



DENTAL COLLEGE HITEC-IMS
Study Guide Y3 – T3 - D26
Term 3
Third Year BDS
Coordinator: Dr. Sohaib Siddique

NUMS Vision

The vision of the National University of Medical Sciences is to improve the quality of life through education, research, innovation, and healthcare, thereby contributing to endeavors to make Pakistan and this world a better place to live in.

Institutional Vision

Leading advancement in Oral & Dental health through excellence
in education, patient care and research

Institutional Mission

To serve the local and global communities by producing competent, ethical, socially responsible, research oriented and lifelong learning oral health care professionals



PROGRAM OUTCOMES

Code	Outcome Statement (Graduate will be able to...)	Keywords
PO1	Manage common oral diseases using safe and evidence-based practices.	Diagnosis · Treatment · Safety
PO2	Identify patients requiring referral for specialized oral and dental treatment.	Triage · Scope of Practice · Networks
PO3	Advocate preventive measures against common oral and dental disease.	Prevention · Risk Reduction · Health Promotion
PO4	Demonstrate professional, ethical, and culturally appropriate behavior.	Ethics · Altruism · Cultural Sensitivity
PO5	Engage in lifelong learning for continuous professional development.	CPD · Reflective Practice · Growth
PO6	Demonstrate effective verbal and written communication skills.	Counselling · Documentation · Clarity
PO7	Demonstrate basic skills to conduct research on common oral and dental issues.	Research Literacy · Audit · Inquiry
PO8	Work in healthcare teams and provide leadership when required.	Teamwork · Leadership · Collaboration



Curricular organization of the BDS program

BDS Year 1 (Integrated)	BDS Year 2 (Integrated)	BDS Year 3	BDS Year 4
SUBJECTS			
Anatomy Physiology Biochemistry Oral Biology	Community Dentistry Dental Materials General Pathology Pharmacology Preclinical Operative Dentistry Preclinical Prosthodontics	General Surgery General Medicine Periodontology Oral Medicine Oral Pathology Oral & Maxillofacial Surgery Operative dentistry Prosthodontics	Operative Dentistry & Endodontics Pediatric Dentistry Prosthodontics Oral & Maxillofacial Surgery Orthodontics
Pakistan Studies and Islamiat Fahimul Quran			
Clinical Photography Videography, Expository Writing	EOTO ICT		
LONGITUDINAL THREAD			
		Patient Safety/Digital Dentistry	
Professional communication			
Behavioral Sciences			
Research/ICT			

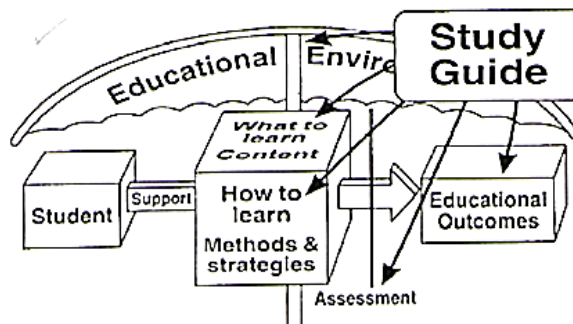
Introduction to the Study Guide:

Dear Students,

This study guide has been developed and updated by the faculty and the Department of Dental Education HITEC-IMS especially for you. This booklet is an aid to:

- Inform you about this part of the curriculum and its organization.
- Help you organize and manage your studies throughout the module.
- Guide you on assessment methods, rules and regulations.
- Communicate information on management of the module. This will help you to contact the right person in case of any difficulty.
- Define the objectives which are expected to be achieved at the end of the module.
- Identify the learning strategies such as lectures, small group discussions, clinical skills, demonstrations, tutorials and case-based learning activities that will be implemented to achieve the module objectives.
- Provide a list of learning resources such as books, and journals for students to consult in order to maximize their learning.

Figure 1. Objectives of the study Guide (HARDEN, J.M. LAIDLAW, E.A. HESKETH, 1999)





Block Committee

Block-III Coordinator:Dr. Sohaib Siddique

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Teaching And Learning Methodologies:

The following teaching/ learning methods are used to promote better understanding:

Educational Opportunities

Hospital Wards
Dental Clinics

Practical

Basic medical sciences and dentistry practical related to are scheduled for firsthand learning of skills

Large Group Interactive Sessions - LGIS

In large group, the lecturer introduces a topic or common clinical condition and explains the underlying phenomena through questions, pictures, videos of patient's interviews, exercises, etc. Students are actively involved in the learning process.

Case-Based Learning - CBL

This is a small group discussion format where learning is focused around a series of questions based on a clinical scenario. Students discuss and answer the questions applying relevant knowledge gained in clinical and basic health sciences during the block.

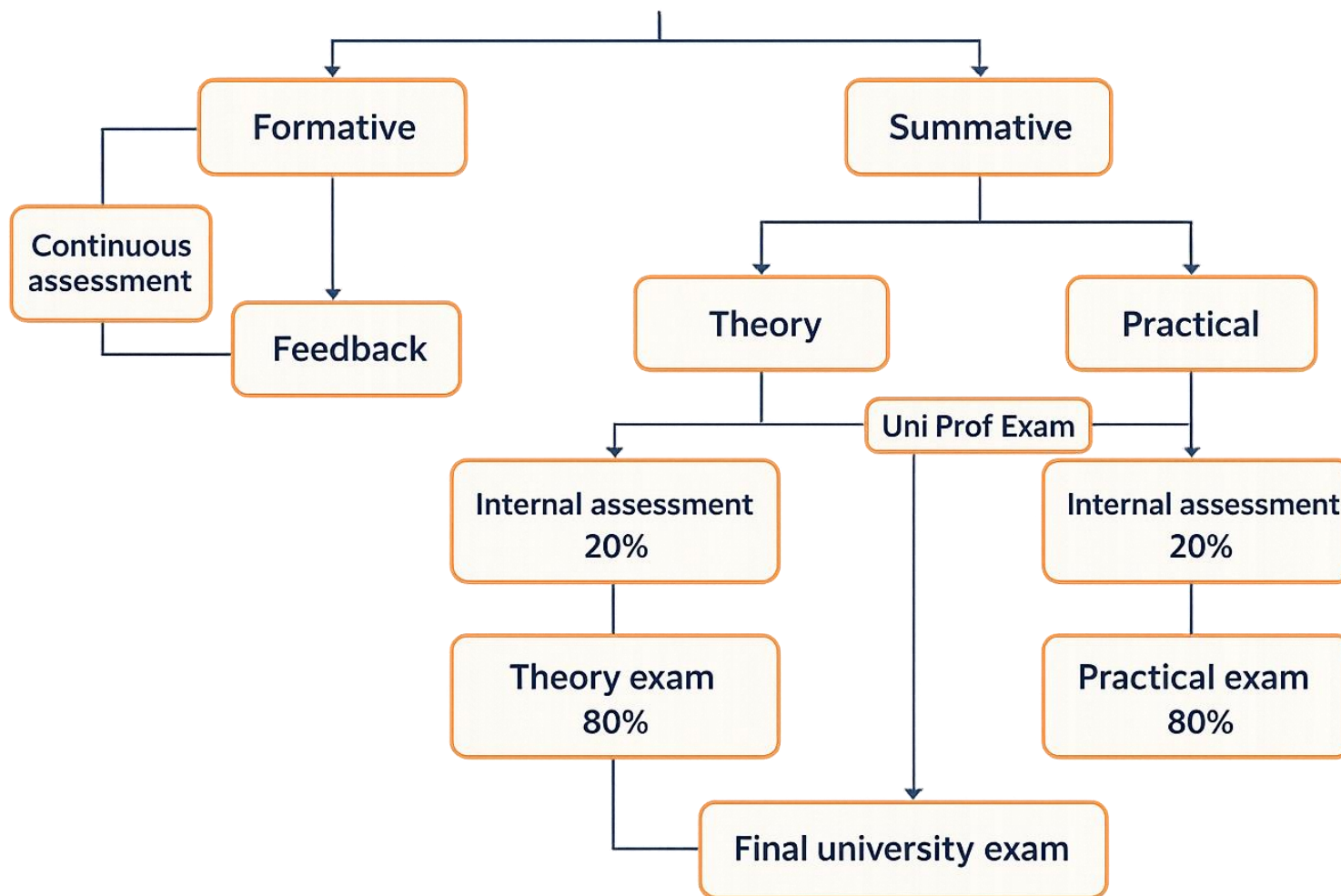
Self-Directed Study - SDL

Students assume responsibilities of their own learning through individual study, sharing and discussing with peers, seeking information from Learning Resource Center, teachers and resource persons within and outside the college. Students will be provided time within the scheduled college hours for self-study.

Small Group Discussion - SGD

This format helps students to clarify concepts, acquired skills, attitudes and achieve objectives for that particular session. Sessions are structured with the help of specific exercises such as patient case, interviews or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials and self-study. The facilitator's role is to ask probing questions, summarize, or rephrase to help clarify and correlate integrated concepts.

