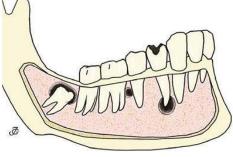
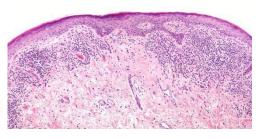


Study Guide OF ORAL PATHOLOGY

For BDS

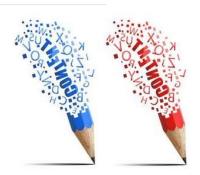






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MESSAGE FROM THE PRINCIPAL

AVICENNA DENTAL COLLEGE



Prof.Dr.Sohail Abbas Khan

{MDS, Dip Op (Hons) BDS}

It is a matter of immense honour and privilege as the first Principal of Avicenna Dental College to welcome you to prospectively one of the finest dental institutes in the private sector of Pakistan. Avicenna Dental College is a private dental college, which aims to provide the finest dental education to dental undergraduate student in accordance with the latest trends in Medical Education, and to develop them to practice dentistry in the 21stcentury.

While educating dental students to become licensed, empathetic and competent professionals, Avicenna Dental College endeavours to educate students in a supportive environment in which they provide dental care for a diverse populace. In the times to come, we wish to transform our graduates into unfeigned teachers, researchers and consultants by starting post-graduation programs as well.

Avicenna Dental College aims to achieve an enterprising curriculum integrating the basic sciences with clinical experience while utilizing modern technological modalities.

In addition to the production of outstanding oral health professionals, we at Avicenna Dental College recognize our responsibility as a private dental institution to the citizens of the country in making the provision of oral the provision of oral health care available to those who are deprived of ready access.

I feel proud to lead this dental establishment such an inspiring time and hope all of you at Avicenna Dental College will share this pride and play your respective roles in materializing the dream of making this institution the premier dental educator in Pakistan.

MESSAGE FROM HOD, GENERAL PATHOLOGY AVICENNA DENTAL COLLEGE





DR. SYED SHAUKAT ALI SHAH (M.B.B.S.,M.C.P.S.,M.PHIL)

Pathology is a branch of medicine that bridges the clinical and non-clinical subjects. Pathologists are called upon to diagnose and confirm many ailments. The department has 3 labs; a Histopathology and Haematology lab, a Microbiology and Chemical pathology lab & a Clinical lab. The Clinical lab works in full coordination with the Avicenna Hospital. The labs are being supervised by professors, experienced in the related specialties. The department has a well-designed museum displaying neatly mounted specimens and several detailed and highly informative charts/ graphs. Highly qualified professors with national & international experience are supervising the pathology labs

WHAT IS A STUDY GUIDE?

It is an aid to:



- Inform students how student learning program has been organized according to their learning objectives.
- ❖ Help students organize and manage their studies throughout the course.
- Guide students on assessment methods, rules and regulations

THE STUDY GUIDE:

- Communicates information on organization and management of the course. This will help the student to contact the right person in case of any difficulty.
- Defines the objectives which are expected to be achieved at the end of the course.
- ❖ Identifies the learning strategies such as lectures, small group teachings, clinical skills, demonstration, tutorial and case-based learning that will be implemented to achieve the course objectives.
- Provides a list of learning resources such as books, computer assisted learning programs, web-links, journals, for students to consult in order to maximize their learning.

STUDENT'S OVERALL PERFORMANCE:

Includes information on the assessment methods that will be held to determine every student's

ACHIEVEMENT OF OBJECTIVES:

*	Focuses on information pertaining to examination policy, rules and regulations.

APPROVAL FOR THE COURSE

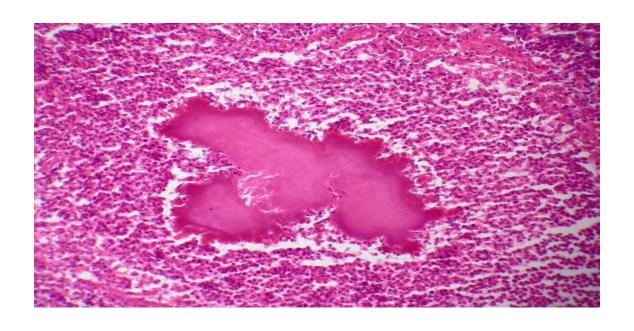
This course has been reviewed, revised and approved by

- ☐ Pakistan Medical and Dental Council
- ☐ University of Health Sciences
- ☐ College Curriculum Committee



GENERAL COURSE INFORMATION

Course Title	ORAL PATHOLOGY		
Course Components	Theory	Practical	
	Marks:100	Marks:100	
PRE-REQUISTES	General	Human Physiology	General Pathology
	Anatomy		
REQUISTES	Oral Medicine		
YEAR	3 RD Year BDS		



COURSE DESCRIPTION

Oral Pathology is one of the basic science subjects in dentistry deals with the nature, identification, and management of diseases affecting the oral and maxillofacial regions (the mouth and jaw areas). The discipline of Oral Pathology links the training in basic sciences with its applications in clinical dentistry. It covers the diverse spectrum of disease processes affecting oral structures and tissues. The mission of the specialty of oral pathology deals with the nature, causative factors, clinical and radiographic features, histopathological features of the diseases, identification, effects of diseases affecting the oral and maxillofacial region. Understanding the oral pathology is necessary for diagnosis and for the development of rational treatment and preventive programs as a dental professional. It is considered a specialty of dentistry and pathology.

