



## Contents

Description:	2
Overview:	2
Faculty Responsible for Course Conduction:	2
Details Of Supporting Staff:	3
Objectives & Learning Strategies/TOS:	3
LEARNING RESOURCES:	3
Additional Learning Resources:	3
Assessment Methods:	4
Internal Assessment Criteria:	5
Examination Rules & Regulations:	5
Feedback On Examination:	5
Model Questions:	6
Multiple Choice Question	6
Short Answer Question:	7
Suggestions For Next Academic Year:	7
Prepared By:	7



## STUDY GUIDE

**Class Name.** 3<sup>rd</sup> year BDS

**Department Name.** Oral Pathology

### Description

The educational program of the department of oral pathology comprises a broad range of examination and understanding of patho-biologic basis of oral disease. The department undergraduate dental curriculum includes in third year BDS and is integrated with those of other department at women dental college. The faculty members have advanced graduate and specialty training, providing a core of scientist whose leadership in research and education position them at cutting edge of pathological examination and research.

### Overview:

Program	Bachelor of Dentistry
Course Name	Oral pathology
Contact Hours	200
Infrastructure Requirements	Lecture Hall Histology Lab

### Faculty Responsible for Course Conduction:

Sr. No	Faculty	Designation
1	Dr. Fiza Shafiq	Assist prof

### Details of Supporting Staff:

Sr. No	Staff	Designation
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1	Nayyer jadoon	Lab assistant
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## Objectives & Learning Strategies/TOS:

S.No.	Topic	Learning Outcomes	Teaching Hours	Mode of Teaching	Assessment Tools
1	Developmental disturbance of oral region	<p>At the end of lecture the student will able to</p> <p>Enumerate the different developmental disturbances of teeth and bone</p> <p>2. Correlate the syndromes associated with teeth like hyperdontia, hypodontia</p> <p>3. Describe the mechanism of dentinogenesis imperfecta and amelogenesis imperfect</p>	5hrs	Lecture	<p>MCQs and SEQs</p> <p>Presentation assignments</p>
2	Cysts of oral	1. Classify the	6hrs	Lecture	MCQs and



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	cavity	<p>odontogenic cysts of oral cavity</p> <p>2. Describe the histopathology of odontogenic cysts</p> <p>3. Interpret the diagnosis of the condition and make differential diagnosis.</p> <p>After diagnosis students should be able to plan the management of the cysts</p>			<p>SEQs</p> <p>Presentation</p> <p>Assignments</p>
3	Keratoses and related disorders	<p>1. Define histopathological terms of keratoses and its disorders</p> <p>Explain histopathological features of epithelial dysplasia, leukoplakia and lichen planus and lupus erythematosus</p>	6hrs	Lecture	<p>MCQs and SEQs</p> <p>Presentation</p> <p>Assignments</p>
4	Bone lesions	<p>1. Classify the metabolic and endocrine conditions of orofacial region</p>	6hrs	Lecture	<p>MCQs and SEQs</p> <p>Presentation</p> <p>Assignments</p>



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		<p>2. Diagnose the benign and malignant condition of the bone</p> <p>Evaluate the pathogenesis and histopathology of the bone lesions</p>			
<b>5</b>	Odontogenic tumors	<p>1. Classify different epithelial and connective tissue odontogenic tumors of jaw and orofacial region</p> <p>2. Distinguish the tumors by its differential diagnosis</p> <p>3. Explain the histopathology of odontogenic tumors</p>	6hrs	Lecture	<p>MCQs and SEQs</p> <p>Presentation</p> <p>Assignments</p>
<b>6</b>	Epithelial disorders	<p>1. Define and classify the benign epithelial and pigmented white lesions</p> <p>2. Differentiate between the benign and malignant</p>	6hrs	Lecture	<p>(MCQs and SEQs)</p> <p>Presentation</p> <p>Assignments</p>



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		epithelial lesions  3. Interpret the histopathology and pathogenesis of epithelial white lesions			
7	Immunemediated disorders	1. Classify the aphthous ulcer  2. Identify the mucosal and skin conditions associated with immune system  3. Enumerate the immune mediated allergic skin reactions	7hrs	Lecture	(MCQs and SEQs)  Presentation  Assignments
8	Oral infections	1. Classify the viral, bacterial, and fungal infections of oral cavity  2. Enlist the virulent organisms associated with infection  3. Describe the histopathology of different viral, bacterial and fungal	6hrs	Lecture	(MCQs and SEQs)  Presentation  Assignments



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		infections			
<b>9</b>	Salivary glands disorders	Discuss benign and malignant salivary gland disorders  2. Illustrate the differential diagnosis and histopathology of benign and malignant condition of salivary gland	6hrs	Lecture	(MCQs and SEQs)  Presentation  Assignments
<b>10</b>	Dental caries	1. Define dental caries, etiology, role of bacteria and dental plaque  2. Classify dental caries  3. Describe zones of enamel, Dentine caries	6hrs	Lecture	(MCQs and SEQs)  Presentation  Assignments
<b>11</b>	Physical and chemical injuries	Enlist disorders of eruption and shedding of teeth  3. Discuss the causes of discolouration of teeth	6hrs	Lecture	(MCQs and SEQs)  Presentation  Assignments



