DENTAL COLLEGE HITEC IMS

Third Year BDS - Block I Study Guide

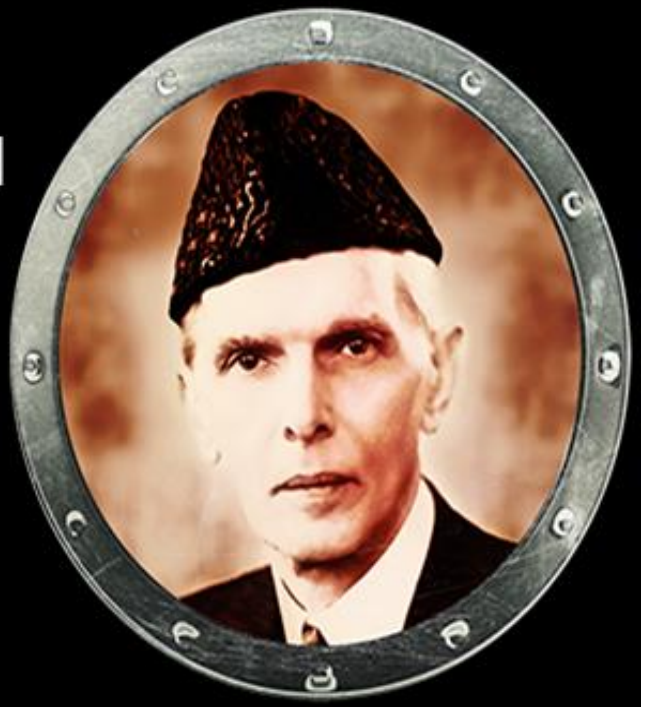
Introduction to Clinical Medicine and Dentistry

(Y3-B1-D24)

Year Coordinator: Dr. Faiqa Hassan

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

Muhammad Ali Jinnah



Contents

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

Institutional Vision & Mission

Vision

- **Leading advancement in oral & dental health through excellence in education, patient care and research**

Mission

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

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 endeavours to make Pakistan and this world a better place to live in.

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
2.	Dr. Azka Haroon	Assistant Professor	Oral Pathology	0303-4845144
3.	Dr. Sadia Moin	Senior Registrar	OMFS	0322-2290244
4.	Dr. Wajeeha Javed	Associate Professor	Periodontology	0330-5345078
5.	Dr. Sharaz Ahmad	Assistant Professor	Operative Dentistry	0335-5067704
6.	Dr. Aamir Rafiq	Associate Professor	Prosthodontics	0334-4353578
7.	Prof. Shahid Saleem	Professor	General Medicine	0333-5130757
8.	Prof. Zafar Iqbal	Professor	General Surgery	0333-5001414
9.	Dr Faizan Munir	Assistant Professor	Dental Education	0334-0031031
10.	Maryam Zia	Student GR	3rd Year	0333-5482253
11.	Zeedan	Student	3rd Year	0312-9658133

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.

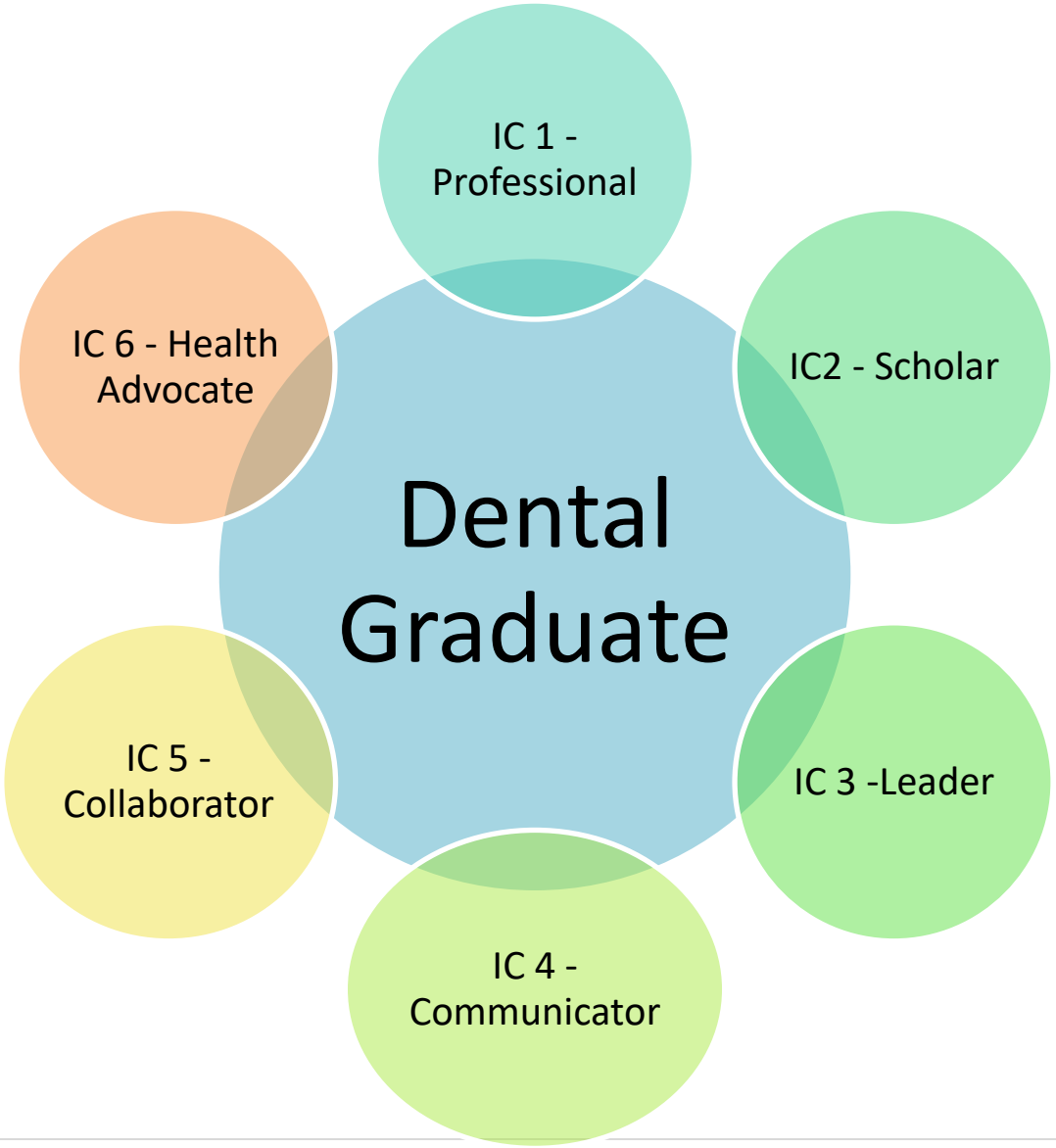
Teaching Strategies

Multiple teaching strategies are used. LGIS is used to provoke thought and understanding and to standardize 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 the clinical implications of each topic to integrate basic and clinical sciences. This encounter is based on an 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, the 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	Block Outcome Codes	Institutional Competencies
1.	Manage the patients presenting with medical OPD with cardiovascular, nephritic, and hematological diseases	Y3-B1/O-1	IC 1 to IC 6
2.	Correlate anatomical and physiological features of periodontium with the management of periodontal diseases	Y3-B1/O-2	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	Y3-B1/O-3	IC 1 to IC 6
4.	Plan therapeutic management of oral diseases based on histopathological findings	Y3-B1/O-4	IC 1 to IC 6
5.	Demonstrate effective communication and counselling skills in patient care	Y3-B1/O-5	IC 1, IC 3, IC 4, IC 6
6.	Apply a constructivist approach to polishing research skills	Y3-B1/O-6	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	22nd Jan – 22nd March	25th March – 4th June	5th June – 6th Sept	9th Sept – 1st Nov
Batch B – 9 Weeks Rotation	25th March – 4th June	22nd Jan – 22nd March	9th Sept – 1st	5th June – 6th Sept
Batch C – 9 Weeks Rotation	5th June – 6th Sept	25th March – 4th June	22nd Jan – 22nd March	9th Sept – 1st Nov
Batch D – 9 Weeks Rotation	9th Sept – 1st Nov	5th June – 6th Sept	25th March – 4th June	22nd Jan – 22nd March

_Focus Group Discussion for Improvement of Curriculum

To assess the effectiveness of the same block run last year (Y3-B1-D24), a focus group discussion was held with four students of 3rd year and four students of 4th year BDS. The students were selected randomly without any gender discrimination or academic record. They were informed about the purpose of the discussion, and they all consented willingly.

The following were the discussion points of Block 1 that were incorporated into Block 2:

i. Proper time management of lectures
ii. Periodontology - Inclusion of video/picture about the procedure being taught

Discussion on various topics was generated by the appropriate prompts by Dr. Faiqa Hassan who conducted this FGD. The following areas were covered in the FGD:

CURRICULUM INTEGRATION

Interdepartmental integration of topics/lectures is more helpful.