One of the most important purposes of oral pathology is to give the student the ability to correctly diagnose oral lesions and develop differential diagnosis. There are more than 200 different types of diseases that affect the oral cavity, & many of these can only be diagnosed through microscopic examination.

The department of oral Pathology has educational goals for the 3rd year BDS students and provide quality education including the pathogenesis, clinical, radiographic, hhistopathology, presentation of oral diseases and training by creating, preservation, integration and utilization of knowledge in the diagnosis of oral pathological diseases. The study of microscope, tissue processing, diagnostic tests and advanced techniques are also including in the goals of Oral Pathology.

COURSE OBJECTIVES



To produce graduates who have demonstrated that they have:

- Provide knowledge in oral pathology to undergraduate students.
- The skills and knowledge for a productive, competent, and compassionate practice of oral pathology.
- To familiarize the students with the foundational knowledge necessary for critical thinking,
 problem solving and diagnosis of oral diseases.
- The skills to clearly communicate their knowledge as needed.
- To familiarize students with multiple diagnostic techniques applicable in every condition.
- Recognize the limitations of routine light microscopy and recognize the indications for additional studies, such as biopsy and special stains and be able to perform appropriate tests and able to interpret their results.
- Read, interpret and critically evaluate the oral pathology literature.
- Demonstrate basic teaching skills.

ORAL PATHOLOGY COURSE OUTLINE

The purpose of this course is for the students to understand and know how to apply and identify oral and maxillo-facial diseases and how these diseases to be studied. The pattern of study should be as follow:

- Definition of the diseases
- Pathogenesis/etiology of the diseases
- Clinical Characteristics of the diseases:
 - Prevalence
 - o Age
 - o Gender
 - o Site
 - Color
 - Texture
 - Chief Complaints
- * Radiographic Features:
 - Radiolucent/Radio-opaque/Mixed
 - Borders of lesion
 - o Effect on surrounding structure
 - Root resorption
 - Root divergence
 - o Characteristic radiographic appearance.

- Histopathological Features:
 - o Capsule
 - Patterns
 - o Epithelium lining
 - Connective tissue
 - o Characteristic Features of the lesion
- Diagnostic aids used in diagnosis.
- ❖ How to make differential diagnosis
- **❖** Prognosis of the lesion
- **❖** Treatment of the lesion

UHS COURSE CONTENTS



TABLE OF SPECIFICATION



SYLLABI &TABLE OF SPECIFICATIONS (TOS):

According to the syllabi & TOS of UHS, LHR are as follows:

BDS THIRD PROFESSIONAL <u>TABLE OF SPECIFICATIONS (TOS)</u> ORAL PATHOLOGY

TOPICS	MCQS	%	SEQ	%	TOTAL %
DEVELOPMENTAL DISTURBANCES OF ORAL AND PARA-ORAL STRUCTURES	3	6.6	2	13	9.8
EPITHELIAL PATHOLOGY	4	9	2	13	11
SOFT TISSUE PATHOLOGY	3	6.6	0.5	3.3	4.95
BONE PATHOLOGY	3	6.6	1	6.6	6.6
SALIVARY GLAND PATHOLOGY	3	6.6	1	6.6	6.6
CYST OF ODONTOGENIC ORIGIN	2	4.4	1/2	3.3	4.95
TUMOR OF ODONTOGENIC ORIGIN	2	4.4	1	6.6	5.5
INFECTIONS	7	16	1	6.6	11.3
DENTAL CARIES	2	4.4	1.5	10	7.2
DISEASES OF PULP AND PERI-APICAL TISSUE	1	2.2	0.5	3.3	2.75
SPREAD OF ORAL INFECTIONS	1	2.2	0	0	1

TOPICS	MCQS	%	SEQ	%	TOTAL %
PHYSICAL AND CHEMICAL INJURY	2	4.4	1.5	10	7
ALLERGIES AND IMMUNO-LOGICAL ORDERS	4	8.8	1	6.6	7.7
HEALING OF WOUNDS	1	2.2	0	0	1
DISEASES OF BLOOD AND BLOOD FORMING ORGANS	2	4.4	1	6.6	5.5
ORAL ASPECTS OF METABOLIC DISEASES	1	2.2	0.5	3.3	2.75
DISEASES OF SKIN	3	6.6	0.5	3.3	4.95
FACIAL AND NEURO- MUSCUALR PATHOLOGY	1	2.2	0	0	1

