



DENTAL COLLEGE HITEC IMS

Study Guide Y3 - D22

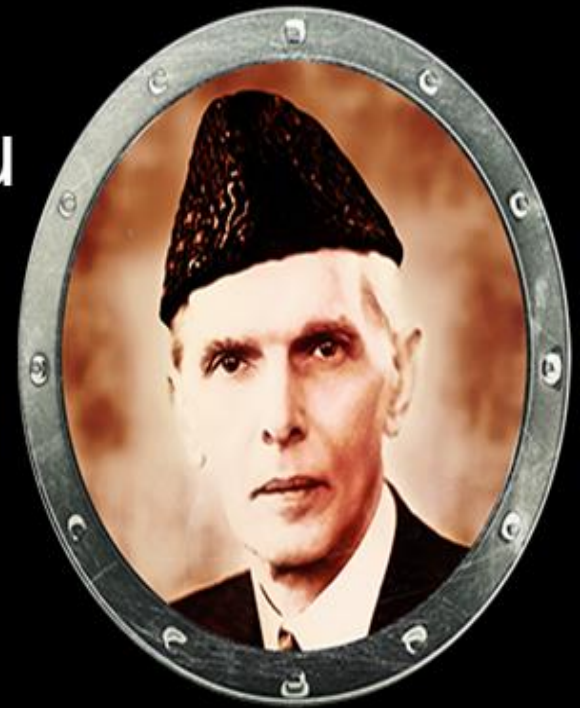
Third Year BDS

Block 2

Year Coordinator: Dr. Faiqa Hassan

With faith, discipline and selfless devotion to duty, there is nothing worthwhile that you cannot achieve.

Muhammad Ali Jinnah





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List of Abbreviations

- ANS Automatic Nervous System
- CBL Case Base Learning
- CSSD Central Sterile Supply Department
- EECS Early Exposure to Clinical Skills
- EOB End of Block Examination
- FGD Focus Group Discussion
- GIT Gastrointestinal Tract
- H&E Haematoxylin and Eosin
- LA Local Anaesthesia
- LGIF Large Group Instructional Format
- LGIS Large Group Interactive Session
- MCQ Multiple Choice Question
- MDT Multi-Disciplinary Team
- MIT Mode of Information Transfer
- NUMS National University of Medical Sciences
- OMFS Oral & Maxillofacial Surgery
- OSCE Objectively Structured Clinical Examination
- OSPE Objectively Structured Practical Examination
- OSSC Oral Squamous Cell Carcinoma
- PMC Pakistan Medical Commission
- SAQ Short Answer Question
- SDL Self-Directed Learning
- SEQ Structured Essay Questions
- SGD Small Group Discussion
- TOS Table of Specification



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 life long learning oral health care professionals



Block Committee

Year Coordinator: **Dr. Faiqa Hassan**

Assistant Professor Oral Medicine

Contact No. 0321-5370292

S. No.	Name	Designation	Department	Contact No.
1.	Dr. Faiqa Hassan	Assistant Professor, Chair Block Committee	Oral Medicine	0321-5370292
1.	Dr. Danial Qasim	Assistant Professor	Oral Pathology	0342-5104724
2.	Dr. Fatima Khattak	Senior Registrar	OMFS	0343-2404788
3.	Dr. Wajeeha Javed	Assistant Professor	Periodontology	0330-5345078
4.	Dr. Sharaz Ahmad	Assistant Professor	Operative Dentistry	0335-5067704
5.	Dr. Aamir Rafiq	Assistant Professor	Prosthodontics	0334-4353578
6.	Prof. Shahid Saleem	Professor	General Medicine	0333-5130757
7.	Prof. Zafar Iqbal	Professor	General Surgery	0333-5001414
8.	Dr Faizan Munir	Assistant Professor	Dental Education	0334-0031031
9.	Aima Kashif	Student GR	3 rd Year	0310-0045550
10.	Abdul Nafay Qazi	Student CR	3 rd Year	0301 9122214



Curriculum Overview/ Implementation

Preface

The curriculum meets the standards of the Pakistan Medical Commission, the Higher Education Commission of Pakistan, and the World Federation of Medical Education, so that our students, on completion of the program, have the required competencies as defined worldwide in a graduate doctor.

Curricular Model

The curriculum of Dental College, HITEC-IMS, is based on the traditional, discipline-based model of educational strategies. However, we have incorporated some elements of SPICES model i.e., its student-centred, integrated, community-oriented and systematic aspects. As a result, our curriculum has evolved, considering traditional, experiential, behavioural, constructivist and attributional perspectives of curricula.

Organization

The curriculum is organized and integrated along important vertical and horizontal dimensions. The content taught is integrated concurrently in the horizontal organization and vertically across the years of the BDS program. The course of the 3rd year is divided into three blocks. In each block, the sequencing of the content is logical and integrated.

Teaching Strategies

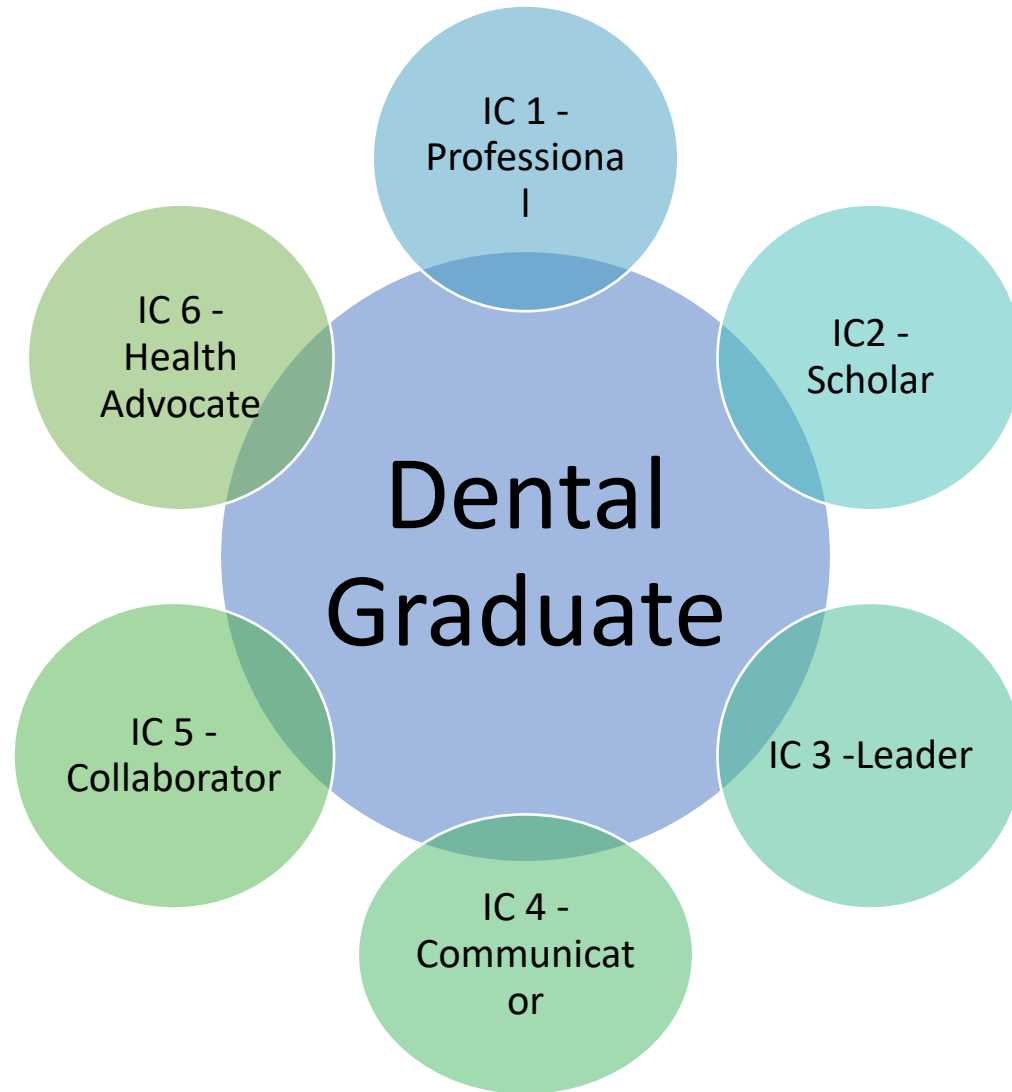
Multiple teaching strategies are used. LGIS are used to provoke thought and understanding, and to standardise the delivery of the concepts. It helps them to understand the general theme or subject matter, updated research and best evidence medical/dental information. We are teaching clinical implications of each topic to integrate basic and clinical sciences. This encounter is based on experience that is contextual, realistic and relevant. Small group discussions encourage students to learn socially and refine their schemas. Working in wards and clinical departments provides, hands-on and real life contextual learning experience.

Assessment

The students are summatively assessed by end-block and pre-annual examinations. Constructive feedback is provided via formative assessments by assignments, presentations, CBL and class tests. At the end of the academic year, annual professional examination is conducted according to the standards outlined by NUMS.



Institutional Competency Framework





Alignment of Block Outcomes with Institutional Competencies

Sr. No.	Block Outcomes	Institutional Competencies
1.	Manage the patients presenting in medical OPD with cardiovascular, nephritic, and haematological diseases	IC 1 to IC 6
2.	Correlate anatomical and physiological features of periodontium with the management of periodontal diseases	IC 1 to IC 6
3.	Apply the basic principles of general surgery related to trauma, its complications and post-operative care in subsequent years of training and practice	IC 1 to IC 6
4.	Plan therapeutic management of oral diseases based on histopathological findings	IC 1 to IC 6
5.	Demonstrate effective communication and counselling skills in patient care	IC 1, IC 3, IC 4, IC 6
6.	Apply a constructivist approach in polishing research skills	IC 1, IC 2, IC 4



Yearly Clinical Rotation Schedule

The clinical rotation schedule runs independently of blocks

Batch	Discipline			
	Prosthodontics	OMFS	Operative Dentistry	Periodontology
Batch A – 10 Weeks Rotation	10 th Jan – 20 Mar	22 nd Aug – 23 rd Oct	30 May – 21 st Aug	21 st Mar – 29 May
Batch B – 9 Weeks Rotation	21 st Mar – 29 May	10 th Jan – 20 th Mar	22 nd Aug – 23 rd Oct	30 May – 21 st Aug
Batch C – 9 Weeks Rotation	30 May – 21 st August	21 st Mar – 29 May	10 th Jan – 20 th Mar	22 nd Aug – 23 rd Oct
Batch D – 9 Weeks Rotation	22 nd Aug – 23 rd Oct	30 May – 21 st Aug	21 st Mar – 29 May	10 th Jan – 20 th Mar



Assessment Types and Schedules



Assessment will be formative in the form of class tests, presentations, and assignments by the departments. It is to give feedback to students to improve their learning and to help teachers identify students' weak areas.