TEACHING METHODOLOGY

The students were satisfied with the time and effort put in by staff/teachers regarding learning, concept building, and understanding the lectures.

ASSESSMENT METHOD

Students were satisfied with timely communication of the syllabus, date sheets, various tools of assessment (marking system), difficulty level, and application of knowledge checked in the exams conducted by all basics and clinical departments.

COMMUNICATION AND RESOURCE PERSON

Any problem regarding curriculum was timely addressed by Dr Faiqa.
All the timetables across the block were timely communicated and followed.

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.

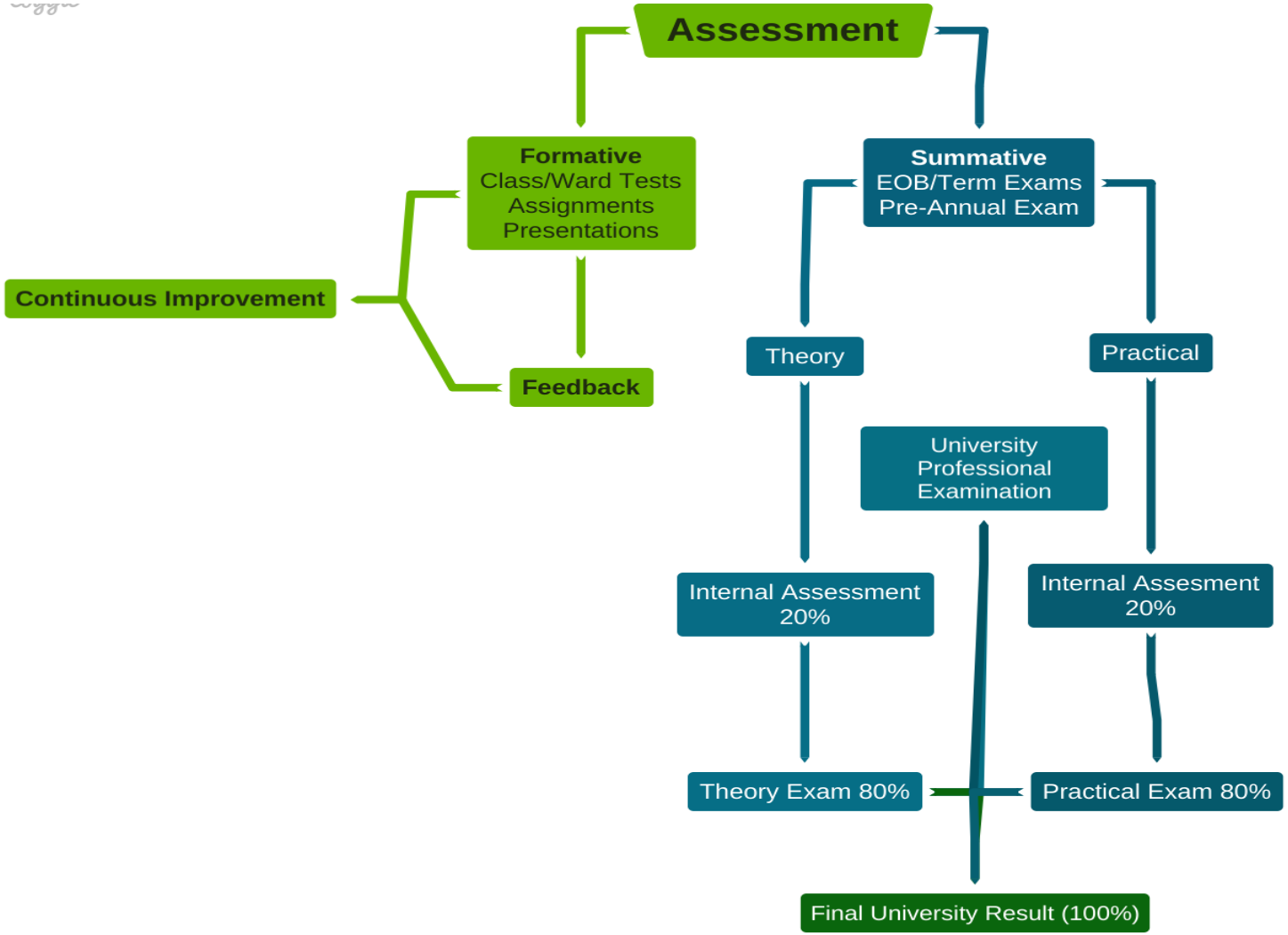
Summative assessment includes End-of-block exams and pre-annual examinations. The pre-annual examination will be conducted according to guidelines provided by NUMS.

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

Commencement of classes 22nd Jan 2024		
Disciplines taught in 3rd Year	Oral Pathology, Oral Medicine, Periodontology, General Medicine, General Surgery, behavioral sciences, OMFS, Operative and Prosthodontics	
Activity	**Dates**	**Duration**
1st Block (13 WEEKS) 12 weeks + 1 week 1st block exam		
Academics	22nd Jan – 25th Feb	5 weeks
Sports week	26th Feb – 4th March	1 week
Academics	5th March – 5th April	5 weeks (Ramazan)
Eid holidays	8th April- 14th April	1 week
Academics	15th April – 26th April	2 weeks
1st block Exam (written/viva)	29th April – 6th May	1 week
2nd Block (13 WEEKS + 2 days) 12weeks + 1 week + 2 days (2nd block exam)		
Academics	7th May - 14th June	6 weeks
Summer vacations + Eid ul Fitr	17th June – 7TH July	3 weeks
Academics	8th July – 18th Aug	6 weeks
2nd BLOCK Exam (written/viva)	19th Aug – 27th Aug	1 week + 2 days
3rd Block (12 WEEKS + 3 days) 9 weeks 3 days + 3 weeks Sendup exams		
Academics	28th Aug – 3rd Nov	9 weeks + 3 days
Sendup Exam	4th Nov – 22nd Nov	weeks
Prep Leaves	23rd Nov – 22nd Dec	1 month
Final Prof	**23rd December, 2024**	

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 22-01-2024	Periodontology Introduction to Periodontology **(Dr. Sohaib, DR. Wajeeha)**	Oral pathology (Introduction to oral pathology) **(Dr. Azka Haroon)**	----------BREAK----------	**Practical /SGD** Batch A- Prostho History taking **(Dr. Uzair)** Batch B- OMFS **(Dr. Fatima)** Batch C- Operative **(Dr. Sheraz)** Batch D- Perio (Introduction to department & Infection control) **(Dr. Sohaib)**	----------BREAK----------	**Practical/SGD** Batch A- Oral-Pathology (Introduction to oral pathology) **(Dr. Rida)** Batch B- Oral-Medicine (Introduction to oral medicine) **(Dr. Hamza Amanat)**	
Tuesday 23-01-2024	Periodontology Gingiva **(Dr. Sohaib)**	Oral-Medicine Terminologies **(Dr. Faiqa Hassan)**		**Practical /SGD** Batch A- Prostho Clinical examination **(Dr. Uzair)** Batch B- OMFS **(Dr. Fatima)** Batch C- Operative **(Dr. Sheraz)** Batch D- Perio (History taking) **(Dr. Izhar)**		**Practical/SGD** Batch B- Oral-Pathology (Introduction to oral pathology) **(Dr. Ayesha)** Batch A- Oral-Medicine (Introduction to oral medicine) **(Dr. Hamza Amanat)**	
Wednesday 24-01-2024	Oral pathology (Introduction to oral pathology) **(Dr. Azka Haroon)**	Periodontology Gingiva **(Dr. Wajeeha)**		**Practical /SGD** Batch A- Prostho Tray selection, impression recording, cast pouring **(Dr. Uzair)** Batch B- OMFS **(Dr. Maimoona)** Batch C- Operative **(Dr. Sheraz)** Batch D- Perio (Ergonomics, Operating the Dental Unit) **(Dr. Sohaib)**		Practical Batch A- Prostho Batch B- OMFS Batch C- Operative Batch D- Perio	
Thursday 25-01-2024	General Surgery Introduction to clinical ehics and professionalism **(Dr. Zafar Iqbal)**	General Medicine Chest pain **(Dr. Shahid Saleem)**		**Practical /SGD** Batch A- General Surgery Orientation of department and introduction to history taking **(Dr. Afshan)** Batch B- General medicine (History and GPE) **(Dr. Rehman Arshad)**		Practical Batch A- General Surgery Batch B- General medicine	**2:30-3:30** Prosthodontics Classification of partially dentate arches **(Dr. Uzair)**
Friday 26-01-2024	General Medicine Chest pain	General Surgery		**Practical /SGD** Batch A- General Medicine (history and GPE)	**1:30-2:00**	Practical Batch A-	Behavior Sciences

	(Dr. Shahid Saleem)	Anatomy of thyroid gland **(Dr. Zafar Iqbal)**		**(Dr. Rehman Arshad)** Batch B- General Surgery Orientation of department and introduction to history taking **(Dr. Afshan)**	**prayer & Lunch Break**	General Surgery Batch B- General medicine	(Neurological Basis of Behavior: Consciousness) **(Ms. Amna Fayyaz)**

Structured Summary - Block I

Code	Y3-B1-D24
Name	Introduction To Clinical Medicine and Dentistry
Duration Of Block	12 Weeks - On campus
Dates	Jan 22nd, 2024 – May 6th 2024
Horizontally Integrated Themes/ Topics	Oral Pathology Oral Medicine
Vertically Integrated Themes/ Topics	Research Behavioural Sciences
Prerequisite Block(s)	1st and 2nd year BDS

Tentative Exam Schedules

A continuous assessment schedule will be provided in the timetable.