ORAL PATHOLOGY LECTURES WITH LEARNING OUTCOME



TOPICS		LEARNING OUTCOME
		(The student should be able to)
1)	Developmental disturbances in	Describe the types of anomalies associated with the teeth sizes.
	size of teeth	Describe the most common site for these teeth.
		Describe the syndromes associated with these disturbances
2)	Developmental disturbances in	Classify the disturbances associated with the number of teeth.
	number of teeth	Explain the etiological factors associated with these anomalies.
		Describe the clinical features of these anomalies.
3)	Disturbances in eruption of teeth	Classify the disturbances associated with the eruption of teeth.
		Describe the most common teeth associated with these types.
		Describe the etiological factors associated with these teeth.
		Explain the complications of delayed eruption.
		Understand the eruption sequestrum and its etiology.
4)	Disturbances in Shape of teeth	Enlist the disturbances associated with the shape of teeth.
		Illustrate the most common teeth involved in each anomaly.
		Know the syndromes associated in each anomaly.
		Understand the treatment and complications linked with each anomaly.
5)	Enamel Defects	Differentiate among the acquired and hereditary enamel defects.
		Enlist the etiological factors involved in acquired enamel defects.
		Classify the amelogenesis imperfecta (Witkop classification)
		Explain their clinical features i.e. appearance, severity and color of involved teeth
		Classify the fluorosis.
6)	Dentine Defects	Classify the dentine defects.
		Classify the Dentinogenesis imperfecta and dentine dysplasia
		Categorized Dentinogenesis imperfecta and dentine dysplasia.
		Know the clinical features, radiographic features and histopathological features of dentine defects.
		Know how to differentiate among these lesions on the basis of clinical, radiographic and histopathological features.
7)	Soft Tissue Anomalies	Distinguish the different soft tissue disturbances.
		Recognize the etiological agents for the development of soft tissue disturbances.
		Understand the clinical feature and histopathological features of each anomalies.
		Differentiate among the similar anomalies on the basis of clinical and histopathological
		features.
		Create differential diagnosis of soft tissue disturbances.
8)	Syndromes	Learn the mutation involved in each syndrome along with their gene maps.
		Learn the clinical features of syndromes.
		Sub-classify the syndromes.
		Describe the oral manifestation involved in each syndrome.
		ORAL CYST
1)	Oral Cyst	Define cyst.
		Know the difference among true and pseudo-cysts.
		Know the inflammatory and non-inflammatory cyst.
		Classify the odontogenic and non-odontogenic cysts of oral cavity.
		Know the general features of oral cyst.
		•

	Creat Arisas from roat of	CL 'C A A CM I
2)	Cyst Arises from rest of	Classify the cyst arises from Rest of Malassez.
	Malassez	Understand the pathogenesis of these cyst
		Learn the clinical features, radiographic features and histopathological features of these
		cysts.
		Create differential diagnosis.
2)	C (A) C 1 1	Draw the histopathological features of cyst in their practical note book.
3)	Cyst Arises from reduced	Classify the cyst arises from reduced enamel epithelium.
	enamel epithelium	Understand the pathogenesis of these cyst
		Distinguish the clinical features, radiographic features and histopathological features of these cysts.
		Know the complications associated with these cysts.
		Create differential diagnosis.
		Draw the histopathological features of cyst in their practical note book.
4)	Cyst Arises from Dental Lamina	Classify the cyst arises from dental Lamina.
		Understand the pathogenesis of these cyst.
		Learn the clinical features, radiographic features and histopathological features of these
		cysts.
		Know the syndromes associated with OKC.
		Recognize the reason of recurrence of OKC.
		Learn the complications associated with these cysts.
		Create differential diagnosis.
		Draw the histopathological features of cyst in their practical note book.
5)	Cyst Arises from vestigial tract	Classify these cysts.
		Understand the pathogenesis of these cysts
		Know the clinical features, radiographic features and histo-pathological features of these
		cyst.
	The state of the s	
(A)	Treatment of Cyst	Treatment protocol of oral exet
6)	Treatment of Cyst	Treatment protocol of oral cyst. Identify the indications and contra-indications of enucleation.
6)	Treatment of Cyst	Identify the indications and contra-indications of enucleation.
6)	Treatment of Cyst	 Identify the indications and contra-indications of enucleation. Identify the indications and contra-indications of marsupialization.
6)	Treatment of Cyst	Identify the indications and contra-indications of enucleation.
6)	Treatment of Cyst	 Identify the indications and contra-indications of enucleation. Identify the indications and contra-indications of marsupialization. Understand and perform the technique of FNAC
6)	Treatment of Cyst	 Identify the indications and contra-indications of enucleation. Identify the indications and contra-indications of marsupialization.
1)		 Identify the indications and contra-indications of enucleation. Identify the indications and contra-indications of marsupialization. Understand and perform the technique of FNAC BONE LESIONS
	Fibrous-osseous Lesions of Jaw	 Identify the indications and contra-indications of enucleation. Identify the indications and contra-indications of marsupialization. Understand and perform the technique of FNAC BONE LESIONS Classify the fibrous-osseous lesions of jaw.
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3)	Benign Tumors of Bone	Classify the benign tumors of bone.
3)	Deliigh Tulliors of Bolic	
		 Know the etiological factors involved in each benign tumor. Understand the clinical, radiographic and histopathological features of benign tumors of
		bone.
		Differentiate among these benign tumours of the bone on the basis of their clinical and
		radiographic features.
4)	Giant Cell Lesions of Bone	Classify the giant cell lesions.
		Understand the clinical, radiographic and histopathological features.
		Draw the histopathological features of Giant cell lesions.
		Differentiate it from its other mimicking lesions.
5)	Cyst of Bone	Understand the pathogenesis involved in the formation of bone cyst.
		Know the clinical and radiographic features of the bone cyst.
		Learn and draw the histopathological features of these cyst.
		Create differential diagnosis on the basis of their clinical, radiographic and
		histopathological features
6)	Malignant Tumours of Bone	Classify the malignant tumours of bone.
		Understand the pathogenesis involved in these tumours. On the standard description of the standard descripti
		Classify each and every tumor on the basis of their clinical and histopathological features. Let the distribute the distribute of th
		Learn the radiographic features of the tumor along with their distinctive radiographic
		features.
		Learn and draw the histopathological features.
		ODONTOGENIC TUMORS
1)	Odontogenic tumor arises from	Classify odontogenic tumours according to their origin.
	Epithelium	Understand the clinical features of Ameloblastoma, CEOT, AOT, CEC and Squamous
		odontogenic tumor.
		Learn the radiographic features of epithelial origin odontogenic tumors
		Know and able to draw the histopathological features.
		Differentiate these tumours from each other on the basis of clinical, radiographic and
		histopathological features.
		Create differential diagnosis.
2)	Connective tissue origin	Learn the clinical, radiographic and histopathological features of these tumours.
2)	odontogenic tumor	 Understand distinctive radiographic and histopathological features of these tumours.
	odomogeme tumor	Onderstand distinctive radiographic and histopathological realties of these tulnours.
3)	Epithelium and connective tissue	Learn the clinical, radiographic and histopathological features of these tumours.
	origin odontogenic tumor	Understand distinctive radiographic and histopathological features of these tumours.
		Create differentiating points between similar lesions.
4)	Malignant odontogenic tumors	Learn the difference between malignant odontogenic tumours
		Learn the clinical features and histopathological features of these tumours.
		EPITHELIAL LESION
1)	Squamous Papilloma	Know the nathogenesis of these lesions
1) 2)	Squamous Papilloma Keratoacanthoma	Know the pathogenesis of these lesions. Understand the clinical features.
1) 2)	Squamous Papilloma Keratoacanthoma	

