



DENTAL COLLEGE HITEC IMS

Study Guide Y3 - B1 - D22

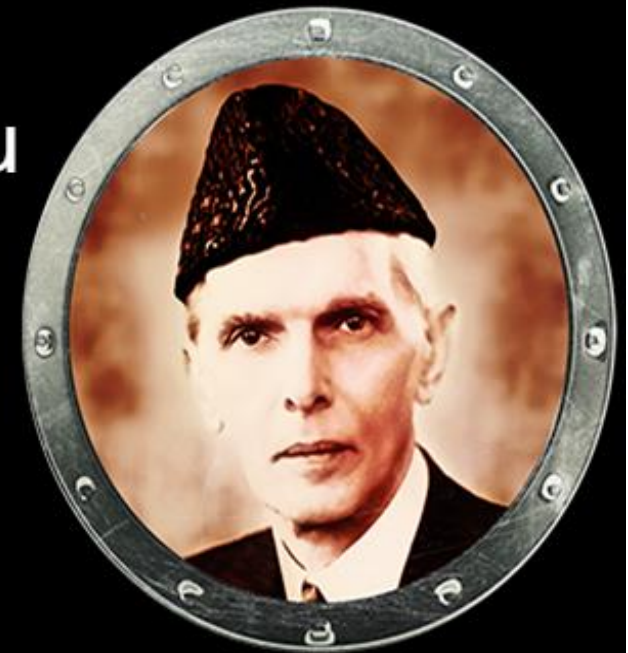
Block I

Third Year BDS

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

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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
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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

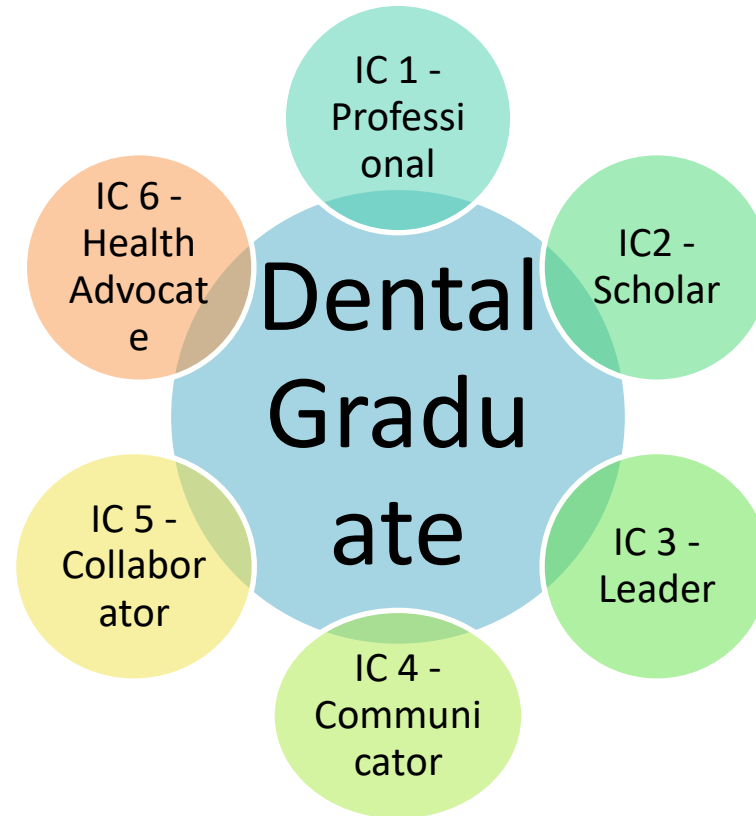
Multiple teaching strategies are used. LGIS are used to provoke thought and understanding, and to standardise the delivery of the concepts. It helps them to understand the general theme or subject matter, updated research and best evidence medical/dental information. We are teaching clinical implications 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.

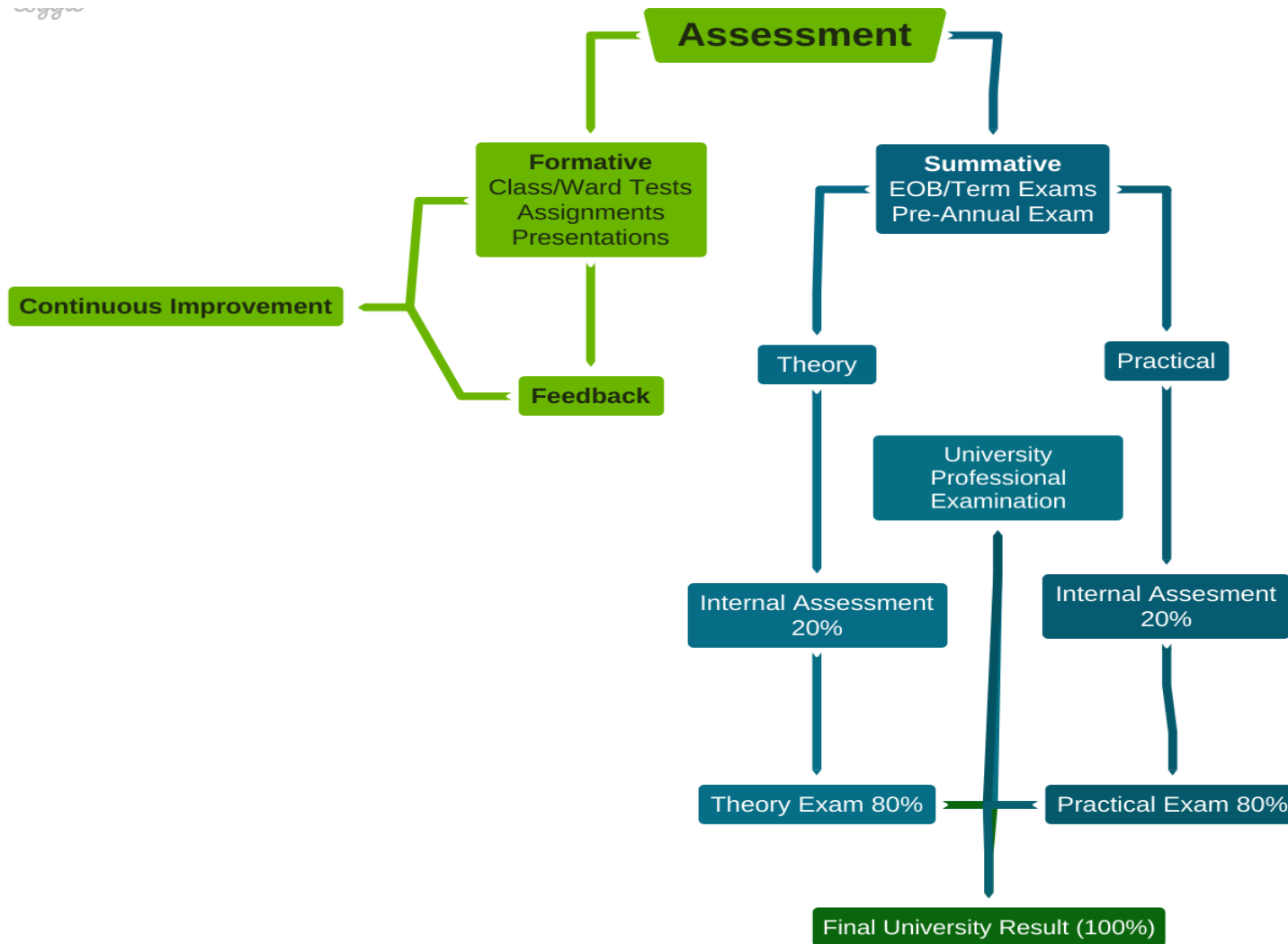
Summative assessment includes End of block exam and pre-annual examination. The pre-annual examination will be conducted according to guidelines provided by NUMS.

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 3 rd Year BDS (Session 2022 - 2023)		
Commencement of classes 10 th 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 – I

Introduction to Clinical Medicine and Dentistry



Structured Summary - Block I

Code	Y3-B1-D22
Name	Introduction To Clinical Medicine And Dentistry
Duration Of Block	12 Weeks - On campus
Dates	Jan 10 th , 2022 – April 10 th 2022
Horizontally Integrated Themes/ Topics	Oral Pathology Oral Medicine
Vertically Integrated Themes/ Topics	Research Behavioural Sciences
Prerequisite Block(s)	1 st and 2 nd year BDS



Tentative Exam Schedules¹

A continuous assessment schedule will be provided in the timetable.