End Of Block Exam (EOB) Schedule

Date	Subject	Time
29-04-2024	Oral Pathology	8:30-11:30 12:00-3:30 ospe/viva
30-04-2024	General Surgery	8:30-11:30 12:00-3:30 ospe/viva
2-05-2024	General Medicine	8:30-11:30 12:00-3:30 ospe/viva
3-05-2024	Oral Medicine	8:30-11:30 12:00-3:30 ospe/viva
6-05-2024	Periodontology	8:30-10:30 12:00-3:30 ospe/viva
10-05-2024	Behavioral Sciences	8:30-10:30 12:00-3:30 ospe/viva

Tentative Test Schedule Of 1st Block

Day	Date	**Subjects** (Theory)
Monday	6-03-2024	Oral Pathology
Monday	14-03-2024	General Surgery
Monday	28-03-2024	General Medicine
Monday	3-04-2024	Oral Medicine
Monday	17-04-2024	Periodontology

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	• Identify different clinical terms depending on clinical and radiographic examination	**Knowledge** • 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	• Discuss investigations of blood, urine, endocrine function, immunological, serology & microbiology • Classify different types of biopsies and their uses in dentistry	**Knowledge** • 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
			Skill • 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	• Demonstrate proper history taking and clinical	**Skill** • 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	• Demonstrate proper history taking and clinical examination of patients with oral lesions			
4	Principles Of Management	• Identify different therapeutic options, including topical and systemic modalities, their uses, and limitations in the oral cavity	**Knowledge** • 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	• Identify different types of ulcerations and syndromes associated with them
		• Discuss the management oral ulcerations in all age groups, including adolescents, after diagnosis
			Knowledge
			• Discuss the diagnosis & management of traumatic ulceration
			  • RAS (all three types)
			  • Behcet's disease
			  • PFAPA syndrome
			  • MAGIC syndrome
				IC 2	LGIS	MCQs
						SAQs
						Viva

			Skill • Identify the oral ulcerations in all age groups	IC1 IC4 IC5	Clinical rotation Demonstration	OSCE
6	Diseases Of Tongue	• Identify the management and treatment options of different	**Knowledge** • Differentiate between fissured tongue, coated tongue, hairy tongue, geographic tongue, median rhomboid glossitis	IC 2	LGIS	MCQs SAQs

		abnormalities of the tongue after diagnosis	• Discuss their causes & management of fissured tongue, coated tongue, hairy tongue, geographic tongue, and Median Rhomboid glossitis • Discuss the features of macroglossia & ankyloglossia			
			Skill • Identify the management and treatment options of different abnormalities of the tongue after diagnosis	IC1 IC4 IC5	Clinical rotation	OSCE
7	Diseases Of Lips	• Identify the treatment options of different diseases of lips after diagnosis	**Knowledge** • Discuss the swellings of lips, angular cheilitis, lip fissures, lip eczema, actinic cheilitis, and alergic cheilitis	IC 2	LGIS	MCQs SAQs Viva
			Skill • 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	• Discuss the characteristics of white and red lesions that may progress to cancerous lesions • Differentiate between pre-cancerous lesions and conditions	**Knowledge** • 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

		• Discuss the management of pre-cancerous conditions after diagnosis	**Skill** • Give the management of pre-cancerous conditions after diagnosis	IC 1 IC 4 IC 5	Demonstration Clinical rotation	OSCE
9	Oral Pigmentation	• Identify the treatment options of oral lesions presenting as pigmented lesions based on history and clinical findings, and differential diagnosis	**Knowledge** • Identify Amalgam tattoo, melano-acanthoma and familial & drug-induced pigmentation	IC 2	LGIS	MCQs SAQs Viva
			Skill • 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.	Disorders Of Teeth	• Recognize various syndromes that directly or indirectly affect facial hard tissues and teeth	**Knowledge** • Diagnose hypodontia • 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	IC 2	LGIS	MCQs SAQs Viva
12	Blood-Related Disorders	• Identify oral manifestations of blood-related disorders	**Knowledge** • 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	• Discuss the management of a patient with oral symptoms having different endocrine disturbances and renal diseases	**Knowledge** • Discuss the chronic renal failure, dialysis and renal transplant patients, addison's disease & cushing syndrome	IC 2	LGIS	MCQs SAQs Viva
			Skill • Identify the treatment options of oral symptoms of different endocrine disturbances and renal diseases	IC 1 IC 4 IC 5	Demonstration Clinical rotation	OSCE
14	Oral carcinoma and carcinogenesis	• Identify cancerous lesions and conditions and refer to specialist.	**Knowledge** • Explain TNM staging of OSCC • Discuss treatment modalities	IC2	LGIS	MCQs SAQs Viva
			Skill • Examination of Cervical lymph nodes	IC4 IC5	Demonstration Clinical rotation	OSCE
PRACTICAL						
1	• History Taking		**Knowledge, Skill and Attitude** • Demonstrate detailed history taking	IC 1 to IC 6	Clinical rotation Demonstration	OSCE
2	• Examination Of Hard and Soft Tissues Of The Oral Cavity (Tongue, Mucosa, Soft Palate, Hard Palate, Teeth, Alveolar Bone, Lingual And Pharyngeal Tonsils)		**Skill** • Examine hard and soft tissues of the oral cavity	IC 1 to IC 6	Demonstration Clinical rotation	OSCE
3	• Examination Of Cranial Nerves		**Skill** • Examine cranial nerves	IC 1 IC 2 IC 4 IC 6	Demonstration Clinical rotation	OSCE

4.	• Examination of Salivary glands	**Skill** • Examine salivary glands	IC 1 IC 2 IC 4 IC 6	Demonstration Clinical rotati	LGIS

2. Oral Pathology

Sr. No.	Topic/ Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1.	Introduction and Terminologies Used in Oral Pathology	• Identify different histopathological terms depending on histopathological examination	**Knowledge** • Define basic terms used in oral pathology • Differentiate between different histopathological terms based on histopathological presentation	IC 2	LGIS	MCQ SEQ Viva

2.	Developmental Disturbances of Oral Lesions	• Classify developmental anomalies and defects in development of oral	**<u>Knowledge</u>** • Demonstrate the comprehension of developmental disturbances of oral region including teeth, soft tissue, bone and non-odontogenic developmental cysts • Diagnose the pathology using the histopathological features viewed on slides.	IC 2	LGIS	MCQ SEQ Viva

			Skill • Prepare H& E slides • Demonstrate the use of microscopes • Identify the microscopic features of slides Illustrate the salient features on workbook with H & E pencils	IC 1 IC 4 IC 5	Laboratory Rotation	OSCE

			<u>Attitude</u> • Follow 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 4	Laboratory Rotation	OSCE
3.	DENTAL CARIES a. Etiology b. Clinical Types c. Role of Plaque, Carbohydrates d. Enamel Caries e. Dentine Caries f. Cementum Caries	• Differentiate between various clinical types of dental caries on clinic-pathological basis	**<u>Knowledge</u>** • 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

			Skill • 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	Laboratory Demonstration	OSCE VIVA
			Attitude • 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

4.	PERIAPICAL PATHOLOGY a) Acute and chronic periodontitis b) Chronic apical periodontitis c) Periapical abscess d) Periapical granuloma e) Acute and chronic osteomyelitis f) Cellulitis	• Compare various periapical pathologies on Clinicopathologial basis	**Knowledge** • 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
5.	Epithelial Pathology	• Differentiate between various epithelial pathologies based on clinicopathological features	**Knowledge** • 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	IC 2	LGIS	MCQ SEQ Viva

			mutagenic and carcinogenic ingredients • Describe the clinical staging and histopathological grading of oral squamous cell carcinoma • 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			

			Skill • 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
			Attitude • 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
6.	Haematological Malignancies	• Distinguish between haematological malignancies and recall treatment modalities with their clinicopathological picture	**Knowledge** • Distinguish Hodgkin's and non-Hodgkin's lymphoma based on oral and histopathological features	IC 2	LGIS	MCQ SEQ VIVA

			• Discuss the diagnostic criteria of Burkitt's lymphoma, multiple myeloma, plasmacytoma and Langerhans cell histiocytosis based on histopathological features			
			<u>Skills</u> • 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
			<u>Attitude</u> • 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	IC 1 IC 3 IC 4 IC 5	Laboratory Demonstration	OSCE