3) Benign Pigmented lesion	Classify the harion migmented legions
3) Benign Fightented lesion	 Classify the benign pigmented lesions. Understand the differences on the basis of clinical features i.e. site, size and age.
	 Know the pathogenesis involved in these lesions.
	 Rhow the pathogenesis involved in these resions. Draw and perceive histopathological the knowledge of these lesions.
	 Know the syndromes associated with these lesions.
4) I11-1:	·
Leukoplakia Enithelial hyperplasia	Classify the lesions on their clinical and histopathological features. P. G. Miller of the clinical and histopathological features.
5) Epithelial hyperplasia	Define the major terminologies used in epithelial hyperplasia.
	Understands the etiological factors involved in Leukoplakia.
	Know the clinical features of variants of leukoplakia.
	Differentiate between pre-malignant and malignant lesions.
	Distinguish among pre-malignant lesion and pre-malignant conditions.
	Learn and identify the histopathological points of the lesions.
	Create differential diagnosis.
6) Epithelial atrophy	Understand the pathogenesis involved in the progression of the lesion.
7) (Oral sub-mucous fibrosis)	
(Oral sub indeods fibrosis)	
	Learn the histo-pathological features of the lesion.
8) Epithelial Dysplasia	Define epithelial dysplasia.
	Classify/ grade epithelial dysplasia on the histo-pathological basis.
	Learn the architectural and cytological alterations observed in epithelial dysplasia.
	Differentiate epithelial dysplasia from Carcinoma-in-situ.
	Differentiate carcinoma-in-situ from Carcinoma.
9) Erythroplakia	Define the erythroplakia.
)) Elyunopiakia	 Understand the pathogenesis involved in and progression of lesion.
	Know the histopathological features of the lesions.
	 Understand the logical points for the color of lesion. Know how to differentiate it from its other similar lesions
10/14 1: 1 1: 1	Create differential diagnosis.
10) Malignant epithelial neoplasms	Define malignant epithelial tumours. Programmer and the second sec
	Define Squamous cell carcinoma.
	Understand the pathogenesis involved in the Squamous cell carcinoma.
	Know the risk factors involved in the Squamous cell carcinoma of the oral cavity.
	• Learn the clinical features of OSCC according to the site of tumor i.e. tongue, lip, buccal
	mucosa, hard palate and soft palate.
	Understand and able to draw the histopathological features of OSCC.
	Know the grading of the OSCC.
	Learn the TNM staging of the OSCC.
	Know the most common sites for metastasis of OSCC.
	Learn the treatment protocol of OSCC.
	Classify the SCC into its clinical variants.
	• Understand the clinical features and histopathological features of each and every variants of
	SCC.
11) Melanoma	Define melanoma.
,	Understand the pathogenesis involved in the development and progression of melanoma.
	 Understand the pathogenesis involved in the development and progression of metanoma. Understand the vertical and nodular growth pattern of melanoma.
	Classify melanoma. Understand the clinical and historical features of each time of malaname.
	Understand the clinical and histopathological features of each type of melanoma. When the difference of the clinical and histopathological features of each type of melanoma.
	Knows how to differentiate it from Nevus or its benign counterpart.