End Of Block Exam (EOB) Schedule

Day/Date	Subjects (Theory)
Monday 16.05.2022	Oral Pathology
Tuesday 17.05.2022	General Surgery
Thursday 19.05.2022	General Medicine
Friday 20.05.2022	Oral Medicine
Monday 23.05.2022	Periodontology

Tentative Test Schedule Of 1st Block

Day	Date	Subjects (Theory)
Monday	07.02.2022	Oral Pathology
Monday	21.02.2022	General Surgery
Monday	07.03.2022	General Medicine
Monday	28.03.2022	Oral Medicine
Monday	11.04.2022	Periodontology

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



Learning Outcomes for Block I

1. ORAL MEDICINE

Sr. No.	Topic/ Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1	Introduction and Terminologies Used In Oral Medicine	<ul style="list-style-type: none"> Identify different clinical terms depending on clinical and radiographic examination 	<p>Knowledge</p> <ul style="list-style-type: none"> Define basic terms used in oral medicine Differentiate between different clinical terms based on clinical presentation and radiographs 	IC 2	LGIS	MCQs SAQs Viva
2	Investigations/ Assessment	<ul style="list-style-type: none"> Discuss investigations of blood, urine, endocrine function, immunological, serology & microbiology Classify different types of biopsies and their uses in dentistry 	<p>Knowledge</p> <ul style="list-style-type: none"> Identify various diagnostic modalities used in patients suffering from oral diseases and manifestations of systemic diseases in the oral cavity Describe biopsy and imaging techniques 	IC 2	LGIS	MCQs SAQs Viva
			<p>Skill</p> <ul style="list-style-type: none"> Demonstrate understanding of different types of biopsies and their uses in dentistry 	IC 2 IC 4 IC 5	Clinical rotations	OSCE
3	Principles Of Oral Medicine	<ul style="list-style-type: none"> Demonstrate proper history taking and clinical 	<p>Skill</p> <ul style="list-style-type: none"> Perform extra-oral and intra-oral examinations of the patient 	IC 1 IC 4 IC 6	Demonstration Clinical rotation	OSCE



		examination of patients with oral lesions	<ul style="list-style-type: none"> Demonstrate proper history taking and clinical examination of patients with oral lesions 			
4	Principles Of Management	<ul style="list-style-type: none"> Identify different therapeutic options, including topical and systemic modalities, their uses, and limitations in the oral cavity 	<p>Knowledge</p> <ul style="list-style-type: none"> Select appropriate topical creams, ointments &/or systemic therapy Discuss treatment indications & limitations 	IC 1 IC 6	LGIS SGD Clinical rotation	MCQs SAQs Viva
5	Oral Ulcerations	<ul style="list-style-type: none"> Identify different types of ulcerations and syndromes associated with them Discuss the management oral ulcerations in all age groups, including adolescents, after diagnosis 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss the diagnosis & management of traumatic ulceration <ul style="list-style-type: none"> RAS (all three types) Behcet's disease PFAPA syndrome MAGIC syndrome 	IC 2	LGIS	MCQs SAQs Viva
			<p>Skill</p> <ul style="list-style-type: none"> Identify the oral ulcerations in all age groups 	IC1 IC4 IC5	Clinical rotation Demonstration	OSCE
6	Diseases Of Tongue	<ul style="list-style-type: none"> Identify the management and treatment options of different abnormalities of 	<p>Knowledge</p> <ul style="list-style-type: none"> Differentiate between fissured tongue, coated tongue, hairy tongue, geographic tongue, median rhomboid glossitis 	IC 2	LGIS	MCQs SAQs



		the tongue after diagnosis	<ul style="list-style-type: none"> Discuss their causes & management of fissured tongue, coated tongue, hairy tongue, geographic tongue, and Median Rhomboid glossitis Discuss the features of macroglossia & ankyloglossia 			
			<p>Skill</p> <ul style="list-style-type: none"> Identify the management and treatment options of different abnormalities of the tongue after diagnosis 	IC1 IC4 IC5	Clinical rotation	OSCE
7	Diseases Of Lips	<ul style="list-style-type: none"> Identify the treatment options of different diseases of lips after diagnosis 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss the swellings of lips, angular cheilitis, lip fissures, lip eczema, actinic cheilitis, and allergic cheilitis 	IC 2	LGIS	MCQs SAQs Viva
			<p>Skill</p> <ul style="list-style-type: none"> Identify the treatment options of different diseases of lips after diagnosis 	IC 1 IC 4 IC 5	Clinical rotation	OSCE
8	Precancerous Lesions And Conditions	<ul style="list-style-type: none"> Discuss the characteristics of white and red lesions that may progress to cancerous lesions Differentiate between pre-cancerous lesions and conditions Discuss the management of 	<p>Knowledge</p> <ul style="list-style-type: none"> Describe the clinical diagnosis & management of leukoplakia (all types) erythroplakia, tobacco pouch keratosis, nicotine stomatitis, white sponge nevus, leukoedema and oral submucous fibrosis Discuss the characteristics of white and red lesions that may progress to cancerous lesions Differentiate between pre-cancerous lesions and conditions 	IC 2	LGIS	MCQs SAQs Viva



		pre-cancerous conditions after diagnosis	<p>Skill</p> <ul style="list-style-type: none"> Give the management of pre-cancerous conditions after diagnosis 	IC 1 IC 4 IC 5	Demonstration Clinical rotation	OSCE
9	Oral Pigmentation	<ul style="list-style-type: none"> Identify the treatment options of oral lesions presenting as pigmented lesions based on history and clinical findings, and differential diagnosis 	<p>Knowledge</p> <ul style="list-style-type: none"> Identify Amalgam tattoo, melano-acanthoma and familial & drug-induced pigmentation 	IC 2	LGIS	MCQs SAQs Viva
			<p>Skill</p> <ul style="list-style-type: none"> Identify the treatment options of oral lesions presenting as pigmented lesions based on history and clinical findings, and differential diagnosis 	IC 1 IC 4 IC 5	Demonstration Clinical rotation	OSCE
10	Salivary Gland Swellings	<ul style="list-style-type: none"> Identify different salivary gland swellings, e.g. obstructive, viral, and bacterial infections after diagnosis Differentiate between unilateral and bilateral salivary gland swellings involving any of the three major salivary glands or 	<p>Knowledge</p> <ul style="list-style-type: none"> Identify different salivary gland swellings, e.g., different obstructive, viral, bacterial infection Identify Mucocele and Ranula. Discuss the management of viral & bacterial sialadenitis, e.g., Mumps Discuss Sialosis & its causes 	IC 2	LGIS	MCQs SAQs Viva



		minor salivary glands				
11	Disturbances Of Salivary Flow	<ul style="list-style-type: none"> Discuss management of patients with dryness in the oral cavity based on aetiology and identify associated complications Assess patients presenting with dryness in the oral cavity 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss management of patients with dryness in the oral cavity based on aetiology and identify associated complications Identify their causes, order investigations, & suggest suitable treatment 	IC 2	LGIS	MCQs SAQs Viva
			<p>Skill</p> <ul style="list-style-type: none"> Assess patients presenting with dryness in the oral cavity due to Xerostomia, hypersalivation, halitosis and Sjogren's syndrome 	IC 1 IC 4 IC 5	Clinical rotation	OSCE
12	Blood-Related Disorders	<ul style="list-style-type: none"> Identify oral manifestations of blood-related disorders 	<p>Knowledge</p> <ul style="list-style-type: none"> Identify oral manifestations of anaemia, leukaemia, thrombocytopenia and myelodysplastic syndrome Identify oral manifestations of blood-related disorders 	IC 2	LGIS	MCQs SAQs Viva
13	Renal Disease	<ul style="list-style-type: none"> Discuss the management of a patient with oral symptoms having different endocrine disturbances and renal diseases 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss the chronic renal failure, dialysis and renal transplant patients, addison's disease & cushing syndrome 	IC 2	LGIS	MCQs SAQs Viva
			<p>Skill</p> <ul style="list-style-type: none"> Identify the treatment options of oral symptoms of different endocrine disturbances and renal diseases 	IC 1 IC 4 IC 5	Demonstration Clinical rotation	OSCE



PRACTICAL					
1	<ul style="list-style-type: none"> History Taking 	<u>Knowledge, Skill and Attitude</u> <ul style="list-style-type: none"> Demonstrate detailed history taking 	IC 1 to IC 6	Clinical rotation Demonstration	OSCE
2	<ul style="list-style-type: none"> Examination Of Hard And Soft Tissues Of The Oral Cavity (Tongue, Mucosa, Soft Palate, Hard Palate, Teeth, Alveolar Bone, Lingual And Pharyngeal Tonsils) 	<u>Skill</u> <ul style="list-style-type: none"> Examine hard and soft tissues of the oral cavity 	IC 1 to IC 6	Demonstration Clinical rotation	OSCE
3	<ul style="list-style-type: none"> Examination Of Cranial Nerves 	<u>Skill</u> <ul style="list-style-type: none"> Examine cranial nerves 	IC 1 IC 2 IC 4 IC 6	Demonstration Clinical rotation	OSCE
4	<ul style="list-style-type: none"> Examination Of Lymph Nodes 	<u>Skill</u> <ul style="list-style-type: none"> Examine lymph nodes of the head and neck 	IC 1 IC 2 IC 4 IC 6	Demonstration Clinical rotation	OSCE
5	<ul style="list-style-type: none"> Identify essential Drugs in medical emergencies used in A Dental OPD <ul style="list-style-type: none"> Analgesics Steroids Adrenaline Nitroglycerine Anxiolytics Antibiotics Glucagon Salbutamol 	<u>Skill</u> <ul style="list-style-type: none"> Identify drugs used in various medical emergencies along with their Indications/ contraindications/ dosage 	IC1 IC 2 IC 4 IC 5	Demonstration Clinical rotation	OSCE



