DENTAL COLLEGE HITEC-IMS

Study Guide Y2 – B2 - D24

2nd Year BDS

Block 2

Coordinator: Dr. Shahreen Zahid


Blessed are they who hold lively conversations with the helplessly mute, for they shall be called dentists.
— Ann Landers —
AZ QUOTES

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LIST OF ABBREVIATIONS

- PMDC Pakistan Medical & Dental Council
- NUMS National University of Medical Sciences
- LGIS Large Group Interactive Session
- SGD Small Group Discussion
- SDL Self-Directed Learning
- CBL Case Base Learning
- LGIF Large Group Instructional Format
- MIT Mode of Information Transfer
- EOB End of Block Examination
- TOS Table of Specification
- OSPE Objectively Structured Practical Examination
- OSCE Objectively Structured Clinical Examination
- SEQ Structured Essay Questions
- SAQ Short Answer Question
- MCQ Multiple Choice Question
- ANS Automatic Nervous System
- GIT Gastrointestinal Tract
- EECS Early Exposure to Clinical Skills
- FGD Focus Group Discussion
- WFME World Federation of Medical Education

2 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.

3 INSTITUTIONAL VISION

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

4

5 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

6 BLOCK COMMITTEE

Coordinator, Chair Block Curriculum Committee: **Associate Professor Dr. Shahreen Zahid Khan**

Head of Department, Dental Materials. Contact No: 0333-4341988

S. No.	Name	Designation	Departments	Contact Number
1.	**Dr Rai Tariq**	Professor	Community Dentistry	0333-5718658
3.	**Dr Shahreen Zahid**	Associate Professor	Dental Materials	0333-4341988
4.	**Dr Shazana Rana**	Associate Professor	Pharmacology	0332-5272131
5.	**Dr Sadia Israr**	Assistant Professor	General Pathology	0320-5079151
6.	**Dr Sharaz Ahmed**	Assistant Professor	Preclinical Operative	0335-5067704
7.	**Dr Sameen Zahra**	Assistant Professor	Preclinical Prosthodontics	0333-5641998
8.	**Dr Faizan Munir**	Assistant Professor	Dental Education	0334-0031031
9.	**Miss Amna Fayyaz**	Lecturer	Behavioural Sciences	0343-0701997
10.	**Maryam Zia**	Student	GR, 3rd Year	0333-5482253
11.	**Muhammad Haseeb**	Student	CR, 3rd Year	0316-4840201

- CURRICULUM OVERVIEW/IMPLEMENTATION

Preface

The curriculum meets the standards of the Pakistan Medical & dental council, the Higher Education Commission of Pakistan, and the World Federation of Medical Education. Therefore, upon completing the program, our students have the required competencies defined worldwide in a graduate doctor.

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., it's 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 a horizontal organization and vertically across the four years of BDS program. The course of the second year is divided into three blocks. In each block, the sequencing of the content is logical and integrated.

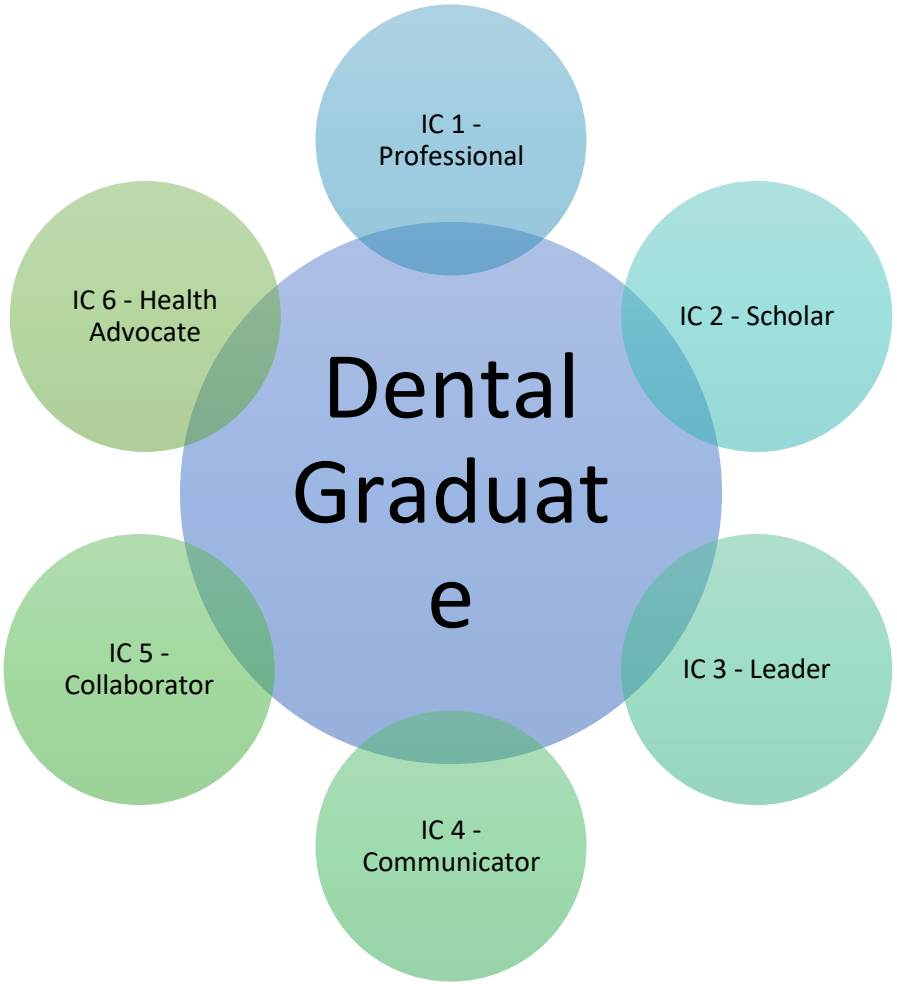
Teaching Strategies

Multiple teaching strategies are used. LGIS are used to provoke thought, understanding and to standardise the delivery of the concept. It helps them to understand the general theme or subject matter, updated research, and best evidence medical 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 laboratories provides experiential and hands-on learning.