1)	Dental caries	 Knows the Clarks classification of the melanoma. Understand the prognosis and the factors associated with it. Learn the treatment protocol of melanoma. CARIES AND PULPAL INFECTIONS To describe the dental caries Classify dental caries Describe the enamel and dentin caries Explain the clinical and histopathological features of enamel and dentin caries
2)	Pulpitis	 Able to explain and distinguish various clinical types of pulpitis Explain different etiological agents associated with pulpitis Describe reversible and irreversible pulpitis. Differentiate between reversible and irreversible pulpitis Explain pulp necrosis Understand different diagnostic techniques to asses the vitality of symptomatic tooth and pulp Describe the histopathological features and management of acute, chronic and hyperplastic pulpitis
3)	Periapical lesions	 Describe and identify the factors leading to acute and chronic periapical lesions. Differentiate and explain chronic apical (periapical granuloma & cyst) and acute apical (periapical abscess) periodontitis. Explain the complications and management of acute and chronic periapical periodontitis
4)	Osteomyelitis	 Understand and classify osteomyelitis. Describe the clinical, radiographic and histopathological features of acute and chronic osteomyelitis Illustrate features and complications of cellulitis and Ludwig's angina. Explain the Garre's osteomyelitis
		SALIVARY GLAND LESION
1)	Reactive lesions of salivary glands	 Explain mucocele Differentiate between mucocele and mucus retention cyst Understand sialolithiasis and clinical & histopathogical features of the affected gland Discuss aetiology, clinical and histopathological features of chronic sclerosing sialadenitis Understand necrotizing sialometaplasia, its pathophysiology, clinical and histopathological features Create differential diagnosis of necrotizing sialometaplasia
2)	Salivary gland infections	 Understand features of acute and chronic sialadenitis Explain viral and bacterial sialadenitis.
3)	Immune-mediated diseases	 Know about immune mediated diseases Describe Sjogren's syndrome and understand its primary and secondary types Understand the clinical and laboratory detection of Sjogren's syndrome Explain diagnostic criteria, histopathological features and management of Sjogren's syndrome
4)	Salivary gland tumours (Benign)	 Classify salivary gland tumours Understand distinguishing features of benign and malignant tumours Distinguish the clinical features, radiographic features and histopathological features of benign tumours (pleomorphic adenoma, monomorphic adenomas, oncocytoma & Warthin tumor).

	Know the reason for higher recurrence rate of pleomorphic adenoma
	Create differential diagnosis of these tumours.
5) Malignant salivary gland tumors	 Discuss clinical, histopathological features and grading criteria of mucoepidermoid carcinoma. Learn the clinical and distinguishing histopathological features of adenoid cystic carcinoma. Know the variants of adenoid cystic carcinoma. Recognize the reason for post-surgical recurrence of adenoid cystic carcinoma. Learn the clinical and histopathological features of acinic cell carcinoma. Understand clinical and histopathological features of Polymorphous low-grade carcinoma Know the treatment protocol of these malignant tumours Create differential diagnosis. CONNECTIVE TISSUE LESIONS
	CONNECTIVE TISSUE LESIONS
1) Fibrous tissue	 Distinguish between fibrous hyperplasia, benign and malignant fibrous tumors Able to describe clinical, histopathological features and differential diagnosis of fibrous hyperplasia's. Explain clinical, radiographic, histopathological and differential diagnosis of benign fibrous lesions Describe the clinical, radiographic and histopathological features as well as differential diagnosis of malignant fibrous lesions
2) Neural tissue	 Know hyperplasia's of neural tissue. Clinical, histopathological findings and differential diagnosis of neural hyperplasia's Know the features, mutated genes & diagnostic criteria of syndrome (multiple endocrine neoplasia) associated with neural hyperplasia (palisaded encapsulated neuroma) Distinguish the clinical, histopathological & differential diagnosis of benign neural tumors Understand & explain multiple neurofibromatosis Describe clinical, radiographic, histopathological & differential diagnosis of malignant neural tumor Know clinical, histopathological and differential diagnosis of benign and malignant muscle tumours.
3) Adipose tissue	 Describe the clinical histopathological features and differentials of benign as well as malignant adipose tissue tumor Distinguish between vascular proliferations in both soft and bony tissues Know clinical, histopathological features & differential diagnosis of benign vascular proliferations Distinguish between hamartomas & tumours of vascular tissues Elaborate the various forms of vascular hamartomas, clinical, histopathological features & differential diagnosis Explain the related syndromes Describe malignant vascular tumours in terms of clinical, histopathological features, and immunomarkers
4) Vascular Tissue	 Distinguish between vascular proliferations in both soft and bony tissues Know clinical, histopathological features & differential diagnosis of benign vascular proliferations Distinguish between hamartomas & tumours of vascular tissues Elaborate the various forms of vascular hamartomas, clinical, histopathological features & differential diagnosis Explain the related syndromes Describe malignant vascular tumours in terms of clinical, histopathological features, and immunomarkers
5) Osseous and cartilaginous tissue	 Define Cchoristomas and explain clinical & histopathological features of osseous and cartilaginous Cchoristomas Explain clinical and histopathological features of soft tissue osteomas