2. Oral Pathology

Sr. No.	Topic/ Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1.	White Lesions (Microscopic Features)	<ul style="list-style-type: none"> Identify signs, symptoms and clinicopathological features of various white lesions 	<p>Knowledge</p> <ul style="list-style-type: none"> Differentiate between acute and chronic forms of candidiasis based on histopathological features Discuss microscopic features of leukoedema, white sponge nevus, tobacco pouch keratosis, and nicotine stomatitis Describe the pathogenesis and histopathology of actinic cheilitis and submucous fibrosis Differentiate between hairy leukoplakia, hairy tongue, and geographic tongue on a clinicopathological basis Compare reticular and erosive types of lichen planus Identify the risk factors responsible for causing different forms of leukoplakia along with their clinical and histopathological features Identify the microscopic features of slides 	IC 2	LGIS	MCQ SEQ Viva



			<p>Skills</p> <ul style="list-style-type: none"> • Prepare H & E slides • Demonstrate the use microscopes • Illustrate the salient features on the workbook with H & E pencils 	IC 1 IC 4 IC 5	Laboratory Demonstration	OSCE
			<p>Attitude</p> <ul style="list-style-type: none"> • Follow the proper dress code of a medical laboratory • Obtain consent before starting the procedure • Maintain his/her workstation according to the prescribed standard operating protocols • Report any damage to lab equipment immediately 	IC 1 IC 3 IC 4 IC 5	Laboratory Demonstration	OSCE
2.	Epithelial Pathology	<ul style="list-style-type: none"> • Differentiate between various epithelial pathologies based on clinicopathological features 	<p>Knowledge</p> <ul style="list-style-type: none"> • Differentiate between speckled leukoplakia and proliferative verrucous leukoplakia • Differentiate histopathological features of mild, moderate, and severe dysplasia, carcinoma in situ • Discuss red lesions, their pathogenesis and clinical presentation • Describe the risk factors along with the mutagenic and carcinogenic ingredients • Describe the clinical staging and histopathological grading of oral squamous cell carcinoma 	IC 2	LGIS	MCQ SEQ Viva

			<ul style="list-style-type: none"> • Differentiate between different variants of squamous cell carcinoma, including verrucous, adenosquamous, basaloid, adenoid squamous cell, nasopharyngeal carcinoma • Describe benign epithelial lesions, including squamous papilloma and keratoacanthoma • Discuss the ABCD of melanoma • Differentially diagnose a pathology using knowledge of histopathological features 			
			<p>Skill</p> <ul style="list-style-type: none"> • Prepare H& E slides • Demonstrate the use of microscope • Identify the microscopic features of slides • Illustrate the salient features on the workbook with H & E pencils 	IC 1 IC 4 IC 5	Laboratory Demonstration	OSCE
			<p>Attitude</p> <ul style="list-style-type: none"> • Follow the proper dress code of a medical laboratory • Obtain 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 immediately 	IC 1 IC 3 IC 4 IC 5	Laboratory Demonstration	OSCE
3.	Haematological Malignancies	<ul style="list-style-type: none"> • Distinguish between haematological malignancies and 	<p>Knowledge</p> <ul style="list-style-type: none"> • Distinguish Hodgkin's and non-Hodgkin's lymphoma based on oral and histopathological features 	IC 2	LGIS	MCQ SEQ VIVA

		recall treatment modalities with their clinicopathological picture	<ul style="list-style-type: none"> • Discuss the diagnostic criteria of Burkitt's lymphoma, multiple myeloma, plasmacytoma and Langerhans cell histiocytosis based on histopathological features 			
			<p>Skills</p> <ul style="list-style-type: none"> • Prepare H& E slides • Demonstrate correct use of microscopes • Identify the microscopic features of slides • Illustrate the salient features on the workbook with H & E pencils 	IC 1 IC 4 IC 5	Laboratory Demonstration	OSCE
			<p>Attitude</p> <ul style="list-style-type: none"> • Follow the proper dress code of a medical laboratory • Obtain 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 immediately 	IC 1 IC 3 IC 4 IC 5	Laboratory Demonstration	OSCE
4.	Cystic Lesions	<ul style="list-style-type: none"> • Discuss and distinguish various cysts based on their origin, nature, expansion and radiographic presentation 	<p>Knowledge</p> <ul style="list-style-type: none"> • Classify odontogenic and non-odontogenic cysts • Distinguish following odontogenic and non-odontogenic cysts based on origin, nature, expansion, clinical presentation, histopathology, and radiographic features of following cysts: • Periapical cysts 	IC 2	LGIS	MCQ SAQ VIVA

			<ul style="list-style-type: none"> • Dentigerous cysts • Eruption cysts • Paradental cysts • Lateral periodontal cysts • Gingival cysts of adult and newborn • Glandular odontogenic cyst • Nasopalatine duct cysts • Nasolabial cysts • Globulomaxillary cysts • Median palatal cysts • Median mandibular cysts • Palatal cyst of newborn • Dermoid and epidermoid cysts (only microscopic features) • Discuss the differential diagnosis of cysts on the basis on histopathological features 			
			<p>Skill</p> <ul style="list-style-type: none"> • Prepare H& E slides • Practice the use of microscopes • Identify the microscopic features of slides • Illustrate the salient features on the workbook with H & E pencils 	IC 1 IC 4 IC 5	Demonstration	OSCE
			<p>Attitude</p> <ul style="list-style-type: none"> • Follow the proper dress code of a medical laboratory • Obtain consent before starting the procedure and thank in the end 	IC 1 IC 3 IC 4 IC 5	Demonstration	OSCE

			<ul style="list-style-type: none"> Maintain his/her workstation according to the prescribed SOPs report any damage to lab equipment immediately 			
5.	Odontogenic Tumours	<ul style="list-style-type: none"> Discuss the diagnostic criteria of odontogenic tumours based on clinical, radiographic, and microscopic features 	<p>Knowledge</p> <ul style="list-style-type: none"> Differentiate between odontogenic tumours of epithelial origin using clinical, radiographic, and histopathologic correlation, tumours including ameloblastoma, keratocyst odontogenic tumour, calcifying epithelial odontogenic tumour, adenomatoid odontogenic tumour, squamous odontogenic tumour Discuss the diagnostic criteria of odontogenic tumours of odontogenic origin based on clinical and microscopic features of tumours, including Odontogenic fibroma, odontogenic myxoma, cementoblastoma, ameloblastic fibroma and fibrodontoma odontogenic carcinoma, primary intra osseous carcinoma Discuss the differential diagnosis of carcinomas using the histopathological features 	IC 2	LGIS	MCQ SEQ VIVA



			<p>Skills</p> <ul style="list-style-type: none"> • Prepare H & E slides • Practice the use of microscopes • Identify the microscopic features of slides • Illustrate the salient features on the workbook with H & E pencils 	IC 1 IC 4 IC 5	Laboratory Demonstration	OSCE
			<p>Attitude</p> <ul style="list-style-type: none"> • Follow the proper dress code of a medical laboratory • Take consent before starting the procedure • Maintain his/her workstation according to the prescribed SOPs • Report any damage to lab equipment immediately 	IC 1 IC 4 IC 5	Laboratory Demonstration	OSCE
6.	<p>Salivary Gland Pathology</p> <p>A) Reactive Lesions (Mucocele, Mucous Retention Cyst, Necrotizing Sialometaplasia)</p> <p>B) Immune-Mediated Diseases (Sjogren Syndrome)</p>	<ul style="list-style-type: none"> • Classify salivary gland based on pathology and diagnose the lesions by correlating clinical and histological features 	<p>Knowledge</p> <ul style="list-style-type: none"> • Differentiate between reactive lesions, immune-mediated diseases of salivary glands, pathology by correlation of their clinicopathological features • Distinguish benign malignant tumours of salivary glands based and on clinical presentation and histopathological features 	IC 2	LGIS	MCQ SEQ VIVA
			<p>Skills</p> <ul style="list-style-type: none"> • Prepare H& E slides • Practice the use of microscopes 	IC 1 IC 4 IC 5	Laboratory Demonstration	OSCE



<p>C) Benign Tumours (Pleomorphic Adenoma, Warthin Tumour, Monomorphic Adenoma)</p> <p>D) Malignant Tumours (Mucoepidermoid Carcinoma, Adenoid Cystic Carcinoma, Acinic Cell Carcinoma, Polymorphous Low-Grade Adenocarcinoma)</p>	<ul style="list-style-type: none"> Identify the microscopic features of slides Illustrate the salient features on the workbook with H & E pencils 			
	<p>Attitude</p> <ul style="list-style-type: none"> Follow the proper dress code of a medical laboratory Obtain 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 	<p>IC 1 IC 3 IC 4 IC 5</p>	<p>Laboratory Demonstration</p>	<p>OSCE</p>