Assessment Map





Blocks Organization BDS Year 3

Week	May	June		August		September
	25th–29th	1st–19th	22nd–12th	13th	15 th -18th	21 st -25th
Term	Term 2 (14 Weeks)					
Plan	Oro-Systemic Diseases and Management					
Rotations	Rotations: General Surgery, General Medicine (Group A & B Thu & Fri) Oral Pathology, Oral Medicine (Group A & B Mon to Wed) Periodontology, Operative Dentistry, Prosthodontics & OMFS (Group A, B, C Mon to Wed)					
Blocks / Activities	Block 3	Summer Vacation	Block 3 Continued		Block 3 Continued	3rd Block Exam
Behavioral Sciences & Research						



Academic Calendar Year 3

Commencement of classes: 2nd March 2026		
Disciplines taught in 3rd Year	Oral Pathology, Oral Medicine, Periodontology, General Medicine, General Surgery, Behavioral Sciences, OMFS, Operative and Prosthodontics	
Activity	Dates	Duration
1st Block (11 WEEKS) + 2 weeks Eid + 1-week sports + 1 week 1st block exam = 15 weeks		
Academics	2nd March – 6th March	1 week
Eid holidays	9th March – 23rd March	2 weeks
Academics	24th March – 10th April	3 weeks
Sports week	13th April – 19th April	1 week
Academics	20th April – 22nd May	5 weeks
Eid ul Azha	25th May – 29th May	1 week
Academics	1st June – 12th June	2 weeks
1st BLOCK Exam (written/viva)	15th June – 19th June	1 week
2nd Block (11 WEEKS) + 1 week 2nd block exam + 2 weeks summer vacation = 14 weeks		
Academics	22nd June – 26th June	1 week
Summer Vacation	29th June – 12th July	2 weeks
Academics	13th July – 18th Sep	10 weeks
2nd BLOCK Exam (written/viva)	21st Sep – 25th Sep	1 week
3rd Block (11 WEEKS) + 1 week 3rd block exam + 2 weeks Sendup exams = 15 weeks		
Academics	28th Sep – 11th Dec	11 weeks
3rd BLOCK Exam (written/viva)	14th Dec – 18th Dec	1 week
Prep Leaves Sendup	21st Dec – 25th Dec	1 week
Sendup Exam	28th Dec – 8th Jan	2 weeks
Prep Leaves	9th Jan – 7th Feb	4 weeks
Final Prof	8th Feb 2027	



Alignment of Course Outcomes with Program Outcomes (POs)

Block 3 Outcome	Aligned Program Outcome	Rationale
Differentiate between benign and malignant tumors and immune-mediated disorders on a histopathological basis	PO1, PO2	Supports accurate diagnosis and evidence-based management and identification of cases requiring specialist referral.
Plan medical management of orofacial disorders	PO1, PO2	Involves evidence-based management and recognition of conditions requiring referral.
Manage patients presenting in medical OPD with infectious, rheumatological and endocrine diseases	PO1, PO4, PO8	Enhances safe patient management, professionalism, and teamwork.
Integrate the principles of medical ethics and psychosocial aspects of clinical practice in daily work life	PO4, PO6, PO8	Addresses professionalism, communication, and teamwork.
Apply the constructivist approach to polishing research skills	PO5, PO7	Promotes lifelong learning and research competencies.
Diagnose different periodontal pathologies	PO1, PO2, PO3	Supports disease management, referral decisions, and prevention.
Comprehend the basic concepts of management protocol regarding operative patient, trauma, ATLS, BLS, and introduction of anesthesia	PO1, PO2, PO4, PO8	Supports safe patient care, referral, professionalism, and teamwork.



DENTAL COLLEGE HITEC – INSTITUTE OF MEDICAL SCIENCES

RECORD FORMAT YEARLY ROTATION PLAN CLINICAL ROTATIONS FOR 3RD YEAR BDS (2026)

ORAL MEDICINE / ORAL PATHOLOGY

Dates	Batches	Subjects
9th March – 8th Dec 58+12 = 70 hours	Batch-A	Oral Pathology
	Batch-B	Oral Medicine
	Batch-A	Oral Medicine
	Batch-B	Oral Pathology

GENERAL SURGERY / GENERAL MEDICINE

Dates	Days	Batches	Subjects
12th March – 16th Oct	Thursday	Batch-A	General Surgery
	Thursday	Batch-B	General Medicine
	Friday	Batch-A	General Medicine
	Friday	Batch-B	General Surgery

DURATION DEPARTMENT

No.	Duration	Prosthodontics	OMFS	Operative	Periodontology
1	9th March – 22nd June 1st–11th Week 94 hours	A	B	C	D
2	3rd June – 19th Aug 11th–22nd Week 91 hours	B	C	D	A
3	24th Aug – 27th Oct 23rd–32nd Week (Monday) 91 hours	C	D	A	B
4	28th Oct – 11th Dec 32nd–38th Week 93 hours	D	A	B	C



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Structured Summary – Block III

Term Code	Y4-T3-D26
Term Title	Oro-Systemic Diseases & Management
Duration Of Term	15 weeks
Important Dates	7 th September, 2026 - 11 th September, 2026.
Horizontally Integrated Themes	Oral Medicine, Oral Pathology, Periodontology, General Medicine, General Surgery
Vertically Integrated Themes	• Research Methodology • Behavior sciences
Prerequisite Blocks	2 nd Block Third Year



Introduction to the Block III

Block-III of the Third Year BDS curriculum builds upon the foundational knowledge and clinical skills acquired in Block-II, with greater emphasis on the integration of basic sciences into patient-centered clinical practice. During this block, students strengthen their competencies in **Oral Medicine, Oral Pathology, Periodontology, Operative Dentistry, Prosthodontics, Oral and Maxillofacial Surgery, General Medicine, General Surgery, and Behavioral Sciences** through structured clinical rotations, practical sessions, case-based learning, and supervised patient care. Students are expected to enhance their **diagnostic reasoning, communication, professionalism, infection prevention practices, and evidence-based decision-making** while delivering safe and ethical patient care. The block also advances students' research competencies through data management and statistical analysis, preparing them for interpretation and scientific reporting in the subsequent block. By the end of Block-III, students should demonstrate increasing confidence in comprehensive patient assessment, treatment planning, interdisciplinary collaboration, and lifelong learning in accordance with PMDC graduate competencies.

BEST WISHES;



ICONS, CODES & HIGHLIGHTING KEY		
ITEM	MEANING	PURPOSE (BRIEF)
LGIS	Large Group Interactive Session	Interactive lecture with active student participation
CBL	Case-Based Learning	Small group discussion using clinical scenarios
SGD	Small Group Discussion	Concept clarification through guided discussion
SDL	Self-Directed Learning	Independent student learning
	Vignette (Clinical Scenario)	Short patient case used to apply knowledge clinically
•	Behavioral Sciences / Professional Communications	Communication, ethics, professionalism, empathy
●	Patient Safety	Safety protocols, infection control, risk prevention
DIGITAL DENTISTRY	Digital Dentistry	Digital workflows, CAD/CAM, digital technologies and innovation
	Learning Objective	Key competency students must achieve
	Clinical Skill	Hands-on skills during rotations



Class Test Schedule Block-III

Sr. No	Date	Subject
1	24-10-26	General Surgery
2	16-11-26	Periodontology
3	21-10-26	Oral Pathology
4	30-10-26	General Medicine
5	25-10-26	Oral Medicine
6	09-11-26	Oral Pathology
7	07-12-26	Oral Pathology
8	30-11-26	Periodontology

ORAL MEDICINE

Session – 1,2 Disorders of Bone		Mode of Delivery: LGIS
 You should be able to	• Classify the metabolic and developmental bone disorders affecting the jaws • Describe the clinical and radiographic features of Paget's disease of bone • Describe the clinical and radiographic features of fibrous dysplasia • Enlist the oral and skeletal manifestations of hyperparathyroidism, including central giant cell (brown tumor) lesions • Describe the clinical features and dental management of osteopetrosis • Differentiate the benign fibro-osseous lesions of the jaws • Discuss the dental management considerations in patients with metabolic bone disease	
Session – 3 Disorders of Teeth		Mode of Delivery: LGIS
 You should be able to	• Classify the developmental disorders of teeth according to number, size, shape and structure • Describe the clinical and radiographic features of amelogenesis imperfecta • Describe the clinical and radiographic features of dentinogenesis imperfecta • Enlist the causes and clinical features of hypodontia, hyperdontia and other numerical anomalies. • Describe the etiology, clinical grading and management of dental fluorosis • Differentiate developmental from acquired disorders of tooth structure • Discuss the management options available for developmental dental anomalies.	
Session – 4 Bacterial Infections		Mode of Delivery: LGIS



You should be able to

- Classify the bacterial infections affecting the gingiva and oral mucosa
- Describe the etiology, clinical features and management of acute necrotizing ulcerative gingivitis (ANUG)
- Describe the oral manifestations of syphilis at its various stages
- Describe the oral manifestations of tuberculosis
- Enlist the clinical features and management of actinomycosis
- Discuss the investigations required to diagnose bacterial infections of the oral mucosa
- Outline the management principles for bacterial infections of the gingiva and mucus.

Session – 5,6
Viral Infections

Mode of Delivery: LGIS, CBL



Vignette

A 4-year-old boy is brought in by his mother with a 3-day history of fever, irritability, and refusal to eat or drink. On examination, there are multiple small vesicles and ulcers scattered over the gingiva, tongue, and buccal mucosa, with markedly swollen, erythematous, and friable gingiva. He has tender bilateral submandibular lymphadenopathy. His mother reports this is the first time he has had such lesions and that a similar illness recently went around his playgroup. What is the most likely diagnosis, and how would you manage this patient.



You should be able to

- Classify the viral infections affecting the oral cavity
- Describe the clinical features and management of primary herpetic gingivostomatitis
- Describe the clinical features of recurrent herpes labialis and intraoral recurrent herpes
- Enlist the oral manifestations of varicella-zoster infection (chickenpox and herpes zoster)
- Describe the oral features of hand-foot-and-mouth disease and herpangina
- Discuss the oral manifestations associated with HIV infection
- Outline the management options for the common viral infections of the oral mucosa.