			• Report any damage to lab equipment immediately			
7.	Cystic Lesions	• Discuss and distinguish various cysts based on their origin, nature, expansion and radiographic presentation	**<u>Knowledge</u>** • 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 • 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	IC 2	LGIS	MCQ SAQ VIVA

			• Palatal cyst of newborn • Dermoid and epidermoid cysts (only microscopic features) • Discuss the differential diagnosis of cysts on the basis on histopathological features			
			<u>Skill</u> • 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
			<u>Attitude</u> • 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	IC 1 IC 3 IC 4 IC 5	Demonstration	OSCE

			report any damage to lab equipment immediately			

General medicine

sr	Topic	Learning outcomes	Objectives Should know at end of session	IC codes	MIT	assessment

Cardiology

1	**Chest pain-I**	Common causes of chest pain	**Knowledge** Should know common causes of chest pain	C 2 – Scholar	LGIS	MCQs SEQs

		How to differentiate between cardiac and non cardiac chest pain Differential diagnosis of chest pain	**<u>Knowledge</u>** Have knowledge Emergency workup for chest pain	IC 1 – Professional IC 5 – Collaborator	S.G.D	Short cases
2	**Chest pain- II**	Common Investigations for chest pain Significant ECG finding in chest pain Management of chest pain	**<u>Skill</u>** Basic knowledge about ECS **<u>Skill</u>** Basic interpretation of ECG	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator	LGIS Clinical and ward teaching	MCQs SEQs OSPE
3	**Ischemic heart disease-I**	Epidemiology of ischemic heart disease Common causes of ischemic heart disease Clinical presentation of ischemic heart disease	**<u>Knowledge</u>** Should know basic pathogenesis of ischemic heart diseases **<u>Knowledge</u>** Should be familiar with modifiable and non-modifiable risk factors for ischemic heart disease	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator	LGIS	MCQs SEQs
4	**Ischemic heart Disease-II**	Stable/Unstable angina and its management Acute myocardial infarction and its management	**<u>Skill</u>** Capable of doing management of acute MI Managing a patient with cardiac	C 2 – Scholar IC 1 – Professional	LGIS	MCQs SEQs Ward test Short casese

		Thrombolysis and PCI/complications	emergency and complications	IC 5 – Collaborator		
5	**Hypertension I**	Hypertension epidemiology Primary and secondary hypertension Stages of hypertension/Clinical features	**Knowledge** Should have basic knowledge About primary and seconday HTN **Knowledge** Familiar with workup to rule out secondary HTN	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator	LGIS S.G.D	MCQs SEQs Long case
6	**Hypertension II**	Workup for primary and secondary Hypertension Treatment options and treatment targets of hypertension Hypertensive urgency and emergency	**Skill** Capable of checking blood pressures **Skill** Should be able to deal hypertensive emergency and do basic medications	C 2 – Scholar C 3 - Leader IC 1 – Professional IC 5 – Collaborator	LGIS Clinical/practical	MCQs SEQs Short cases
7	**Theory Rheumatic fever I**	Introduction of Rheumatic fever and its Pathogenesis Clinical features	**Knowledge** Should knowInvestigations for Rheumatic fever Identify the Lab findings in a case of rheumatic fever **Skill**	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator C 3 - Leader	LGIS S.G.D	MCQs SEQs Long case Short case

			Able to apply Dukes Criteria for Rheumatic fever			
8	**<u>Theory</u>** **Rheumatic fever II**	Treatment for Acute and chronic Rheumatic fever Supportive care	**<u>Skill</u>** Able to educate regarding supportive Managements and Prevention against Rheumatic Fever **<u>Attitude:</u>** • Follow proper way of having history regarding Rhematic heart disease • Maintain his/her clinical instruments according to the prescribed SOPs. • Proper introduction and consent before taling and touching the	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator C 3 - Leader	LGIS S.G.D	MCQs SEQs Long case
9	**<u>Theory</u>** **Heart Failure I**	Introduction and path physiology of heart failure	**<u>Knowledge</u>** Should differentiateTypes of Heart Failure	C 2 – Scholar	LGIS	MCQs SEQs

		1) Causes of Heart failure(starling Law) 2) Clinical findings and presentations of heart failure 3) Investigations	Have knowledge about Cor Pulmonale **Skill** Should interpret values of BNP and Prognostic markers of heart failure	IC 1 – Professional IC 5Collab – orator C 3 - Leader		Short Cases/Long cases
10	**Theory** **Heart failure II**	1) Management of heart failure 2) Complications of heart failure	**Skill** Should be able to Manage the cases of Acute LVF **Knowledge** Shoul be awar about Heart transplantation/Left Ventricular assisted devices	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator	LGIS	MCQs SEQs Long cases
11	**Theory** **Infective Endocarditis**	Introduction of Endocarditis Pathogenesis And Types of Endocarditis	**Knowledge** Should knowMicrobiological spectrum of Bacterial	C 2 – Scholar IC 1 –	LGIS	MCQs SEQs OPSE
12	**Theory**	Management and empirical treatment	Endocarditis	Professional	LGIS	Long case

	Infective Endocarditis		Shoul have idea of Cardiac and extra-cardiac manifestation of Endocarditis **<u>Skill</u>** Shoul be able to give Prophylaxis for Endocarditis In high risk patients	IC 5 – Collaborator		

Haematology

13	**<u>Theory</u>** **Anaemia** **Types** **Classification** **Presentations and Management**	Classification of anaemia 1) Common presentation of each types Macrocytic /Megaloblastic Anaemia management Haemolytic Anaemia Types and Management	**<u>Knowledge</u>** Iron deficiency Anaemia investigation and management **<u>Skill</u>** Should interpret reports of blood cp Capable to manage a case of anemia	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator	LGIS SGD CBL	MCQs SEQs OSPE SHORT Long cases
14	**Clotting Disorders Haemophilia, Von – Willibrand disease**	Introduction to coagulation disorders 1) Haemophilia A,B 2) Von-willibrand Disease 3) Acquired causes of coagulation disorders 4) Severity of haemophilia and management of haemophilia Complications and morbidity of haemophilia	**<u>Knowledge</u>** Should be familiar with clotting disorders as needed to know before procedure **<u>SKILL</u>** Should be able to diagnosed and manage new and previously known cases of clotting disorders **<u>Attitude:</u>** • Follow proper way of having	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator .C 3 - Leader I.C 4 - Communicator	LGIS Practical/clinical	MCQs SEQs Short case/ Long case

		Von-willibrand disease and management	history regarding clotting disorders • Maintain his/her clinical instruments according to the prescribed SOPs. • Proper introduction and consent before taling and touching the patients			
15	**Bleeding Disorders ITP,DIC**	Introduction to platelets disorders Clinical presentation of ITP DIC and its common causes(Purpura) Clinical scenarios for DIC D-dimers and further investigation for DIC	**Knowledge** Should have knowledge about Investigation for ITP **skill** should be able to manage cases of ITP before procedure should be capable of interpreting D-dimers	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator I.C 3 - Leader	LGIS practicals	MCQs SEQs OSPE LONG CASES
16	**Hematological Malignancy**	Introduction of hematological malignancy Classification Types Causes	**Knowledge** Should have knowledge about hematological malignancy **skill**	IC 1 – Professional IC 5 – Collaborator I.C 3 - Leader	LGIS	MCQs SEQs

		Investgations Management of hametological malignancy	should be able to investigate the case			

NEPHROLOGY

17	**Theory** **Nephrotic Syndrome**	Introduction of Nephrotic Syndrome Clinical presentations of Nephrotic Syndrome Common types of Nephrotic Syndromes and there Management Investigations for nephrotic syndrome Management of Nephrotic Syndrome	**Knowledge** Should know Glomerular nephritis presenting with nephrotic syndrome **Knowledge** Should know basic Investigations for nephrotic syndrome	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator	LGIS	MCQs SEQs
18	**Acute and chronic Renal failure**	Acute kidney injury 1) Classification of AKI 2) Acute Tubular Necrosis and Interstitial nephritis 3) Acute kidney Injury management CKD and Staging Common cause of CKD	**knowledge** Should memorize indications Renal replacement therapy & Haemodialysis **Skill** Epidemiology and path physiology Clinical features of CKD	C 2 – Scholar IC 1 – Professional IC 5 – Collaborator	LGIS	MCQs SEQs

		Renal replacement therapy & Haemodialysis	Investigations and management **Attitude:** • Follow proper dress code of a hospital. • Maintain his/her clinical instruments according to the prescribed SOPs. • Proper introduction and consent before taling and touching the patients	I.C 3 - Leader I.C 4 - Communicator		
20	**Urinary Tract Infection**	Introduction Common causes and Risk factor for UTIS Presenting complaints Investigation and management	**knowledge** Should Know causes of chest pain **Skill** Should know management of investigation of UTI	C 2 – Scholar IC 1 – Professional	LGIS	MCQs SEQs

General Surgery

S.No.	Topics/ Theme	Learning Outcomes	Learning Objectives/ Content	IC Codes	M.I.Ts	Assessment Tools
		By the end of this block, students should be able to:				
Principles Of Surgery						
1.	Body's Response To Trauma And Stress	Apply basic principles of surgery related to trauma and stress in dental practice.	**Knowledge** Demonstrate basic comprehension of the following with emphasis on clinical application: • 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 1 IC 2	LGIS	MCQs, SEQs. Viva Voce.
			Skill • Demonstrate avoidable factors that compound the metabolic response to injury.	IC 2 IC 4	Practical Demonstration	OSPE, SAQs, Viva Voce.
2.	**Shock, Pathology, Types, And Management**	Apply basic principles of surgery related to	**Knowledge** • Demonstrate basic comprehension of the	IC 2	LGIS	MCQs, SEQs. Viva Voce.