3. GENERAL MEDICINE

Sr. No.	Topic	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
Respiratory System						
1.	Community Acquired Pneumonia (CAP)	<ul style="list-style-type: none"> Enlist common organisms causing cases of pneumonia Explain epidemiology of CAP Discuss the common presenting complaints of pneumonia Classify different types of pneumonia 	<u>Knowledge</u> <ul style="list-style-type: none"> Recall the risk factors for CAP Enumerate familiar with common organisms & aetiology of pneumonia Discuss the clinical findings in cases of pneumonia 	IC 2 IC 4	LGIS CBL	MCQs SEQs VIVA
2.	Community-Acquired Pneumonia- II	<ul style="list-style-type: none"> Calculate CURB-65 Score Discuss investigations of cases of pneumonia Plan the management and complications of cases of pneumonia Describe the prevention measures and vaccination 	<u>Knowledge</u> <ul style="list-style-type: none"> Demonstrate calculation of CURB-65 score Recall prevention and vaccination 	IC 2	LGIS	MCQs SEQs
			<u>Skill</u> <ul style="list-style-type: none"> Investigate a case of pneumonia Manage pneumonia and its complications Demonstrate radiographic interpretation 	IC 1 IC 4 IC 5	Ward rotation demonstration	OSPE Long Cases
3	Bronchial Asthma- I	<ul style="list-style-type: none"> Describe the causes of bronchial asthma 	<u>Knowledge</u> <ul style="list-style-type: none"> Illustrate causes and epidemiology of bronchial asthma 	IC 2	LGIS CBL	MCQs SEQs



		<p>along with exacerbating factors</p> <ul style="list-style-type: none"> • Discuss the clinical findings in bronchial asthma 	<ul style="list-style-type: none"> • Recall clinical features of bronchial asthma 			
4	Bronchial Asthma- II	<ul style="list-style-type: none"> • Plan the management for bronchial asthma 	<p><u>Skill</u></p> <ul style="list-style-type: none"> • Measure PEFR • Demonstrate knowledge of Preventions for bronchial asthma • Demonstrate the management and complications of bronchial asthma (pneumothorax) 	IC 1 IC 4 IC 5	Ward rotation Demonstration	Short Cases
5	Chronic Obstructive Pulmonary Disease (COPD)- I	<ul style="list-style-type: none"> • Define COPD • describe COPD epidemiology • discuss the risk factors for COPD • enumerate the occupations related to COPD 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Identify risk factors for COPD • Categorize the risk factors for COPD 	IC 2	LGIS CBL	MCQs SEQs
6	COPD-II	<ul style="list-style-type: none"> • Discuss the clinical findings of COPD • Discuss the complications of COPD • Plan the management of COPD • Discuss the prevention measure and Vaccination 	<p><u>Skill</u></p> <ul style="list-style-type: none"> • Educate the patient regarding preventions for COPD • Manage all the complications in COPD exacerbations (pneumothorax) 	IC 1 IC 4 IC 5	Ward rotation Demonstration	Short Cases/ Long Cases

	Tuberculosis-I	<ul style="list-style-type: none"> Discuss pathogenesis and clinical presentations of Pulmonary and Extra Pulmonary TB 	Knowledge <ul style="list-style-type: none"> Discuss the characteristics of Primary Tuberculosis and Latent Tuberculosis Discuss the risk factors for Tuberculosis 	IC 2	LGIS SGD CBL	MCQs SEQs
8	Tuberculosis II	<ul style="list-style-type: none"> Discuss diagnosis of Pulmonary and Extra Pulmonary Tuberculosis, Anti-Tuberculosis Drugs Recall Drugs Regimes of Tuberculosis 	Skill <ul style="list-style-type: none"> Interpret Diagnostic Tests for Pulmonary TB Demonstrate familiarity with DOTS and BCG Vaccination 	IC 1 IC 4 IC 5	Ward rotation demonstration	Short case Long cases
Cardiology						
9	Chest Pain I	<ul style="list-style-type: none"> Discuss common causes of chest pain Differentiate between cardiac and non-cardiac chest pain Formulate a differential diagnosis of chest pain 	Knowledge <ul style="list-style-type: none"> Enlist common causes of chest pain Discuss Emergency workup for chest pain 	IC 2	LGIS SGD	MCQs SEQs Short cases
10	Chest Pain- II	<ul style="list-style-type: none"> Discuss common Investigations for chest pain, significant ECG finding in chest pain and management of chest pain 	Skill <ul style="list-style-type: none"> Demonstrate basic interpretation of ECG 	IC 1 IC 4 IC 5	Ward rotation demonstration	Short case Long case



11	Ischemic Heart Disease-I	<ul style="list-style-type: none"> Discuss the epidemiology & clinical presentation of ischemic heart disease 	Knowledge <ul style="list-style-type: none"> Discuss the pathogenesis of ischemic heart diseases Recall modifiable and non-modifiable risk factors for ischemic heart disease 	IC 2	LGIS SGD	MCQs SEQs
12	Ischemic Heart Disease-II	<ul style="list-style-type: none"> Explain stable/ Unstable angina and its management Discuss acute myocardial infarction and its management Elaborate thrombolysis and PCI/ complications 	Skill <ul style="list-style-type: none"> Plan the management of acute MI Investigate a patient with cardiac emergency and complications 	IC 1 IC 4 IC 5	Bedside teaching Demonstration	Ward test Short cases
13	Hypertension I	<ul style="list-style-type: none"> Discuss hypertension epidemiology, Primary and secondary hypertension and stages of hypertension/ Clinical features 	Knowledge <ul style="list-style-type: none"> Differentiate primary with secondary HTN Plan the management to rule out secondary HTN 	IC 2	LGIS	MCQs SEQs Long case
14	Hypertension II	<ul style="list-style-type: none"> Plan a workup for primary and secondary Hypertension Discuss treatment options and 	Skill <ul style="list-style-type: none"> Demonstration examination of blood pressures Demonstrate the ability to deal with hypertensive emergency and essential medications 	IC 1 IC 4 IC 5	Ward rotation Demonstration	Short cases



		<p>treatment targets of hypertension</p> <ul style="list-style-type: none"> • Discuss hypertensive urgency and emergency 				
15	Rheumatic Fever I	<ul style="list-style-type: none"> • Explain pathogenesis and clinical features of Rheumatic fever 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Recall investigations for Rheumatic fever • Identify the Lab findings in a case of rheumatic fever • Counsel regarding supportive management and prevention against Rheumatic Fever 	IC2	LGIS	MCQs SEQs
			<p><u>Skill</u></p> <ul style="list-style-type: none"> • Apply Duke's Criteria for Rheumatic fever 	IC 1 IC 4 IC 5	Ward rotation Demonstration	Long case Short case
16	Rheumatic Fever II	<ul style="list-style-type: none"> • Observe treatment and Supportive care for Acute and chronic Rheumatic fever 	<p><u>Skill</u></p> <ul style="list-style-type: none"> • Take history regarding Rheumatic heart disease • Maintain his/her clinical instruments according to the prescribed SOPs • Demonstrate proper introduction and consent before talking and touching the patient 	IC 1 IC 3 IC 4 IC 5	Ward rotation Demonstration	Short case Long case
17	Heart Failure I	<ul style="list-style-type: none"> • Discuss pathophysiology of heart failure 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Differentiate Types of Heart Failure • Recall Col-Pulmonale 	IC 2	LGIS CBL	MCQs SEQs



		<ul style="list-style-type: none"> Discuss Causes of Heart failure (Starling Law) Discuss Clinical findings and presentations of heart failure Interpret investigations for heart failure 	<p>Skill</p> <ul style="list-style-type: none"> Interpret values of BNP and Prognostic markers of heart failure 	IC 1 IC 4 IC 5	Ward rotation Demonstration	Short Cases/ Long Cases
18	Heart Failure II	<ul style="list-style-type: none"> Plan management of heart failure Discuss complications of heart failure 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss awareness about Heart transplantation/ Left Ventricular assisted devices 	IC 2	LGIS CBL	MCQs SEQs
			<p>Skill</p> <ul style="list-style-type: none"> Plan management of Acute LVF 	IC 1 IC 4 IC 5	Ward rotation Demonstration	Long Cases Short cases
19	Infective Endocarditis	<ul style="list-style-type: none"> Discuss Endocarditis Pathogenesis and Types of Endocarditis and Management and empirical treatment 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss the Microbiological spectrum of Bacterial Endocarditis Explain Cardiac and extra-cardiac manifestations of Endocarditis 	IC 2	LGIS CBL	MCQs SEQs Viva
			<p>Skill</p> <ul style="list-style-type: none"> Plan the management for endocarditis in high-risk patients 	IC 1 IC 4 IC 5	Ward rotation Demonstration	Long Cases
Haematology						
20	Anaemia: Types Classification Presentations	<ul style="list-style-type: none"> Classify anaemias based on laboratory investigations 	<p>Knowledge</p> <ul style="list-style-type: none"> Describe Iron deficiency anaemia with its investigations and management 	IC 2	LGIS	MCQs SEQs VIVA



