

Session Plan I BDS (2022-23)

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 temporo mandibular 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
8.	Deciduous teeth	Deciduous teeth	Theory – 4	Lecture Ict based demo	T3 chapter – 3
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,	Theory – 6	Lecture Ict based demo videos	T1 chapter – 9 T2 chapter – 7

		clinical considerations			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 Assignments	Hand outs Led screen Microscopic slides
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	Theory - 9	Lecture	T3 chapter 6 Models

		<p>maxillary 1st premolar and maxillary 2nd premolar, Morphological differences between the mandibular 1st premolar and mandibular 2nd premolars, Morphological differences between the maxillary 1st molar and maxillary 2nd molar, Morphological differences between the mandibular 1st molar and mandibular 2nd molar</p>			
15.	Dentin	<p>Physical and chemical properties of dentin, Structure of dentin – types, Development of dentin – dentinogenesis, mineralization, Clinical considerations, Age changes</p>	Theory – 5	Lecture 1c1 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
17.	Pulp	Anatomy, structural features, functions and cells of pulp, Development, clinical	Theory – 5 Lecture	T1 chapter – 6 T2 chapter – 10 W1

		considerations and age changes			
			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 liagamant	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	Hand outs Led screen

				group discussion Ict based seminar Tutorials Assignments	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 and functions, Gingival sulcus and dento gingival junction, Clinical considerations and age changes	Theory – 8	Lecture	T1 chapter – 10 T2 chapter – 18 W1
			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,	Theory – 4	Lecture Ict based demo	T1 chapter – 11

		Functions, Clinical considerations, age changes			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,	Theory - 7	Lecture videos	T3 chapter - 16

		compensating curves of dental arches, Angulations of individual teeth in relation to various planes, Functional form of the teeth 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	Theory – 1	Lecture Ict based demo	T1 chapter – 16 W1

	Clinical considerations	Practicals – 10	Individual learning group discussion Ict based seminar Tutorials Assignments	Hand outs Led screen Microscopic slides

Resources:

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=fofiZa7x1o0>
- 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 resorptive 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
- 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

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SESSION PLAN II BDS (2022-2023)

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

PRACTICAL SKILLS:

1. Microscopic study of common lesions affecting oral tissues through microscope slides and projection slides.
2. Study of disease process by surgical specimens.
3. Study of tooth anomalies through tooth specimens and models
4. Microscopic study of caries pathogens.

TEACHING-LEARNING PLAN

Units	Topic	Lecture Hours	Teaching Pedagogy	Resources
1. Developmental Disturbances of oral and para oral structures	a. Developmental disturbances of Jaws b. Developmental Disturbances of lips and palate c. Developmental disturbances of Oral Mucosa e. Developmental Disturbances of Tongue	Theory: 15	ICT based lecture	T1 Chapter 2 T2 Chapter 1 W1 W2

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	<p>f. Development disturbances of oral lymphoid tissue:</p> <p>g. Developmental disturbances of salivary glands:</p> <p>h. Developmental disturbances in size of teeth:</p> <p>I. Developmental disturbances in the shape of the teeth:</p> <p>j. Developmental Disturbances in number of teeth</p> <p>k. Developmental Disturbances in Structure of Teeth</p> <p>l. Developmental Disturbances in eruption of teeth</p> <p>m. Developmental / Fissural cysts of the Oral cavity</p>			
		Practical: 25	<p>(i)Team teaching</p> <p>(ii)Seminar</p> <p>(iii)Individual learning</p> <p>(iv)ICT based demo</p> <p>(v)Group Discussion</p> <p>(vi)Assignments</p>	<p>Models & Tooth specimens</p> <p>Hand outs</p> <p>Microscopic slides</p> <p>LCD</p> <p>Projector</p> <p>T 1</p> <p>T 2</p>
2. Dental caries	<p>Theories and Etiology</p> <p>- Clinical features</p> <p>Classification</p> <p>- Histopathology</p> <p>- Immunology</p> <p>- Caries activity Tests</p> <p>- Factors Influencing Caries</p>	Theory:8	ICT based lecture	<p>T1 Chapter 11</p> <p>T2 Chapter W1</p> <p>W2</p>
		Practical: 8	<p>(i)Team teaching</p> <p>(ii)Seminar</p> <p>(iii) Individual learning</p>	<p>Hand outs</p> <p>Microscopic slides</p> <p>LCD</p> <p>Projector</p>

