, RS) 5 M
- 23) Geurin's fracture. (June 2010, RS) 2 M
- 24) Classify mandibular fractures. Describe in detail management of fracture angle mandible. (June 2013 old scheme) 10 M
- 25) Champy's Lines (NOV 2021 RS3) 5 M
- 26) Lefort 2 fracture (NOV 2021 RS3) 2 M
- 27) Gunning splints (NOV 2021 RS3) 2 M, (APR 2024 RS3) 2 M
- 28) Indication for lefort I fracture (JULY 2019 RS3) 2 M
- 29) Reconstruction plate (APR 2022 RS3) 2 M
- 30) Classify mandibular fractures, Describe in detail signs symptoms, radiological features, and management of bilateral condylar fracture. (DEC 2014 RS3) 10 M, (SEPT 2022 RS3) 10 M
- 31) Clinical features of zygomatic fractures (AUG 2023 RS3) 5 M
- 32) Pathological fracture (AUG 2023 RS3) 2 M
- 33) Non-Union (AUG 2023 RS3) 2 M
- 34) Zygomatic complex fractures (APR 2024 RS3) 5 M
- 35) Complications of untreated fractures (DEC 2014 RS3) 5 M
- 36) Etiology, signs and symptoms of condylar fractures and its surgical management (DEC 2016 RS3) 10 M
- 37) Guerin's fracture (DEC 2026 RS3) 5 M
- 38) Classify fractures of middle third of facial skeleton. How would you manage Leforte fractures (JULY 2016 RS3) 10 M
- 39) Arch Bar Wiring (JULY 2016 RS3) 5 M



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- 40) Classify sub-condylar fractures. Describe in detail about its clinical features and management (DEC 2015 RS3) 10M.
- 41) Principles of primary management of Trauma patients (DEC 2015 RS3) 5M
- 42) Describe clinical features, diagnosis, and management of Lefort I fractures (DEC 2018 RS3) 10M.
- 43) Mandibular angle fracture (JULY 2019 RS3) 5M

13. Developmental deformities

- 1) Genioplasty. (July 2018, RS 3)5 M, (dec 2013, RS 2) 5 M, (June 2013, RS 3)5 M (June 2011, RS)5 M
- 2) Development of mandible. (June 2013, RS 2)5 M
- 3) Wassmund's procedure. (JUNE 2013, RS 2)2 M, (June 2011, RS)5 M
- 4) Distraction osteogenesis. (June 2011, RS)5 M
- 5) Cephalometric analysis for orthognathic surgery. (Dec 2011, RS 2)5 M
- 6) Pre operative planning in orthognathic surgery. (June 2011, RS 2)5 M
- 7) Anterior maxillary osteotomy (June 2011. RS 2) 5 M, (Dec 2010, RS 2)5 M, (AUG 2023 RS3) 5M, (JULY 2015 RS3) 5M
- 8) Anterior subapical segmental osteotomy. (Dec 2010, RS)5 M
- 9) Bilateral sagittal split osteotomy. (Jan 2010, RS)5 M, (JUN 2014 RS3) 5M
- 10) Discuss orthognathic surgery (DEC 2016 RS3) 10M.

14. Salivary gland diseases

- 1) Frey's syndrome. (Dec 2013, RS 3)2M, (SEP 2022 RS3) 2 M, (DEC 2015 RS3) 2M
- 2) Sialolithiasis. (June 2013, RS 3)5 M
- 3) Sialolith. (June 2011, RS)5 M, (JULY 2015 RS3) 2M
- 4) Sialolithotomy of the parotid duct. (June 2011, RS 2)5 M
- 5) Salivary substitutes. (June 2010, RS)2 M
- 6) Sialography. (June 2013, old scheme)5 M, (FEB 2023 RS3) 5M
- 7) Ranula (DEC 2014 RS3) 2M
- 8) Mucocele (JULY 2019 RS3) 2M