S.No.	Topics/ Theme	Learning Outcomes	Learning Objectives/ Content	IC Codes	M.I.Ts	Assessment Tools
		By the end of this block, students should be able to:				
		shock in dental practice.	<u>following with emphasis on clinical application:</u> • The pathophysiology of shock and ischaemia–reperfusion injury • The different patterns of shock and the principles • and priorities of resuscitation • Appropriate monitoring and end points of resuscitation			
			<u>Skill</u> • Justify the use of blood and blood products, the benefits, and risks of blood transfusion	IC 2 IC 4	Practical Demonstration	OSPE, SAQs, Viva Voce.
3	**Wound Healing & Its Complications**	Apply the knowledge of wound healing and its complications in dental practice.	<u>Demonstrate basic comprehension of the following with emphasis on clinical application:</u> • Normal healing and how it can be adversely affected • How to manage wounds of different types, of different structures and at different sites	IC 2 IC 3 IC 4	LGIS Student presentations Bedside Demonstration during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce

S.No.	Topics/ Theme	Learning Outcomes	Learning Objectives/ Content	IC Codes	M.I.Ts	Assessment Tools
		By the end of this block, students should be able to:				
			Skill • Aspects of disordered healing that lead to chronic wounds. • Identify the variety of scars and their treatment			
4	**Types Of Wound Closure**	Apply the knowledge of wound closure in dental practice.	• Demonstrate basic comprehension of the following with emphasis on clinical application: • The principles of skin and abdominal incisions • The principles of wound closure • The principles of drain usage • The factors that determine whether a wound will become infected	IC 1 IC 2 IC 3 IC 4	Large Class Format Interactive Session Student Presentations Bedside Demonstration	• MCQs • SAQs • Clinical Scenario-based Viva Voce
5	**Wound Infection / Surgical Site Infection**	Apply the knowledge of wound infection in dental practice.	• Demonstrate basic comprehension of the following with emphasis on clinical application: • The classification of sources of infection and their severity	IC 1 IC 2 IC 3 IC 4 IC 5	• LGIS • Student presentations • Bedside Demonstration during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce

S.No.	Topics/ Theme	Learning Outcomes	Learning Objectives/ Content	IC Codes	M.I.Ts	Assessment Tools
		By the end of this block, students should be able to:				
			• 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			
6.	**Cross Infection Control In The Clinical Environment**	Apply basic principles of cross-infection control in the clinical environment in dental practice.	• <u>Demonstrate basic comprehension of the following with emphasis on clinical application:</u> • What basic precautions to take to avoid surgically relevant hospital-acquired infections	IC 1 IC 2 IC 4	LGIS • Student presentations • Bedside Demonstration during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce
7.	**Blood Transfusion In Surgical Patients**	Apply the knowledge of basic principles of Blood transfusion in surgical patients in dental practice	• <u>Demonstrate basic comprehension of the following with emphasis on clinical application:</u>	IC 1, IC 2	• LGIS • Student presentations • Bedside Demonstration	• MCQs • SAQs • Clinical Scenario-based Viva Voce

S.No.	Topics/ Theme	Learning Outcomes	Learning Objectives/ Content	IC Codes	M.I.Ts	Assessment Tools
		By the end of this block, students should be able to:				
			• The concept of 'Transfusion Trigger.' • Use of blood and blood products, the benefits, and risks of blood transfusion		during clinical rotations / OR visits	
8	**Colloids And Crystalloids Used In Surgical Patients**	Apply the knowledge of basic principles of Blood transfusion in surgical patients in dental practice.	• <u>Demonstrate basic comprehension of the following with emphasis on clinical application:</u> • Fluid and electrolyte requirements in the pre, peri and postoperative patient	IC 1, IC 2	• LGIS • Student presentations • Bedside Demonstration during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce
9	**Common Fluid & Electrolyte Disorders In Surgical Patients**	Apply the knowledge of common fluid & electrolyte disorders in dental practice	• <u>Demonstrate basic comprehension of the following with emphasis on clinical application:</u> • Common clinical scenarios leading to hypo and hyper natremia in a surgical patient, their underlying pathophysiology and management • Common clinical scenarios leading to hypo and hyperkalaemia in a surgical	IC 1, IC 2	• LGIS • Student presentations • Bedside Demonstration during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce

S.No.	Topics/ Theme	Learning Outcomes	Learning Objectives/ Content	IC Codes	M.I.Ts	Assessment Tools
		By the end of this block, students should be able to:				
			patient, their underlying pathophysiology and management			
10	**Common Acid-Base Disorders In Surgical Patients**	Apply the knowledge of common acid-base disorders in dental practice	• Demonstrate basic comprehension of the following with emphasis on clinical application: • Definition, types and pathophysiology of acidosis and alkalosis • Common clinical scenarios leading to acidosis and alkalosis in a surgical patient, their underlying pathophysiology and management	IC 1, IC 2	• LGIS • Student presentations • Bedside Demonstration during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce
11	**Nutritional Management Of Surgical Patients**	Apply basic principles of nutritional management of the surgical patient in dental practice.	• Demonstrate basic comprehension of the following with emphasis on clinical application: • The causes and consequences of malnutrition in the surgical patient • How to detect malnutrition in a patient	IC 1, IC 2	• LGIS • Student presentations • Bedside Demonstration during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce

S.No.	Topics/ Theme	Learning Outcomes	Learning Objectives/ Content	IC Codes	M.I.Ts	Assessment Tools
		By the end of this block, students should be able to:				
			• The nutritional requirements of surgical patients in the pre, peri and post-operative period • The nutritional consequences of intestinal resection • The different methods of providing nutritional support to patients and their complications			
12	**Risk Assessment In Surgery**	Apply basic principles of pre-operative preparation of patients in dental practice.	• <u>Demonstrate basic comprehension of the following with emphasis on clinical application:</u> • 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	• LGIS • Student presentations • Bedside Demonstration during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce
13	**Preoperative Preparation Of Surgical Patients**	Apply basic principles of pre-operative preparation of	• <u>Demonstrate basic comprehension of the following with emphasis on clinical application:</u>	IC 1, IC 2	• LGIS • Student presentations	• MCQs • SAQs • Clinical Scenario-based Viva Voce

S.No.	Topics/ Theme	Learning Outcomes	Learning Objectives/ Content	IC Codes	M.I.Ts	Assessment Tools
		By the end of this block, students should be able to:				
		patients in dental practice	• Surgical, medical, and anaesthetic aspects of patient assessment • How to optimise the patient's condition before surgery • How to identify and optimise the patient at higher risk • How to take consent • How to organise an operating list		• Bedside Demonstration during clinical rotations / OR visits	
14	**Postoperative Care Of Surgical Patients**	Apply basic principles of post-operative care of patients in dental practice.	• <u>Demonstrate basic comprehension of the following with emphasis on clinical application:</u> • The system of postoperative care • How to recognise and treat common post-operative complications in the immediate postoperative period • The principles of enhanced recovery	IC 1, IC 2	• LGIS • Student presentations • Bedside Demonstrate during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce

S.No.	Topics/ Theme	Learning Outcomes	Learning Objectives/ Content	IC Codes	M.I.Ts	Assessment Tools
		By the end of this block, students should be able to:				
			• The system for discharging patients			
15	**Principles Of Minimal Access Surgery Application Of Invasive And Non-Invasive Diagnostic Modalities In Surgical Practice**	Discuss principles of laparoscopic and robotic surgery with a focus on its indications, advantages, and disadvantages	<u>Demonstrate:</u> • The principles of laparoscopic and robotic surgery • The advantages and disadvantages of such surgery • The safety issues and indications for laparoscopic and robotic surgery	IC 1, IC 2	• LGIS • Student presentations • Bedside Demonstration during clinical rotations / OR visits	• MCQs • SAQs • Clinical Scenario-based Viva Voce

PERIODONTOLOGY

Sr. No	Theme/ Topics	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
		By the end of the block, the student will be able to:				
1.	**Anatomy And Physiology Of Periodontium**	• Outline anatomic features and physiology of tooth structures • Discuss nerve and blood supply of each tooth	**Knowledge** • 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**	• Discuss gingival and periodontal diseases	**Knowledge** • Define gingival diseases • Define periodontal diseases • Tabulate gingival diseases • Tabulate periodontal diseases	IC 2	LGIS SGD	SAQs MCQs VIVA
3.	**Epidemiology Of Periodontal Disease**	Discuss instruments required for index calculation	**Knowledge** • Define indices, including: • Plaque index • Debris index • Gingival bleeding index • Sulcus index	IC 2	LGIS	SAQs MCQs VIVA