The class tests of oral medicine, periodontology, oral pathology, general surgery, and general medicine will be held on a rotation basis. The EOB exam will comprise of theory and practical separately.

Summative assessment includes End of block exam and pre-annual examination. The pre-annual examination will be conducted according to guidelines provided by NUMS.

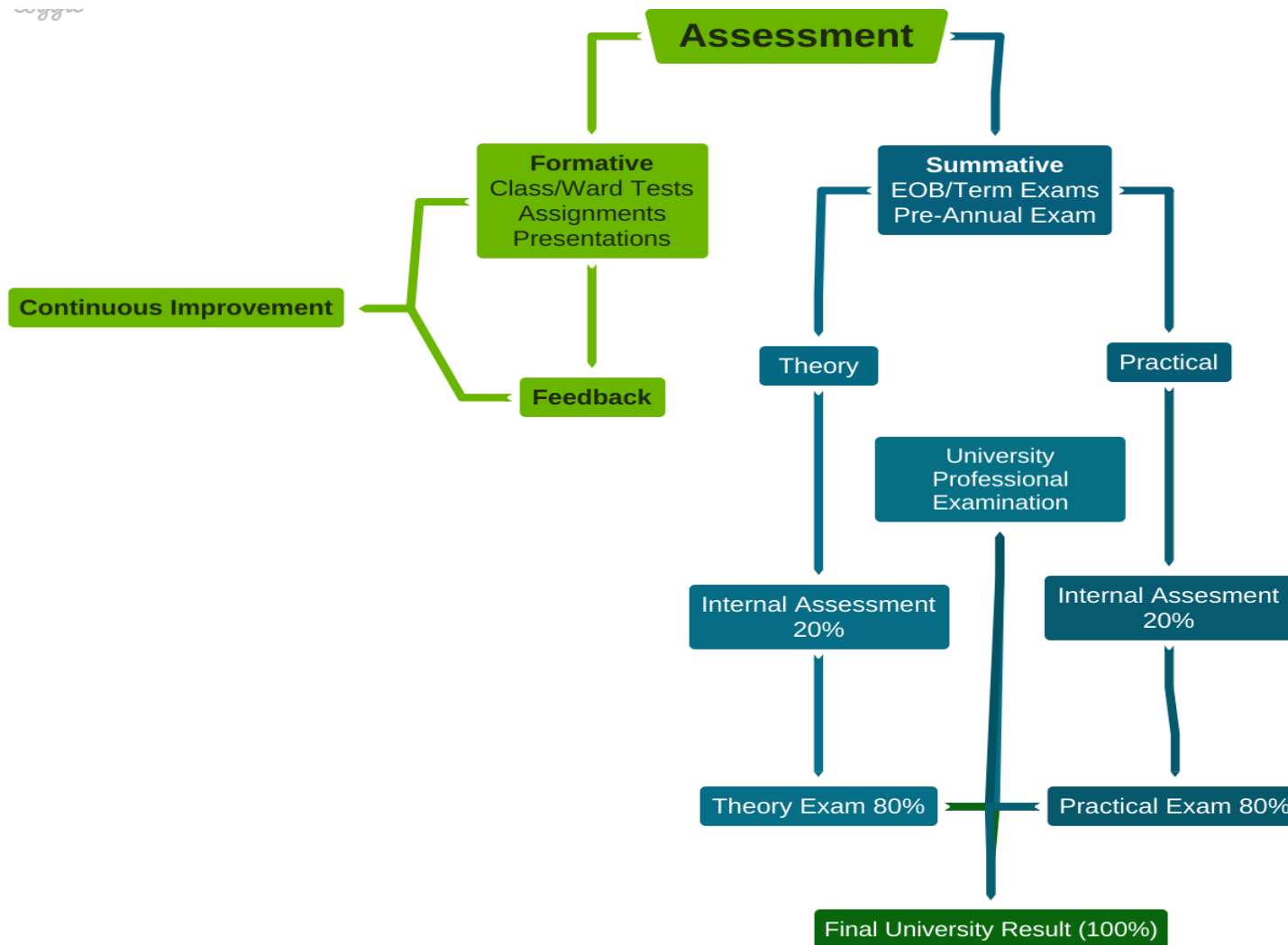
Students must secure 50% marks in theory and practical exams separately, per university criteria.

Internal assessment criteria for submission of internal assessment marks of 3rd Professional Examination NUMS

1. The weightage of internal assessment shall be 20 marks for a 100 marks paper (20%) in the annual examination.
2. End-of-block examination and pre-annual examination shall contribute toward internal assessment.



Assessment Map





Academic Calendar

Academic Calendar 3rd Year BDS (Session 2022 - 2023)		
Commencement of classes 10th Jan 2022		
Disciplines taught in 3 rd Year	Oral Pathology, Oral Medicine, Periodontology, General Medicine, General Surgery, behavioral sciences, OMFS, Operative and Prosthodontics	
Activity	Dates	Duration
1st Block (13 WEEKS)		
Academics	10 th Jan – 27 th March	11 weeks
Sports week	28 th March – 3 rd April	1 week
Academics	4 th April – 10 th April	1 week
2nd Block (13 WEEKS)		
Academics	11 th April to 30 th April	3 weeks
Eid ul Fitr	2 nd May- 8 th May	1 week
Academics (contd.)	9 th May- 15 th May	1 week
1 st BLOCK Exam	16 th May –22 nd May	1 week
Academics (contd.)	23 th May – 26 th June	5 weeks
Summer Vacation + Eid ul Azha Holidays	27 th June – 17 th July	3 weeks
Academics (contd.)	18 th July – 31 July	2 weeks
2 nd BLOCK Exam	1 st Aug – 7 th Aug	1 week
3rd Block (13 WEEKS)		
Academics	8 th Aug – 23 rd Oct	11 weeks
Sendup Exam	24 th Oct – 6 th Nov	2 weeks
Pre Prof Prep Leaves	7 th Nov – 1 st Dec	3 weeks
Final Prof	2 nd December,2022	



Sample Timetable

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 07-03-2022	Periodontology	Behavioural Sciences	-----BREAK-----	Practical Batch A- Prosthodontics Batch B- OMFS Batch C Operative Dentistry Batch D- Periodontology	-----BREAK-----	Practical Batch A- Oral-Pathology Batch B- Oral-Medicine
Tuesday 08-03-2022	Oral pathology	Oral-Medicine		Practical Batch A- Prosthodontics Batch B- OMFS Batch C Operative Dentistry Batch D- Periodontology		Practical Batch B- Oral-Pathology Batch A- Oral-Medicine
Wednesday 09-03-2022	Oral pathology	Periodontology		Practical Batch A- Prosthodontics Batch B- OMFS Batch C Operative Dentistry Batch D- Periodontology		Practical Batch A- Prosthodontics Batch B- OMFS Batch C Operative Dentistry Batch D- Periodontology
Thursday 10-03-2022	General Surgery	General Medicine		Practical/SDL Batch A- General Surgery Batch B- General Medicine		Practical Batch A- General Surgery Batch B- General Medicine
Friday 11-03-2021	General Medicine	General Surgery		Practical/SDL Batch A- General Medicine Batch B- General Surgery		1:30-2:00 prayer & Lunch Break



Block - II

Oro-systemic diseases and management



Structured Summary of Block II

Code	Y3-B2-D22
Name	Oro-Systemic Diseases And Management
Duration Of Block	13 Weeks - On campus
Important Dates	April 11 th , 2022 – August 7 th , 2022
Horizontally Integrated Themes	Oral Pathology Oral Medicine
Vertically Integrated Themes	Research Behavioural sciences
Prerequisite Block(s)	1 st Block of 3 rd year



Tentative Exam Schedule¹

Day/Date	SUBJECTS (THEORY)
Monday 1-08-22	Oral Pathology
Tuesday 2-08-22	General Surgery
Wednesday 3-08-22	General Medicine
Thursday 4-08-22	Oral Medicine
Friday 5-08-22	Periodontology

Tentative Class Test Schedule

Day	Date	SUBJECTS (THEORY)
Monday	25.04.2022	Oral Pathology
Monday	09.05.2022	General Surgery
Monday	23.05.2022	General Medicine
Monday	06.06.2022	Oral Medicine
Monday	11.07.2022	Periodontology

¹ This is a tentative schedule. Therefore, it is subject to change.