15. Neurological disorders

- 1) Discuss the clinical features, etiology, and management of Trigeminal Neuralgia.
(June 2011, RS 2)10 M, (June 2010, RS)5 M, (June 2013, old scheme)5 M, (JULY 2015 RS3) 10M
- 2) Cerebrospinal otorrhea. (Dec 2011, RS 2)2 M
- 3) Nerve injuries. (June 2011, RS)5 M
- 4) Bell's Palsy. (June 2011, RS)5 M, (dec 2010, RS)2 M
- 5) Types of nerve injuries. (June 2011, RS 2)2 M
- 6) Neuropraxia. (Dec 2010, RS 2)5 M, (APR 2024 RS3) 2M
- 7) Trigeminal Neuralgia (NOV 2021 RS3)5M, (JULY 2016 RS3) 2M, (June 2013, RS 3)2 M, (JULY 2019 RS3) 5M
- 8) Management of Trigeminal Neuralgia (DEC 2014 RS3) 5M, (AUG 2023 RS3) 5M, (APR 2024 RS3) 5M
- 9) Tinnel's sign (DEC 2014 RS3) 2M

16. Cleft lip and cleft palate

- 1) Technique of cleft palate closure. (DEC 2011, RS 2)5 M, (FEB 2023 RS3) 5M
- 2) Timing of repair of cleft lip and palate (DEC 2014 RS3) 2M
- 3) Cleft lip and palate (DEC 2018 RS3) 5M

17. Case History and Clinical Examination

- 1) Bimanual palpitation (FEB 2023 RS3) 2M

18. Pharmacology

- 1) Steroids (DEC 2016 RS3) 5M
- 2) Antibiotics (DEC 2016 RS3) 5M
- 3) NSAIDS (JUN 2014 RS3) 2M
- 4) Penicillins (JULY 2015 RS3) 5M



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19) Others

- 1) Grafts (DEC 2016 RS3) 5M
- 2) Cold Sterilization (DEC 2015 RS3) 5M
- 3) Hemorrhage (DEC 2015 RS3) 5M

Staff Incharge

HOD Incharge

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IQAC Coordinator

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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

IV YEAR BDS (2023-2024) **CLINICAL SESSION PLAN**

Learning outcomes:

At the end of the session, the student should be familiar with following;

- L1.** Surgical Anatomy of oro-facial region..
- L2.** Sterilization protocol and aseptic technique.
- L3.** Case history taking.
- L4.** Use of different instruments in Oral & Maxillofacial surgery.

At the end of the session, the student should be able to perform the following.

- L5.** Examination of a patient and record blood pressure.
- L6.** Various local anesthetic injection techniques
- L7.** Prevent & manage complications of local anesthesia in the Oro-facial region.
- L8.** Extraction of mobile and firm teeth, as well as trans-alveolar extraction of root stumps
and surgical removal of simple impacted teeth.
- L9.** Various suturing techniques.
- L10.** Management of dento-alveolar fractures with arch bar fixation, eyelets and
Inter- maxillary fixations.
- L11.** Basic life support skills.



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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

Teaching-Learning plan

Sl No	Discussion Topics	Staff Incharge
1	Introduction of Trigeminal Nerve Maxillary, Mandibular and Ophthalmic nerve	Dr. Tasveem
2	Introduction of Nerve physiology Pain pathway	Dr. Vishal
3	Sterilization Asepsis	Dr. Manazir
4	Local Anaesthesia Classification, M/A, Composition, Complication, and its management	Dr. Chaitanya
5	Maxillary & Mandibular Blocks Intra oral & extra oral nerve blocks & its technique	Dr. Aaisha
6	Introduction of Exodontia Classification Indication & contraindication Complication, its management Post Extraction Instructions	Dr. Wahaj
7	Case History	Dr. Vishal
8	Medical Emergencies Prevention and management of syncope, hypertension Prevention and management of epilepsy, diabetes mellitus Prevention and management of LA toxicity, hypothyroidism, hyperthyroidism etc.	Dr. Shereen
9	Analgesics	Dr. Kiran
10	Instrumentation	Dr. Manazir
11	Antibiotics	Dr. Tasveem
12	Principles of Surgery	Dr. Neelakamal