Session – 7,8 Fungal Infections

Mode of Delivery: LGIS



You should be able to

- Classify the fungal infections affecting the oral cavity
- Describe the clinical types and features of oral candidiasis
- Enlist the local and systemic predisposing factors for oral candidiasis
- Describe the clinical features of deep fungal infections affecting the oral cavity, including mucormycosis and histoplasmosis
- Discuss the investigations used to diagnose oral fungal infections
- Outline the management options for oral candidiasis

Session – 9,10,11 Management of Systemic Medical Conditions & Emergencies in Dentistry		Mode of Delivery: LGIS, CBL
 You should be able to	• Enlist the common medical emergencies that may occur in the dental clinic • Describe the clinical features and immediate management of vasovagal syncope • Describe the recognition and emergency management of an anaphylactic reaction • Outline the management of a patient having an acute asthmatic attack in the dental chair • Describe the emergency management of a hypoglycemic episode in a diabetic patient • Enlist the essential contents of a dental emergency drug kit • Discuss the basic life support protocol relevant to the dental clinical setting	
Session – 12,13,14,15 Oral & Maxillofacial Radiology		Mode of Delivery: LGIS
 You should be able to	• Enlist the indications for common intraoral and extraoral radiographic techniques • Describe the principles of radiation protection relevant to dental practice • Describe the radiographic features of common odontogenic cysts and tumors • Differentiate radiolucent from radiopaque lesions of the jaws • Describe the role of advanced imaging modalities (CBCT, OPG) in oral diagnosis • Discuss the principles of radiographic interpretation of periapical and periodontal disease	
Session – 16,17 BRONJ – Radio necrosis & Chemo necrosis		Mode of Delivery: LGIS, CBL



You should be able to

- Define medication-related osteonecrosis of the jaw (MRONJ/BRONJ) and describe its pathogenesis
- Enlist the risk factors for medication-related osteonecrosis of the jaw
- Describe the clinical and radiographic staging of MRONJ
- Define osteoradionecrosis and describe its etiology and pathophysiology
- Describe the clinical features and management of osteoradionecrosis
- Differentiate chemo necrosis from osteoradionecrosis and MRONJ
- Discuss the preventive dental management protocol prior to chemotherapy or radiotherapy

Session – 18
Immunity & Oral Reactions to Drug Therapy

Mode of Delivery: LGIS



You should be able to

- Describe the basic mechanisms of hypersensitivity reactions affecting the oral mucosa
- Describe drug-induced gingival enlargement and its common causative drugs
- Enlist the oral adverse reactions associated with chemotherapeutic drugs
- Describe lichenoid drug reactions and differentiate them from oral lichen planus
- Discuss the management of oral reactions to drug therapy

Total no of sessions	Mode of Assessment
18	(SAQs, MCQs, VIVA)

BEHAVIOUR SCIENCES

Session -1 Leadership styles and theories		Mode of Delivery: Role play/Interactive lecture/SGD
 You should be able to	● Define leadership styles and leadership theories. ● Identify major leadership styles, including autocratic, democratic, laissez-faire, transformational, transactional, and situational leadership. ● Describe the major theories of leadership, including trait, behavioral, contingency, and situational theories. ● Differentiate between major leadership styles and theories based on their key characteristics. ● Compare the advantages and limitations of different leadership styles. ● Apply appropriate leadership styles and theories to given clinical, academic, and team-based scenarios. ● Describe classical and modern management theories. ● Differentiate between classical and modern management approaches. ● Apply management theories to healthcare situations	
Session – 2 Healthcare leadership principles and decision-making		Mode of Delivery: Role play/Interactive lecture/SGD
 You should be able to	● Define leadership and its key principles. ● Describe various approaches to leadership. ● Differentiate between major leadership styles. ● Apply appropriate leadership approaches to clinical and team-based situations. ● Describe healthcare decision-making and crisis leadership. ● Identify key principles of effective decision-making during healthcare crises.	



	● Apply appropriate decision-making and leadership strategies in crisis situations.	
Session – 3 Common psychiatric disorders in general health settings		Mode of Delivery: LGIS SGD/Role Play
 You should be able to	● Identify the key symptoms and diagnostic criteria of Suicide and deliberate self-harm ● Explain the biopsychosocial factors contributing to the onset and maintenance of these conditions. ● Outline basic principles of management for common psychiatric disorders in a general health setting, including when to refer.	
Session – 4 Common psychiatric disorders in general health settings		Mode of Delivery: LGIS
 You should be able to	● Identify the key symptoms and diagnostic criteria of Delirium frequently encountered in general practice. ● Differentiate between delirium and dementia and their key features ● Explain the biopsychosocial factors contributing to the onset and maintenance of these conditions. ● Outline basic principles of management for common psychiatric disorders in a general health setting, including when to refer.	
Session – 5 Psychological interviewing		Mode of Delivery: Role play/LGIS



 You should be able to	● Define the components of a psychosocial history in the context of patient interviews. ● Identify the common psychosocial factors (e.g., family dynamics, social support, cultural background) that can influence a patient's health and wellbeing. ● Explain the significance of understanding a patient's psychosocial history in the context of overall health care.
Session – 6 Civic engagement	Mode of Delivery: LGIS
 You should be able to	● Define civic engagement ● Discuss the importance of civic engagement in dental practices ● Enlist steps to improve access to care ● Discuss different ways in which welfare concerns of community can be added to concerns for individual care ● Discuss how to keep pace with modern changes in practices and in community ● Discuss the implications of modern communication technology in clinical practice

Total no of sessions	Mode of Assessment
06	(SAQs, MCQs, OSCE/VIVA)



ORAL PATHOLOGY

Session – 1,2&3 Soft Tissue Pathology (Fibrous, Neural, vascular)		Mode of Delivery: LGIS,
 You should be able to	● Enlist connective tissue lesions, based on their origin. ● Enlist common benign and malignant fibrous, Neural, and vascular lesions. ● Describe pathogenesis, clinical and histological features of these lesions. ● Enlist and describe various epulides and denture induced lesions of fibrous origin. ● Generate differential diagnosis for these lesions. ● Enlist common immunomarkers used to identify these lesions.	
Session – 4,5&6 Soft Tissue Pathology and Hematological Disorders (Adipose, Muscle, Lymphoproliferative disorders, Lymphomas)		Mode of Delivery: LGIS,



 You should be able to	● Enlist and classify Adipose and Muscular lesions. ● Describe pathogenesis, clinical and histological features of these lesions. ● Generate differential diagnosis for these lesions. ● Enlist common immunomarkers used to identify these lesions. ● Classify Lymphoid and hematological disorders. ● Describe lymphoproliferative disorders. ● Describe Lymphomas. ● Describe pathogenesis, clinical and histological features of these lesions. ● Generate differential diagnosis for these lesions. ● Enlist common immunomarkers used to identify these lesions.	
Session – 7&8 Hematological Disorders		Mode of Delivery: LGIS, Class Test
 You should be able to	● Enlist and classify different types of leukemias ● Describe pathogenesis, clinical features, oral manifestations and histopathology of leukemias. ● Differentiate between lymphomas and leukemias ● Enlist and describe plasma cell neoplasms. ● Apply the knowledge of hematological lesions to recognize their oral manifestations aiding in early diagnosis and appropriate referral in dental practice.	
Session – 9,10 & 11 Infections of Oral Cavity Viral Infections		Mode of Delivery: LGIS,
 You should be able to	● Enlist and classify common viruses affecting oral and maxillofacial areas. ● Describe pathogenesis, structure, clinical manifestations and histopathology of different HHV families. ● Discuss primary and secondary manifestations of HHV families.	



Session – 12, 13,14 Viral, Bacterial		Mode of Delivery: LGIS
 You should be able to	• Describe and differentiate between HIV and AIDS. • Describe pathogenesis in correlation to the life cycle of HIV associated with different clinical stages. • Describe common oral manifestations of HIV and AIDS. • Describe common bacterial infections seen in oral and maxillofacial areas. • Enumerate etiology, pathogenesis, clinical features and histopathological features and diagnostic measures for these infections.	
Session – 15, 16& 17 Fungal Infections		Mode of Delivery: LGIS, Class Test
 You should be able to	• Classify common superficial and deep fungal infections of oral maxillofacial areas. • Enumerate the etiology, pathogenesis, clinical, radiographical and histopathological features of these lesions. • Enumerate diagnostic measures for these fungal infections.	
Session – 18, &19 Bone Pathology (Fibro-osseous lesions, Giant Cell Lesions)		Mode of Delivery: LGIS.
 You should be able to	• Describe the classification and key features of benign fibro-osseous lesions of jaws. • Differentiate cemento-osseous dysplasia, fibrous dysplasia and ossifying fibroma based on clinical, radiographical and histopathological findings. • Describe giant cell lesions of jaws. • Describe their clinical, radiographical and histopathological findings. • Differentiate between different giant cell lesions for accurate diagnosis and management.	



Session – 20, 21&22 Bone Pathology (Metabolic Disorders, Benign Tumors)		Mode of Delivery: LGIS
 You should be able to	• Identify the major metabolic bone disorders affecting the jaw. • Describe the etiology, clinical, radiographic and histopathological features of these lesions. • Correlate systemic skeletal changes with oral and maxillofacial manifestations for appropriate diagnosis and management. • Describe and classify common benign lesions of bone origin. • Describe the pathogenesis, clinical, radiographical and histopathological features of these lesions. • Apply this knowledge in clinical practice.	
Session – 23& 24 Bone Pathology Malignant lesions		Mode of Delivery: LGIS & Class Test
 You should be able to	• Define malignant bone tumors and explain their classification. • Describe the etiology and pathogenesis of common malignant bone tumors. • Identify key clinical and radiographic features of malignant bone lesions. • Recognize the characteristic histopathological features of major malignant bone tumors. • Differentiate malignant bone tumors from benign and reactive bone lesions. • Outline basic principles of management, treatment, and prognosis.	
Session – 25 Salivary Gland Tumors		Mode of Delivery: LGIS, Class test



You should be able to

- Describe epidemiology & common site of occurrence of benign & malignant salivary gland tumors
- Recognize clinical features & histopathological features of malignant salivary gland tumors
- Describe the criteria for histopathological grading of mucoepidermoid carcinoma
- Class test

Total no of sessions	Mode of Assessment
25	(SAQs, MCQs, OSCE VIVA)



PERIODONTOLOGY

Session – 1&2 Periodontal Therapy Phase II		Mode of Delivery: LGIS
 You should be able to	• Apply the clinical knowledge for the surgical management of periodontal disease. • Describe the rationale of phase II periodontal surgery • Apply the knowledge of different surgical techniques and instruments used in periodontal surgery with their indications and contraindications.	
Session –3 Principal of Periodontal Surgery		Mode of Delivery: LGIS, SGD
 You should be able to	• Identify indications and contraindications for periodontal surgery • Identify appropriate instruments • Identify steps for patient preparation before surgery • Demonstrate use of equipment and pre-op management	
Session –4 Hemostasis		Mode of Delivery: LGIS