LEARNING OUTCOMES FOR BLOCK II

ORAL MEDICINE

Topic / Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
Facial Paralysis	<ul style="list-style-type: none"> Differentiate between upper motor neuron lesions and lower motor neuron lesions based on their etiology Discuss facial palsy 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Discuss facial paralysis (Bell's palsy) Describe upper motor neuron & lower motor neuron lesions Discuss causes and management of upper and lower motor neuron lesions 	IC 2	LGIS SGD	MCQs SAQs Viva
Facial Pain	<ul style="list-style-type: none"> Classify different types of headaches, their diagnosis and management using non-surgical methods 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Discuss and differentiate between migraine, cluster & tension headaches, giant cell arteritis 	IC 2	LGIS	MCQs SAQs Viva
Temporomandibular Disorders (TMDs)	<ul style="list-style-type: none"> Differentiate between temporomandibular joint dysfunction syndrome (TMPDS), Internal derangements, & Arthritis Advise appropriate management 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Explain anatomy of TMJ and disorders related to it Discuss the diagnostic modalities and brief treatment of such disorders Describe diagnostic methods of TMDs 	IC 2	LGIS	MCQs SAQs Viva



	<ul style="list-style-type: none"> Demonstrate diagnostic methods of TMDs, especially TMJ examination 	<p><u>Skill</u></p> <ul style="list-style-type: none"> Perform examination of TMJ 	IC 1 IC 4 IC 5	Demonstration Clinical rotation	OSCE
Swellings Of The Neck	<ul style="list-style-type: none"> Perform neck examination and establish differential diagnosis of the face and neck swellings 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Classify types of neck swellings Describe the aetiology of cervical lymphadenopathy 	IC 2	LGIS	MCQs SAQs Viva
		<p><u>Skill</u></p> <ul style="list-style-type: none"> Perform neck examination & describe cervical lymph node levels 	IC 1 IC 4 IC 5	Demonstration Clinical rotation	OSCE
Gastro-Intestinal Disorders	<ul style="list-style-type: none"> Identify and manage oral symptoms of different Gastro-intestinal disorders 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Discuss the oral manifestations of Coeliac disease, Crohn's disease, Ulcerative colitis, GERD, Orofacial granulomatosis & their management 	IC 2	LGIS	MCQs SAQs Viva
Disorders Of Nutrition	<ul style="list-style-type: none"> Identify and manage oral symptoms of diseases due to nutritional deficiencies 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Describe the oral manifestations of nutritional deficiencies, scurvy, burning mouth syndrome & their management 	IC 2	LGIS	MCQs SAQs Viva
Disorders Of Teeth/	<ul style="list-style-type: none"> Recognize various syndromes that directly or 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Diagnose hypodontia 	IC 2	LGIS	MCQs SAQs



Halitosis + Mucocele	indirectly affect facial hard tissues and teeth	<ul style="list-style-type: none"> Describe the variations in number, size & shape of teeth Describe the causes of teeth attrition, erosion and abrasion Discuss the abnormalities of structure of enamel & dentine 			Viva
Glossopharyngeal Neuralgia And Headaches	<ul style="list-style-type: none"> Discuss the management of a patient with glossopharyngeal neuralgia 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss the medical management of glossopharyngeal neuralgia 	IC 2	LGIS	MCQs SAQs Viva
Trigeminal Neuralgia	<ul style="list-style-type: none"> Discuss the diagnosis & medical management of Trigeminal neuralgia 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss the clinical features and medical management of Trigeminal neuralgia 	IC 2	LGIS	MCQs SAQs Viva
Vesiculobullous Disease And Lichen Planus	<ul style="list-style-type: none"> Discuss different mucosal symptoms with dermal signs to diagnose and discuss mucocutaneous blistering disorders Differentiate between all vesiculobullous lesions by means of comprehensive history and clinical evaluation & investigations 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss the oral manifestations, investigations, and treatment of vesiculobullous diseases Discuss the characteristics of Lichen planus, Pemphigus vulgaris, Mucous membrane pemphigoid, Bullous pemphigoid, Epidermolysis bullosa, Erythema multiforme 	IC 2	LGIS	MCQs SAQs Viva



Practical					
<ul style="list-style-type: none"> • Endotracheal Tube • Guedel's Airway • Oxygen Mask • AMBU Bag • IV Cannula • Syringe • Nasogastric Tube 	<ul style="list-style-type: none"> • Identify instruments used in medical emergencies and describe their uses 	<u>Knowledge</u> <ul style="list-style-type: none"> • Identify the relevant armamentarium used in medical emergencies • Describe the indications and uses instruments 	IC 2	LGIS	MCQs SAQs Viva
		<u>Skill</u> <ul style="list-style-type: none"> • Demonstrate the proper use of the instruments 	IC1 IC 4 IC 5	Demonstration Clinical rotation	OSCE
Salivary glands	<ul style="list-style-type: none"> • Perform examination of salivary glands 	<u>Knowledge</u> <ul style="list-style-type: none"> • Recall major salivary glands and classify them 	IC 2	LGIS	MCQs SAQs Viva
		<u>Skill</u> <ul style="list-style-type: none"> • Perform examination of major salivary glands • Locate major salivary glands and their ducts 	IC 1 IC 4 IC 5	Demonstration Clinical rotation	OSCE
Temporomandibular Joint	<ul style="list-style-type: none"> • Perform examination of temporomandibular joint (TMJ) 	<u>Knowledge</u> <ul style="list-style-type: none"> • Discuss the anatomy of Temporomandibular Joint • Discuss temporomandibular Disorders 	IC 2	LGIS	MCQs SAQs Viva
		<u>Skill</u> <ul style="list-style-type: none"> • Perform examination of TMJ 	IC 1 IC 4	Demonstration Clinical rotation	OSCE



			IC 5		
Muscles of mastication	<ul style="list-style-type: none"> Perform examination of muscles of mastication 	<u>Knowledge</u> <ul style="list-style-type: none"> Discuss the anatomy of muscles of mastication 	IC 2	LGIS	MCQs SAQs Viva
		<u>Skill</u> <ul style="list-style-type: none"> Perform examination of muscles of mastication 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	OSCE
Investigations for clinical cases	<ul style="list-style-type: none"> Advise relevant investigations for clinical cases encountered 	<u>Knowledge</u> <ul style="list-style-type: none"> Advise relevant investigations based on history taken and clinical examination done Enumerate differential diagnoses 	IC 2	LGIS	MCQs SAQs Viva



ORAL PATHOLOGY

Sr. No.	THEME	LEARNING OUTCOMES	LEARNING OBJECTIVES	IC CODES	MIT	ASSESSMENT TOOL
1.	DENTAL CARIES a. Aetiology b. Clinical Types c. Role of Plaque, Carbohydrates d. Enamel Caries e. Dentine Caries f. Cementum Caries	<ul style="list-style-type: none"> Differentiate between various clinical types of dental caries on clinicopathological basis 	<u>Knowledge</u> <ul style="list-style-type: none"> Distinguish between different types of dental caries on the basis of etiology and clinicopathological features Discuss the role of plaque and carbohydrates in the development of dental caries 	IC 2	LGIS	MCQ SEQ Viva
			<u>Skill</u> <ul style="list-style-type: none"> Prepare H&E slides Demonstrate the proper use of microscopes Identify the microscopic features of slides Differentially diagnose the pathology based on the slides Illustrate the salient features on workbook with H & E pencils 	IC 1 IC 4 IC 5	Laboratory Demonstration	OSCE



			<p><u>Attitude</u></p> <ul style="list-style-type: none"> • Follow proper dress code of a medical laboratory • Take consent before starting the procedure and thank in the end • Maintain his/her workstation according to the prescribed SOPs • Report any damage to lab equipment 	IC 1 IC 4	Laboratory Demonstration	OSCE VIVA
2.	<p>PERIAPICAL PATHOLOGY</p> <p>a) Acute and chronic periodontitis</p> <p>b) Chronic apical periodontitis</p> <p>c) Periapical abscess</p> <p>d) Periapical granuloma</p> <p>e) Acute and chronic osteomyelitis</p> <p>f) Cellulitis</p>	<ul style="list-style-type: none"> • Compare various periapical pathologies on Clinicopathological basis 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Differentiate periapical abscess from periapical granuloma, acute and chronic osteomyelitis on the basis of clinical presentation and histopathological presentation • Discuss the pathogenesis of cellulitis 	IC 2	LGIS	MCQ SEQ viva



3.	IMMUNE MEDIATED DISORDERS 1) Pemphigus vulgaris 2) Mucous-membrane pemphigoid 3) Epidermolysis bullosa 4) Erythema Multiforme Lichen Planus	<ul style="list-style-type: none"> Distinguish between immune mediated disorders on histological and cytological basis 	Knowledge <ul style="list-style-type: none"> Differentiate between pemphigus vulgaris and mucous membrane pemphigoid on the basis of their cytological and histopathological features 2Discuss oral manifestations, cytological and histopathological features of epidermolysis bullosa, erythema multiforme and lichen planus 	IC 2	LGIS	MCQ SEQ Viva
			Skill <ul style="list-style-type: none"> Prepare H& E slides Demonstrate the proper use of microscopes Identify the microscopic features of slides Differentially diagnose the pathology based on the slides Illustrate the salient features on workbook with H & E pencils 	IC 1 IC 4 IC 5	Laboratory Demonstration	OSCE
			Attitude <ul style="list-style-type: none"> Follow proper dress code of a medical laboratory Take consent before starting the procedure and thank them in the end Maintain his/her workstation according to the prescribed SOPs 	IC 1 IC 4	Laboratory Demonstration	OSCE



			<ul style="list-style-type: none"> Report any damage to lab equipment immediately 			
4.	Bone Pathology	<ul style="list-style-type: none"> Classify and differentiate between benign and malignant bone tumors and study the histopathological features of various bone pathologies 	<p>Knowledge</p> <ul style="list-style-type: none"> Distinguish between fibrous, cement- osseous, ossifying fibroma, paget's, hyperparathyroidism, osteopetrosis, osteogenesis imperfect, cherubism and cleidocranial dysplasia Diagnose tori, osteoblastoma, osteoid osteoma and giant cell lesions on the basis of clinicopathological and radiographic features Distinguish between osteogenic sarcoma, chondrosarcoma, ewing's sarcoma on the basis of clinicopathological features 	IC 2	LGIS	MCQ SEQ Viva
			<p>Skill</p> <ul style="list-style-type: none"> Prepare H & E slides Identify the microscopic features of slides Differentially diagnose the pathology based on the slides Illustrate the salient features on workbook with H & E pencils 	IC 1 IC 4 IC 5	Laboratory Demonstration	OSCE



			<u>Attitude</u> <ul style="list-style-type: none">• Follow proper dress code of a medical laboratory• Take consent before starting the procedure and thank them at the end• Maintain his/her workstation according to the prescribed SOPs• Report any damage to lab equipment immediately	IC 1 IC 4	Laboratory Demonstration	OSCE
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GENERAL MEDICINE

Sr. No.	Topic	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
		By the end of the block, the student will be able to:				
1	Acid Peptic Disease-I	<ul style="list-style-type: none"> Discuss introduction and Common Risk factors for acid peptic disease Discuss causes of gastritis Discuss H. Pylori pathophysiology Describe the role NSAIDs in duodenal ulcers Discuss H. Pylori eradication therapy 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Describe the risk factors for acidic peptic disease Discuss the aetiology of acid peptic disease Discuss H. Pylori triple and quadruple therapy Advise H. Pylori investigations 	IC 2	LGIS	MCQs SEQs Viva
2	Acid Peptic Disease- II	<ul style="list-style-type: none"> Discuss surgical Treatment and Complications of Acid Peptic Disease (APD) Discuss Zollinger-Ellison Syndrome and management 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Discuss the management plan of APD along with complications 	IC 2	LGIS	MCQs SEQs Viva
			<p><u>Skill</u></p> <ul style="list-style-type: none"> Illustrate prescription writing of triple therapy/quadruple therapy 	IC 1 IC 4 IC 5	Ward rotation demonstration	Long Case Short case