	And Management	<ul style="list-style-type: none"> Discuss management of Macrocytic / Megaloblastic Anaemia, Haemolytic Anaemia 	<p>Skill</p> <ul style="list-style-type: none"> Interpret reports of blood complete picture <p>Plan the management of a case of anaemia</p>	IC1 IC 4 IC 5	Ward rotation Demonstration	Short Cases Long Cases
21	Clotting Disorders: Haemophilia, Von –Willibrand Disease	<ul style="list-style-type: none"> Describe various types of coagulation disorders: <ul style="list-style-type: none"> Haemophilia A, B Von-Willebrand Disease Acquired causes of coagulation disorders The severity of haemophilia and management of haemophilia Complications and morbidity of haemophilia Von-Willebrand disease and its management 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss the characteristics of clotting disorders 	IC 2	LGIS SGD CBL	MCOs SEQs Viva
			<p>Skill</p> <ul style="list-style-type: none"> Manage a case of clotting disorder 	IC 1 IC 4 IC 5	Demonstration Bedside teaching	Short Cases Long Cases
			<p>Attitude</p> <ul style="list-style-type: none"> Demonstrate proper history taking regarding clotting disorders Maintain his/her clinical instruments according to the prescribed SOPs Exhibit proper introduction and consent before talking to and touching the patients 	IC 1 IC 3 IC 4 IC 5	Demonstration Bedside teaching	Short Cases Long Cases
22	Bleeding Disorders	<ul style="list-style-type: none"> Discuss platelets disorders Describe the clinical presentation of ITP 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss the investigations for idiopathic thrombocytopenic purpura (ITP) 	IC 2	LGIS CBL	MCOs SEQs VIVA



		<ul style="list-style-type: none"> Discuss disseminated Intravascular Coagulation (DIC) and its common causes, Clinical scenarios for DIC Interpret D-dimers and further investigation for DIC 				
			Skill Interpret D-dimers	IC1 IC 4 IC 5	Ward rotation demonstration	Long Cases Short cases
Nephrology						
23	Nephrotic Syndrome	<ul style="list-style-type: none"> Discuss Clinical presentations of Nephrotic Syndrome Common types of Nephrotic Syndromes and their Management Investigations for nephrotic syndrome Management of Nephrotic Syndrome 	Knowledge <ul style="list-style-type: none"> Discuss the clinical presentation of glomerular nephritis presenting with nephrotic syndrome Recall basic investigations for nephrotic syndrome 	IC 2	LGIS SGD	MCQs SEQs Viva
24	Acute And Chronic Renal Failure	<ul style="list-style-type: none"> Discuss Acute kidney injury Discuss Classification of AKI Describe Acute Tubular Necrosis and Interstitial nephritis 	Knowledge <ul style="list-style-type: none"> Recall indications of Renal replacement therapy & Haemodialysis Illustrate Clinical features of CKD Describe investigations and management 	IC 2	LGIS SGD	MCQs SEQs



		<ul style="list-style-type: none"> • Explain Acute kidney injury management, CKD and Staging • Identify the common causes of CKD • Explain renal replacement therapy & Haemodialysis 	<p><u>Attitude</u></p> <ul style="list-style-type: none"> • Follow the proper dress code of a hospital • Maintain his/her clinical instruments according to the prescribed SOPs. • Demonstrate proper introduction and consent before talking to and touching the patients 	IC 1 IC 3 IC 4 IC 5	Bedside teaching Demonstration	Long cases Short cases
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4. 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:				
Principles Of Surgery						
1.	Body's Response To Trauma And Stress	<ul style="list-style-type: none"> Apply basic principles of surgery related to trauma and stress in dental practice 	Knowledge <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> Mediators of the metabolic response to injury Physiological and biochemical changes that occur during injury and recovery Changes in body composition that accompany surgical injury Avoidable factors that compound the metabolic response to injury 	IC 2	LGIS SGD	MCQs, SEQs Viva Voce
			Skill <ul style="list-style-type: none"> Demonstrate avoidable factors that compound the metabolic response to injury 			
2.	Shock, Pathology, Types, And Management	<ul style="list-style-type: none"> Apply basic principles of surgery related to shock in dental practice 	Knowledge <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> The pathophysiology of shock and ischaemia–reperfusion injury The different patterns of shock and the principles 	IC 2	LGIS SGD	MCQs, SEQs Viva Voce



			<ul style="list-style-type: none"> • and priorities of resuscitation • Appropriate monitoring and end points of resuscitation 			
			<p>Skill</p> <ul style="list-style-type: none"> • Identify the use of blood and blood products, the benefits and risks of blood transfusion 	IC 1 IC 4 IC 5	Ward rotation Demonstration	Short case
3	Wound Healing & Its Complications	<ul style="list-style-type: none"> • Apply the knowledge of wound healing and its complications in dental practice 	<p>Knowledge</p> <ul style="list-style-type: none"> • Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> • Normal healing and how it can be adversely affected • Manage wounds of different types, of different structures and at different sites • Discuss aspects of disordered healing that lead to chronic wounds 	IC 2	LGIS SGD	MCQs SAQs VIVA
			<p>Skill</p> <ul style="list-style-type: none"> • Identify the variety of scars and their treatment 	IC 1 IC 4 IC 5	Bedside Demonstration Ward rotation	Short case
4	Types Of Wound Closure	<ul style="list-style-type: none"> • Apply the knowledge of wound closure in dental practice 	<p>Knowledge</p> <ul style="list-style-type: none"> • Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> • The principles of skin and abdominal incisions • The principles of wound closure • The principles of drain usage 	IC 2	LGIS SGD	MCQs SAQs viva



			<ul style="list-style-type: none"> The factors that determine whether a wound will become infected 			
5	Wound Infection / Surgical Site Infection	<ul style="list-style-type: none"> Apply the knowledge of wound infection in dental practice 	<p>Knowledge</p> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> The classification of sources of infection and their severity The indications for and choice of prophylactic antibiotics The characteristics of the common surgical pathogens and their sensitivities The spectrum of commonly used antibiotics in surgery and the principles of therapy The misuse of antibiotic therapy with the risk of resistance 	IC 2	LGIS	MCQs SAQs Viva
6.	Cross Infection Control In The Clinical Environment	<ul style="list-style-type: none"> Apply basic principles of cross-infection control in the clinical environment in dental practice 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss basic precautions to take to avoid surgically relevant hospital-acquired infections 	IC 2	LGIS	MCQs SAQs Viva
7.	Blood Transfusion In Surgical Patients	<ul style="list-style-type: none"> Apply the knowledge of basic principles of Blood transfusion 	<p>Knowledge</p> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: 	IC 2	LGIS	MCQs SAQs Viva



		in surgical patients in dental practice	<ul style="list-style-type: none"> The concept of 'Transfusion Trigger' Use of blood and blood products, the benefits, and risks of blood transfusion 			
8	Colloids And Crystalloids Used In Surgical Patients	<ul style="list-style-type: none"> Apply the knowledge of basic principles of Blood transfusion in surgical patients in dental practice 	<p>Knowledge</p> <ul style="list-style-type: none"> Discuss fluid and electrolyte requirements in the pre, peri and postoperative patient 	IC 2	LGIS	MCQs SAQs Viva
9	Common Fluid & Electrolyte Disorders In Surgical Patients	<ul style="list-style-type: none"> Apply the knowledge of common fluid & electrolyte disorders in dental practice 	<p>Knowledge</p> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> Leading to hypo and hyper natremia in a surgical patient, their underlying pathophysiology and management Leading to hypo and hyperkalaemia in a surgical patient, their underlying pathophysiology and management 	IC 2	LGIS	MCQs SAQs Viva
10	Common Acid-Base Disorders In Surgical Patients	<ul style="list-style-type: none"> Apply the knowledge of common acid-base disorders in dental practice 	<p>Knowledge</p> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application: <ul style="list-style-type: none"> Definition, types and pathophysiology of acidosis and alkalosis 	IC 2	LGIS	MCQs SAQs Viva