 You should be able to	● Define hemostasis and explain its importance in maintaining vascular integrity. ● Apply the basic principal of bleeding assessment and management in dental patient. ● Explain the significance of hemostasis in periodontal surgery ● Describe basic local measures for controlling bleeding following periodontal surgery	
Session –5&6 Periodontal Dressings (Periodontal Pack)		Mode of Delivery: LGIS
 You should be able to	● Identify various types of periodontal dressing ● Demonstrate the use of periodontal dressing	
Session –7&8 Fundamental of Periodontal Surgery (Periodontal Incisions)		Mode of Delivery: LGIS
 You should be able to	● Identify and differentiate between the major types of periodontal incisions ● Explain the indication and clinical application of each incision ● Describe the correct placement and angulation of periodontal incision ● Describe the basic principal of an ideal periodontal incision	
Session –9 Periodontal Flaps		Mode of Delivery: LGIS, CPC

 You should be able to	● Identify and classify types of flaps ● Describe flap designs and techniques ● Discuss indications and contraindications of flap surgery ● Understand flap surgery Classification, designs, incisions, suturing, post treatment healing, flap techniques, sutures	
Session –10 Periodontal Surgical Technique Gingival Curettage		Mode of Delivery: LGIS
 You should be able to	● Identify Rationale for treatment ● Describe procedure ● Memorize steps of healing after surgical procedure ● Discuss definition of curettage, rationale, indication, procedure, post treatment healing	
Session –11&12 Periodontal Surgical Technique Gingivectomy, Gingivoplasty		Mode of Delivery: LGIS
 You should be able to	● Identify rationale of treatment ● Describe techniques ● Discuss definition of Gingivectomy – indication and contraindication ● Discuss the surgical technique of gingivectomy using Kirkland knife	
Session – 13 Treatment of Gingival Enlargement		Mode of Delivery: CBL, PBL



Vignette:

A 28-year-old female reported with the complain of enlarged gingiva which is aesthetically unpleasing and hinders while brushing and eating. She had a renal transplant 1 year back and is on immunosuppressant. What is the decision tree for the drug induced gingival enlargement?



You should be able to

- Discuss management of gingival enlargement
- Classify the types of gingival enlargement
- Recognize and describe gingival enlargement
- Decision tree for treatment of gingival enlargement

Session –14
Periodontal Flap Surgery Modified Widman Flap Technique

Mode of Delivery:
LGIS



You should be able to

- Explain the rationale and objectives of modified Widman flap
- Describe the steps of modified Widman flap
- Differentiate the modified Widman flap from other periodontal flap procedures.
- Describe the role of **digital periodontal charting** in recording and monitoring periodontal status.
- Use digital periodontal records to support **diagnosis, treatment planning and follow-up**.
- Describe the role of **digital clinical photography** in periodontal documentation and monitoring.
- Interpret digital radiographic images relevant to periodontal assessment.
- Maintain confidentiality and secure storage of **digital periodontal records and clinical photograph**

Session –15
Periodontal Flap Surgery Undisplaced Flap

Mode of Delivery:
LGIS



You should be able to

- Explain the rationale and objectives of Undisplaced flap
- Describe the steps of Undisplaced flap
- Differentiate the Undisplaced flap from other periodontal flap procedures



Session –16 Periodontal Flap Surgery Apically Displaced Flap	Mode of Delivery: LGIS
 You should be able to	● Explain the rationale and objectives of Apically displaced flap ● Describe the steps of Apically displaced flap ● Differentiate the Apically displaced flap from other periodontal flap procedures
Session –17&18 Sutures & Suturing Technique	Mode of Delivery: LGIS
 You should be able to	● Recall the various types of sutures ● Describe suturing techniques ● Identify various types of periodontal dressing ● Demonstrate the use of periodontal dressing ● Describe classification of sutures ● Discuss common suturing techniques



Session –19&20 Furcation Problem and its Management		Mode of Delivery: LGIS
 You should be able to	• Describe furcation, factors, indications, and treatment options • Describe Furcation Involvement – Anatomy, Diagnosis, Factors affecting, Classification, Treatment Options, prognosis	
Session –21&22 Periodontal Regeneration (GTR, GBR)		Mode of Delivery: LGIS



You should be able to

- Describe the rationality of the procedure
- Describe the procedure of GTR
- Classify graft materials used in periodontal therapy
- Explain the rationale, and concept of GTR
- Describe the procedure, indications and contraindications
- Describe the graft materials

Session –23&24

Perio-Endo Relationship and its Management

Mode of Delivery: [LGIS](#)



You should be able to

- Define and classify the perio endo lesion
- Interpret the interrelationship of endo – perio and perio restorative prosthodontics procedure
- Identify the risk factors associated with perio-endo lesion



Session –25&26 Dental Implants

Mode of Delivery: **LGIS**



You should be able to

- Discuss the concept of Osseo integration
- Elaborate basic implant surgical procedure and prosthetic considerations for partially edentulous patients
- Relate peri- implant infections to implant related complications and failure
- Summarize indications and contraindications of implant placement

Total no of sessions	Mode of Assessment
26	(SAQs, MCQs, OSCE VIVA)



GENERAL MEDICINE:



Infectious diseases

Session –1

ENTERIC FEVER

Mode of Delivery: **LGIS,**
CBL



Vignette

A 26-year-old male was admitted to the hospital with complaints of fever, abdominal pain and constipation. On examination there was fever of 102-degree F, bradycardia despite high grade fever, rash in the upper abdomen and back as sparse, slightly raised, rose-red spots which fades on pressure and his tongue was coated. Blood culture was sent and ciprofloxacin was started.





You should be able to

- Describe the clinical features of enteric fever
- Describe the path-physiology of Salmonella typhi and para typhi
- Interpret investigations for enteric fever
- Outline treatment guidelines for enteric fever
- Recognize complications of enteric fever

Session -2 DENGUE FEVER

**Mode of Delivery: LGIS
PBL**



You should be able to

- Describe about the epidemiology of Dengue fever
- Describe about dengue fever vector and its prevention
- Describe the clinical presentation of dengue fever
- Describe treatment of dengue fever
- Identify complications of dengue fever

Session –3 Malaria Fever

Mode of Delivery: LGIS



You should be able to

- Describe about the epidemiology of Malaria fever
- Describe about malaria fever vector and its prevention
- Describe the clinical presentation of malaria fever
- Describe treatment of malaria fever



	• Identify complications of dengue fever • Black water fever	
Session –4 HIV and STD -1		Mode of Delivery: LGIS,C.B.L
 You should be able to	• Describe pathophysiology of HIV • Describe epidemiology of HIV • Recognize clinical features of HIV • Explain difference between HIV and AIDS	
Session –5 HIV and STD -II		Mode of Delivery: LGIS,S.G.D
 You should be able to	• Describe clinical features of AIDs • Describe investigation for HIV • Describe management of HIV • Should be familiar with HIV and its systemic complications	
Session –6 ACUTE FEBRILE ILLNESS		Mode of Delivery: LGIS, Clinical/Practical



 You should be able to	• Recognize the clinical presentation of Pyrexia of unknown origin • Describe the causes of PUO • Describe the investigations of PUO • Describe management and complications of PUO
Session – 7 <u>Fungal Infection- I</u>	Mode of Delivery: LGIS, SGD
 You should be able to	• Describe the classification of fungal infection • Identify the presentations of fungal infections • Describe clinical features of fungal infection • Identify systemic manifestation of fungal infections
Session –8 <u>Fungal infection- II</u>	Mode of Delivery: LGIS
 You should be able to	• Describe the investigations for fungal infection • Explain the management of fungal infections • List the systemic complications of fungal infections.
<i>Endocrine system</i> Session – 9 Diabetes Mellitus-I	Mode of Delivery: LGIS, S.G.D



 You should be able to	• Describe the pathogenesis of diabetes • Describe the etiological classification of diabetes • Describe MODY • Identify presenting problems of diabetes
Session –10 Diabetes Mellitus-II	
 You should be able to	• Describe how to establish a diagnosis of diabetes • Identify Diabetic emergencies such as DKA • Describe hypoglycemia and its management • Describe management of diabetes including oral hypoglycemic drugs and insulin
Session – 11 Thyroid-I	
 You should be able to	• Describe the presenting problems in thyroid disease • Describe about features of hypothyroidism and hyperthyroidism • Recognize clinical features of thyroid disorders
Session –12 Thyroid-II	
Mode of Delivery: LGIS, P.B.L	
Mode of Delivery: LGIS	
Mode of Delivery: LGIS, CBL	



 You should be able to	• Describe the interpretation of thyroid function test • Describe the management of thyroid disease • Recognize complications and thyroid malignancies	
Session –13 Parathyroid-I		Mode of Delivery: LGIS, S.G.D
 You should be able to	• Describe the Clinical features of hyper and hypo parathyroidism • Familiar with common complaints in patient of parathyroid disease • Interpret biochemical results of PTH levels, CA and vit D	
Session –14 Parathyroid -II		Mode of Delivery: LGIS, Clinical/practical
 You should be able to	• Describe the management of hyper and hypo parathyroid • Describe the management of hypercalcemia	
MUSCULOSKELETAL DISORDERS Session –15 Osteoporosis-I		Mode of Delivery: LGIS, PBL.S.G.D



You should be able to

- Describe the pathophysiology and Ca Vita D metabolism
- Describe the mechanism of Vit D activation
- Identify risk factors for osteoporosis
- Recognize steroid induced osteoporosis
- Describe clinical features of osteoporosis

Session –16 Osteoporosis-II

Mode of Delivery: LGIS, S.G.D



You should be able to

- Interpret DEXA Scan
- Describe the drugs used in management of osteoporosis
- Describe clinical features of osteomalacia and rickets
- Describe clinical features of osteoarthritis

Session – 17 Rheumatoid arthritis-I

Mode of Delivery: LGIS, S.G.D



Vignette

A 62-year-old woman presents with a 15-year history of gradually progressive pain and stiffness in both hands. She reports morning stiffness lasting more than 1 hour and difficulty opening jars and performing fine movements. Examination shows bilateral MCP and PIP joint deformities with ulnar deviation of the fingers, along with chronic swelling and wasting of the small hand muscles, as shown in the image.