		<ul style="list-style-type: none"> Discuss prevention of APD 				
3	Acute Hepatitis-I	<ul style="list-style-type: none"> Discuss introduction of acute and chronic liver injury 	<u>Knowledge</u> <ul style="list-style-type: none"> Describe the causes of acute and chronic liver failure Discuss fulminant hepatic failure 	IC 2	LGIS	MCQs SEQs Viva
4	Acute Hepatitis -II	<ul style="list-style-type: none"> Plan investigations for acute viral hepatitis Outline Prognostic criteria for acute hepatic failure Discuss Management of acute liver failure Discuss intro of Liver transplant Discuss Hep A and E clinical features 	<u>Skill</u> <ul style="list-style-type: none"> Interpret Liver function test Demonstrate the measures of prevention of acute viral hepatitis Plan the management of acute viral hepatitis and its complications 	IC 1 IC 4 IC 5	Ward rotation Bedside demonstration	Long case Short cases
5	Chronic Hepatitis-I	<ul style="list-style-type: none"> Define chronic hepatitis Discuss causes of chronic hepatitis 	<u>Knowledge</u> <ul style="list-style-type: none"> Describe causes of chronic liver disease and chronic hepatitis 	IC 2	LGIS	MCQs SEQs Viva



		<ul style="list-style-type: none"> • Discuss path-physiology of chronic hepatitis • Discuss introduction to hep B and C groups. 				
6	Chronic Hepatitis-II	<ul style="list-style-type: none"> • Discuss clinical features of hep B and C • Interpret application of hep B and C serology. • Discuss complications of chronic hepatitis • Describe management of chronic hepatitis 	<u>Skill</u> <ul style="list-style-type: none"> • Interpret hep B and C serology • Demonstrate knowledge and prevention of transmission of hep B and C • Follow the protocols for sterilization for hep B and C 	IC 1 IC 4 IC 5	Ward rotation demonstration	Short/ long cases
7	Cirrhosis I	<ul style="list-style-type: none"> • Discuss introduction, causes and pathophysiology of cirrhosis 	<u>Knowledge</u> <ul style="list-style-type: none"> • Describe the risk factors for cirrhosis • Describe the aetiology of cirrhosis 	IC 2	LGIS	MCQs SEQs Viva
8	Cirrhosis- II	<ul style="list-style-type: none"> • Discuss the clinical features and complications of cirrhosis 	<u>Skill</u> <ul style="list-style-type: none"> • Identify the clinical features of chronic liver disease & cirrhosis 	IC 1 IC 4 IC 5	Ward rotation demonstration	Short case Long cases



		<ul style="list-style-type: none"> Outline presentation and management of upper GI bleed 				
9	Ascites And Its Management	<ul style="list-style-type: none"> Discuss introduction, causes and pathophysiology of ascites Interpret Serum ascites albumin gradient (SAAG) calculations 	<u>Knowledge</u> <ul style="list-style-type: none"> Describe the aetiology of ascites 	IC 2	LGIS	MCQs SEQs Viva
			<u>Skill</u> <ul style="list-style-type: none"> Interpret SAAGs calculation and ascetic fluid examination report 	IC 1 IC 4 IC 5	Clinical demonstration, ward teaching	Short Case Long case
10	Liver And Dentistry	<ul style="list-style-type: none"> Discuss dental presentation of chronic liver disease Discuss dental procedures that require liver function tests Identify contraindications of liver disease in dentistry 	<u>Knowledge</u> <ul style="list-style-type: none"> Identify the clinical features of chronic liver disease Describe the prerequisites of dental procedures in liver disease patients 	IC 2	LGIS	MCQs SEQs Viva
11	Enteric Fever	<ul style="list-style-type: none"> Discuss Introduction and clinical features of enteric fever 	<u>Knowledge</u> <ul style="list-style-type: none"> Identify the common presentation of enteric fever 	IC 2	LGIS	MCQs SEQs Viva



		<ul style="list-style-type: none"> Describe Path-physiology of S. typhi and para typhi Advise investigations for enteric fever Plan treatment for enteric fever and its complications 	<ul style="list-style-type: none"> Describe the 1st line investigations and treatment of enteric fever 			
12	Dengue	<ul style="list-style-type: none"> Discuss the clinical presentation, treatment and complications of dengue fever 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Discuss the epidemiology of dengue fever Describe its vector and the preventive measures which can be taken 	IC 2 IC 6	LGIS	MCQs SEQs Viva
13	Malaria Fever	<ul style="list-style-type: none"> Discuss the clinical presentation, treatment and complications of malaria fever Discuss vector borne diseases Discuss the clinical presentation, treatment and complications of black water fever 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Discuss the epidemiology of malarial fever Describe its vector and the preventive measures 	IC 2	LGIS	MCQs SEQs Viva



14	HIV And STD-I	<ul style="list-style-type: none"> • Discuss introduction, Epidemiology and path-physiology of HIV • Differentiate between HIV and AIDS 	<u>Knowledge</u> <ul style="list-style-type: none"> • Recall clinical features of HIV • Describe the pathophysiology of HIV 	IC 2	LGIS	MCQs SEQs
15	HIV And STD-II	<ul style="list-style-type: none"> • Discuss clinical features of AIDs • Discuss Systemic manifestations of AIDS • Discuss Investigations and Management of HIV • Outline the complications of HIV 	<u>Knowledge</u> <ul style="list-style-type: none"> • Describe HIV pathophysiology and its systemic complications 	IC 2	LGIS	MCQs SEQs
			<u>Skill</u> <ul style="list-style-type: none"> • Advise basic HIV investigations 	IC 1 IC 4	Clinical ward	Short Case Long Case
16	Acute Febrile Illness	<ul style="list-style-type: none"> • Discuss introduction to acute febrile illness 	<u>Knowledge</u> <ul style="list-style-type: none"> • Describe the aetiology of acute febrile illness 	IC 2	LGIS	MCQs SEQs



		<ul style="list-style-type: none"> • Discuss Pyrexia of unknown origin (PUO) • Outline the Causes of PUO • Discuss the Investigations and Management and complications of PUO 	<p><u>Skill</u></p> <ul style="list-style-type: none"> • Illustrate the workup about Pyrexia of unknown origin (PUO) 	IC 1 IC 4	Clinical ward teaching	Short Case Long case
17	Fungal Infection- I	<ul style="list-style-type: none"> • Discuss the clinical presentations of fungal infections • Discuss Systemic manifestation of fungal infections 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Identify clinical features of fungal infection 	IC 2	LGIS	MCQs SEQs Viva
18	Fungal Infection- II	<ul style="list-style-type: none"> • Discuss investigation, management and complications of fungal infection 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Discuss the systemic complication of fungal infections 	IC 2	LGIS	MCQs SEQs Viva
			<p><u>Skill</u></p> <ul style="list-style-type: none"> • Interpret the fungal infection results 	IC 1 IC 4 IC 5	Clinical ward demonstration	Long case Short case
19	Infective Endocarditis	<ul style="list-style-type: none"> • Discuss Introduction and Organism spectrum of 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Elaborate on the organism spectrum of infective endocarditis 	IC 2	LGIS	MCQs SEQs



	(Infectious Spectrum)	<p>infective endocarditis</p> <ul style="list-style-type: none"> Discuss Clinical features and management according to culture report 	<p>Skill</p> <ul style="list-style-type: none"> Interpret the spectrum of organisms 	<p>IC 1 IC 4 IC 5</p>	<p>Clinical ward teaching Demonstration</p>	<p>Short cases Long cases</p>
20	Pneumonias (Infection Spectrum)	<ul style="list-style-type: none"> Discuss Introduction and Infectious spectrum of pneumonias Discuss complications of pneumonias 	<p>Skill</p> <ul style="list-style-type: none"> Plan management of pneumonia 	<p>IC 1 IC 4 IC 5</p>	<p>Clinical ward teaching Demonstration</p>	<p>Long Case Short Case</p>
21	Infective Endocarditis	<ul style="list-style-type: none"> Discuss introduction, types and pathogenesis of Endocarditis Plan management and empirical treatment of endocarditis 	<p>Knowledge</p> <ul style="list-style-type: none"> Describe the microbiological spectrum of Bacterial Endocarditis Discuss Cardiac and extra-cardiac manifestation of Endocarditis 	<p>IC 2</p>	<p>LGIS</p>	<p>MCQs SEQs Viva</p>
			<p>Skill</p> <ul style="list-style-type: none"> Plan the administration of prophylaxis for endocarditis in high-risk patients 	<p>IC 1 IC 4 IC 5</p>	<p>Clinical ward teaching demonstration</p>	<p>Short case Long Case</p>
22	<u>Bronchial Asthma</u>	<ul style="list-style-type: none"> Discuss Pathophysiology, Clinical features 	<p>Knowledge</p> <ul style="list-style-type: none"> Describe the aetiology of asthma exacerbation 	<p>IC 2</p>	<p>LGIS</p>	<p>MCQS SEQs</p>



	(Infectious Spectrum)	<ul style="list-style-type: none">• And Management of acute severe asthma	<u>Skill</u> <ul style="list-style-type: none">• Plan the management of asthma	IC 1 IC 4 IC 5 IC 6	Clinical ward teaching demonstration	Long Case Short Case
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GENERAL SURGERY						
S. No.	Topics/ Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
		By the end of this block students should be able to:				
1.	Trauma Management Based On ATLS Protocol	<ul style="list-style-type: none"> Assess the patient presenting with trauma in dental practice Apply the knowledge of trauma management in clinical scenarios 	<u>Knowledge</u> <ul style="list-style-type: none"> Describe the basic principles of the following with emphasis on clinical application: <ul style="list-style-type: none"> The importance of time in trauma management How to assess a trauma patient How to respond to a trauma patient Value of teamwork and planning in trauma care Sequence of priorities in the early assessment of the trauma patient Principle of triage in immediate management of the trauma patients 	IC 2	LGIS	MCQs SEQs Viva
			<u>Skill</u> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> Concepts of injury recognition prediction 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	Short case OSCE