			<ul style="list-style-type: none"> Leading to acidosis and alkalosis in a surgical patient, their underlying pathophysiology and management 			
11	Nutritional Management Of Surgical Patients	<ul style="list-style-type: none"> Apply basic principles of nutritional management of the surgical patient in dental practice 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application of: <ul style="list-style-type: none"> Causes and consequences of malnutrition in the surgical patient Detecting malnutrition in a patient Nutritional requirements of surgical patients in the pre, peri and post-operative period Nutritional consequences of intestinal resection Different methods of providing nutritional support to patients and their complications 	IC 2	LGIS	MCQs SAQs Viva
12	Risk Assessment In Surgery	<ul style="list-style-type: none"> Apply basic principles of pre-operative preparation of patients in dental practice 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> Demonstrate basic comprehension of the following with emphasis on clinical application of: <ul style="list-style-type: none"> The concept of risk versus benefit in the surgical care of patients Standard tools available for risk stratification and allocation in surgical patients 	IC 1 IC 2 IC 4	LGIS	MCQs SAQs Viva Voce
13	Preoperative Preparation Of	<ul style="list-style-type: none"> Apply basic principles of pre-operative 	<u>Knowledge</u>	IC 2	LGIS	MCQs SAQs Viva Voce



	Surgical Patients	preparation of patients in dental practice	<ul style="list-style-type: none"> • Demonstrate basic comprehension of the following with emphasis on clinical application of: <ul style="list-style-type: none"> • Surgical, medical, and anaesthetic aspects of patient assessment • Optimising the patient's condition before surgery • Identifying and optimising the patient at higher risk • Taking consent • Organising an operating list 			
14	Postoperative Care Of Surgical Patients	<ul style="list-style-type: none"> • Apply basic principles of post-operative care of patients in dental practice 	<p>Knowledge</p> <ul style="list-style-type: none"> • Demonstrate basic comprehension of the following with emphasis on clinical application of: <ul style="list-style-type: none"> • The system of postoperative care • Recognising and treating common post-operative complications in the immediate postoperative period • Principles of enhanced recovery • System for discharging patients 	IC 2	LGIS	MCQs SAQs Viva
15	Principles Of Minimal Access Surgery Application Of Invasive And Non-Invasive Diagnostic Modalities In	<ul style="list-style-type: none"> • Discuss principles of laparoscopic and robotic surgery with a focus on its indications, advantages, and disadvantages 	<p>Knowledge</p> <ul style="list-style-type: none"> • Discuss the principles of laparoscopic and robotic surgery • Describe the advantages and disadvantages of such surgery • Explain the safety issues and indications for laparoscopic and robotic surgery 	IC 2	LGIS	MCQs SAQs Viva



Surgical Practice					
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PERIODONTOLOGY						
Sr. No	Theme/ Topics	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1.	Anatomy And Physiology Of Periodontium	<ul style="list-style-type: none"> Outline anatomic features and physiology of tooth structures Discuss nerve and blood supply of each tooth 	Knowledge <ul style="list-style-type: none"> Identify diverse anatomical features of the periodontium Identify microscopic features of the periodontium Describe the physiology of saliva and the role of gingival crevicular fluid Identify each tooth's blood supply, nerve supply, and lymphatic drainage of the periodontium 	IC 2	LGIS SGD	SAQs MCQs VIVA
2.	Classification Of Periodontal Diseases	<ul style="list-style-type: none"> Discuss gingival and periodontal diseases 	Knowledge <ul style="list-style-type: none"> Define gingival diseases Define periodontal diseases 	IC 2	LGIS SGD	SAQs MCQs VIVA



			<ul style="list-style-type: none"> • Tabulate gingival diseases • Tabulate periodontal diseases 			
3.	Epidemiology Of Periodontal Disease	Discuss instruments required for index calculation	<p>Knowledge</p> <ul style="list-style-type: none"> • Define indices, including: • Plaque index • Debris index • Gingival bleeding index • Sulcus index • Periodontal index • Community periodontal index • Periodontal destructive index • Quote incidence and prevalence of periodontal diseases in the community and worldwide 	IC 2	LGIS	SAQs MCQs VIVA
			<p>Skill</p> <ul style="list-style-type: none"> • Recognize epidemiological tools to assess periodontal conditions. • Select appropriate instruments for calculating indices 	IC 4 IC 5	Demonstration	OSCE
4.	Periodontal Microbiology	<ul style="list-style-type: none"> • Discuss the various bacteria involved in periodontal pathogenesis 	<p>Knowledge</p> <ul style="list-style-type: none"> • Describe the nature, composition and physiology of plaque biofilm and its relationship to inflammatory periodontal diseases 	IC 2	LGIS SGD	SEQs MCQs VIVA



			<ul style="list-style-type: none"> • Interpret the role of bacteria in the pathogenesis of periodontal tissue destruction • Identify various colonies of bacteria responsible for periodontal tissue destruction • Distinguish between various coloured complexes of periodontal pathogens 			
5.	Periodontal Pathogenesis – Gingival Inflammation	<ul style="list-style-type: none"> • Discuss different types of gingival pathologies along with their treatment modalities 	<u>Knowledge</u> <ul style="list-style-type: none"> • Describe gingival inflammation • Describe histopathological features associated with gingival inflammation 	IC 2	LGIS SGD	SAQs MCQs VIVA
			<u>Skill</u> <ul style="list-style-type: none"> • Calculate clinical attachment loss • Demonstrate gingival and periodontal probing • Determine pathological signs of periodontal tissues • Interpret normal and pathological structures found on dental radiographs 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	OSCE
7.	Smoking And Periodontal Disease	<ul style="list-style-type: none"> • Discuss the effects of smoking on periodontium 	<u>Knowledge</u> <ul style="list-style-type: none"> • Describe effects of smoking on the aetiology and pathogenesis of the periodontal disease 	IC 2	LGIS SDL	SAQs MCQs VIVA



			<ul style="list-style-type: none"> • Explain the effect of smoking on periodontal therapies 			
8.	Oral Malodour/ Halitosis	<ul style="list-style-type: none"> • Discuss halitosis and its treatment options 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Differentiate between various types of halitosis • Discuss the investigation methods with treatment options 	IC 2	LGIS SGD	MCQ SAQ VIVA



5. ORAL & MAXILLOFACIAL SURGERY

S. No	Topics/ Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tool
		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 and significance of this field in the health care system 	<p>Knowledge</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	Formative: Ward test/Students' Presentations
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>Knowledge</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	Formative: Ward test/Students' Presentations
			<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 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	Formative Ward Test



			<ul style="list-style-type: none"> Document the patient history and record sheet 			
			<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 them 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 Describe various disinfection means and methods Define Clean and sterile techniques and their application in oral surgery Describe the functions of Central Sterile Services Department(CSSD) 	IC 2	LGIS	Formative: Ward test/Students' Presentations
4	Cross Infection Control	<ul style="list-style-type: none"> Describe infectious pathogens (blood-borne), their transmission, 	<p>Skills</p> <ul style="list-style-type: none"> Follow the Protocols for needle stick injury 	IC 1 IC 4 IC 5	Clinical Rotation Demonstration	Formative Ward Test

		<p>prevention, and exposure</p> <ul style="list-style-type: none"> • Apply universal precautions • Follow Protocols for Hepatitis B exposure and vaccine 	<ul style="list-style-type: none"> • Implement universal precautions and hand hygiene • Recall and apply Covid-19 SOP and protocols • Manage sharps, needle handling (scoop technique) & their waste 			
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><u>Knowledge</u></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	Formative: Ward test/Students' Presentations
			<p><u>Skill</u></p> <ul style="list-style-type: none"> • Describe various anaesthetic techniques, local anaesthesia, general anaesthesia, sedation (nitrous oxide) and their application in OMFS 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	Formative Ward Test
6.	Local Anaesthesia	<ul style="list-style-type: none"> • Describe types of 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 	<p><u>Knowledge</u></p> <ul style="list-style-type: none"> • Recall the composition of LA cartridge which is used in the dental office • Describe recommended dosages of various types of LA 	IC 2	LGIS	Formative: Ward test/Students' Presentations



		their effects in local anaesthesia				
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 	IC 2	LGIS	Formative: Ward test/Students' Presentations
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 Compare various techniques of inferior alveolar nerve block 	<p>Skills</p> <ul style="list-style-type: none"> Perform maxillary anaesthetic injection Perform mandibular anaesthetic injection (Mental nerve block, IAN nerve block, long buccal nerve block, infiltration) Perform periodontal ligament & Intra-osseous anaesthetic injection technique 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	Formative Ward Test
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	Formative: Ward test/Students' Presentations
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 	<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 	IC 1 IC 4 IC 5	Clinical rotation Demonstration	Formative Ward Test