You should be able to

- Describe pathophysiology of RA
- Calculate ACR criteria for rheumatoid arthritis
- Describe clinical features of RA
- Recognize the extra-articular manifestation of RA
- Formulate an appropriate management plan for patients presenting with RA

Session –18
Rheumatoid arthritis -II

**Mode of Delivery: [LGIS](#),
[S.G.D](#)**



You should be able to

- Interpret RA Serology
- Describe DMARDs and biological drugs for RA
- Describe felty syndrome and Caplan syndrome
- Describe complications of RA



Session – 19 and 20 SLE and other autoimmune disorders		Mode of Delivery: LGIS.PBL,SGD
 You should be able to	● Identify the pathophysiology of SLE ● Describe clinical features of SLE and other autoimmune disorders ● Interpret investigations for diagnosis of various autoimmune diseases ● Describe management steps for SLE treatment ● Identify complications of SLE	

Total no of sessions	Mode of Assessment
20	(SAQs, MCQs, OSCE VIVA)

GENERAL SURGERY

Session –1,2,3 <i>COMMON SURGICAL DISORDERS RELEVANT TO DENTAL PRACTICE</i> Benign and malignant disorders of the Thyroid gland Thyroidectomy & its complications		Mode of Delivery: LGIS
 You should be able to	• Demonstrate basic comprehension of the following with emphasis on clinical application: • The embryology and anatomy of the thyroid and parathyroid gland • The physiology and investigations of thyroid gland • Various types of benign and malignant thyroid swellings • Clinical history taking / examination of a patient presenting with thyroid swelling • Clinical symptoms and signs that indicate thyroid malignancy • Selection of appropriate investigations for thyroid swellings • Overview of various treatment modalities available for treatment of thyroid disorders, their advantages and disadvantages	
Session – 4&5 QUALITY OF CARE IN CLINICAL PRACTICE		Mode of Delivery: LGIS,
 You should be able to	• Identify appropriate principles of surgical ethics in the clinical scenarios presented to them Identify potential pitfalls and recommend improvements related to ethical principles in clinical scenarios presented to them • Demonstrate basic comprehension of the following with emphasis on clinical application: • Can quality of clinical care be measured • Key Performance Indicators (KPIs) in clinical care • Introduction to clinical audit and the audit cycle • Differences between clinical audit and clinical research	



	● Demonstrate basic comprehension of the following with emphasis on clinical application: ● What is Evidence Based Medicine (EBM) ● Why is EBM required , How is EBM integrated into clinical practice, Lessons learned from history from poor EBM practices	
Session – 6&7 Disorders of the Parathyroid gland (Hyper and hypo parathyroidism, benign hyperplasia, malignancy, MEN syndromes) and their surgical management		Mode of Delivery: LGIS,
 You should be able to	● Demonstrate basic comprehension of the following with emphasis on clinical application: ● The embryology and anatomy of the parathyroid gland ● The physiology and investigations of parathyroid gland, selection of appropriate investigations for parathyroid disorders ● Various types of benign and malignant disorders of the parathyroid gland ● Difference between primary, secondary and tertiary hyper parathyroidism ● Clinical history taking / examination of a patient presenting with parathyroid disorder ● Overview of various treatment modalities available for treatment of parathyroid disorders ● Parathyroidectomy and its complications ● The concept of auto transplantation of parathyroids	
Session –8 Benign and Malignant disorders of the Salivary glands		Mode of Delivery: LGIS
 You should be able to	● Demonstrate basic comprehension of the following with emphasis on clinical application: ● The surgical anatomy of the salivary glands ● The presentation, pathology and investigation of common benign and malignant salivary gland disease ● The medical and surgical treatment of stones, infections and tumours that affect salivary glands ● Parotidectomy, its complications and their management	



- Surgical excision of the submandibular salivary gland and its complications

Session -9

Neck dissections & its types

Differential diagnosis & diagnostic approach to neck swellings

Mode of Delivery:

LGIS,



You should be able to

- Demonstrate basic comprehension of the following with emphasis on clinical application:
- The meaning of term 'Neck dissection'
- The concept of en-bloc resection of draining lymph nodes in surgical oncology
- The various types of neck dissections used in surgical practice, their pros and cons

Session –10,11&12

Oral cancer and precancerous conditions (Carcinoma tongue and lip)

Mode of Delivery:

LGIS, **CBL**



Vignette

A 55-year-old man presents with a non-healing ulcer on the lateral border of his tongue for the past 6 weeks, associated with pain and difficulty in swallowing. He has a 30-year history of smokeless tobacco and cigarette use. Examination reveals an indurated ulcer with an irregular margin and an enlarged cervical lymph node.



You should be able to

- Demonstrate basic comprehension of the following with emphasis on clinical application:
- Demography of oral cancer
- Oral cancer prevalence in Pakistan
- Risk factors for development of oral cancer especially the relationship between oral cancers and the use of alcohol and tobacco
- Premalignant lesions of the oral cavity, their diagnosis and management
- The concept of 'Field change' in malignancies of the aero-digestive tract
- The cardinal clinical features and management of patients presenting with oropharyngeal cancer (employing carcinoma tongue and lip as the prototype disease conditions)
- Surgical reconstruction in patients undergoing.

Session – 13&14
Skin malignancies
Common benign skin swellings

Mode of Delivery:
LGIS,



You should be able to

- Demonstrate basic comprehension of the following with emphasis on clinical application:
- Clinical anatomy of skin
- Clinical examination of an ulcer and swelling
- Various morphological types of skin ulcers and their differential diagnoses
- Premalignant lesions of the skin
- Demography, clinical features and management of common skin malignancies namely Squamous and Basal celled carcinoma, Malignant Melanoma



Total no of Sessions.	Mode of Assessment
14	(DOPs, OSCE Mini-CEX, VIVA)

CLINICAL ROTATIONS:

ORAL MEDICINE

Session – 1 Basics of Radiology, X-ray Production & Processing		Mode of Delivery: Demonstration, SGD
 You should be able to	• Define radiology and enlist the basic terminology used in dental radiography • Describe the production of X-rays and the reactions occurring at the target • Describe the different types of film and digital processing used in dental radiography • Enlist the types of image receptors, sensors and film holders used in intraoral radiography. • Apply correct patient identification, history verification, allergy checking, and risk assessment before clinical examination or treatment. • Maintain patient confidentiality and demonstrate appropriate professional communication when managing patients with infectious diseases.	



Session – 2 Radiation Safety & Infection Control in Radiology		Mode of Delivery: Demonstration, SGD
 You should be able to	- Describe the principles of radiation safety and protection for the patient and operator - Enlist the ALARA principle and dose-reduction measures used in dental radiography - Describe the infection control protocols followed before, during and after radiographic procedures - Demonstrate the correct handling and disinfection of sensors, holders and equipment	
Session – 3 Intraoral Radiographic Techniques & Interpretation		Mode of Delivery: Demonstration, SGD
 You should be able to	- Demonstrate the technique and enlist the indications of periapical radiographs - Demonstrate the technique and enlist the indications of occlusal radiographs - Demonstrate the technique and enlist the indications of bitewing radiographs - Interpret periapical, occlusal and bitewing radiographs for normal anatomical landmarks and common pathology. - Obtain and document informed consent before relevant clinical procedures.	
Session – 4 Techniques of Intraoral Radiography – Parallelism & Bisecting Angle		Mode of Delivery: Demonstration, SGD



You should be able to

- Demonstrate the principles and technique of the paralleling method
- Demonstrate the principles and technique of the bisecting angle method
- Differentiate between the paralleling and bisecting angle techniques with respect to image quality and distortion
- Identify the common positioning errors associated with each technique

Session – 5
Extraoral Radiographic Techniques & Interpretation

Mode of Delivery:
Demonstration, SGD



You should be able to

- Enlist the indications for extraoral radiographic and imaging techniques
- Interpret an orthopantomogram (OPG) for normal anatomy and common pathology
- Describe the principles and interpret basic images of cone beam computed tomography (CBCT)
- Describe the indications and basic principles of magnetic resonance imaging (MRI) in oral and maxillofacial diagnosis
- Discuss a lateral cephalometric radiograph and identify commonly used landmarks.
- Apply principles of radiation safety when using dental radiographic investigations, including justification of exposure and ALARA principles.

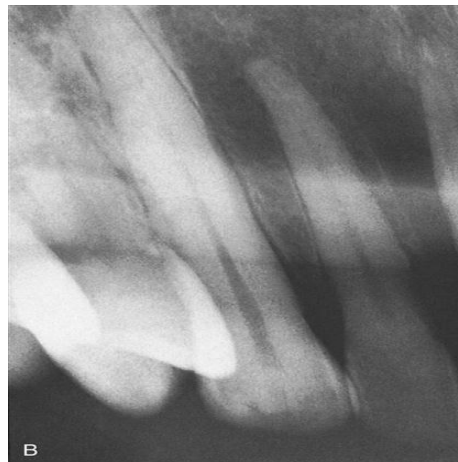
Session – 6
Radiographic Errors & Problems Encountered in Radiology

Mode of Delivery:
Demonstration, SGD



Vignette:

A dental student exposes a periapical radiograph of the upper first premolar region using the bisecting angle technique. On processing, the resulting image shows marked elongation of the roots with the apices appearing distorted, making it difficult to assess the periapical bone level accurately. The crown-to-root proportion also appears abnormal compared to the actual tooth anatomy.



You should be able to

- Enlist the common errors encountered during intraoral radiographic procedures
- Enlist the common errors encountered during extraoral radiographic procedures
- Describe the causes and corrective measures for common processing and technique errors
- Identify radiographic errors on sample radiographs and suggest corrective steps.
- Identify different digital image receptors and sensors used in intraoral radiography.
- Demonstrate appropriate principles of digital radiographic image acquisition and processing.