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			(iv)ICT based demo Group Discussion (v)Assignments	T 1 T 2
3. Diseases of the pulp and Periapical tissues	a. Diseases of the Dental Pulp b. Diseases of the Periapical Tissues c. Osteomyelitis	Theory: 5	ICT based lecture	T1 Chapter 12 T2 Chapter 3 W1 W2
		Practical: 7	(i)Team teaching (ii)Seminar (iii)Tutorial (iv)Individual learning (v)ICT based demo Group Discussion (vi)Assignments	Hand outs Microscope LCD Projector T1 Chapter 12 T2 Chapter 3

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 Edition
4th

WEB LINKS

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

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

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QUESTION BANK

1. Supernumerary teeth.
2. Dens invaginatus.
3. Amelogenesis imperfect.
4. Benign migratory glossitis.
5. Dens invaginatus and evaginatus.
6. Dentinogenesis imperfecta.
7. Macrodonia.
8. Hutchinson's triad.
9. Taurodontism.
10. Facial hemihypertrophy.
11. Median rhomboid glossitis.
12. Enamel hypoplasia.
13. Anodontia.
14. Dentin dysplasia.
15. Fordyce's granules.
16. Melkersen-rosenthal syndrome.
17. Fusion of teeth.
18. Supernumerary teeth.
19. Concrescence.
20. Talon's cusp.
21. Dilacerations.
22. Ankyloglossia.
23. Turner's hypoplasia.
24. Double lip.
25. Mottled enamel.
26. Submerged teeth.
27. Ghost teeth.
28. Enamel pearl.
29. Shell teeth
30. Bull teeth
31. Enameloma
32. Germination
33. Normal oral microbial flora.
34. Role of microorganisms in dental caries.
35. Miller's theory of dental caries.
36. Sequelae of dental caries.
37. Caries activity test.
38. Lactobacillus count test.
39. Histopathology of dentinal caries.
40. Clinical types of dental caries.
41. Acidogenic theory of dental caries.
42. Proteolytic chelation theory.
43. Rampant caries.
44. Nursing bottle caries.
45. Caries vaccine.
46. Streptococcus mutans.
47. Pioneer bacteria.

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48. Lactobacillus acidophilus.
49. Name 4 bacteria involved in dental caries.
50. Liquefaction foci of miller.
51. Transverse clefts.
52. Cervical caries.
53. What is pseudocyst.
54. Name 2 pseudocyst.
55. Epstein pearls, bohn's nodule
56. Histopathological features of radicular cyst /periapical cyst
57. Chronic hyperplastic pulpitis/pulp polyp
58. Garre's osteomyelitis
59. Periapical granuloma
60. Acute pulpitis
61. Pathogenesis of radicular cyst
62. Chronic focal sclerosing osteomyelitis
63. Pheonix abscess.
64. Cholestrol clefts
65. Pheonix abscess
66. Sequestrum
67. Types of pulpitis
68. Anachorectic pulpitis
69. Garre's osteomyelitis.
70. Types of osteomyelitis.
71. Hyperemia of pulp.
72. Periapical granuloma
73. Rushton bodies.
74. Clinical features of reversible pulpitis
75. Clinical features of acute pulpitis.
76. Sequestrum and involucrum.
77. Sequeal of pulpitis.

• **LONG ANSWER QUESTIONS**

1. Enumerate Developmental disturbances of tongue. Write in detail about geographic tongue.
2. Enumerate the developmental disturbances affecting the structure of teeth. Describe in detail about Amelogenesis imperfecta.
3. Write in detail about the developmental anomalies affecting the shape of the teeth.
4. List the developmental anomalies of teeth with respect to its structure. Give a detailed account on dentinogenesis imperfecta.
5. Enumerate the environmental causes for enamel hypoplasia. Write in detail about them.
6. Enumerate the dental anomalies affecting shape of tooth. Write in detail about Dens invaginatus on Dens evaginatus.
7. Define dental caries. Write in detail about the zones of enamel and dentinal Caries.
8. Mention various theories of dental caries. Describe proteolytic theory in detail.
9. Define and classify dental caries. Write in detail the histopathology of dental caries.