			• Periodontal index • Community periodontal index • Periodontal destructive index • Quote incidence and prevalence of periodontal diseases in the community and worldwide			
			Skill • Recognize epidemiological tools to assess periodontal conditions. • Select appropriate instruments for calculating indices	IC 4 IC 5	Demonstration	OSCE
4.	**Periodontal Microbiology**	• Discuss the various bacteria involved in periodontal pathogenesis	**Knowledge** • Describe the nature, composition and physiology of plaque biofilm and its relationship to inflammatory periodontal diseases • 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	IC 2	LGIS SGD	SEQs MCQs VIVA
5.	**Periodontal Pathogenesis – Gingival Inflammation**	• Discuss different types of gingival pathologies along	**Knowledge** • Describe gingival inflammation	IC 2	LGIS SGD	SAQs MCQs VIVA

		with their treatment modalities	• Describe histopathological features associated with gingival inflammation			
			Skill • 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**	• Discuss the effects of smoking on periodontium	**Knowledge** • Describe effects of smoking on the aetiology and pathogenesis of the periodontal disease • Explain the effect of smoking on periodontal therapies	IC 2	LGIS SDL	SAQs MCQs VIVA
8.	**Oral Malodour/ Halitosis**	• Discuss halitosis and its treatment options	**Knowledge** • Differentiate between various types of halitosis • Discuss the investigation methods with treatment options	IC 2	LGIS SGD	MCQ SAQ VIVA

3. 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	• 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	**Knowledge** • 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	• Discuss the steps of history taking • Describe the steps of general patient evaluation/examination, documentation, consent, and ethics	**Knowledge** • 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

			Skill • 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
			Attitude • 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	• Describe Aseptic Techniques • Define sterilization and disinfection	**Knowledge** • Describe various sterilization techniques and tests to ensure sterilization	IC 2	LGIS	Formative: Ward test/Students' Presentations

		• Differentiate between clean and sterile technique	• 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)			
4	Cross Infection Control	• Describe infectious pathogens (blood-borne), their transmission, prevention, and exposure • Apply universal precautions • Follow Protocols for Hepatitis B exposure and vaccine	**Skills** • 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	• Describe the significance of pain and anxiety management, pre-operative, intraoperative and postoperative • Implement the anxiety reduction protocol	**Knowledge** • Describe various anaesthetic techniques, local anaesthesia, general anaesthesia, sedation (nitrous oxide), and their application in OMFS	IC 2	LGIS	Formative: Ward test/Students' Presentations
			Skill • Describe various anaesthetic techniques, local anaesthesia, general anaesthesia, sedation	IC 1 IC 4 IC 5	Clinical rotation Demonstration	Formative Ward Test

			(nitrous oxide) and their application in OMFS			
6.	Local Anaesthesia	• 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 their effects in local anaesthesia	**Knowledge** • 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
7.	Local Anaesthesia Armamentarium	• Identify armamentarium for local anaesthesia in oral surgery	**Knowledge** • Identify different parts of the dental syringe and LA cartridge	IC 2	LGIS	Formative: Ward test/Students' Presentations
8.	Techniques For Administering Local Anaesthesia	• Identify anatomical landmarks and recall relevant anatomy • Enlist sensory innervation of jaws and individual teeth • Compare various techniques of inferior alveolar nerve block	**Skills** • 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	• Enlist and recognize possible complications of local anaesthesia injection and toxicity	**Knowledge** • Differentiate between local and systemic complications of LA and their management	IC 2	LGIS	Formative: Ward test/Students' Presentations
10.	Simple Exodontia	• 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	**Skills** • 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	• 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	**Knowledge** • Explain mechanical principles of elevators and forceps	IC 2	LGIS	Formative: Ward test/Students' Presentations
			Skills • 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:**BEHAVIOURAL SCIENCES**

Behavioral Sciences Learning Outcome– Block I

S. No.	Topics/Theme	Learning Outcomes	Learning Objectives	IC Codes	MIT	Assessment Tools
		By the end of this block, students of 3rd year will be able to:				

1.	1. Role of Psychology in Medical and Dental Practice 2. Psychosocial Aspects of Health and Disease	• Discuss human thought, behavior and interactions byhealth and disease situations influenced by psychological factors. • Identify the factors contributing towards a state of psychological and social well-being of human in clinical practice	**<u>Knowledge</u>** • Define psychosocial aspects of health and disease. • Identify factors contributing to psychological and social well-being in clinical practice. • Explain the significance of addressing psychosocial factors in clinical assessments and treatment plans. • Interpret case studies demonstrating the interplay between psychological well-being and physical health outcomes. • Identify common psychological defense mechanisms employed by human beings to cope with grief, bad news, and sick role in clinical practice • Compare and contrast the differences in thought patterns and behaviors between individuals experiencing health and disease situations. • Interpret case studies indicating the interplay between psychological well-being and physical health outcomes.	IC 2	LGIS Case Vignettes	MCQs SEQs/SAQs

2.	1. Psychosocial Aspects of Pain 2. Arousal, Sleep & Consciousness	• Integrate knowledge and skills of coping and treatment of pain in various situations. • Understand the complex interplayof brain and behavior.	**<u>Knowledge</u>** • Define pain, sleep, & consciousness. • Identify various factors influencing the experience of pain, including physiological, psychological, and social factors. • Describe the physiological mechanisms underlying sleep regulation and the importance of sleep for overall health. • Explain the complex interplay between the brain and behavior in relation to pain perception, sleep patterns, and consciousness.	IC 2	LGIS	MCQs SEQs/SAQs

BLOCK I SYLLABI

ORAL MEDICINE

Weeks	Topics	MIT	Instructor
Week 1	Intro To Oral Medicine / Terminologies	LGIS	Dr. Faiqa Hassan
Week 2	Principles Of Assessment & Management / Investigations	LGIS	Dr. Faiqa Hassan
Week 3	Principles Of Assessment & Management Diseases Of Lips	LGIS	Dr. Faiqa Hassan
Week 4	Diseases Of Tongue	LGIS	Dr. Faiqa Hassan
Week 5	Oral Pigmentations	LGIS	Dr. Faiqa Hassan
Week 7	Oral Carcinoma and Carcinogenesis Renal diseases	LGIS	Dr. Faiqa Hassan
Week 8	Oral Carcinoma and Carcinogenesis Blood Disorders Disorders of teeth	LGIS	Dr. Faiqa Hassan Dr Hamza Amanat
Week 9	Pre-cancerous lesions and conditions	LGIS	Dr. Faiqa Hassan

Week 10	Oral ulcerations	LGIS	Dr. Faiqa Hassan
Week 11	Inflammatory overgrowth, developmental and benign lesions	LGIS	Dr Hamza Amanat
Week 12	Glossopharyngeal neuralgia/Halitosis Burning mouth syndrome and Bacterial infections Headaches	LGIS	Dr. Faiqa Hassan
Week 13	Viral Infection Fungal Infection	LGIS	Dr Hamza Amanat

PRACTICAL SCHEDULE

Weeks	Topic	Demonstration Faculty Name	SGD Faculty Name
1 & 2	Orientation of department/ History taking	Dr Hamza Amanat	Dr Faiqa Hassan Dr Amna Khan
4 & 5	Examination of hard and soft tissues of the oral cavity (Tongue, mucosa, soft palate, hard palate, teeth, alveolar bone, lingual and pharyngeal tonsils	Dr Hamza Amanat	Dr Amna Khan Dr Faiqa Hassan
10 & 11	Examination of salivary glands	Dr Hamza Amanat	Dr Amna Khan Dr Faiqa Hassan
13 & 15	Examination of Cranial Nerves	Dr Amna Khan	Dr Hamza Amanat

ORAL PATHOLOGY

BLOCK I SYLLABI

Sr. No	Week Wise Distribution	Topics	MITs	Facilitator
1)	WEEK 1	Orientation of Oral Pathology & Developmental Disturbances of Oral Lesions	LGIS	Dr. Azka Haroon
2)	WEEK 2	Developmental Disturbances of Oral Lesions	LGIS	Dr. Azka Haroon
3)	WEEK 3	Developmental Disturbances of Oral Lesions/ **Class Test**	LGIS	Dr. Azka Haroon/ Dr. Rida/Dr. Ayesha
4)	WEEK 4	DENTAL CARIES & PERIAPICAL PATHOLOGY	LGIS	Dr. Rida Batool
5)	WEEK 5	DENTAL CARIES & PERIAPICAL PATHOLOGY/ **Class test**	LGIS	Dr. Ayesha Jabeen
6)	WEEK 6	Epithelial Pathology	LGIS	Dr. Azka Haroon
7)	WEEK 7	Epithelial Pathology	LGIS	Dr. Azka Haroon
8)	WEEK 8	Epithelial Pathology & Haematological Malignancies	LGIS	Dr. Azka Haroon
9)	WEEK 9	Haematological Malignancies & Cystic Lesions/ **Class test**	LGIS	Dr. Azka Haroon