	• Describe the use of digital radiography in diagnosis and treatment planning. • Demonstrate appropriate handling, disinfection and infection-control measures for digital sensors and digital radiographic equipment. • Apply ALARA principles while using digital radiographic systems. • Recognize the limitations of digital radiographic images and correlate findings with clinical examination.
Session – 7,8,9,10 Management of Dental Emergency /Emergency Drugs & Instruments	Mode of Delivery: Demonstration, Role Play, SGD
Vignette: A 24-year-old male patient is undergoing a routine tooth extraction under local anesthesia. Midway through the procedure, he suddenly becomes pale, sweaty, and light-headed, and reports feeling nauseated. His pulse becomes weak and slow, and he loses consciousness briefly in the dental chair. He has no known history of cardiac or respiratory disease and was anxious before the procedure.	
You should be able to	• Discuss the management of dental emergencies encountered in clinical practice • Enlist the emergency drugs kept in a dental emergency kit and their indications • Describe the route of administration and dosage of commonly used emergency drugs • Enlist the instruments and equipment required for managing a medical emergency in the dental clinic • Demonstrate the correct use of emergency equipment, including the oxygen delivery system • Demonstrate the checking and maintenance protocol for an emergency kit and instruments. • Recognize potential patient safety risks, adverse events, and near-miss incidents and appropriately report or escalate them to the supervising clinician. • Demonstrate safe communication, teamwork, clinical handover, and escalation when managing patients. • Maintain accurate, confidential, and timely clinical documentation and patient records.



- Demonstrate safe **communication, teamwork, clinical handover, and escalation** when managing patients

Total no of sessions.	Mode of Assessment
10	(DOPs, OSCE , VIVA)

ORAL PATHOLOGY

Session –1
Soft Tissue Pathology
(Fibrous lesions)

Mode of Delivery:
DEMONSTRATION,
SGD



 You should be able to	● Identify Peripheral giant cell granuloma and Pyogenic Granuloma Under the Microscope. ● Describe the histopathological features of Peripheral giant cell granuloma and pyogenic granuloma. ● Draw their well labelled diagrams with Hematoxylin and Eosin pencils	
Session–2 Soft Tissue Pathology (Fibrous and Vascular lesions)		Mode of Delivery: DEMONSTRATION, SGD
 You should be able to	● Identify different swellings on alveolar ridge and gingiva. ● Identify different lesions of diverse origin in oral maxillofacial areas. ● Generate differential diagnosis for these lesions.	
Session –3 Lymphoid lesions		Mode of Delivery: DEMONSTRATION, SGD,
 You should be able to	● Describe the histopathological features of Hodgkin`s Lymphoma and Burkitt`s Lymphoma ● Draw their well labelled diagrams with Hematoxylin and Eosin pencils	
Session –4 Soft Tissue Pathology		Mode of Delivery: CBL-1,



Vignette

A 36-year-old male patient presents to the dental clinic with a chief complaint of a painless swelling on the lower anterior gingiva, first noticed approximately three months prior to presentation. The lesion has enlarged over time but remains asymptomatic. Clinical examination reveals a firm, sessile, well-circumscribed mass measuring approximately 1.5 cm in diameter, located on the buccal aspect of the mandibular gingiva adjacent to the left central and lateral incisors. The surrounding teeth are vital and non-mobile. The patient's oral hygiene is fair, with moderate plaque accumulation noted.





 You should be able to	● Define the term epulis and describe its various clinical types ● Formulate a list of differential diagnoses, based on clinical presentation ● Outline the appropriate steps required to reach a definitive diagnosis ● Describe the salient microscopic features of the entities considered in the differential diagnosis ● Propose a brief but comprehensive treatment plan for the lesion	
Session–5 Infections		Mode of Delivery: DEMONSTRATION, SGD
 You should be able to	● Describe the histopathological features of Actinomycosis, candidiasis and tuberculosis. ● Draw their well labelled diagrams with Hematoxylin and Eosin pencils ● Identify Different infections on clinical grounds. ● Generate differential diagnosis.	
Session–6 Hematological Disorders.		Mode of Delivery: DEMONSTRATION, SGD
 You should be able to	● Identify Lymphomas and Leukemias on clinical grounds. ● Generate differential Diagnosis for these conditions.	
Session –7 Bone Pathology		Mode of Delivery: DEMONSTRATION, SGD

 You should be able to	• Describe the clinical features of developmental bony projections. • Describe location and their clinical significance. • Generated differential diagnosis for these lesions. • Describe the radiolucent lesions on radiographs. • Generate differential diagnosis for these lesions.
Session –7 Bone Pathology	Mode of Delivery: DEMONSTRATION, SGD
 You should be able to	• Diagnose fibrous dysplasia and ossifying fibroma under microscope. • Describe their histopathological features • Draw their well labelled diagrams with hematoxylin and eosin pencils.
Session–9 Bone Pathology	Mode of Delivery: CBL
Vignette A 41year old asymptomatic man underwent panoramic radiography diffused bony, hard swelling which revealed a diffused mixed lesion in posterior mandible. The swelling has slowly increased in size for the last one year without any complaint of pain.	



You should be able to

- Describe the classification and key features of benign fibro-osseous lesions of the jaws.
- Differentiate cemento-osseous dysplasia, fibrous dysplasia, and ossifying fibroma based on clinical, radiographic, and histopathological findings.
- Identify, differentiate, and correlate the clinical, radiographic, and histopathological features of benign fibro-osseous lesions of the jaws for accurate diagnosis and management.
- Apply this knowledge in dental practice.

Session-10 Bone Pathology

Mode of Delivery:
DEMONSTRATION, SGD



You should be able to

- Describe the radio-opaque lesions on radiographs.
- Generate differential diagnosis for these lesions.

Total no of Sessions.	Mode of Assessment
10	(DOPs, OSCE Mini-CEX, VIVA)

GENERAL MEDICINE

Session-1 Clinical Assessment of ENTERIC FEVER.		Mode of Delivery: DEMONSTRATION
 You should be able to	● Obtain a focused history from a patient presenting with enteric fever and common gastrointestinal symptoms. ● Perform a relevant clinical assessment to identify features suggestive of enteric fever. ● Interpret Blood C/S results to support the diagnosis of enteric fever. ● Identify common routes of transmission of enteric fever and provide appropriate patient counseling on preventive measures. ● implement standard infection prevention and control measures while assessing patients with suspected enteric fever and recognize the need for timely referral to prevent complications.	
Session–2 Clinical Assessment and Management of Vector borne diseases		Mode of Delivery: DEMONSTRATION,SGD
 You should be able to	● Obtain a focused history from a patient presenting with dengue fever ● Perform a detailed systematic examination to identify the clinical signs of dengue fever ● Interpret clinical findings to formulate a provisional diagnosis and outline the initial management of dengue fever	



	Implement standard infection prevention and control measures while assessing patients with suspected dengue fever and recognize the need for timely referral to prevent transmission	
Session-3 Clinical Assessment of FUNGAL INFECTIONS		Mode of Delivery: DEMONSTRATION,SGD
 You should be able to	- Obtain a focused history from a patient presenting with fungal infection - Identify the common presenting complaints and clinical features of fungal infections - Assess risk factors and modes of transmission of fungal infections - Provide appropriate patient counseling on the prevention of fungal infection transmission - Apply adhere to standard precautions and safe handling of blood and body fluids while assessing patients with suspected or confirmed viral infection to minimize the risk of disease transmission.	
Session –4 Clinical Assessment and Management of Thyroid Disorders		Mode of Delivery: DEMONSTRATION,SGD
 You should be able to	- Obtain a comprehensive history from a patient with thyroid disease including common presenting complaints and risk factors for thyroid disease - Interpret thyroid function tests - Perform a systematic clinical examination of a patient with thyroid disease. - Interpret clinical findings to identify complications of thyroid disease - Develop an appropriate management plan for patients with thyroid disorders i.e Hyperthyroidism and hypothyroidism - Demonstrate safe communication, teamwork, clinical handover, and escalation when managing patients	



Session –5 Clinical Assessment and Management of Diabetes Mellitus		Mode of Delivery: DEMONSTRATION, SGD,PBL
 You should be able to	● Obtain a focused history from a patient presenting with new diagnosis of diabetes mellitus ● Identify the clinical features and risk factors associated with diagnosis of diabetes. ● Formulate a provisional diagnosis based on history and clinical findings. ● Outline the principles of management, including the appropriate use of oral hypoglycemic drugs and insulin ● Demonstrate Insulin injection technique ● identify alarm symptoms requiring urgent referral, review contraindications and potential drug interactions before initiating therapy, and provide counseling on the safe use of medications and lifestyle modifications	
Session –6 Clinical Assessment and Management of Diabetic Emergencies DKA ,HHS		Mode of Delivery: DEMONSTRATION, SGD
 You should be able to	● Obtain a focused history from patients presenting with diabetic emergency ● Perform a systematic clinical examination identifying signs and symptoms that help in diagnosis of DKA/HHS. ● Perform and interpret ABG findings to support the diagnosis of DKA/HHS ● Calculate serum osmolality ● Emergency management of diabetic emergencies. ● Assess the severity of DKA or HHS , recognize red-flag features requiring urgent intervention, and administer insulin infusion and IV fluid therapy while ensuring timely referral when indicated	



Session – 8 & 9 Clinical Workup and Management of RHEUMATOID ARTHRITIS		Mode of Delivery: DEMONSTRATION, SGD
 You should be able to	• Perform the clinical workup of a patient with RA including focused history taking and relevant investigations. • Calculate ACR score and co relate with disease activity • Outline the principles RA management and recognize common adverse effects of DMARDS and biological drugs treatment and identify complications of rheumatoid arthritis • Monitor patients receiving DMARDS/biological drugs for treatment response and drug-related complications requiring further evaluation. • Recognize red flags requiring urgent referral and provide safe initial management to prevent complications	
Session – 9 & 10 Clinical Assessment of Musculoskeletal Disorders		Mode of Delivery: DEMONSTRATION, SGD
 You should be able to	• Obtain a comprehensive history, including presenting complaints and significant past medical history in patients with musculoskeletal disorders • Perform a systematic musculoskeletal examination and identify abnormal findings. • Differentiate Rheumatoid arthritis and osteoarthritis and correlate clinical features with the likely diagnosis. • Outline the initial diagnostic workup for a patient presenting with musculoskeletal disorders • Recognize red flags requiring urgent referral and provide safe initial management to prevent complications	