			<p>based on the mechanism and energy of injury</p> <ul style="list-style-type: none"> • Principles of primary and secondary surveys in the assessment and management of trauma • Techniques for the initial resuscitative and definitive care aspects of trauma based on ATLS protocol • Necessary protocols to allow early stabilization of the patient leading on to definitive care 			
2.	Head Injury	<ul style="list-style-type: none"> • Assess the patient presenting with head injury in dental practice • Apply the knowledge of head injury in clinical scenarios 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Describe the basic principles of the physiology of cerebral blood flow with emphasis on clinical application • Describe the pathophysiology of raised intracranial pressure with emphasis on clinical application • Describe the management of head injury and prevention of secondary brain injury with emphasis on clinical application 	IC 2	LGIS	<p>MCQs SEQs Viva</p>



			<p><u>Skill</u></p> <ul style="list-style-type: none"> Illustrate the early response protocol for a patient of head trauma 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	OSCE Short case
3	Cervical Spine Injury	<ul style="list-style-type: none"> Assess the patient presenting with Cervical spine injury in dental practice Apply the knowledge of Cervical spine injury in clinical scenarios 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Describe the basic principles of the following with emphasis on clinical application: <ul style="list-style-type: none"> Accurate initial assessment of spinal trauma The pathophysiology and types of spinal cord injury The basic management of spinal trauma and the major pitfalls The prognosis of spinal cord injury, factors affecting functional outcome, and common associated complications 	IC 2	LGIS	MCQs SEQs Viva
4	Neck Trauma	<ul style="list-style-type: none"> Assess the patient presenting with neck trauma in dental practice Apply the knowledge of neck trauma in clinical scenarios 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Describe the overview of surgical anatomy of the neck with emphasis on clinical application Discuss the pathophysiology of penetrating and blunt neck trauma 	IC 2	LGIS	MCQs SEQs Viva



			<ul style="list-style-type: none"> Describe the neck zones used to describe neck injuries Discuss the management of neck trauma 			
5	Chest Trauma And Its Management Thoracotomy / Use Of Chest Drains Haemorrhage And Its Types	<ul style="list-style-type: none"> Assess the patient presenting with chest trauma in dental practice Apply the knowledge of chest trauma in clinical scenarios 	<p>Knowledge</p> <ul style="list-style-type: none"> Describe the basic principles of the following with emphasis on clinical application: The gross and surgical anatomy of the chest and abdomen The pathophysiology of torso injury The strength and weaknesses of clinical assessment in the injured patient The use of special investigations and their limitations 	IC 2	LGIS	MCQs SEQs VIVA
			<p>Skills</p> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: The operative approaches to the thoracic cavity 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	OSCE Short case



			<ul style="list-style-type: none"> • The special features of an emergency department • thoracotomy for haemorrhage control • The philosophy of damage control surgery • Basic structure and working of a chest drain with an underwater seal • Insertion of a chest drain and its care • How and when to remove chest drains • Complications associated with use of chest drains 			
6.	Benign And Malignant Disorders Of The Thyroid Gland	<ul style="list-style-type: none"> • Assess the patient presenting with disorders of the thyroid gland • Plan the management for disorders of the thyroid gland 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Describe the basic principles of the following with emphasis on clinical application: <ul style="list-style-type: none"> • The embryology and anatomy of the thyroid and parathyroid gland • The physiology and investigations of thyroid gland 	IC 2	LGIS	MCQs SEQs Viva



			<ul style="list-style-type: none"> • 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 			
7.	Thyroidectomy & Its Complications	<ul style="list-style-type: none"> • Plan the preoperative preparation of a patient with thyroid disorder • Discuss postoperative complications of thyroidectomy 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Describe the indications of surgery in thyroid disorders • Discuss the pre-op preparation of a patient with thyroid disorder • Describe the complications after thyroid surgery particularly life-threatening complications that can occur after thyroidectomy e.g., hyperparathyroidism 	IC 2	LGIS	MCQs SEQs Viva



8	Disorders Of The Parathyroid Gland (Hyper And Hypoparathyroidism, Benign Hyperplasia, Malignancy, MEN Syndromes) And Their Surgical Management	<ul style="list-style-type: none"> Assess the patient presenting with disorders of the Parathyroid gland Plan the management for disorders of the Parathyroid gland 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Describe the embryology and anatomy of the parathyroid gland with emphasis on clinical application Discuss the physiology and investigations of parathyroid gland, selection of appropriate investigations for parathyroid disorders Discuss various types of benign and malignant disorders of the parathyroid gland Differentiate between primary, secondary, and tertiary hyperparathyroidism with emphasis on clinical application 	IC 2	LGIS	MCQs SEQs viva
			<p><u>Skills</u></p> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> Clinical history taking / examination of a patient presenting with parathyroid disorder 	IC 1 IC 4 IC 5 IC 6	Clinical rotation Bedside demonstrations	OSCE Short case



			<ul style="list-style-type: none"> • Overview of various treatment modalities available for treatment of parathyroid disorders • Parathyroidectomy and its complications • The concept of auto-transplantation of parathyroids 			
9	Differential Diagnosis & Diagnostic Approach To Neck Swelling	<ul style="list-style-type: none"> • Discuss the patient presenting with neck swelling based on history and clinical examination 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Discuss the differential diagnosis of a neck swelling based on the concept of anatomical triangles of the neck • Differentiate between types of cystic lesions (true cyst and false cyst), sinus and fistula 	IC 2	LGIS	MCQs SEQs Viva
			<p><u>Skills</u></p> <ul style="list-style-type: none"> • Practice identification of clinical diagnostic landmarks of common neck swellings 	IC 1 IC 4 IC 5	Ward rotation Demonstration	OSCE Short Cases
10	Cervical Lymphadenopathy	<ul style="list-style-type: none"> • Discuss the patient of cervical lymphadenopathy in clinical practice 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Describe the clinical anatomy of the lymph nodes and lymphatic drainage of the head and neck • Discuss the levels of neck lymph nodes 	IC 2	LGIS	MCQs SEQs Viva



			<ul style="list-style-type: none"> Enlist common causes of localized and generalized lymphadenopathy and their clinical features 			
			<p><u>Skills</u></p> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> Clinical differentiation between acute and chronic lymphadenitis Cold abscess and the collar stud abscess Clinical features suggesting malignant lymphadenopathy Where to look for the primary disease in cases of secondary malignant deposits in the neck lymph nodes Plan a diagnostic workup for a patient presenting with cervical lymphadenitis 	IC 1 IC 4 IC 5	Ward rotation Demonstration	OSCE Short Cases
11	Oral Cancer And Precancerous Conditions	<ul style="list-style-type: none"> Apply the knowledge of oral cancer and precancerous 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Describe the basic principles of the following with 	IC 2	LGIS	MCQs SEQs Viva



	(Carcinoma Tongue And Lip)	conditions in clinical practice	emphasis on clinical application: <ul style="list-style-type: none">• 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 aerodigestive 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			
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			treatment of oro-pharyngeal cancer			
12	Neck Dissections & Its Types	<ul style="list-style-type: none">Apply the knowledge of types of neck dissections, their pros, and cons in clinical scenarios	Knowledge <ul style="list-style-type: none">Discuss the meaning of term 'Neck dissection'Explain the concept of en-bloc resection of draining lymph nodes in surgical oncologyDiscuss the various types of neck dissections used in surgical practice with their respective advantages and disadvantages	IC 2	LGIS	MCQs SEQs Viva



PERIODONTOLOGY

Sr.	Theme/ Topics	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1.	Chronic Periodontitis	<ul style="list-style-type: none"> Define periodontitis Diagnose chronic cases of periodontitis Managing the disease prognosis 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Describe diverse anatomical features of chronic periodontitis Identify histological features of the disease Diagnose chronic periodontitis on the basis of clinical and histological features Discuss risk factors of the disease Discuss management of chronic periodontitis 	IC 2	LGIS	SAQs MCQs VIVA
2.	Aggressive Periodontitis	<ul style="list-style-type: none"> Distinguish and differentiate between aggressive and chronic forms of periodontitis Plan management of disease 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Define aggressive periodontitis Differentiate between aggressive and chronic periodontitis Describe histopathological features of the disease Describe the management of the 	IC 2	LGIS	SAQs MCQs VIVA



			<p>disease and its risk factors</p> <ul style="list-style-type: none"> • Employ various adjuncts to non-surgical therapy to show rationale for use 			
			<p><u>Skill</u></p> <ul style="list-style-type: none"> • Classify interdental cleaning aids • Demonstrate the importance of tooth brushing techniques, oral irrigation techniques and disclosing agents 	<p>IC 1 IC 4 IC 5</p>	<p>Clinical rotation demonstration</p>	<p>OSCE</p>
3.	Necrotizing Ulcerative Periodontitis	<ul style="list-style-type: none"> • Diagnose Acute Necrotizing Ulcerative Gingivitis (ANUG) • Differentiate and manage cases of ANUG and Chronic ulcerative periodontitis 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Identify and correlate clinical features • Distinguish between different gingival diseases • Describe the management and risk factors of the disease 	<p>IC 2</p>	<p>LGIS</p>	<p>SAQs MCQs VIVA</p>
4.	Trauma From Occlusion	<ul style="list-style-type: none"> • Define trauma from occlusion (TFO) 	<p><u>Knowledge</u></p>	<p>IC 2</p>	<p>LGIS</p>	<p>SAQs MCQs</p>



		<ul style="list-style-type: none"> • Discuss different classes of trauma • Plan management of trauma from occlusion (TFO) 	<ul style="list-style-type: none"> • Differentiate trauma from occlusion • Identify types of Occlusal trauma • Indicate consequences of trauma • Examine and recall tissue response of trauma • Enumerate treatment options 			VIVA
5.	Periodontal Non-Surgical Therapy	<ul style="list-style-type: none"> • Discuss the aims of non-surgical therapy • Identify the procedures comprising of NSPT • Distinguish different end points with NSPT 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Explain chemical and mechanical plaque control techniques • Describe Oral hygiene instructions • Employ various adjuncts to non-surgical therapy to show rationale for use • Classify interdental cleaning aids • Discuss the importance of toothbrush brushing techniques, oral 	IC 2	LGIS	SAQs MCQs VIVA VOCE



			irrigation techniques and disclosing agents			
			<u>Skill</u> <ul style="list-style-type: none"> Demonstrate various plaque control techniques 	IC 1 IC 4 IC 5	Clinical Rotation	OSCE
6.	Periodontal Pocket	<ul style="list-style-type: none"> Define Periodontal pocket Classify periodontal pockets Management of all types of pockets Distinguish and differentiate features between different periodontal pockets 	<u>Knowledge</u> <ul style="list-style-type: none"> Demonstrate gingival and periodontal probing Determine pathological signs of periodontal tissues Interpret normal and pathological structures found on dental radiographs Label periodontal pocket Point out techniques available for detecting change in bone heights on radiographs Identify and discuss clinical features of gingival inflammation, periodontal pocketing, and bone loss patterns 	IC 2	LGIS	SAQs MCQs VIVA