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TOPIC OF DISCUSSION

- Topic 1. Developmental disturbances affecting the tongue
- Topic 2. Developmental disturbances affecting the size of the tooth
- Topic 3. Developmental disturbances affecting the shape of the tooth
- Topic 4. Developmental disturbances affecting the structure of the tooth
- Topic 5. Theories of dentinal caries
- Topic 6. Diseases of pulp

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Session Plan- III BDS (2022-2023)

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 T2 Chapter 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 (ii)	

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			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 (ii)	

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			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 Discussion	Hand outs Microscopic slides LCD Projector T7

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			(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 (vii) Assignments	

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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. 4th edition.

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

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

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

T6: Peter.A.Reichart, 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.
2. Osteosarcoma
3. Fibroma
4. Epithelial dysplasia
5. Grading and staging of OSCC.

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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. Burkitt's 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.
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
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. Anachoretic 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
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 syndromejeuths syndrome
167. Marfan syndrome
168. Papillon efèvre 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. Belle Palsy
188. Tic doloureux
189. Trigger zones
190. Crocodile tears
191. Crowe's sign
192. Alarm clock headache.
193. Aphthous ulcer
194. Recurrent aphthous ulcer
195. Anug
196. Gingival hyperplasia
197. Dental plaque



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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. Cyclic neutropenia
217. Sick cell anaemia
218. Cooleys anaemia
219. Bence jones protein
220. Raynaud's phenomenon
221. Anemia
222. Hair on end appearance
223. Lab findings of iron deficiency anaemia
224. Purpura
225. Types of leukemia
226. Hemophilia
227. Polycythemia
228. Hyperparathyroidism
229. Brown tumor
230. Ludwigs angina
231. Foci of infection
232. Cellulitis
233. Definition of focus of infection
234. Cumulus cloud
235. 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.
2. Enumerate premalignant conditions. Discuss in detail etiopathogenesis and histopathology of OSMF. Write in detail etiology, clinical features and histopathology of OSMF.

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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
25. Describe the etiopathogenesis. Clinical feature and management of pulmonary tuberculosis
26. Define healing, repair and regeneration. Describe the healing of an extraction wound.

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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
- Topic 16:** Fibrosarcoma and osteosarcoma
- Topic 17:** Radicular cyst
- Topic 18:** Recurrent Aphthous Stomatitis



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- Topic 19:** Angioedema
Topic 20: Osteoradionecrosis
Topic 21: Fibrous dysplasia
Topic 22: Paget's disease
Topic 23: Oral Lichen Planus

Staff In-charge

Head of the Department
H.O.D.
Dept. of Oral Pathology
& Microbiology
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Principal

Principal
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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

IVRD YEAR BDS (2022-2023) 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	T14 and 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)



DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

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
T5	Banks P	Killey's fracture of mandible
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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
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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/3SEofSo83lw>
- 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/8la5SdDPoYM>
- 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. 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/L4hGJD4zxec>
- 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


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


Principal




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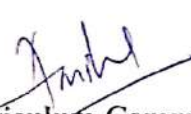
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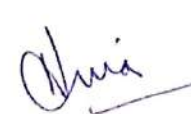
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- W8. Basics of dental implants – Youtube – Dental Pathshala - <https://youtu.be/L4hGJD4zxcc>
- W9. Oral cancer – Causes, Symptoms, Diagnosis, Treatment and Pathology – Osmosis.org - <https://youtu.be/aTvE7KM04EY>
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- W12. Maxillary sinus diseases – Youtube – Dental Flossophers - <https://youtu.be/Mj77WYoJLkl>
- W13. Mandibular fracture – Youtube – Dr Teeth - <https://youtu.be/TbHIncoFMt8>
- W14. Lefort fractures – Youtube – Dr Teeth - <https://youtu.be/t6tUThsvt4M>