		Describe myositis ossificans, its clinical, radiographic, histopathological features and differential diagnosis.			
	IMMUNE MEDIATE DISORDERS				
1)	Recurrent Aphthous Stomatitis	 Define RAS Describe its types Describe the systemic conditions associated with RAS Describe the syndromes associated with RAS 			
2)	Mucosal And Skin Conditions	 Classify immune mediated disorder. Explain the pathogenesis of these immune mediated disorders. Describe the clinical features of these conditions along with histopathology Describe the concept of immunofluorescence Draw the histopathological features of theses disorders in their practical note book. Create differential diagnosis. 			
3)	Allergic Reactions	 Define allergic reactions Describe its types Describe the etiological factors associated with types of allergic reaction along with its clinical presentation. 			
4)	Granulomatous Condition of Oral Cavity	 Enlist the different granulomatous condition of oral cavity Explain their clinical features 			
	PH	YSICAL AND CHEMICAL INJURIES			
2)	Physical Injuries Physical Injuries Related to	 Describe physical injuries associated with teeth Differentiate clinically, Attrition Abrasion and Erosion. Describe concept of resorption and differentiate between its types. Classify physical injuries related to gingiva. 			
2)	Gingiva & Tongue	 Describe lesions associated with tongue like traumatic atrophic glossitis, benign migratory glossitis, hairy tongue, fissured tongue Create differential diagnosis. 			
3)	Mucosal Tissue Injuries	 Describe mucosal tissue injuries like Factitious Injuries, Denture Injuries, Electrical Burns, Thermal Burns Distinguish the clinical features of these injuries Create differential diagnosis. 			
4)	Radiation Injuries	 Describe mucosal tissue injuries like Radiation Mucositis, Xerostomia, Radiation Caries, Osteoradionecrosis and Soft Tissue Radiation Injuries Distinguish the clinical features of these injuries Create differential diagnosis. 			
5)	Chemical Injuries	 Describe chemical injuries associated with teeth, gingiva and oral mucosa Distinguish the clinical features of these injuries Create differential diagnosis. 			
		BLOOD DISORDERS			
1)	Red Blood Cells	 Describe diseases associated with RBCs like anaemia, Thalassemia etc Explain its types, their clinical features along with its oral manifestation 			

2) White Blood Cells	 Describe diseases associated with WBCs like Leukopenia, Agranulocytosis, Cyclic Neutropenia etc. Explain its types, their clinical features along with its oral manifestation
3) Neoplasms	Describe neoplasm related to blood cells like leukemia, Lymphomas, multiple myeloma.
	Understand the etiological factors associated with these blood disorders
	Explain its types, their clinical features along with its oral manifestation
4) Bleeding Disorders	Describe bleeding disorder like Thrombocytopenia, Scurvy, Haemophilia etc
	Describe its types, their clinical features along with its oral manifestation
5) Viral Infections	Describe common viral infections occurring in the oral cavity.
	Learn the structure and pathogenesis of the viruses.
	Mention oral manifestation of viral diseases.
	Explain histopathology and laboratory diagnosis of common viral diseases of oral cavity
6) Bacterial Infections	Describe common bacterial infections occurring in the oral cavity.
	Mention oral manifestation of bacterial diseases.
	Explain histopathology and laboratory diagnosis of common bacterial diseases of oral cavity
7) Fungal Infections	Describe common fungal infections occurring in the oral cavity
	Learn the etiological factors involved in the acquisition of fungal infections.
	Mention oral manifestation of fungal diseases
	Explain histopathology and laboratory diagnosis of common fungal diseases of oral cavity

STUDENT ADDITIONAL PRIVATE STUDY

HOURS PER WEEK & STUDENT SUPPORT:

In Additional to the lectures in the college hours the student is expected to put in 5 hours of private study/learning hours per week. (This is an average for the course).



The students are encouraged to interact with the tutors of the course

for any additional help required during the course. The staff members are instructed to inform the students regarding the office hours when they can approach the faculty for their help.

After each class the faculty member allocates a few minutes to clear the doubts of the students if needed.

Group of ten students are allotted to head of department, who is their mentor, the students can even approach their respective mentors if they have any additional problems with the subject.

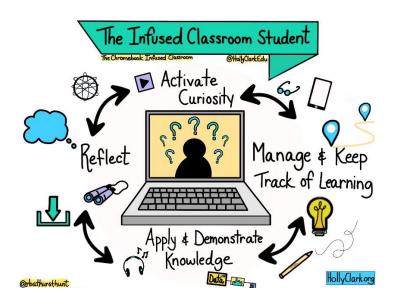
TEACHING AND LEARNING RESOURCES



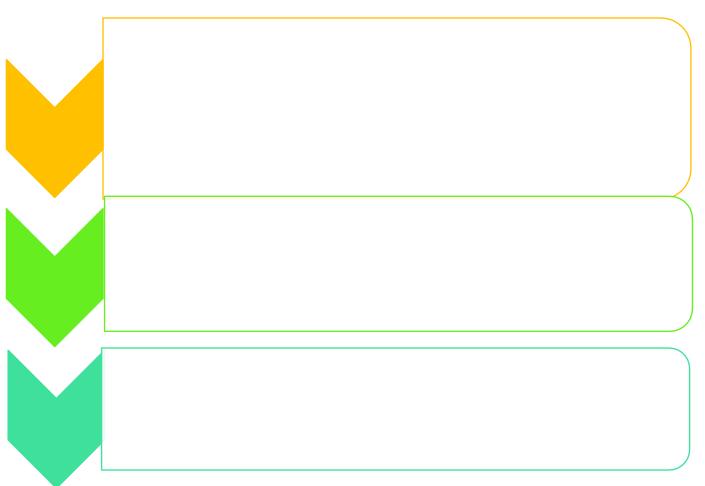
TEACHING AND LEARNING RESOURCES:

	Power point presentations
	Quizzes
	Tell and show
	Poster competition
	Discussion on last year UQS
	Discussion of important questions during class would also aid in developing cognitive
	skills.
	Design assignments in such a way that the students would have to correlate the various
	topics and information given to them.
	The students will be asked oral questions after every session, group discussions, group
	tasks will be designed so that the students learn to interact with their batch mates.
	In addition, project work i.e. review article will be assigned to small groups so that they
	learn to take up the responsibility and complete it.
	Summer Vacations Homework.
*	During the practical's students will be shown microscopic slides to give them in depth
	knowledge and understanding of the subject.