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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

WEBLINKS

- W1. MCQ on medically compromised dental patients – Dentosphere : World of Dentistry <https://youtu.be/3SEofSo83Iw>
W2. Medical emergencies in dental practice – MS Dental lectures - <https://youtu.be/6gkd3RR9-8Y>
W3. LA in Oral and Maxillofacial Surgery – Youtube – Dental Pathshala <https://youtu.be/8Ia5SdDPoYM>
W4. Different anesthesia options for dental and oral surgery – Youtube <https://youtu.be/VqWXtFnaLI>
W5. Specific extraction technique for each tooth – Youtube – Leeds School of Dentistry <https://youtu.be/Usu5pTTz2SY>
W6. TMJ Dislocation/Subluxation Etiopathogenesis & clinical features – Youtube – MS Dental lectures - <https://youtu.be/CGwwwWULJCI>
W7. Impacted wisdom teeth – Youtube – MS Dental lectures <https://youtu.be/O5iPDUXaxlcW8>
W8. Basics of dental implants – Youtube – Dental Pathshala - <https://youtu.be/L4hGJD4zxcc>
W9. Oral cancer – Causes, Symptoms, Diagnosis, Treatment and Pathology – Osmosis.org - <https://youtu.be/aTvE7KM04EY>
W10. Trigeminal Neuralgia – Youtube – MS Dental lectures - <https://youtu.be/pci7kBU9h94>
W11. Spread of infection in fascial spaces – Youtube – Dental Pathshala - <https://youtu.be/7IKzTIzFKYw>
W12. Maxillary sinus diseases – Youtube – Dental Flossophers - <https://youtu.be/Mj77WYoJLkI>
W13. Mandibular fracture – Youtube – Dr Teeth - <https://youtu.be/1bHncoTMt-w>
W14. Lefort fractures – Youtube – Dr Teeth - <https://youtu.be/t6tUThsve4M>

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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

III YEAR BDS (2023-2024) **CLINICAL SESSION PLAN**

Learning outcomes:

At the end of the session, the student should be familiar with following;

- L1.** Surgical Anatomy of orofacial region..
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- L3.** Case history taking.
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- L5.** Examination of a patient and record blood pressure.
- L6.** Various local anesthetic injection techniques
- L7.** Prevent & manage complications of local anesthesia in the Oro-facial region.
- L8.** Extraction of mobile and firm teeth.
- L9.** Various suturing techniques.
- L10.** Management of dento-alveolar fractures with arch bar fixation, eyelets and
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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

TEACHING-LEARNING PLAN

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7	Case History	Dr. kiran
8	Instrumentation	Dr. Manazir
9	Medical Emergencies: Prevention and management of syncope, hypertension Prevention and management of epilepsy, diabetes mellitus Prevention and management of LA toxicity, hypothyroidism, hyperthyroidism etc.	Dr. Shereen
10	Sutures and Principles of suturing	Dr. Tasveem
11	Analgesics& Antibiotics	Dr. Chaitanya



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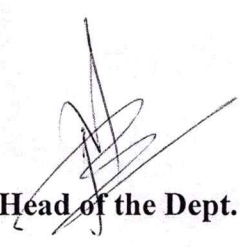
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- W8. Basics of dental implants – Youtube – Dental Pathshala - <https://youtu.be/L4hGJD4zxccW9>
- W9. Oral cancer – Causes, Symptoms, Diagnosis, Treatment and Pathology – Osmosis.org - <https://youtu.be/aTvE7KM04EY>
- W10. Trigeminal Neuralgia – Youtube – MS Dental lectures - <https://youtu.be/pci7kBU9h94>


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