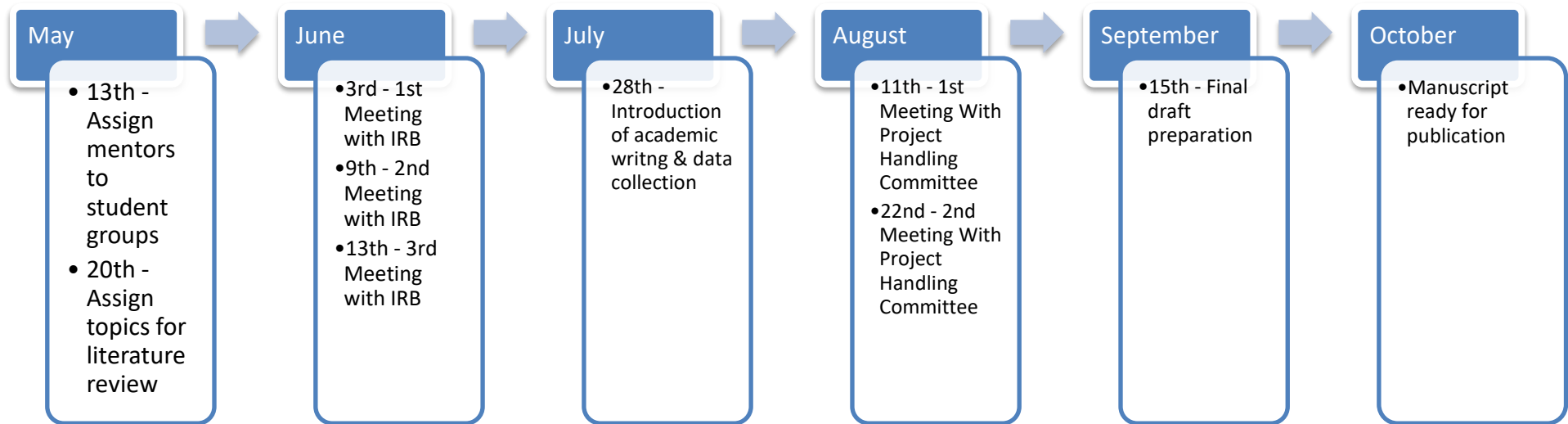
		anaesthetized to extract individual teeth	<ul style="list-style-type: none"> Interpret relevant radiographic investigations 			
11.	Exodontia Armamentarium & Techniques	<ul style="list-style-type: none"> Identify armamentarium for simple exodontia Perform Chair positioning Enlist steps of tooth extraction Explain Mechanical principles involved in tooth extraction Describe Post-operative instruction for exodontia 	<p>Knowledge</p> <ul style="list-style-type: none"> Explain mechanical principles of elevators and forceps 	IC 2	LGIS	Formative: Ward test/Students' Presentations
			<p>Skills</p> <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



VERTICALLY INTEGRATED MODULES

Research - Student Research Interest Group

Activities Schedule:





6. BEHAVIOURAL SCIENCES

S. No	Content/ Topic	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment
		At the end of this block, students will be able to:				
1.	Problem Solving And Decision Making	<ul style="list-style-type: none"> Analyze critical situations/ challenges in clinical practice to solve clinical problems 	<u>Knowledge</u> <ul style="list-style-type: none"> Discuss problem-solving and decision-making skills in clinical practice 	IC 2	LGIS	MCQ/ SEQ
2.	Psychosocial Aspects Of Ageing	<ul style="list-style-type: none"> Identify the significance of geriatric care in clinical setups 	<u>Knowledge</u> <ul style="list-style-type: none"> Discuss psychosocial care of elderly Counsel the elderly, showing empathy and practical communication skills 	IC 2	LGIS	MCQ/ SEQ
3.	Stress And Its Management	<ul style="list-style-type: none"> Identify sources of stress and its management towards patients, self and other staff members 	<u>Knowledge</u> <ul style="list-style-type: none"> Define stress Differentiate various kinds of stressors Discuss stress management/ coping strategies Analyze common psychological defence mechanisms employed by human beings to cope with loss, grief, bad news, death, physical and psychological trauma, and behaviours of complex patients 	IC 2	LGIS	MCQ/ SEQ
4.	Non-Pharmacological Interventions In Clinical Practice & Communication Skills	<ul style="list-style-type: none"> Demonstrate basic skills of communication for effective patient care and counselling 	<u>Knowledge</u> <ul style="list-style-type: none"> Differentiate between Interpersonal, Impersonal and personal communication skills (verbal and non-verbal) 	IC 2	LGIS	MCQ/ SEQ



	Counselling	<ul style="list-style-type: none"> • Discuss the ethical and bio- psychosocial aspects of clinical practice • Describe the process of dealing the patients in critical situations 	Knowledge <ul style="list-style-type: none"> • Discuss the role of counselling in clinical practice (purposes, goals, types) • Discuss different types of counselling in the clinical setting • Analyse Ethics in clinical practice (Dos and Don'ts in clinical practice) 	IC 2	LGIS	MCQ/ SEQ
5.	Medical Ethics And Professionalism Truth Telling In Clinical Practice & End-Of-Life Decisions In Clinical Practice	<ul style="list-style-type: none"> • Analyze the ethical boundaries of conduct as a doctor 	Knowledge <ul style="list-style-type: none"> • Enumerate the importance of truth-telling in clinical practice • Discuss issues that can arise from breaching the principle of truth-telling • Discuss end-of-life decisions in clinical practice and its significance • Identify potential dilemmas and conflicts in end-of-life clinical situations • Analyse dilemmas in end- of-life clinical situations, when patients, families and physicians have different opinions 	IC 2	LGIS	MCQ/ SEQ
6.	Medical Ethics Professionalism & Euthanasia	<ul style="list-style-type: none"> • Analyse the ethical boundaries of conduct as a doctor 	Knowledge <ul style="list-style-type: none"> • Define the term Euthanasia and the types of Euthanasia • Discuss the role of Euthanasia in clinical practice • Discuss the implications of Euthanasia from social, moral, legal, and religious perspectives 	IC 2	LGIS	MCQ/ SEQ



BLOCK I SYLLABI

ORAL MEDICINE

Weeks	Topics	MIT
Week 1	Intro To Oral Medicine / Terminologies	LGIS
Week 2	Principles Of Assessment & Management	LGIS
Week 3	Oral Ulceration	LGIS
Week 4 & 5	Diseases Of Lips & Tongue	LGIS
Week 6	Renal Diseases	LGIS
Week 6	Blood-Related Disorders	LGIS
Week 7 & 8	Medical Emergencies	LGIS
Week 9	Oral Pigmentation	LGIS
Week 10	Oral carcinoma and carcinogenesis	LGIS



Week 11	& Precancerous Conditions	LGIS
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PRACTICAL SCHEDULE

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



ORAL PATHOLOGY

Sr. No	Week Wise Distribution	Topics	MITs
1)	WEEK 1	Orientation Of Oral Pathology Introduction Of Odontogenic & Non-Odontogenic Cysts	LGIS
2)	WEEK 2	Odontogenic & Non-Odontogenic Cysts	LGIS
3)	WEEK 3	Odontogenic & Non-Odontogenic Cysts	LGIS
4)	WEEK 4	Odontogenic Tumours	LGIS
5)	WEEK 5	Odontogenic Tumours/ Salivary Glands Pathology	LGIS
6)	WEEK 6	Salivary Glands Pathology	LGIS
7)	WEEK 7	Salivary Glands Pathology	LGIS
8)	WEEK 8	White Lesions	LGIS
9)	WEEK 9	White Lesions	LGIS
10)	WEEK 11	Epithelial Pathology	LGIS
11)	WEEK 12	Epithelial Pathology	LGIS



PRACTICALS

S. No.	Week Wise Distribution	Topics	MIT
1)	WEEK 1	Orientation Of Oral Pathology Lab	SGD/Demonstration
2)	WEEK 2	Odontogenic & Non-Odontogenic Cysts	SGD/Demonstration
3)	WEEK 3	Odontogenic & Non-Odontogenic Cysts	SGD/Demonstration
4)	WEEK 4	Odontogenic Tumours	SGD/Demonstration
5)	WEEK 5	Odontogenic Tumours	SGD/Demonstration
6)	WEEK 6	Salivary Glands Pathology	SGD/Demonstration
7)	WEEK 7	Salivary Glands Pathology	SGD/Demonstration
8)	WEEK 8	White Lesions	SGD/Demonstration
9)	WEEK 9	Epithelial Pathology	SGD/Demonstration
10)	WEEK 10	PBL On Squamous Cell Carcinoma	PBL
11)	WEEK 11	Epithelial Pathology	SGD/Demonstration
12)	WEEK 12	Haematological Disorders	SGD/Demonstration



GENERAL MEDICINE

Sr. No.	Week	Topic	MIT
1	1	Community-Acquired Pneumonia I Community-Acquired Pneumonia II	LGIS
2	2	Bronchial Asthma-I Bronchial Asthma-II	LGIS
3	3	COPD-I COPD-II	LGIS
4	4	Tuberculosis I Tuberculosis II	LGIS
5	5	Chest Pain <u>I</u> Chest Pain <u>II</u>	LGIS
6	6	Ischemic Heart Disease I Ischemic Heart Disease II	LGIS
7	7	Hypertension <u>I</u> Hypertension <u>II</u>	LGIS
8	8	Rheumatic Fever <u>I</u> , Rheumatic Fever <u>II</u>	LGIS
9	9	Heart Failure I & Heart Failure <u>II</u>	LGIS
10	10	Infective Endocarditis	LGIS
11	10	Anaemia Types Classification Presentations And Management	LGIS
12	11	Clotting Disorders, Haemophilia, Von –Willibrand Disease	LGIS
13	11	Bleeding Disorders.	LGIS
14	12	Nephrotic Syndrome	LGIS
15	12	Acute And Chronic Renal Failure	LGIS