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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

IVRD YEAR BDS (2022-23) 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, Chp 3) 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

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T1	Alling John F et al	Impacted teeth
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T15	Scully and Cawson	Medical problems in dentistry 7 th edition
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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- W1. MCQ on medically compromised dental patients – Dentosphere : World of Dentistry <https://youtu.be/3SEofSo83lw>
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DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

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
- 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
- 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
- 19) Vasoconstrictors. (Dec 2013, RS 2)2 M
- 20) Sterilization, (Dec 2013, RS 2)2 M
- 21) Principles of extraction. (Dec 2013, RS 2)2 M



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- 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
- 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
- 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. (Dec 2011, RS 2)2 M
- 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



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



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- 72) Gow gates technique (APR 2022 RS3) 5M
- 73) Role of local anaesthetic agent (APR 2022 RS3) 2M
- 74) Role_of_steroid_in_OMFS (APR 2022 RS3)2M
- 75) Alveolar Osteitis (SEP 2022 RS3) 5M
- 76) Contra indications for tooth extraction (SEP 2022 RS3) 5M
- 77) Anterior superior alveolar nerve block (SEP 2022 RS3) 2M
- 78) Define LA. Write in detail is local and systemic complication of LA. (FEB 2023 RS3) 10 M
- 79) Write about various planes of GA and its significances (FEB 2023 RS3) 5 M
- 80) Lingual Split techniques (FEB 2023 RS3) 5M
- 81) Felypressin (FEB 2023 RS3) 2M
- 82) Theories of LA (FEB 2023 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
- 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



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- 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
- 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
- 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

4. Cystic lesions of the jaw-

- 1) Adenomatoid odontogenic tumor (AOT). (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
- 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
- 8) fissural cysts. (June 2013, RS 2)2 M



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- 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)5 M, (June 2013, OLD SCHEME)5 M
- 14) marsupialization. (Dec 2010, RS, RS 2)2 M
- 15) Dentigerous cyst. (Dec 2010, RS 2)5 M
- 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

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



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- 11) Septic shock (APR 2022 RS3) 2M
- 12) Hyperventilation (SEP 2022 RS3) 2M
- 13) Thyroid storm (FEB 2023 RS3) 2M

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
- 3) human immune deficiency virus. (Dec 2010, RS 2) 5 M
- 4) Methemoglobinemia (FEB 2023 RS3) 2M

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
- 6) Alveolar bone grafting (APR 2022 RS3) 2M
- 7) Endosseous Implants (SEP 2022 RS3) 5M
- 8) Osseointegration of Implants (FEB 2023 RS3) 5M

8. Preprosthetic surgery

- 1) Classify pre prosthetic surgeries, explain Clarke's technique. (July 2017, RS 3) 10 M
- 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
- 6) Ridge augmentation. (June 2013, RS 2) 5 M, (June 2011, RS2) 5 M
- 7) Clark's technique. (June 2011, RS 2) 5 M
- 8) Vestibuloplasty. (Dec 2011, RS) 5 M
- 9) Cryosurgery. (Dec 2010, RS) 5 M



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- 10) Dean's alveoloplasty. (June 2010, RS 2)2M
- 11) Ridge extension procedures. (June 2013, old scheme)5 M
- 12) Pre prosthetic surgery (APR 2022 RS3)10M
- 13) Ridge augmentation (APR 2022 RS3)5M
- 14) Define Pre-prosthetic surgery. Describe in detail the various Mandibular Ridge Augmentation procedures. (FEB 2023 RS3) 10M

9. Diseases of maxillary sinus –

- 1) Management of oroantral fistula. (July 2017, RS 3)2 M
- 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.
- 4) Oroantral communication. (June 2013, RS 2)5 M
- 5) Clinical features and management of acute maxillary sinusitis. (June 2011, RS)5 M
- 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

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
- 7) Subluxation and dislocation of TMJ (dec 2011, RS)5 M
- 8) TMJ ankylosis. (June 2010, RS)5 M