STUDENTS ROLES



STUDENTS ROLES



Listen carefully to

what a professor or other students are saying

- Mark or make notes of the points you wish to answer or discuss or question.
- Introduce your contribution with a quick summary of the discussion or point... "As I understand it...."
- Be certain it is clear to the class and professor when you are summarizing and when you are giving your opinion
- After you have spoken, it is appropriate to ask for feedback. if others understand what you have said if others agree/disagree with you. Demonstrate openness and dialogue: you should score points with your professor!

- You can develop your own note taking system and study strategy with the five "R's" of note-taking:
- Record * Reduce * Recite * Reflect * Review
- Get a good loose-leaf notebook:
 This will enable you to add, delete, and re-sequence pages and materials.
- Begin each session's notes with a cover page for later summaries and test preparation.
- Use comparison charts to highlight the differences in key concepts.
- You could also make use of comparison charts when you're studying mimicking lesions, setting up different characters in a novel in different columns, with attributes or other information in each rows.



• Create a study guide in a combination of formats, using the main concepts and supporting information you pulled from your study materials. You may draft the guides on paper, by hand, or use internet.

TAKING NOTES IN CLASSROOM

LECTURES

You can develop your own note taking system and study strategy

with the five "R's" of note-taking:

Record * Reduce * Recite * Reflect * Review

Get a good loose-leaf notebook:

This will enable you to add, delete, and re-sequence pages and materials.

Begin each session's notes with a cover page for later summaries and test preparation.



A TYPICAL NOTES PAGE:

Heading:Date:Subject:	 Lecture taught Teacher name Fellow student contribution
 2. Reduce: After the class Summarize: Key/cue words Questions Link to information from your textbook, Websites or other sources that helps you understand or study the material 	 Record/take notes in class here: Identify the main points Capture the main ideas Use outlines or concept maps Use words and pictures and graphs or whatever it takes to get the information down quickly. Avoid quoting unless it is very necessary.

MAKE COMPARISON

CHARTS/DIFFERENCES

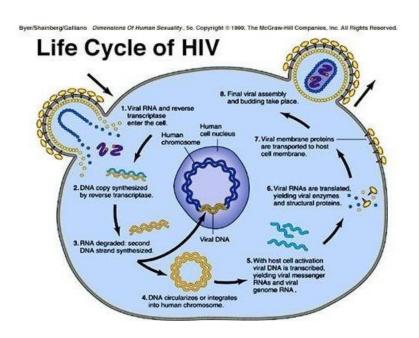
A comparison chart allows you to organize information visually so that you can see relationships among categories or characteristics. It is a very effective format when you need to be able to understand the differences or similarities among facts, theories, theorists, processes, etc.

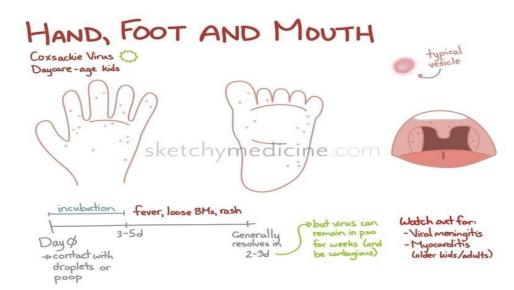


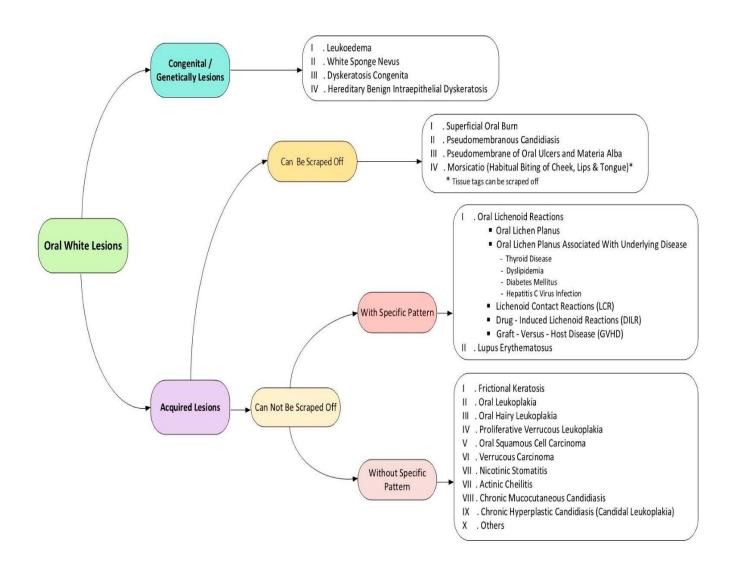
ARE COMPARING	CHARACTERISTICS YOUR ARE COMPARING					
	AGE	GENDER	SITE	RADIOGRAPHIC	HISTOPATHOLOGICAL	
				FEATURES	FEATURES	
ODONTOGENIC						
KERATOCYST						
DENTIGEROUS						
CYST						

DRAW FLOW CHARTS & DIAGRAMS

Diagrams & Flow chart allow you to visually represent dynamic information such as a process, procedure, stages, and steps. For example, in a oral pathology class, you could create a diagram to describe how HIV virus enter in the host cell.