Block I - Clinical Rotation

Sr No.	Week	Topic/ Clinical Work	MIT
1	1	SGD (work up a case of respiratory illness) History Taking with Presenting complaints/ common Respiratory tract presenting complaints (demonstration on graphic information) CBL(common Chest x-ray findings in CAP patients)	SGD/Demonstration CBL
2	2	SGD (PEFR measurements) History Taking with Presenting complaints/common presenting complaints of the respiratory system CBL (Management of severe acute asthma)	SGD/Demonstration CBL
3	3	SGD (Smoker packs years calculations) History Taking with Presenting complaints/common presenting complaints/history in COPD with occupational history CBL (common Chest x-ray findings in COPD patients)	SGD/Demonstration CBL
4	4	SGD (Medical Ethics and principals) History taking with Demonstration on graphic Information Importance of demonstration of graphic Information CBL (work up for Tubercular Effusion)	SGD/Demonstration CBL
5	5	SGD (Anti TB Drugs and Dosage /Duration) History Taking with Presenting complaints/common presenting complaints (demonstration on graphic information) CBL (common Chest x-ray findings in TB patients)	SGD/Demonstration CBL



Sr No.	Week	Topic/ Clinical Work	MIT
6	6	SGD (Management of the patient with ACS) History taking (presenting complaints and chronological order) CBL (ECG interpretation and ECG leads)	SGD/Demonstration CBL
7	7	SGD (How to check blood pressures) Significant Past medical and past surgical history Examination (vital signs and how to check vitals) CBL (work up of hypertensive patient and common antihypertensive drugs/common hypertensive emergencies)	SGD/Demonstration CBL
8	8	SGD (workup for Case of Rheumatic Fever) History of Presenting Illness (Common presenting complaints in cardiology) CBL (Heart valves, Murmurs, Types)	SGD/Demonstration CBL
9	9	SGD (clinical presentations of right and left heart failure) Examination (JVP Measurement and pedal and sacral oedema) CBL (Management of a case of heart failure and acute LVF)	SGD/Demonstration CBL
10	10	SGD (Blood Culture and How to Draw blood culture) Physical examination finding in anaemia (precordial examination) CBL (workup in case of anaemia)	SGD/Demonstration CBL



Sr No.	Week	Topic/ Clinical Work	MIT
11	11	SGD (management of the patient with clotting disorder in dentistry) History Taking with Presenting complaints/common presenting complaints of bleeding and clotting disorders Systemic examination in case of clotting disorders CBL (Approach to the patient with ITP for dental procedures)	SGD/Demonstration CBL
12	12	SGD (Approach to the patient with CKD) History Taking with Presenting complaints/common presenting complaints of urinary tract History taking in anaemia / General physical examination finding in anaemia CBL (interpretation of Renal function test/AKI and its management)	SGD/Demonstration CBL



Behavioural Sciences

Week	Topic/ Theme	MIT
Week 04	Medical Ethics And Professionalism	LGIS
Week 05	Medical Ethics And Professionalism	LGIS
Week 06	Medical Ethics And Professionalism	LGIS
Week 07	Principles Of Psychology	LGIS
Week 08	Principles Of Psychology	LGIS
Week 09	Medical Ethics And Professionalism	LGIS
Week 10	Medical Ethics And Professionalism	LGIS
Week 11	The Neurological Basis Of Behaviour	LGIS
Week 12	The Neurological Basis Of Behaviour	LGIS



General Surgery

Week	Topic Name LECTURE	MIT
1st	Surgical Ethics/evidence base medicine	LGIS
2 nd	Patient Safety/surgical ethics	LGIS
3 rd	Shock And Its Management	LGIS
4 th	Wound Healing and Tissue Repair/Blood Transfusion and Haemorrhage	LGIS
5 th	Nutrition And Fluid Therapy	LGIS
6 th	Surgical Infection part 1 and 2	LGIS
7 th	Tetanus, Gangrene and Necrotising fasciitis/prophylactic antibiotics	LGIS
8 th	Surgical Anastomosis - Part 1	LGIS
9 th	Diagnostic Imaging/ Pre & Post Op Management of Surgical Patient Lecture Forwarded	LGIS
10 th	Post Op Management/metabolic response to trauma	LGIS
11 th	Anaesthesia and pain management/tissue diagnosis and biopsy	LGIS
12 th	SPORTS WEEK	LGIS
13 th	Tracheostomy indication/introduction to trauma and Advanced Trauma Life Support(ATLS)	LGIS
1st week	Introduction to surgery and history taking	Demonstration/ SGD
2 nd week	History taking and examination	Demonstration/ SGD
3 rd week	Examination of swelling with case demonstration	Demonstration/ SGD



Week	Topic Name LECTURE	MIT
4 th week	Case discussion regarding swelling	Demonstration/ SGD
5 th week	Clinical history taking	Demonstration/ SGD
6 th week	Examination of swelling video presentation	Demonstration/ SGD
7 th week	examination of ulcer with case discussion	Demonstration/ SGD
8 th week	Examination of oral lesion suspected to be malignant	Demonstration/ SGD
9 th week	Video presentation of Intravenous access	Demonstration/ SGD
10 th week	Identification of normal CXR	Demonstration/ SGD
11 TH week	Identification of pathologies on CXR	Demonstration/ SGD
12 th week	SPORTS WEEK	Demonstration/ SGD
13 th week	Recognition of instruments	Demonstration/ SGD



Periodontology

S.No	Weeks	Theory Topics	MIT
1	1 st	1. Introduction to Periodontology 2. Gingiva	LGIS
2	2 nd	1. PDL 2. Root and Cementum	LGIS
3	3 rd	1. Alveolar Bone 2. Blood, Nerve, And Lymphatic Supply	LGIS
4	4 th	. Classification of periodontal disease	LGIS
5	5 th	1. Halitosis 2. Clinical features of gingiva	LGIS
6	6 th	1. Epidemiology of periodontal disease	LGIS
7	7 th	1. Gingival crevicular fluid 2. Gingival inflammation	LGIS



8	8 th	1. Dental plaque and calculus 2. Effects of smoking on periodontium	LGIS
9	9 th	1. Gingival enlargement 2. Dental calculus	LGIS
10	10 th	1. Plaque control 2. Class test	LGIS
11	11 th	1. Influence of systemic disease and conditons	LGIS
12	12 th	1. Sports week	-
13	13 th	1. Periodontal pocket 2. Acute gingival infections	LGIS
14	14 th	1. Block I Exam	-



PERIODONTOLOGY CLINICAL ROTATIONS

WEEKS	TOPIC	MITs
1st	<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 	Clinical rotation Demonstrations
2nd	<ol style="list-style-type: none"> 1. Instrument Grasps and stroking methods 2. Chair side Ethics and manners 	Clinical rotation Demonstrations
3rd	<ol style="list-style-type: none"> 1. Periodontal Examination 2. Identifying anatomy and features of healthy gingiva and diseased gingiva on patients 	Clinical rotation Demonstrations
4th	<ol style="list-style-type: none"> 1. Clinical diagnosis of periodontal and gingival diseases of patients 2. Chemical and mechanical plaque control measures 	Clinical rotation Demonstrations
5th	<ol style="list-style-type: none"> 1. Oral Hygiene Instructions and prescription writing 2. Treatment planning of patients with different types of periodontal diseases 	Clinical rotation Demonstrations
6th	<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 	Clinical rotation Demonstrations



7 th	<ol style="list-style-type: none">1. Non-surgical Management of patients2. 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	



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 + 10th Week		
Day 1	Operative department	EXIT EXAM
Day 2		
Day 3		



Prosthodontics

Clinical Demonstrations

Week	Practical	MIT
1.	History taking	Clinical Demonstration
2.	Clinical examination	Clinical Demonstration
3.	Tray selection/ impression making/ cast pouring	Clinical Demonstration
4.	Designing and surveying	Clinical Demonstration
5.	Clasp fabrication	Clinical Demonstration
	Wax up	Clinical Demonstration
6.	Articulation	Clinical Demonstration
7.	Teeth setup	Clinical Demonstration
8.	Flasking/ Curing	Clinical Demonstration
	Polishing Finishing/Insertion	Clinical Demonstration
9.	Ward Test	Clinical Demonstration



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

<p>1. Bailey and Love's Sort Practice of Surgery – 27th edition</p>	
<p>2. An Introduction to the Symptoms & Signs of Surgical Disease by Norman S Browse</p>	
<p>3. A Manual on Clinical Surgery by S. DAS</p>	

4. Clinical Methods in General Surgery by Hamilton & Bailey