			<u>Skill</u> <ul style="list-style-type: none"> Calculate the clinical attachment loss of attached gingiva 	IC 1 IC 4 IC 5	Clinical Rotation	OSCE
7.	Acute Gingival Infections	<ul style="list-style-type: none"> Discuss the acute gingival infections Correlate histopathological differences between infections Management of acute gingival infections 	<u>Knowledge</u> <ul style="list-style-type: none"> Define Identify and Describe gingival inflammation, periodontal pocket, and bone loss patterns Describe histopathological features associated with gingival inflammation Describe pathogenesis of gingival inflammation, pocket formation and bone destruction patterns 	IC 2	LGIS	MCQ SAQ VIVA
8.	Treatment Of Desquamative Gingivitis	<ul style="list-style-type: none"> Define and correlate histopathology Discuss management of desquamative gingivitis 	<u>Knowledge</u> <ul style="list-style-type: none"> Classify the types of gingival diseases Discuss how to diagnose desquamative gingivitis Plan its management 	IC 2	LGIS	MCQ SAQ VIVA



9.	Bone Loss And Patterns Of Bone Loss	<ul style="list-style-type: none"> • Define bone loss • Discuss types of bone loss • Discuss the treatment modalities 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Discuss Bone destruction patterns in periodontal disease • Discuss bone destruction caused by trauma from occlusion, and systemic disorders • Explain factors determining bone morphology in periodontal disease 	IC 2	LGIS	MCQ SAQ VIVA
10.	Chemotherapeutic Agents	<ul style="list-style-type: none"> • Discuss all available prophylactic agents • Discuss use of agents as adjunctive therapy 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Define antimicrobial agent • Classify antimicrobial agents used in periodontal disease • Identify commonly used antimicrobial agents and Chlorhexidine in periodontal disease • Differentiate between the use of Systemic and Local antimicrobial agents • Identify serial and combination antibiotic therapy 	IC 2	LGIS	MCQ SAQ VIVA



11.	Host Modulation	<ul style="list-style-type: none"> • Discuss and define host modulation therapy • Discuss doxycycline as host altering agent • Discuss interaction of agents with host 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Define host modulation • Identify risk factors for periodontal disease • Describe host response in periodontal disease 	IC 2	LGIS	MCQ SAQ VIVA
12.	Periodontal Pathogenesis	<ul style="list-style-type: none"> • Discuss pathogenesis of periodontal disease • Differentiate between the bacterial species involved in periodontitis 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Enlist its causative factors • Discuss histopathological changes associated with various periodontal diseases • Discuss immune reactions in pathogenesis of periodontal diseases 	IC 2	LGIS	MCQ SAQ VIVA
13.	Influence Of Systemic Conditions	<ul style="list-style-type: none"> • Identify all the systemic conditions affecting periodontium • Discuss management of periodontal disease influenced by 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Identify the role of systemic diseases/ conditions in the etiology of periodontal disease • Describe clinical features of periodontal disease associated with 	IC 2	LGIS	MCQ SAQ VIVA



		different systemic conditions	systemic diseases/ factors <ul style="list-style-type: none"> • Tabulate common systemic diseases or conditions that have an impact of periodontal health 			
14.	Impact Of Periodontal Infections On Systemic Health	<ul style="list-style-type: none"> • Identify bacteria involved in periodontal infection • Identify the role of periodontal disease affecting systemic health • Plan management of periodontal infections 	<u>Knowledge</u> <ul style="list-style-type: none"> • Differentiate between clinical features of various systemic conditions/diseases • Identify the role of AIDS on periodontium • Identify treatment options for gingival disease 	IC 2	LGIS	MCQs SAQs VIVA



ORAL & MAXILLOFACIAL SURGERY

S. No	Topics/ Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
			By the end of the block the student will be able to:			
1.	Introduction To Oral & Maxillofacial Surgery	<ul style="list-style-type: none"> • Discuss the basic concept of this subspecialty, various domains, and horizon • Describe the role of maxillofacial surgeon • Discuss the significance of this field in the health care system 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Define Oral & Maxillofacial Surgery and its significance • Explain the implication of this field in various disease conditions • Discuss the role of Multi-Disciplinary Team (MDT) and its significance 	IC 2	LGIS	Students' Presentations /Formative Ward Test
2.	Principles Of Surgery	<ul style="list-style-type: none"> • Discuss the steps of history taking • Describe the steps of General patient evaluation/examination, documentation, Consent, and Ethics 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Enlist common areas of dental litigation • Enlist the steps to reduce the risk of litigation • Describe the role of a dentist in forensic odontology • Describe Consent, its significance, and its types 	IC 2	LGIS	Students' Presentations /Formative Ward Test



			<p>Skill</p> <ul style="list-style-type: none"> Record relevant history of the patient Identify the Chief Complaint Perform relevant systemic examination related to oral surgery Record vitals Document the patient history and record sheet 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	Formative Ward Test
			<p>Attitude</p> <ul style="list-style-type: none"> Follow the proper dress code of the clinical department Obtain consent before starting the procedure and thank in the end Maintain his/her workstation according to the prescribed SOPs Report any damage to the armamentarium and equipment immediately 	IC 1 IC 3 IC 4 IC 5	Clinical rotation Demonstration	Formative Ward Test
3.	Infection Control In Surgical Practice	<ul style="list-style-type: none"> Describe Aseptic Techniques Define sterilization and disinfection Differentiate between clean and sterile technique 	<p>Knowledge</p> <ul style="list-style-type: none"> Describe various sterilization techniques and tests to ensure sterilization 	IC 2	LGIS	Students' Presentations /Formative Ward Test



			<ul style="list-style-type: none"> Describe various disinfection means and methods Define Clean and sterile techniques and their application in oral surgery Describe the functions of CSSD 			
4	Cross Infection Control	<ul style="list-style-type: none"> Describe infectious pathogens (blood-borne), their transmission, prevention and exposure Apply universal precautions Follow Protocols for Hepatitis B exposure and vaccine 	<p>Skills</p> <ul style="list-style-type: none"> Follow the Protocols for needle stick injury Implement universal precautions and hand hygiene Recall and apply Covid-19 SOP and protocols Manage sharps, needle handling (scoop technique) & their waste 	IC 1 IC 4 IC 5	Clinical Rotation Demonstration	Formative Ward Test
5	Pain And Anxiety Management	<ul style="list-style-type: none"> Describe the significance of pain and anxiety management, pre-operative, intraoperative and postoperative Implement the Anxiety Reduction Protocol 	<p>Knowledge</p> <ul style="list-style-type: none"> Describe various anaesthetic techniques, local anaesthesia, general anaesthesia, sedation (nitrous oxide), and their application in OMFS 	IC 2	LGIS	Students' Presentations /Formative Ward Test



			<p>Skill</p> <ul style="list-style-type: none"> Describe various anaesthetic techniques, local anaesthesia, general anaesthesia, sedation (nitrous oxide), and their application in OMFS 	<p>IC 1 IC 4 IC 5</p>	<p>Clinical rotation Demonstration</p>	<p>Formative Ward Test</p>
6.	Local Anaesthesia	<ul style="list-style-type: none"> Describe types of Local Anaesthesia (LA) on the pharmacological basis, pharmacology, mechanism of action Describe Types of LA on the duration of action Describe the composition of LA cartridge Describe vasoconstrictors and their effects in local anaesthesia 	<p>Knowledge</p> <ul style="list-style-type: none"> Recall the composition of Local Anaesthesia (LA) cartridge which is used in the dental office Describe recommended dosages of various types of LA 	<p>IC 2</p>	<p>LGIS</p>	<p>Students' Presentations /Formative Ward Test</p>
7.	Local Anaesthesia Armamentarium	<ul style="list-style-type: none"> Identify armamentarium for local anaesthesia in oral surgery 	<p>Knowledge</p> <ul style="list-style-type: none"> Identify different parts of the dental syringe and LA cartridge 	<p>IC 2</p>	<p>LGIS</p>	<p>Students' Presentations /Formative Ward Test</p>
8.	Techniques For Administering Local Anaesthesia	<ul style="list-style-type: none"> Identify anatomical landmarks and recall relevant anatomy Enlist sensory innervation of jaws and individual teeth 	<p>Skills</p> <ul style="list-style-type: none"> Perform Maxillary anaesthetic injection Perform Mandibular anaesthetic injection (Mental nerve block, 	<p>IC 1 IC 4 IC 5</p>	<p>Clinical rotation Demonstration</p>	<p>Formative Ward Test</p>



		<ul style="list-style-type: none"> Compare various techniques of inferior alveolar nerve block 	<p>I.A.N nerve block, long buccal nerve block, infiltration)</p> <ul style="list-style-type: none"> Perform Periodontal ligament & Intra-osseous anaesthetic injection technique 			
9.	Complications Of Local Anaesthesia	<ul style="list-style-type: none"> Enlist and recognize possible complications of local anaesthesia injection and toxicity 	<p>Knowledge</p> <ul style="list-style-type: none"> Differentiate between local and systemic complications of LA and their management 	IC 2	LGIS	Students' Presentations /Formative Ward Test
10.	Simple Exodontia	<ul style="list-style-type: none"> Enlist indications and contra-indications for the removal of teeth Perform radiological interpretation Formulate and finalize a treatment plan Enumerate the nerves that need anaesthetized to extract individual teeth 	<p>Skills</p> <ul style="list-style-type: none"> Elicit relevant medical and dental history and examination (patient assessment) Perform clinical evaluation of tooth to be removed, making a diagnosis Interpret relevant radiographic investigations 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	Formative Ward Test
11.	Exodontia Armamentarium & Techniques	<ul style="list-style-type: none"> Identify armamentarium for simple exodontia Perform Chair positioning 	<p>Knowledge</p> <ul style="list-style-type: none"> Explain mechanical principles of elevators and forceps 	IC 2	LGIS	Students' Presentations /Formative Ward Test