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- 9) Define TMJ ankylosis. Write in detail about the etiology, clinical features, and the management of bilateral ankylosis of TMJ. (NOV 2021 RS3) 5M
- 10) Various approaches to TMJ (APR 2022 RS3) 5M
- 11) Various extra oral approaches to the temporomandibular joint (SEP 2022 RS3) 5M
- 12) Kaban's protocol (SEP 2022 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

12. Fractures of the jaws-

- 1) Classify zygomatic complex fracture and write about clinical features and management. (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



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- 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 incision. (Dec 2013, RS 2) 2 M
- 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 2013, RS 2) 5 M
- 12) Miniplate osteosynthesis. (Dec 2011, RS 2) 5 M
- 13) Blowout fractures. (Dec 2011, RS 2) 5 M
- 14) Define fractures. Classify mandibular fractures. Describe clinical features and management of unilateral subcondylar fracture. (June 2011, RS) 10 M
- 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) 2M
- 20) Champy's osteosynthesis lines. (Dec 2010, RS 2, 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) Champys Lines (NOV 2021 RS3) 5M
- 26) Lefort 2 fracture (NOV 2021 RS3) 2M
- 27) Gunning splint (NOV 2021 RS3) 2M
- 28) Blowout fracture. (APR 2022 RS3) 5M
- 29) Reconstruction plate (APR 2022 RS3) 2M
- 30) Classify mandibular fractures, Describe in detail signs symptoms, radiological features, and management of bilateral condylar fracture. (SEPT 2022 RS3) 10M



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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
- 8) Anterior subapical segmental osteotomy. (Dec 2010, RS)5 M
- 9) Bilateral sagittal split osteotomy. (Jan 2010, RS)5 M

14. Salivary gland diseases

- 1) Frey's syndrome. (Dec 2013, RS 3)2M, (SEP 2022 RS3) 2 M
- 2) sialolithiasis. (June 2013, RS 3)5 M
- 3) sialolith. (June 2011, RS)5 M
- 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

Neurological disorders

- 1) Trigeminal neuralgia. (June 2013, RS 3)2 M, 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
- 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
- 7) Trigeminal neuralgia (NOV 2021 RS3)5M



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15. Cleft lip and cleft palate

- 1) Technique of cleft palate closure. (DEC 2011, RS 2) 5 M, (FEB 2023 RS3) 5M

16. Case History and Clinical Examination

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


Staff Incharge


HOD Incharge


Curriculum Committee

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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

IV YEAR BDS (2022-2023)
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	Dr. Manazir
3	Sterilization asepsis	Dr. Joshna
4	Local Anaesthesia: Classification, M/A, Composition, Complication and its management	Dr. Chaitanya
5	Maxillary & Mandibular Blocks Intra oral & extra oral nerve blocks & its techniques	Dr. Aaisha
6	Introduction of Exodontia Classification Indication & contraindication Complication, its management and Post Extraction Instructions	Dr. Wahajuddin
7	Case History	Dr. Shivraj
8	Instrumentation	Dr. Manazir
9	Medical Emergencies: Prevention and management of syncope, hypertension Prevention and management of epilepsy, diabetes mellitus Prevention and management of IA toxicity, hypothyroidism, hyperthyroidism etc.	Dr. Shereen
10	Sutures and Principles of suturing	Dr. Tasveem
11	Analgesics & Antibiotics	Dr. Ashwin



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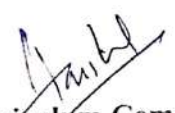
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WEBLINKS

- W1. MCQ on medically compromised dental patients – Dentosphere : World of Dentistry <https://youtu.be/3SEofSo83lw>
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/VqWXttFnaLl>
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/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>
W11. Spread of infection in fascial spaces – Youtube – Dental Pathshala - <https://youtu.be/7IKzTlzFKYw>
W12. Maxillary sinus diseases – Youtube – Dental Flossophers - <https://youtu.be/Mj77WYoJLkI>
W13. Mandibular fracture – Youtube – Dr Teeth - <https://youtu.be/1blIncoTMT-w>
W14. Lefort fractures – Youtube – Dr Teeth - <https://youtu.be/t6tUThsVt4M>


Staff Incharge


Head of the Dept.


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