10)	WEEK 11	Cystic Lesions	LGIS	Dr. Azka Haroon
11)	WEEK 12	Cystic Lesions	LGIS	Dr. Azka Haroon

PRACTICALS

S. No.	Week Wise Distribution	Topics	MIT	Facilitator
1)	WEEK 1	Orientation Of Oral Pathology Lab	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool
2)	WEEK 2	Tissue processing and staining	HIT Laboratory	Dr. Ayesha Jabeen, Dr. Rida Batool
3)	WEEK 3	Dental caries & Periapical pathology	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool
4)	WEEK 4	Dental caries & Periapical pathology	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool
5)	WEEK 5	Epithelial Pathology	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool
6)	WEEK 6	Epithelial Pathology	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool
7)	WEEK 7	Epithelial Pathology	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool
8)	WEEK 8	Epithelial Pathology	CBL	Dr. Ayesha Jabeen, Dr. Rida Batool, Dr. Azka Haroon
9)	WEEK 9	Haematological Malignancies	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool
10)	WEEK 10	Haematological Malignancies	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool

11)	WEEK 11	Cystic Lesions	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool
12)	WEEK 12	Cystic Lesions	SGD/Demonstration	Dr. Ayesha Jabeen, Dr. Rida Batool

PRACTICALS

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

GENERAL MEDICINE

BLOCK I (Lectures)

SR	week	TOPIC	Facilitator	MIT
1	1	**CHEST PAIN I** **CHEST PAIN II**	**Prof.Shahid**	**LGIS**
2	2	**Ischemic Heart Disease I** **Ischemic Heart Disease II**	**Prof.Shahid**	**LGIS**
3	3	**Hypertension I** **Hypertension II**	**Prof.Shahid**	**LGIS**
4	4	**Rheumatic fever I** **Rheumatic fever II**	**Prof.Shahid**	**LGIS**
5	5	**Heart Failure I** **Heart Failure II**	**Prof.Shahid**	**LGIS**
6	6	**Infective Endocarditis I** **Infective Endocarditis II**	**Prof.Shahid**	**LGIS**

7	7	**Anaemia Types Classification Presentations and Management** **MIcrocytic anemia**	**Prof.Shahid**	**LGIS**
8	8	**Macrocytic anaemia** **Haematological malignancies**	**Prof.Shahid**	**LGIS**
9	9	**Clotting Disorders ,Haemophilia,Von –Willibrand disease I** **Clotting Disorders ,Haemophilia,Von –Willibrand disease II**	**Prof.Shahid**	**LGIS**
10	10	**Bleeding Disorders ,ITP,DIC** **Urinary tract infection and its management**	**Prof.Shahid**	**LGIS**
11	11	**Nephrotic Syndrome I** **Nephrotic syndrome II**	**Prof.Shahid**	**LGIS**
12	12	**Acute Renal failure** **chronic Renal failure**	**Prof.Shahid**	**LGIS**

BLOCK I(CLINICAL THEORY)

Sr #	week	Topic/Clinical	facilitator	MIT
1	1	**S.G.D**(workup in case of chest pain) Introduction/Ward visit , medical etheics History Taking with Presenting complaints/Chest pain presenting complaints(demographic information)	DR Rehman Arshad	SGD Clinical methods
2	2	**S.G.D**(ECG Interpretations) History Taking with Presenting complaints/common presenting complaints of cardiovascular system	DR Rehman Arshad	SGD
3	3	**S.G.D**(HTN & its managment) How to check blood pressure History Taking with Presenting complaints/HPOI	DR Rehman Arshad	SGD
4	4	**S.G.D** (Juglar venous pressures) History taking with Demographic Information/Past medical and surgical history Importance of demographic Information	DR Rehman Arshad	SGD Clinical methods

5	5	**S.G.D**(IHD & ACS managements) History taking and CVS examination Steps in management of precordium	DR Rehman Arshad	SGD
6	6	**S.G.D Anemia workup and its management**) History taking (presenting complaints and chronological order) Common presentation of anemia and their history taking **P.B.L**(workup and management of a case of anemia)	DR Rehman Arshad	SGD Clinical methods P.B.L
7	7	**S.G.D** (How to interpret blood cp) Significant Past medical and past surgical history Examination (vitals signs and how to check vitals	DR Rehman Arshad	SGD Clincal methods
8	8	**S.G.D**(workup for Case of Rheumatic Fever History of Presenting illness(Common presenting complaints in cardiology) **Examination of precordium** (Heart valves, Murmurs ,Types)	DR Rehman Arshad	SGD Clinical methods
9	9	**S.G.D**(work up for bleeding and clotting disorder) Sysytemic Examination in case of anemia GPE findings of anemia(Kilonykia,Pallor)	DR Rehman Arshad	SGD

10	10	**S.G.D**(Blood clotting test interpretation) GPE and lymph nodes examination	DR Rehman Arshad	SGD
11	11	**S.G.D**(RFTs interpretation) History Taking with Presenting complaints/common presenting complaints of Renal disorder Systemic examination in case of CKD & nephrotic syndrome	DR Rehman Arshad	SGD Clinical examination
12	12	**S.G.D(**Approach to patient with CKD) History Taking with Presenting complaints/common presenting complaints of urinary tract History taking in CKD/ General physical examination finding in CKD	DR Rehman Arshad	SGD

Behavioural Sciences

Behavioral Sciences Lectures – Block I

Weeks	Topics/Theme	MIT	Instructor
Week 1	Neurological Basis of Behavior: Consciousness	LGIS	Ms. Amna Fayyaz
Week 2	Neurological Basis of Behavior: Altered States of Consciousness	LGIS	Ms. Amna Fayyaz
Week 3	Pain & its Psychosocial Aspects	LGIS	Ms. Amna Fayyaz
Week 4	Role of Psychology in Medical and Dental Practice	LGIS, Case vignettes	Ms. Amna Fayyaz
Week 5	Role of Psychology in Medical and Dental Practice	LGIS, Case vignettes	Ms. Amna Fayyaz
Sports Week			
Week 7	Role of Psychology in Medical and Dental Practice	LGIS, Case vignettes	Ms. Amna Fayyaz
Week 8	Role of Psychology in Medical and Dental Practice	LGIS, Case vignettes	Ms. Amna Fayyaz
Week 9	1. Medically Unexplained Physical Symptoms (MUPS) 2. Psychosocial Aspects of Health-I (Review)	LGIS, Case vignettes	Ms. Amna Fayyaz
Week 10	1. Psychosocial Aspects in Special Healthcare Settings (Review) 2. Gender Dysphoria	LGIS	Ms. Amna Fayyaz
Week 11	Gag Reflex; A Biopsychosocial Approach	LGIS, Case vignettes	Ms. Amna Fayyaz
Week 12	Psychosocial Assessment	LGIS	Ms. Amna Fayyaz

General Surgery

Sr. No.	Week	Topic Name	Faculty	MIT
		BLOCK I		
1.	1	Surgical Ethics	Prof Zafar	LGIS
2.	1	Patient Safety	Prof Zafar	LGIS
3.	1	Shock And Its Management	Prof Zafar	LGIS
4.	1 & 2	Shock And Its Management	Prof Zafar	LGIS
5.	2	Wound Healing and Tissue Repair	Prof Zafar	LGIS
6.	2	Blood Transfusion and Haemorrhage	Prof Zafar	LGIS
7.	2	Blood Transfusion and Haemorrhage	Prof Zafar	LGIS
8.	2 & 3	Nutrition And Fluid Therapy	Prof Zafar	LGIS
9.	3	History And Examination	Prof Zafar	LGIS
10.	3	Surgical Infection	Prof Zafar	LGIS
11.	3 & 4	Swelling Examination Video.	Prof Zafar	LGIS
12.	3 & 4	Ulcer Examination	Prof Zafar	LGIS
13.	4	Examination Of Neck Swelling and Cervical Lymph Nodes	Prof Zafar	LGIS
14.	4	Examination Of Thyroid and Neck Swelling, Cystic Hygroma.	Prof Zafar	LGIS
15.	4	Revision Of Topics	Prof Zafar	LGIS
16.	4 & 5	Tetanus, Gangrene and Necrotising fasciitis	Prof Zafar	LGIS
17.	5	Surgical Anastomosis - Part 1	Prof Zafar	LGIS
18.	5	Drains, Diathermy and Laparoscopic Surgery (Overview) - Part 2	Prof Zafar	LGIS
19.	5	Wound Healing and Tissue Repair	Prof Zafar	LGIS
20.	5	Blood Transfusion and Haemorrhage	Prof Zafar	LGIS
21.	6	Blood Transfusion and Haemorrhage	Prof Zafar	LGIS
22	6	Diagnostic Imaging	Prof Zafar	LGIS
23	6	Examination Videos - Revision	Prof Zafar	LGIS