CONCEPT CARD

Concept cards are flash cards you create them using index cards that are 3x5 or larger.

On the **FRONT OF THE CARD**, you write the:

- 1. Key idea or concept you want to learn
- 2. Organizing term or phrase (upper right-hand corner). This is the category or term that allows you to see how your key ideas or concepts are organized.
- 3. Source of the information (textbook page, date of lecture, etc.)

On the **BACK OF THE CARD**, you write what is most important to know and learn about the concept, in your own words.

- 1. To ensure you do more than just memorize the information, include examples, summaries, and synthesis of main points as well as definitions.
- 2. Include diagrams, time lines, or other visuals that will help you understand the information at the level your professor expects.

CONCEPT, TERM OR PROBLEM

ESSENTIAL CHARACTRISTICS	NON-ESSENTIAL CHARACTERISTIC UR
DEFINITION	OWN WORDS
EXAMPLES, DIAGRAMS	DIAGNOSTIC CRITERIA

FRONT OF CARD

BACK OF CARD

PLANNING YOUR DAILY SCHEDULE



MAKING YOUR DAILY SCHEDULE

Review how you spend your time in order to help you prioritize your goals and objectives.

\mathbf{D}	etermine	how	vou	spend	a	"typical"	'' 24-	hour	day:

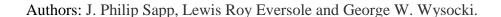
Enter the hours or parts of hours for each activity, the total is 24 hours!

Don't be discouraged if you have to go back and change time spent on each activity.

Classes:	Studying:	Family commitments:
Sleeping:	Personal care/ grooming:	Meal preparation/ eating/clean-up:
Exercise/sports:	Socializing/entertainment (with friends):	Relaxing/TV/ video games, etc. (alone):
Transportation (College, work, etc):	Work/internship:	Other:

RECOMMENDED BOOKS

1. Contemporary Oral and Maxillofacial Pathology





Publisher: Mosby

Edition: 3rd

2. Oral and Maxillofacial Pathology

Authors: Neville, Allan, Damn and Bouquot

Publisher: SAUNDERS

Edition: 3rd

3. Textbook: Oral Pathology: Clinical -Pathologic Correlations Author(s): Joseph A. Regezi,

James J. Sciubba and Richard C. K. Jordan

Publisher: ELSEVIER

Year: 2011

Edition: Third Edition

4. Cawson's Essentials of Oral Pathology and Oral Medicine

Authors: R.A. COWSON and E.W. Odell

Publisher: Churchill living stone

Edition: 7th

FACILITIES PROVIDED

LECTURES:

❖ A class room with a seating capacity of 70 students, equipped with a projector and white board.

PRACTICAL:

- ❖ A well-equipped laboratory with microscopes, calorimeter, ESR rods, autoclave, hemoglobinometer and centrifuge machines for conduction of practicals.
- ❖ As well as oral pathology laboratory have staining area for Hematoxylin and Papanicolaou stain.
- ❖ Different culture medias are available for culture.

ASSESSMENT CRITERIA



POLICY OF INTERNAL ASSESSMENT OF ORAL PATHOLOGY

- 1) Continuous internal assessment consists of appropriate evaluation at the end of each assignment, term, major/monthly test or course of the curriculum. Proper records of internal evaluations should be maintained and the scores obtained in these tests should contribute 10% to the final total score of the candidates.; that 10% may include class tests, monthly test, sand-up, assignment, reviews which all have specific marks allocation.
- 2) Final university examination of each subject should contribute 90% to the total score, and the students should secure passing marks on the aggregate of the total marks.
- 3) 10% marks of internal evaluation will be added in theory of semester exam. Students should know what is expected of them. They should be able to identify the characteristics of a satisfactory answer and understand the relative importance of those characteristics. This can be achieved in many ways; you can provide feedback on assignments, describe your expectations in class, or post model solutions.
- 4) No grace marks should be allowed in any examination.
- 5) Written examinations consist of MCQ's, short structured essays, (according to curriculum) questions.
- 6) During the course, students will be assessed to determine achievement of course objectives. The test will be scheduled on completion of each chapter. The method of examination comprises of theory exam which includes SEQS, MCQS, practical (Objective Structured Practical Examination) and viva voce.

STUDENT ASSESSMENT CRITERIA

SEMESTER	INTERNAL EVALUATION	TOTAL
EXAMINATION MARKS	(Class tests + Journals + Assignments + Modular	THEORY
	Exam	
90%	10%	100%

INTERNAL ASSESSMENT

The internal assessment will be based on the overall performance in the following:

- 33% lectures and laboratory attendance assessments
- 33% test records both theory and practical's
- 33% sendup results
- If the student score 80% in overall internal assessment the he/she will be giving complete 10% of internal assessment.
- Maintaining a record of all tests and attendance of each student in the form of specially designed personal proforma.

INTERNAL ASSESSMENT OF 3RD YEAR

The internal assessment of 3^{rd} year consist of the following pattern:

SR.NO	MARKS DISTRIBUTION
CLASS TEST	0.25
MAJOR TEST	1
OSPE	0.5
VIVAS	1
REVIEW	2
ASSIGNMENTS	0.5
TERMS	2
SANDUP	3