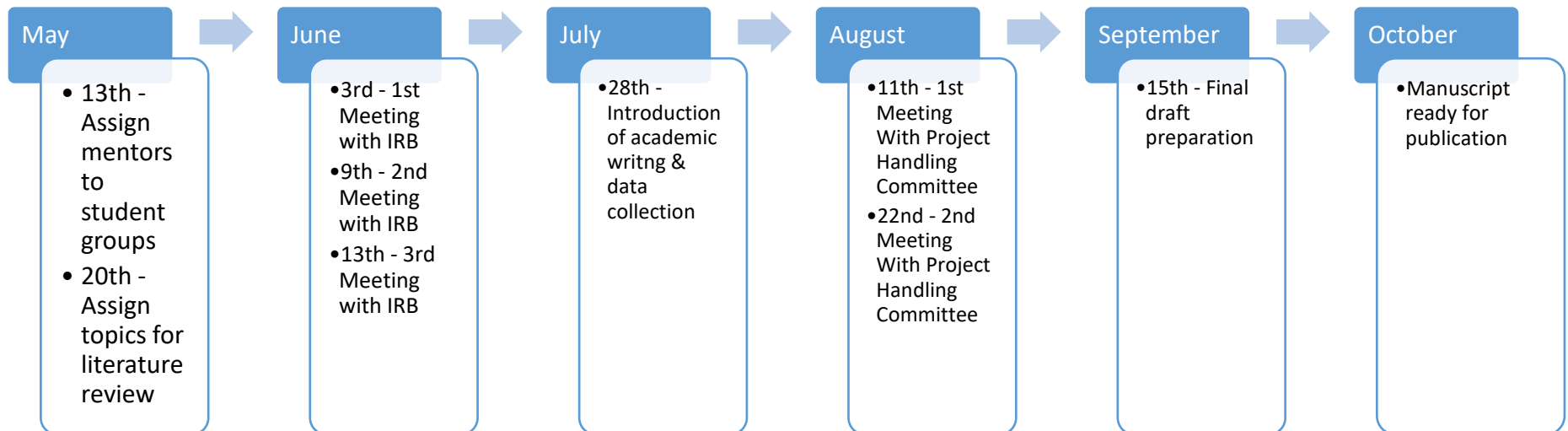


		<ul style="list-style-type: none">• Enlist steps of tooth extraction• Explain Mechanical principles involved in tooth extraction• Describe Post-operative instruction (exodontia only)	<u>Skills</u> <ul style="list-style-type: none">• Practice chair positioning• Demonstrate knowledge of use of forceps and elevators	IC 1 IC 4 IC 5	Clinical rotation Demonstration	Formative Ward Test
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Vertically Integrated Modules Research - Student Research Interest Groups

Activities Timeline:





BEHAVIOURAL SCIENCES						
S. No.	Topics/ Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1.	An Anthropological approach to Bioethics	<ul style="list-style-type: none"> • Demonstrate a sense of responsibility to act in the best interest of a person or the organization. • Integrate the principles of medical ethics in daily work life 	<u>Knowledge</u> <ul style="list-style-type: none"> • Discuss cultural embeddedness of moral systems • Analyze cultural pluralism in light of bioethical evolution 	IC 2	LGIS	Assignment/ Presentation
2.	Cultural Diversity of Pakistan	<ul style="list-style-type: none"> • Appreciate the cultural diversity of Pakistan 	<u>Knowledge</u> <ul style="list-style-type: none"> • Describe varied cultures prevailing in our society 	IC 2 IC 4	Lectures Tutorials Presentations	Quiz/Presentation/ Assignment



Block 2 Syllabi

Behavioural Sciences

Week 1	Topic/ Theme	MIT
	Anthropological approach to bioethics	LGIS
Week 2	Topic/ Theme	MIT
	Anthropological approach to bioethics	LGIS
Week 3	Topic/ Theme	MIT
	Anthropological approach to bioethics	LGIS
Week 4	Topic/ Theme	MIT
	Anthropological approach to bioethics	LGIS
Week 5	Topic/ Theme	MIT
	Cultural pluralism	LGIS
Week 6	Topic/ Theme	MIT
	Cultural pluralism	LGIS
Week 7	Topic/ Theme	MIT
	Cultural pluralism	LGIS
Week 8	Topic/ Theme	MIT
	Cultural Diversity of Pakistan	LGIS
Week 9	Topic/ Theme	MIT
	Cultural Diversity of Pakistan	LGIS
Week 10	Topic/ Theme	MIT
	Cultural Diversity of Pakistan	LGIS



ORAL MEDICINE

Lectures

Sr. no.	TOPICS	WEEKS	MITs
1.	Precancerous Lesions	14 th Week (Block 2)	LGIS
2.	Salivary gland Swellings Disturbances of salivary flow	15 th Week	LGIS
3.	Glossopharyngeal Neuralgia Halitosis + Mucocele	16 th Week	LGIS
4.	Headaches	17 th Week	LGIS
5.	Facial Pain Trigeminal Neuralgia	17 th Week	LGIS
6.	Disorders of nutrition	19 th Week	LGIS
7.	Gastro-Intestinal Disorders	20 th Week	LGIS
8.	Facial Paralysis/ Bell's Palsy	22 nd Week	LGIS
9.	Vesiculobullous disease and Lichen planus	23 rd Week	LGIS
10.	Connective Tissue Disorders	25 th Week	LGIS



PRACTICALS

Weeks	Topic
1 & 2	Orientation of department/ History taking
3 & 4	Examination of hard and soft tissues of oral cavity (tongue, mucosa, soft palate, hard palate, teeth, alveolar bone, lingual and pharyngeal tonsils)
5 & 6	Examination of cranial nerves
7 & 8	Examination of lymph nodes
9 & 10	Basic drugs used in a dental OPD
11 & 13	Instruments used in medical emergencies
14 & 15	Examination of temporo-mandibular joint+ muscles of mastication
16 & 17	Advise Investigations
19 & 20	Examination of salivary glands
21 & 22	Diagnosis and treatment planning



ORAL PATHOLOGY

LECTURES

SR. NO	WEEK WISE DISTRIBUTION	TOPICS	MIT
2)	WEEK 14	Revision Class Test	--
3)	WEEK 15	Dental Caries/Periapical Pathology	LGIS
4)	WEEK 16	Bone Pathology	LGIS
5)	WEEK 17	Bone Pathology	LGIS
6)	WEEK 18	1 ST BLOCK EXAMINATION	
7)	WEEK 19	Bone pathology/ Immune Mediated Disorders	LGIS
8)	WEEK 20	Immune Mediated Disorders/Oral Infections	LGIS
9)	WEEK 21	Immune Mediated Disorders	LGIS
10)	WEEK 22	Developmental Disturbances	LGIS
11)	WEEK 23	Developmental Disturbances	LGIS
12)	WEEK 24	LCH+ Keratoacanthoma/ Examination Guidance	LGIS
13)	WEEK 25	Revision Class Test	--
14)	WEEK 26	2 ND BLOCK EXAMINATION	--



PRACTICALS

SR No.	WEEK WISE DISTRIBUTION	TOPICS	MIT
1)	WEEK 14	Dental Caries	SGD
2)	WEEK 15	Osteomyelitis	SGD
3)	WEEK 16	Cellulitis	SGD
4)	WEEK 17	Bone Pathology	SGD
5)	WEEK 18	Bone Pathology	SGD
6)	WEEK 19	Bone Pathology	SGD
7)	WEEK 20	Immune Mediated Disorders	SGD
8)	WEEK 21	Immune Mediated Disorders	SGD
9)	WEEK 22	Developmental Disturbances	SGD
10)	WEEK 23	PBL on Pemphigus Vulgaris	SGD
11)	WEEK 24	LCH+ Keratoacanthoma	SGD
12)	WEEK 25	Central Giant Granuloma+ Peripheral Giant Cell Granuloma	SGD
13)	WEEK 26	Bone Pathology	SGD



Week	Theory Topics	MIT
1	Chronic Periodontitis	1. LGIS 2. Clinical demonstration
2	Aggressive periodontitis	1. LGIS 2. Clinical demonstration
3	Necrotizing ulcerative periodontitis	1. LGIS 2. Clinical demonstration
4	Trauma from occlusion	1. LGIS 2. Clinical demonstration
5	Non-surgical periodontal therapy	1. LGIS
6	Periodontal Pocket	1. LGIS
7	Acute gingival infections	1. LGIS
8	Treatment of desquamative gingivitis	1. LGIS 2. SDL
9	Bone loss Patterns of bone loss	1. LGIS 2. SDL
10	Chemotherapeutic agents	1. LGIS 2. SDL
11	Host modulation Therapy	1. LGIS 2. SDL
12	Periodontal pathogenesis	1. LGIS 2. SDL
13	Influence of systemic conditions	1. LGIS 2. SDL
14	Impact of systemic conditions	1. LGIS 2. SDL



WEEKS	TOPIC	MITs
1 st	<ol style="list-style-type: none"> 1. History Taking 2. Intra-Oral/Extra-Oral Examination 3. Operating the dental unit 4. Chair and Operator Positioning 5. Infection Control 	<p>Clinical rotation Demonstrations</p>
2 nd	<ol style="list-style-type: none"> 1. Instrument grasps and stroking methods 2. Chair side ethics and manners 	<p>Clinical rotation Demonstrations</p>
3 rd	<ol style="list-style-type: none"> 1. Periodontal examination 2. Identifying anatomy and features of healthy gingiva and diseased gingiva on patients 	<p>Clinical rotation Demonstrations</p>
4 th	<ol style="list-style-type: none"> 1. Clinical diagnosis of periodontal and gingival diseases of patients 2. Chemical and mechanical plaque control measures 	<p>Clinical rotation Demonstrations</p>
5 th	<ol style="list-style-type: none"> 1. Oral Hygiene instructions and prescription writing 2. Treatment planning of patients with different types of periodontal diseases 	<p>Clinical rotation Demonstrations</p>
6 th	<ol style="list-style-type: none"> 1. Assessment and interpretation of OPG and periapical radiographs. 2. Detection and diagnosis of gingival recession and furcation involvement 	<p>Clinical rotation Demonstrations</p>