Sr. No.	Week	Topic Name	Faculty	MIT
24.	7	Pre &Post Op Management of Surgical Patient Lecture Forwarded	Prof Zafar	LGIS
BLOCK I PRACTICALS				
1.	To be decided	Introduction to surgery	Dr Afshan	Practical/ SGD
2.	To be decided	History taking and examination	Dr Afshan	Practical/ SGD
3.	To be decided	Examination of swelling	Dr Afshan	Practical/ SGD
4.	To be decided	Case discussion regarding swelling	Dr Afshan	Practical/ SGD
5.	To be decided	Examination of ulcer	Dr Afshan	Practical/ SGD
6.	To be decided	Case discussion	Dr Afshan	Practical/ SGD
7.	To be decided	Discussion of chest x-rays of pneumothorax and case review	Dr Afshan	Practical/ SGD
8.	To be decided	Examination of thyroid	Dr Afshan	Practical/ SGD
9.	To be decided	Visit the emergency room and discussion of basic surgical procedures	Dr Afshan	Practical/ SGD
10.	To be decided	Case discussion regarding neck swellings	Dr Afshan	Practical/ SGD

Periodontology

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

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

PERIODONTOLOGY CLINICAL ROTATIONS

WEEKS	TOPIC	MITs	FACILITATOR	DSA
1st	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	Dr. Wajeeha Dr. Shahan Dr. Sohaib Dr. Izhar	Khawar Sohail Tayyaba
2nd	1. Instrument Grasps and stroking methods 2. Chair side Ethics and manners	Clinical rotation Demonstrations	Dr.Wajeeha Dr Sohaib Dr. Shahan Dr. Izhar	Khawar Sohail Tayyaba
3rd	1. Periodontal Examination 2. Identifying anatomy and features of healthy gingiva and diseased gingiva on patients	Clinical rotation Demonstrations	Dr. Wajeeha Dr. Shahan Dr. Sohaib Dr. Izhar	Khawar Sohail Tayyaba

4th	1. Clinical diagnosis of periodontal and gingival diseases of patients 2. Chemical and mechanical plaque control measures	Clinical rotation Demonstrations	Dr. Wajeeha Dr. Sohaib Dr. Shahan Dr. Izhar	Khawar Sohail Tayyaba
5th	1. Oral Hygiene Instructions and prescription writing 2. Treatment planning of patients with different types of periodontal diseases	Clinical rotation Demonstrations	Dr. Wajeeha Dr. Sohaib Dr. Shahan Dr. Izhar	Khawar Sohail Tayyaba
6th	1. Assessment and interpretation of OPG and periapical radiographs. 2. Detection and diagnosis of gingival recession and furcation involvement	Clinical rotation Demonstrations	Dr. Wajeeha Dr. Shahan Dr. Sohaib Dr. Izhar	Khawar Sohail Tayyaba
7th	1. Non-surgical Management of patients 2. Introduction to ultrasonic scaling (Equipment and Procedure) 3. Identifying periodontal surgery instruments	Clinical rotation Demonstrations	Dr. Wajeeha Dr. Shahan Dr. Sohaib Dr. Izhar	Khawar Sohail Tayyaba

8th	1. Ultra sonic scaling (equipment and procedure) 2. Medical emergencies	Clinical rotation Demonstrations		Khawar Sohail Tayyaba
9th	WARD EXIT EXAM		Dr. Wajeeha Dr. Shahan Dr. Sohaib Dr. Izhar	Khawar Sohail Tayyaba

Operative Dentistry

Area		TOPIC/ CAVITY DESIGN	INSTRUCTORs	DSA
1st Week				
Day 1	Operative department	Orientation + history taking	Dr Sharaz + Dr Yumna	Basharat
Day 2	Skill lab			
Day 3				
2nd Week				
Day 1	Skill lab	Class I maxillary & mandibular molar	Dr Sharaz + Dr Yumna	Basharat
Day 2				
Day 3	Operative department			
3rd Week				
Day 1	Operative department	Class I compound & class I maxillary & mandibular premolars	Dr Sharaz + Dr Yumna	Basharat
Day 2				
Day 3				
4th Week				
Day 1	Skill lab	Class II maxillary & mandible molars	Dr Sharaz + Dr Yumna	Basharat
Day 2	Operative department			
Day 3				
5th Week				
Day 1	Operative department	Class II premolars	Dr Sharaz + Dr Yumna	Basharat
Day 2				
Day 3				
6th Week				
Day 1	Skill lab	Class III + Class V	Dr Sharaz + Dr Yumna	Basharat
Day 2	Operative department			
Day 3				
7th Week				

Area		TOPIC/ CAVITY DESIGN	INSTRUCTORs	DSA
Day 1	Operative department	Class III + Class V	Dr Sharaz + Dr Yumna	Basharat
Day 2				
Day 3				
8th Week				
Day 1	Operative department	Endo on extracted single rooted tooth	Exam + Assessment	
Day 2				
Day 3			Viva	
9th Week + 10th Week				
Day 1	Operative department	EXIT EXAM	Dr Sharaz + Dr Yumna	Basharat
Day 2				
Day 3				

Prosthodontics

Clinical Demonstrations

Week	Practical	Demonstration	Small Group Discussion	DSA
1.	History taking	Dr. Aamir	Dr. Uzair, Dr. Sameen	Qasim
2.	Clinical examination	Dr. Uzair	Dr. Sameen, Dr. Aamir	Atif
3.	Tray selection/ impression making/ cast pouring	Dr. Uzair	Dr. Sameen, Dr. Amna	Imran Khan/ Qasim
4.	Designing and surveying	Dr. Aamir	Dr. Uzair, Dr. Sameen	Tahir Khan/ Atif
5.	Clasp fabrication	Dr. Uzair	Dr. Aamir, Dr. Sameen	Imran Khan/ Ifra
	Wax up	Dr. Uzair	Dr. Aamir, Dr. Sameen	Tahir Kazmi / Qasim
6.	Articulation	Dr. Aamir	Dr. Sameen, Dr. Amna	Imran Khan/ Atif
7.	Teeth setup	Dr. Uzair	Dr. Aamir, Dr. Sameen	Tahir Kazmi/ Ifra
8.	Flasking/ Curing	Dr. Uzair	Dr. Aamir, Dr. Sameen	Imran Khan/ Qasim
	Polishing Finishing/Insertion	Dr. Uzair	Dr. Aamir, Dr. Amna	Tahir Kazmi/ Atif
9.	Ward Test	Dr. Uzair	Dr. Aamir, Dr. Sameen	Tahir Kazmi/ Atif

Innovative Teaching Strategies

Group Presentations

In alignment with the institutional outcomes that expect graduating learners to be a collaborator and communicator, in accordance with the PMC guidelines, student's group presentations were planned and scheduled on the important topics during their clinical rotation. Each student clinical batch will be divided in groups and presentations will be given on the topics assigned by the clinical faculty and will be assessed according to scoring guide. The clinical case based and the history taking and examination approach to the patients will be assessed during their clinical and end of rotation assessment accordingly.

CASE BASED LEARNING SESSIONS

Conducted by Periodontology, Oral Medicine, General Medicine, General Surgery, Oral Pathology

Case based learning sessions were held in which students were taught about the history taking, clinical of presentation and examination along with relevant investigations. Students are taught regarding planning of management of ongoing case under discussion.

Learning Resources

ORAL PATHOLOGY

Textbook

1. Contemporary Oral and Maxillofacial Pathology (3rd edition)

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

Reference Books

1. 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 Correlations

Authors: J. Regazi, James Sciubba, Richard Jordan.

ORAL MEDICINE

1. Tyldesley's Oral Medicine, 5th Edition, by Anne Field & Lesley Longman.
2. Oral and Maxillofacial Medicine, the Basis of Diagnosis and Treatment, 2nd Edition, By Crispian Scully.
3. Medical Problems in Dentistry, 6th Edition, by Crispian Scully.

PERIODONTOLOGY

1. Clinical Periodontology by Glickman.
2. Clinical Periodontology by Manson.
3. Colour Atlas of Clinical and Surgical Periodontology by Strahan & Waite.
4. A Textbook of Clinical Periodontology by Jan Lindhe.

ORAL & MAXILLOFACIAL SURGERY

1. Contemporary Oral and Maxillofacial Surgery, 7th edition, James R. Hupp.
2. Handbook of Local Anaesthesia, 7th edition, Stanley F. Malamed.
3. Fractures of the Facial Skeleton, 2nd edition, Peter Banks.
4. Scully's Medical Problems in Dentistry, 7th edition, Crispian Scully.

General Medicine

TEXTBOOKS:

1. Davidson's Principles and Practice of Medicine 24th edition

REFERENCE BOOKS:

1. KUMAR AND Clarks Clinical Medicine 10th edition

2. Harrison 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