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Total no of weeks.	Mode of Assessment
10	(DOPs, OSCE Mini-CEX, VIVA)

PERIODONTOLOGY

Session-1 Introduction to Periodontal Clinical Practice, Infection Control, Ergonomics & Patient Positioning.		Mode of Delivery: DEMONSTRATION. ROLE PLAY
 You should be able to	● Obtain a comprehensive periodontal history using effective communication skills. ● Perform a systematic extraoral and intraoral examination following a standardized clinical sequence. ● Demonstrate correct operation of the dental unit and identify its essential components. ● Position the patient and operator according to ergonomic principles for safe and efficient clinical practice. ● Apply standard infection prevention and control protocols, including hand hygiene, appropriate use of PPE, and aseptic techniques to ensure patient and operator safety during periodontal examination	
Session-2 Instrument Grasps, Instrumentation Strokes, and Chairside Ethics & Professional Conduct.		Mode of Delivery: DEMONSTRATION, PRESENTATIONS, DIGITAL TOOLS



You should be able to

- Demonstrate the correct modified pen grasp and appropriate finger rest for periodontal instrumentation.
- Perform basic periodontal instrumentation strokes (assessment, exploratory, scaling, and root planning strokes) on simulation models using correct technique.
- Demonstrate professional chairside etiquette by communicating respectfully with patients and maintaining patient comfort, privacy, and dignity during clinical procedures.
- Maintain appropriate operator posture and ergonomic principles while performing periodontal instrumentation.
- **Apply** safe instrument handling and transfer techniques to prevent sharps injuries and ensure the safety of patients, operators, and assisting staff.
- **Demonstrate safe communication, teamwork, clinical handover, and escalation when managing patients**

Session-3
Periodontal Examination and Identification of Healthy and Diseased Gingiva.

Mode of Delivery:
DEMONSTRATION, SGD



You should be able to

- Perform a systematic periodontal examination using a standardized clinical approach.
- Identify the anatomical landmarks of the gingiva and periodontium during clinical examination.
- Differentiate the clinical features of healthy gingiva from gingival and periodontal disease in patients.
- Record periodontal examination findings accurately using appropriate clinical terminology.
- **Apply** infection prevention and patient comfort measures while performing periodontal examination to minimize the risk of cross-infection and patient discomfort

Session-4
Clinical Diagnosis of Periodontal and Gingival Diseases and Plaque Control Measures

Mode of Delivery:
DEMONSTRATION, SGD



 You should be able to	● Examine patients and identify the clinical features of common gingival and periodontal diseases. ● Formulate a provisional clinical diagnosis of gingival and periodontal diseases based on history and clinical examination. ● Demonstrate mechanical plaque control techniques, including proper toothbrushing and interdental cleaning methods, on patients or simulation models. ● Provide individualized patient education on appropriate chemical plaque control agents (e.g., mouth rinses) and their correct use. ● Apply patient-centered oral hygiene instructions by selecting safe and appropriate plaque control measures according to the patient's oral condition, while minimizing the risk of soft tissue injury and ensuring infection control practices	
Session-5 Oral Hygiene Instructions, Prescription Writing, and Periodontal Treatment Planning.		Mode of Delivery: DEMONSTRATION, SGD
 You should be able to	● Demonstrate individualized oral hygiene instructions based on the patient's periodontal condition. ● Write accurate and complete prescriptions for commonly used periodontal medications according to standard prescribing principles. ● Develop an appropriate treatment plan for patients with different types of gingival and periodontal diseases based on clinical findings. ● Communicate the proposed treatment plan effectively, including preventive and maintenance strategies, while obtaining informed patient participation. ● Apply safe prescribing practices by verifying patient identity, medical history, allergies, contraindications, and drug interactions before prescribing medications and planning periodontal treatment.	
Session-6 Interpretation of Periodontal Radiographs and Diagnosis of Gingival Recession & Furcation Involvement		Mode of Delivery: DEMONSTRATION, SGD



You should be able to

- Assess and interpret orthopantomograms (OPGs) and periapical radiographs for periodontal findings.
- Identify radiographic features of periodontal bone loss and other periodontal abnormalities.
- Examine and diagnose gingival recession and furcation involvement using appropriate clinical examination techniques.
- Correlate clinical and radiographic findings to establish a periodontal diagnosis.
- Apply radiation protection principles, including adherence to the ALARA (As Low As Reasonably Achievable) principle and appropriate patient shielding, while requesting and interpreting periodontal radiographs.
- Apply principles of **confidentiality, secure storage, retrieval, and appropriate sharing of digital patient information and clinical images.**
- Recognize the limitations of digital technologies and integrate digital findings with **clinical examination and professional judgement**

Session-7
Non-Surgical Periodontal Management, Ultrasonic Scaling, and Periodontal Surgical Instruments.

Mode of Delivery:
DEMONSTRATION, SGD



You should be able to

- Demonstrate the steps involved in the non-surgical management of patients with periodontal disease.
- Identify the components of an ultrasonic scaler and demonstrate its safe setup and basic operating procedure.
- Identify and handle commonly used periodontal surgical instruments according to their indications and functions.
- Select appropriate instruments for non-surgical periodontal procedures based on clinical requirements.
- Apply safe instrumentation practices, including correct use of personal protective equipment (PPE), infection control measures, and ergonomic principles to minimize the risk of cross-infection, aerosol exposure, and operator or patient injury during periodontal procedures.



Session-8 Ultrasonic Scaling: Equipment, Procedure, and Management of Medical Emergencies		Mode of Delivery: DEMONSTRATION, SGD
 You should be able to	- Identify the components of the ultrasonic scaling unit and demonstrate its correct setup and operation. - Demonstrate the basic technique of ultrasonic scaling on simulation models or patients while maintaining proper instrument angulation and ergonomics. - Recognize common medical emergencies encountered during periodontal procedures and demonstrate the immediate initial management according to basic life support (BLS) principles. - Prepare the dental operator by ensuring the availability and functionality of emergency drugs and equipment before initiating treatment. - Apply pre-procedural patient safety measures, including review of medical history, risk assessment, and appropriate infection control protocols to prevent and effectively manage complications during ultrasonic scaling	
Session-9 Ward exit exam		Mode of Delivery: CHAIR SIDE
 You should be able to	Procedures under direct supervision	

Total no of weeks.	Mode of Assessment
9	(DOPs, OSCE Mini-CEX, VIVA)

GENERAL SURGERY

Session-1 Clinical examination of a patient with cervical lymphadenopathy		Mode of Delivery: DEMONSTRATION
 You should be able to	• Take a focused history of cervical lymphadenopathy. • Perform systematic examination of cervical lymph nodes. • Identify local and systemic causes. • Formulate differential diagnoses. • Plan appropriate investigations and management.	
Session-2 Clinical examination of a parotid swelling		Mode of Delivery: demonstration
 You should be able to	• Identify the anatomical location and boundaries of a parotid swelling. • Perform systematic inspection and palpation of the swelling, including size, consistency, mobility, tenderness, and skin changes. • Assess facial nerve function by examining all major branches. • Examine the oral cavity and Stensen's duct for ductal involvement and salivary flow.	

	Assess regional lymph nodes and relevant structures to identify features suggesting benign or malignant disease.
Session-3 Introduction to the Operation Theatre: Code of Conduct and Safety Practice.	
Mode of Delivery: DEMONSTRATION	
 You should be able to	- Describe the basic layout and functioning of an operation theatre. - Demonstrate appropriate OT attire and personal hygiene according to safety protocols. - Follow principles of aseptic technique and infection prevention in the operation theatre. - Explain and practice safe handling of surgical instruments, sharps, and equipment. - Demonstrate appropriate professional conduct, including communication, teamwork, patient confidentiality, and adherence to OT protocols.
Session-4 Clinical examination of a patient with oral lesion suspected to be malignant	
Mode of Delivery: DEMONSTRATION	
 You should be able to	- Obtain a relevant history including duration, progression, pain, risk factors, and associated symptoms. - Perform systematic examination of the oral cavity and accurately describe the lesion's site, size, shape, surface, margins, and consistency. - Identify clinical features suggestive of malignancy, such as induration, ulceration, fixation, and unexplained bleeding. - Examine the neck for cervical lymphadenopathy and assess relevant lymph node characteristics.



	• Formulate a provisional diagnosis and appropriate management plan, including indications for biopsy and further investigation. •	
Session-5 Clinical examination of a thyroid		Mode of Delivery: DEMONSTRATION
 You should be able to	• Identify the normal anatomical location and surface landmarks of the thyroid gland. • Perform systematic inspection and palpation of the thyroid gland, assessing size, consistency, surface, tenderness, and mobility. • Assess thyroid movement with swallowing and identify features suggestive of thyroid enlargement. • Examine cervical lymph nodes and assess for associated neck swellings. • Assess for clinical features of thyroid dysfunction, including signs of hypothyroidism and hyperthyroidism. • Demonstrate effective communication with patients, attendants, peers, and members of the dental team during clinical encounters. • Demonstrate empathy and patient-centered care, particularly when managing patients with anxiety, fear, pain, or difficult emotional circumstances	
Session-6 Identification and uses of:		Mode of Delivery: DEMONSTRATION

 You should be able to	○ Common surgical instruments ○ Chest drain with under water seal. ○ Common drains (NG tube, foley catheter) ○ Commonly used surgical sutures ○ Commonly used intravenous cannulas, central venous catheters, LP needles, intra-venous fluids ● f. Instruments used for airway management (Guedel’s airway, endotracheal tube, cricothyroidotomy / tracheostomy tube.	
Session-7 introduction to protocols of operation theatre, ward work, patient clerking and out-patient clinics		Mode of Delivery: DEMONSTRATION,
 You should be able to	● Describe the basic protocols and code of conduct in the operation theatre, wards, and outpatient clinics. ● Demonstrate appropriate patient identification, communication, and professional behaviour. ● Perform systematic patient clerking, including history taking and relevant physical examination. ● Document clinical findings accurately and maintain patient confidentiality. ● Explain the roles and responsibilities of healthcare team members and demonstrate effective teamwork in different clinical settings.	
Session-8 Clinical communication (Role modeling) with special emphasis on counseling and taking written informed consent		Mode of Delivery: DEMONSTRATION
 You should be able to	● Demonstrate effective and empathetic communication with patients and their attendants. ● Establish rapport and maintain patient confidentiality during clinical interactions. ● Explain the diagnosis, proposed procedure, benefits, risks, and alternatives in clear and understandable language. ● Demonstrate appropriate counseling techniques, allowing patients to ask questions and make informed decisions.	