7 th	<ol style="list-style-type: none"> 1. Non-surgical Management of patients 2. Introduction to ultrasonic scaling (Equipment and Procedure) 3. Identifying periodontal surgery instruments 	Clinical rotation Demonstrations
8 th	<ol style="list-style-type: none"> 1. Ultra-sonic scaling (equipment and procedure) 2. Medical emergencies 	Clinical rotation Demonstrations
9 th	WARD EXIT EXAM	

GENERAL MEDICINE

LECTURES

Week	Topic	MIT
1	Acid Peptic Disease I Acid Peptic Disease II	LGIS
2	Acute Hepatitis I Acute Hepatitis II	LGIS
3	Cirrhosis - I Cirrhosis - II	LGIS



4	Chronic Hepatitis- I Chronic Hepatitis- II	LGIS
5	Ascites and its Management	LGIS
5	Liver and Dentistry	LGIS
6	Enteric Fever	LGIS
6	Dengue Fever	LGIS
7	HIV/ AIDS and STDS - I HIV/ AIDS and STDS - II	LGIS
8	Malaria	LGIS
8	Acute Febrile Illness	LGIS
9	Fungal Infections And Management - I Fungal Infections And Management - II	LGIS
10	Pneumonia (Revision Regarding Infectious Revision)	LGIS



10	Infective Endocarditis (Revision Regarding Infectious Disease)	LGIS
11	Bronchial Asthma (Revision Regarding Infectious Diseases)	LGIS
12	Respiratory Disease Regarding Infectious Diseases	LGIS

Practicals

Week	Topic	MITs
1	SGD (acid peptic disease & GERD presentation) History Taking with Presenting complaints/ common gastrointestinal presenting complaints SGD (PPIs and H. Pylori eradication Therapy)	SGD ward teaching
2	SGD (acute viral hepatitis and transmission) History Taking with Presenting complaints/ common GI Symptoms SGD (interpretations of Liver function test)	SGD ward teaching
3	SGD (hepatitis B and C transmission) History Taking with Presenting complaints/ common presenting complaints/ history of CLD cases SGD (management of a case of needle stick injury)	SGD ward teaching
4	SGD (cirrhosis and its complications) History taking with demographic Information/ examination of a case of CLD CBL(management of a case of Upper GI Bleed)	SGD PBL
5	SGD (ascites and its management) History Taking and abdominal examination)	SGD



Week	Topic	MITs
	management of a case of ascites and ascetic tap)	
6	SGD (Enteric fever) History taking and abdominal examination (workup of a case of acute febrile illness)	SGD ward teaching
7	SGD (workup and management of water borne diseases) Significant Past medical and past surgical history Examination (abdominal examination and signs of dengue fever) (workup and management of a case of STDs)	SGD ward teaching
8	SGD (common fungal infections) History of Presenting illness(Common presenting complaints in gastroenterology) (interpretation of LFTS and synthetic liver function test)	SGD/ ward teaching
9	SGD (CLD and dentistry) Examination(JVP Measurement and pedal and sacral oedema) (Management of a case of AVH)	SGD/ ward teaching
10	SGD (Hep B and C transmission) Examination of abdominal viscera (causes of hepatomegaly) (interpretation of Hep B and C serology, SAAGs calculation for liver)	SGD/ ward teaching
11	SGD (management of patient with clotting disorder in dentistry) History Taking with Presenting complaints chronic diarrhoea Systemic examination in case of CLD (Approach to patient with Ascites)	SGD/ ward teaching



GENERAL SURGERY

Lecture Schedule

Week	Topic	MIT
14 TH	Revision of shock, surgical infection/neck and spine trauma	LGIS
15 TH	Thoracic trauma/rev; metabolic response to trauma	LGIS
16 TH	Oral malignancy	LGIS
17 TH	Salivary gland tumour	LGIS
18 TH	Exams	LGIS
19 TH	Submandibular gland/neck and spine trauma	LGIS
20 TH	Parotid gland/thyroid anatomy and physiology	LGIS
21 th	Oral malignancy	LGIS
22 nd	Thyroid benign and malignant disorders	LGIS
23 rd	Thyroid continue	LGIS
24 th	Disorder Of Parathyroid Gland	LGIS



Week	Topic	MIT
25 th	Disorder Of Parathyroid Gland	LGIS
26 th	Exams	LGIS
14 th	Case discussion in ER	Practical/ SGD
15 th	Operation theatre visit	Practical/ SGD
16 th	Emergency room	Practical/ SGD
17 th	Pre op preparation of patient	Practical/ SGD
18 th	Exam	Practical/ SGD
19 th	Case discussion in ward	Practical/ SGD
20 th	Examination of thyroid gland	Practical/ SGD
21 st	Discussion of case of pneumothorax	Practical/ SGD
22 nd	Discussion of CT scan	Practical/ SGD
23 rd	CT scan discussion	Practical/ SGD
24 th	Case Discussion Regarding ulcer	Practical/ SGD



Week	Topic	MIT
25 th	Case discussion pain abdomen	Practical/ SGD
26 th	Exam	Practical/ SGD



OPERATIVE DENTISTRY

Area		Topic/ Cavity Design
1st Week		
Day 1	Operative department	Orientation + history taking
Day 2	Skill lab	
Day 3		
2nd Week		
Day 1	Skill lab	Class I maxillary & mandibular molar
Day 2		
Day 3	Operative department	
3rd Week		
Day 1	Operative department	Class I compound & class I maxillary & mandibular premolars
Day 2		
Day 3		
4th Week		
Day 1	Skill lab	Class II maxillary & mandible molars
Day 2	Operative department	
Day 3		
5th Week		
Day 1	Operative department	Class II premolars
Day 2		
Day 3		
6th Week		
Day 1	Skill lab	Class III + Class V
Day 2	Operative department	



Area		Topic/ Cavity Design
Day 3		
7th Week		
Day 1	Operative department	Class III + Class V
Day 2		
Day 3		
8th Week		
Day 1	Operative department	Endo on extracted single rooted tooth
Day 2		
Day 3		
9th Week		
Day 1	Operative department	EXIT EXAM
Day 2		
Day 3		



PROSTHODONTICS

LECTURE SCHEDULE

S. No	Weeks	Theory Topics	MIT
1	14	Introduction to prosthodontics	LGIS
2	19	Surveying	LGIS
3	19	Major and minor connectors	LGIS
4	19	Systemic health aspects and nutritional considerations	LGIS

Clinical Demonstrations

Week	Practical
1.	History taking
2.	Clinical examination
3.	Tray selection/ impression making/ cast pouring
4.	Designing and surveying
5.	Clasp fabrication



Week	Practical
	Wax up
6.	Articulation
7.	Teeth setup
8.	Flasking/ Curing
	Polishing Finishing/Insertion
9.	Ward Test



Learning Resources

Oral Pathology

Textbook

Contemporary Oral and Maxillofacial Pathology (3rd Edition)

Authors: J. Philip Scapp, Lewis R Eversole, George P. Wysocki.

Reference Books

Oral and Maxillofacial Pathology (4th Edition)

Authors: Brad W. Neville & Douglass D. Dam & Carl Allen & Angela C. Chi

Oral and Maxillofacial Pathology (6th Edition); Clinical Pathological Corelations

Authors: J. Regazi, James Sciubba, Richard Jordan

Oral Medicine

- Tyldesley's Oral Medicine, 5th Edition, By Anne Field & Lesley Longman.
- Oral and Maxillofacial Medicine, The Basis Of Diagnosis And Treatment, 2nd Edition, By Crispian Scully.
- Medical Problems in Dentistry, 6th Edition, By Crispian Scully.

Periodontology

- Clinical Periodontology By Glickman
- Clinical Periodontology By Manson
- Colour Atlas of Clinical And Surgical Periodontology By Strahan & Waite
- A Textbook Of Clinical Periodontology By Jan Lindhe

Oral & Maxillofacial Surgery



- Contemporary Oral And Maxillofacial Surgery, 7th Edition, James R. Hupp
- Handbook Of Local Anaesthesia, 7th Edition, Stanley F. Malamed
- Fractures Of The Facial Skeleton, 2nd Edition, Peter Banks
- Scully's Medical Problems In Dentistry, 7th Edition, Crispian Scully

General Medicine

Textbook

1. Davidson's Principles And Practice Of Medicine 24th Edition

Reference Books

1. Kumar And Clarks Clinical Medicine 10th Edition
2. Harrisons Manual Of Medicine 20th Edition

Clinical Methods

1. Macleod's Clinical Examination 14th Edition
2. Hutchison's Clinical Methods 24th Edition

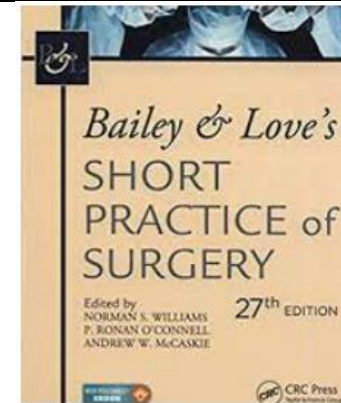
Operative Dentistry

1. Art & Science (Sturdevant)
2. Fundamentals Of Operative Dentistry (Summit's)

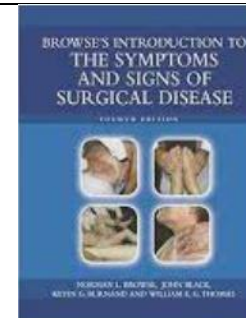


General Surgery

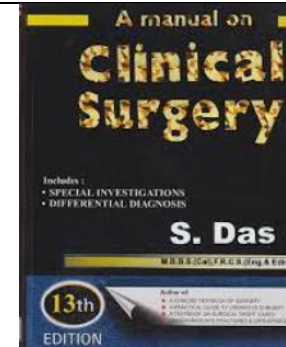
1. Bailey and Love's Short Practice of Surgery – 27th edition



2. An Introduction to the Symptoms & Signs of Surgical Disease by Norman S Browse



3. A Manual on Clinical Surgery by S. DAS



4. Clinical Methods in General Surgery by Hamilton & Bailey