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<b>12</b>	Oral ulceration	Classify the oral ulceration  Explain the histopathology of recurrent aphthous stomatitis ,	6hrs	Lecture	(MCQs and SEQs)  Presentation assignments
<b>13</b>	Disorder of pulp	1. Define pulpitis and causes of pulpitis  2. Discuss the healing of pulp and pulp necrosis	6hrs	Lecture	(MCQs and SEQs)  Presentation Assignments
<b>14</b>	Miscellaneous disorders of oral mucosa	1. Define Fordyce granules, Crohn's disease, orofacial granulomatosis  2. List of oral pigmentation causes  3. Explain oral submucous fibrosis , amyloidosis	6hrs	Lecture	(MCQs and SEQs)  Presentation Assignments
<b>15</b>	Periapical periodontitis	1. Discuss the etiology of pulp	5hrs	Lecture	(MCQs and SEQs)





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		necrosis and trauma  2. Explain histopathology of cellulitis , Ludwig angina and acute and chronic periapical periodontitis			Presentation  Assignments
<b>16</b>	TMJ disorders	1. Name the components of temporomandibular joint  2. Enlist the Inflammatory disorders  3. Describe the age changes in jaw and TMJ	5hrs	Lecture	(MCQs and SEQs)  Presentation assignments
<b>17</b>	Introduction to microscopy and histochemical techniques	1. Enlist the steps of H&E staining,  2. Discuss the steps of biopsy (histotechniques)  3. Identify slides of oral lesion  4. Operate the	6hrs	Lecture	Presentation.  Assignments,  OSCE



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		microscope			
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## Learning Resources:

Sr. No	Text/ Reference Books	Edition
1	Soames and southams	4 <sup>th</sup> & 5th
2	Contemporary oral and maxillofacial pathology	5th edition

## Additional Learning Resources:

Hands on	<b>Handling of Microscope, steps of H&amp;E staining, steps of biopsy (histotechniques)</b>
Skills Lab	Identification of slides through microscope, , steps of H&E staining,steps of biopsy (histotechniques)
Videos	<a href="https://youtu.be/gKbYL67XAxA?si=-GeETRU1VxBSOGBz">https://youtu.be/gKbYL67XAxA?si=-GeETRU1VxBSOGBz</a>
Internet Resources	WMC library, <a href="http://evolve.elsevier.com/Regezi/oral%20patthology">http://evolve.elsevier.com/Regezi/oral patthology</a>

## Assessment Methods:

### MCQs:

Multiple Choice questions; Single best Type



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**OSPE/OSCE:** Objective Structured Practical/Clinical examination

**Presentation:**

## **Multiple Choice Questions:**

Single best type MCQs having five options with one correct answer and four distractors are part of assessment.

Correct answer carries one mark, and incorrect will be marked zero. Rule of negative marking is not applicable.

Students mark their responses on specified computer-based designed sheet

## **Objective Structured Practical/Clinical Examination**

- Nine OSCE stations are used for formative as well as summative assessment.
- Time allocated for each station is five minutes as per Examination rules of Khyber Medical University, Peshawar.
- All students are rotated through the same stations.
- Stations used are unobserved, interactive and rest stations.
- On unobserved stations, radiographs, case scenarios may be used to assess cognitive domain.
- On interactive station, examiner ask questions related to the task within the allocated time.
- On rest station, students are not given any task. They just wait to move to the next station.

**Presentation:**



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Students are given topics for presentation either individually or in groups. They are encouraged to prepare presentations on power point to enhance their understanding of the topic.

## Internal Assessment Criteria:

10% weightage of Internal Assessment in professional exam is policy of Khyber Medical University.

This Internal Assessment will comprise of following components

Theory	10%
Attendance	5%
Midterms	2%
Pre-Prof	3%
Practical	10%
Attendance	4%
Ward test	3%
Log book	2%
Behavior	1%

## Examination Rules & Regulations:

One class test of the subject may be held monthly, marks of which will be included in internal assessment. Marks for class test can vary according to syllabus and teachers' choice.



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Mid-Term exam comprising 45 MCQs of single best type and 45 marks SEQs will be held in the middle of the session.

Pre-prof Exam comprising 45 MCQs of single best type and 45 marks SEQs will be conducted at the end of session before prep leaves.

The pattern of class tests, Mid-term & Pre-prof will be same as the Professional Exam taken by Khyber Medical University, Peshawar.

OSPEs will be conducted at the end of Mid-term & pre-prof Exam.

## **Feedback on Examination:**

Students' feedback on assessment strategies will be taken in a preformed proforma for feedback twice a year i.e., Mid-term and pre-prof exams.

Feedback of theory as well as OSPE & Viva will be taken.

Department of Medical Education & Quality Enhancement Cell in collaboration with Exam Cell of WDC is responsible to conduct this exercise.



## Model Questions:

### Multiple Choice Question

**Q.** A young patient complain of soft piece of skin growing out of tooth. on examination mandibular first molar was carious exposed granulation tissue extending from exposed pulp chamber .the diagnosis is

Options list

- a. Pulp polyp
- b. Periapical abscess
- c. Granuloma
- d. Suppurative pulpitis
- E. Internal resorption

**key A**

### Short answer question

A patient is seen with smooth nonnucleated lesion of minor salivary gland located on buccal mucosa . histologically present as sheet and cluster of neoplastic acinar cells with supportive connective tissue stroma

- a. Write your diagnosis 2
- b. Write name of two malignant salivary condition affecting oral cavity . 3

Key

- A) Acinar cell carcinoma
- B) Mucoepidermoid carcinoma and Adenoid cystic carcinoma



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## Suggestions for Next Academic Year:

Make solid schedule to follow

Research work should be included

Prepared By:

**Dr. Fiza shafiq**

Assistant Professor

Oral Pathology