	● Obtain and document valid written informed consent according to ethical and professional guidelines.
Session-9 Collection of samples of blood, urine, sputum, pus swab (P) Administration of drugs by intramuscular and intravenous routes (P) Skin suturing and (O)	Mode of Delivery: DEMONSTRATION
 You should be able to	● Demonstrate proper collection and handling of blood, urine, sputum, and pus swab samples using appropriate aseptic techniques. ● Identify and follow safety precautions during specimen collection, labeling, storage, and transportation. ● Demonstrate safe administration of medications by intramuscular and intravenous routes under appropriate supervision. ● Perform basic skin suturing techniques using appropriate instruments and aseptic precautions. ● Recognize and manage common complications of specimen collection, injections, and skin suturing, and ensure proper documentation.

Total no of weeks.	Mode of Assessment
9	(DOPs, OSCE Mini-CEX, VIVA)

RESEARCH/ICT

Session-1 Introduction to Data Management and Coding		Mode Of Delivery: Hands-on Computer Lab
 You should be able to	• Organize research data for statistical analysis. • Develop a coding scheme for questionnaire responses. • Prepare a codebook for data entry • Maintain confidentiality of participant information during data preparation	
Session-2 Data Entry Using SPSS.		Mode Of Delivery: Hands-on Computer Lab
 You should be able to	• Create a database in SPSS. • Define variables and value labels. • Enter research data accurately. • Research Ethics LO: Verify data accuracy while preserving participant confidentiality	



Session-3 Data Cleaning and Validation		Mode Of Delivery: Computer-based practical session
 You should be able to	• Detect missing values and outliers. • Correct data entry errors. • Prepare a clean dataset for analysis. • Research Ethics LO: Ensure data integrity by documenting all corrections without altering original findings	
Session-4 Descriptive Statistics.		Mode Of Delivery: Hands-on Computer Lab
 You should be able to	• Generate frequencies, percentages, means, and standard deviations using SPSS • Select appropriate descriptive statistics according to data type. • Export statistical output. • Report statistical findings honestly without data manipulation	
Session-5 Data Presentation: Tables and Graphs		Mode Of Delivery: Hands-on Computer Lab

 You should be able to	• Create tables, bar charts, pie charts, and histograms using SPSS • Format tables and figures for research reports. • Export publication-quality outputs. • Present research findings objectively without misleading graphical representation.	
Session-6 Selection of Statistical Tests		Mode Of Delivery: Computer laboratory session, demonstration, guided practice
 You should be able to	• Classify variables and data types. • Select appropriate parametric and non-parametric statistical tests. • Match statistical tests with research objectives. • Select appropriate analytical methods to ensure valid and reliable research conclusions	
Session-7 Inferential Statistics Using SPSS		Mode Of Delivery: Interactive Tutorial , Computer laboratory session
 You should be able to	• Perform Chi-square, t-test, and non-parametric tests using SPSS. • Generate inferential statistical outputs. • Save and organize analysis files. • Perform statistical analysis objectively without selective reporting or data fabrication	



Session-8 Preparing Statistical Outputs for Research Report		Mode Of Delivery: workshop
 You should be able to	• Organize SPSS outputs for inclusion in the research report. • Export tables and figures in publication format. • Maintain organized electronic research records. • Store research data securely and maintain confidentiality in accordance with institutional ethical guidelines	

SAMPLE TIME TABLE



20th WEEK

TIMETABLE 3rd YEAR BDS (2026)

Day/ Time	8:30-9:20	9:20-10:10	10:10-10:30	10:30-1:30	1:30 - 1:45	1:45-3:30
Monday 03-08-2026	Periodontology ANUG (Dr.Sohaib Siddique)	Oral Pathology/oral Med Epithelial Pathology Dr Rabia Masood		Practical/SGD Batch B- Prostho - history taking and clinical examination- dr uzair Batch C- OMES Batch D- Operative Batch A- Perio		Practical/SGD Batch B- Oral-Pathology Odontogenic cysts Dr Saleha, Dr Khadija Batch A- Oral-Medicine Examination of salivary glands (Dr Hamza/Dr Khadija)
Tuesday 04-08-2026	Oral Pathology/oral med Odontogenic Cysts and tumors Dr Rabia Masood	Periodontology CLASS TEST (Dr.Sohaib Siddique)		Practical/SGD Batch B- Prostho - impression pouring and cast fabrication - dr uzair Batch C- OMES Batch D- Operative Batch A- Perio		Practical/SGD Batch A- Oral Pathology Odontogenic cysts Dr Saleha, Dr Khadija Batch B- Oral-Medicine Examination of salivary glands (Dr Hamza/Dr Khadija)
Wednesday 05-08-2026	PERIODONTOLOGY Dr Sohaib	Oral Pathology/oral medicine Test Epithelial Pathology-faculty All	----- BR EA K-----	Practical/SGD Batch B- Prostho clasp fabrication and wax up - dr uzair Batch C- OMES Batch D- Operative Batch A- Perio	-----B REA K-----	Practical/SGD Batch B- Prostho Batch C- OMES Batch D- Operative Batch A- Perio
Thursday 06-08-2026	General Surgery NECK TRAUMA (Dr. Zafar Iqbal)	General Medicine COPD(Dr. Shahid Saleem)		Practical Batch A- General Surgery(DR AF SHAN) CARDIO-PULMONARY RESUSITATION Batch B- General medicine S.G.D(Bronchial Asthma &Its diagnosis) Management of acute Severe Asthma Spirometry & diagnosis of asthma SGD(Work up of a case of Tuberculosis) ATT and its complications Interpretation of Tuberculin test		Oral-Medicine CBL TMJ disorders (Dr. Faiqa Hassan)
Friday 07-08-2026	General Surgery NECK TRAUMA (Dr. Zafar Iqbal)	General Medicine Asthma (Dr. Shahid Saleem)		Practical Batch B- General Surgery(DR AF SHAN) CARDIO-PULMONARY RESUSITATION Batch A- general medicine S.G.D(Bronchial Asthma &Its diagnosis) Management of acute Severe Asthma Spirometry & diagnosis of asthma SGD(Work up of a case of Tuberculosis) ATT and its complications Interpretation of Tuberculin test	Prayer & Lunch Break	Oral-Medicine CBL Blood disorders/renal disorders (Dr. Faiqa Hassan)



LEARNING RESOURCES

Clinical & Dental Sciences • Study Guide

ORAL PATHOLOGY

TYPE	LEARNING RESOURCE
Textbook	Contemporary Oral and Maxillofacial Pathology, 3rd Edition — J. Philip Sapp, Lewis R. Eversole & George P. Wysocki
Reference Book	Oral and Maxillofacial Pathology, 4th Edition — Brad W. Neville, Douglas D. Damm, Carl Allen & Angela C. Chi
Reference Book	Oral and Maxillofacial Pathology: Clinical Pathological Correlations, 6th Edition — J. Regazi, James Sciubba & Richard Jordan

ORAL MEDICINE

TYPE	LEARNING RESOURCE
Textbook	Tyldesley's Oral Medicine, 5th Edition — Anne Field & Lesley Longman
Reference Book	Oral and Maxillofacial Medicine: The Basis of Diagnosis and Treatment, 2nd Edition — Crispian Scully
Reference Book	Medical Problems in Dentistry, 6th Edition — Crispian Scully

PERIODONTOLOGY

TYPE	LEARNING RESOURCE
Textbook	Clinical Periodontology — Glickman
Reference Book	Clinical Periodontology — Manson
Reference Book	Colour Atlas of Clinical and Surgical Periodontology — Strahan & Waite
Reference Book	A Textbook of Clinical Periodontology — Jan Lindhe

ORAL & MAXILLOFACIAL SURGERY

TYPE	LEARNING RESOURCE
Textbook	Contemporary Oral and Maxillofacial Surgery, 7th Edition — James R. Hupp
Reference Book	Handbook of Local Anaesthesia, 7th Edition — Stanley F. Malamed
Reference Book	Fractures of the Facial Skeleton, 2nd Edition — Peter Banks
Reference Book	Scully's Medical Problems in Dentistry, 7th Edition — Crispian Scully

GENERAL MEDICINE

TYPE	LEARNING RESOURCE
Textbook	Davidson's Principles and Practice of Medicine, 24th Edition
Reference Book	Kumar and Clark's Clinical Medicine, 10th Edition
Reference Book	Harrison's Manual of Medicine, 20th Edition

CLINICAL METHODS

TYPE	LEARNING RESOURCE
Textbook	Macleod's Clinical Examination, 14th Edition
Reference Book	Hutchison's Clinical Methods, 24th Edition

OPERATIVE DENTISTRY

DDE-POL01-F-19



TYPE	LEARNING RESOURCE
Textbook	Art & Science of Operative Dentistry — Sturdevant
Reference Book	Fundamentals of Operative Dentistry — Summit's

GENERAL SURGERY

TYPE	LEARNING RESOURCE
Textbook	Bailey & Love's Short Practice of Surgery, 27th Edition
Reference Book	An Introduction to the Symptoms & Signs of Surgical Disease — Norman S. Browse
Reference Book	A Manual on Clinical Surgery — S. Das
Reference Book	Clinical Methods in General Surgery — Hamilton & Bailey

Recommended resources for guided study and clinical correlation



Feedback on the study guide:

We value your feedback and will use it for improvement of this study guide. Kindly provide feedback at the given email address: dental.education@hitec-ims.edu.pk