Assessment

The summative assessment includes end block and pre-annual examination. Formative assessment is based on assignments, presentations, flipped classroom, journal clubs, quizzes, and class tests. After the block exams and the end of the academic year, a pre-annual examination will be conducted according to the standards outlined by NUMS.

1. INSTITUTIONAL COMPETENCY FRAMEWORK



2. ALIGNMENT OF BLOCK OUTCOMES WITH INSTITUTIONAL COMPETENCIES

S. No.	Block Outcomes	Institutional Competencies
1.	Correlate the management of general pathological and community based diseases in subsequent years of training and practice	IC 1 to IC 6
2.	Correlate the basic properties of auxiliary and restorative materials with their application in the laboratory and relevant clinical conditions in a spiral manner	IC 1, IC 2, IC 6
3.	Explain the use of instruments in restorative work with specific relevance to caries	IC 1 to IC 6
4.	Integrate the fundamental concepts of sociology, anthropology and psychology with ethical, medical and dental practice considerations	IC 1 to IC 6
5.	Apply a constructivist approach to developing academic writing skills along with biostatistics	IC 1, IC 2, IC 4

3. ACADEMIC CALENDAR

Commencement of Classes – 29th January 2024			
BLOCK - 1 (11+1=12 WEEKS)			
(29th January 2024 to 26th April 2024)			
Activity	**Duration**	**From**	**To**
Academics	11weeks	29th January 2024	26th April 2024
Sports Week	01 week	26th Feb 2024	4th March 2024
Block Assessment	01 week	29th April 2024	6th May 2024
Eid ul Fitr	1 week	8th April 2024	12th April 2024
Block - 2 (11+1=12 Weeks)			
(8th May 2024 to 16th August 2024)			
Academics	11 weeks	8th May 2024	15th August 2024
Eid-Ul Azha+ Summer Vacations	04 weeks	17th June 2024	15th July 2024
Block Assessment	01 week	16th August 2024	23rd August 2024
Block - 3 (12+2=14 Weeks)			
(27th August 2024 to 15th November 2024)			
Academics	12 weeks	27th August 2024	15th November 2024
Send-Up	02 weeks	18th November 2024	29th November 2024
Pre-Prof Leave	4 weeks	30th November 2024	30th Dec 2024
2nd Professional Exam (Tentative)	31st of December 2024		

4. SAMPLE TIMETABLE

Day	8:30-9:20	9:20-10:15	10:15-11:05	11:05-11:20	11:20-12:10	12:10-1:00	1:00-1:30	1:30-2:30	2:30-3:30
Monday	**Community dentistry-A / Dental material-B**		**Pharmacology**	Break	**Dental Materials Integrated**	**Community Dentistry**		**Pharmacology**	
	Practical		LGIS		LGIS	LGIS		Tutorial	
	A-(Topic)								
	B-(Topic)								
Tuesday	**Community dentistry-B / Dental materials-A**		**Pathology**		**Dental Materials**	**Community Dentistry**		**Pathology**	
	Practical		LGIS		LGIS	LGIS		Tutorial/SGD	
	B-(Topic)								
	A-(Topic)								
Wednesday	**Pre clinical operativeB/Prosthodontics A integrated with DM**		**Pharmacology**		**Pathology**	**Community Dentistry**		**Community dentistry**	
	Skill lab		LGIS		LGIS	LGIS		SGD/Tutorial	
	A								
	B								
Thursday	**Dental material**		**Pharmacology**		**DM/Mentoring session**	**Pathology**		**PathologyA/PharmacologyB**	
	Tutorial/SGD		LGIS			LGIS		Practical/SGD	
								A	
								B	
Friday	**Jr Operative-A/ Jr Prosthodontics-B Integrated DM**		**Pre operative**		**Pre prosthetics**	**Behavioural sciences**		**PathologyB/Pharmacology A**	
	Skill Lab		LGIS		LGIS	LGIS		Practical /SGD	
	B-(Topic)							A	
	A-(Topic)							B	

Dr Shahreen Zahid Khan	Dr Shazana	Dr Amir	Dr. Sharaz	Dr. Sadia	Dr Rai Tariq	Dr Irfan Shah
Coordinator 2nd Year BDS & HoD Dental Materials	**HoD Pharmacology**	**HoD Prosthodontics**	**Pre-clinical Operative**	**HoD Pathology**	**Vice Principal & HoD Community Dent**	**Principal**

● ASSESSMENT

Types and Schedules

Assessment is continuous via class tests, quizzes, and assignments by the department. Continuous assessment is separate from the block exam at the end of 13 weeks of instruction. The purpose of continuous assessment is formative and summative.

Formative assessment tests may be surprise tests/written assignments/self–reflection and presentations and feedback to the students during the teaching time. The purpose of formative assessment is to provide feedback to the students for improvement and for teachers to identify areas where students need further guidance.

From the 2nd week onwards, the class tests of Community Dentistry, Pharmacology, Dental Materials, Preclinical subjects, and General Pathology will be held on a rotation basis, respectively. Finally, the 13th week will be dedicated to end-of-block (EOB) exams. Above mentioned assessment tools will form part of continuous summative assessment and, along with pre-annual exams, will contribute to marks in internal assessment to be submitted to the university.

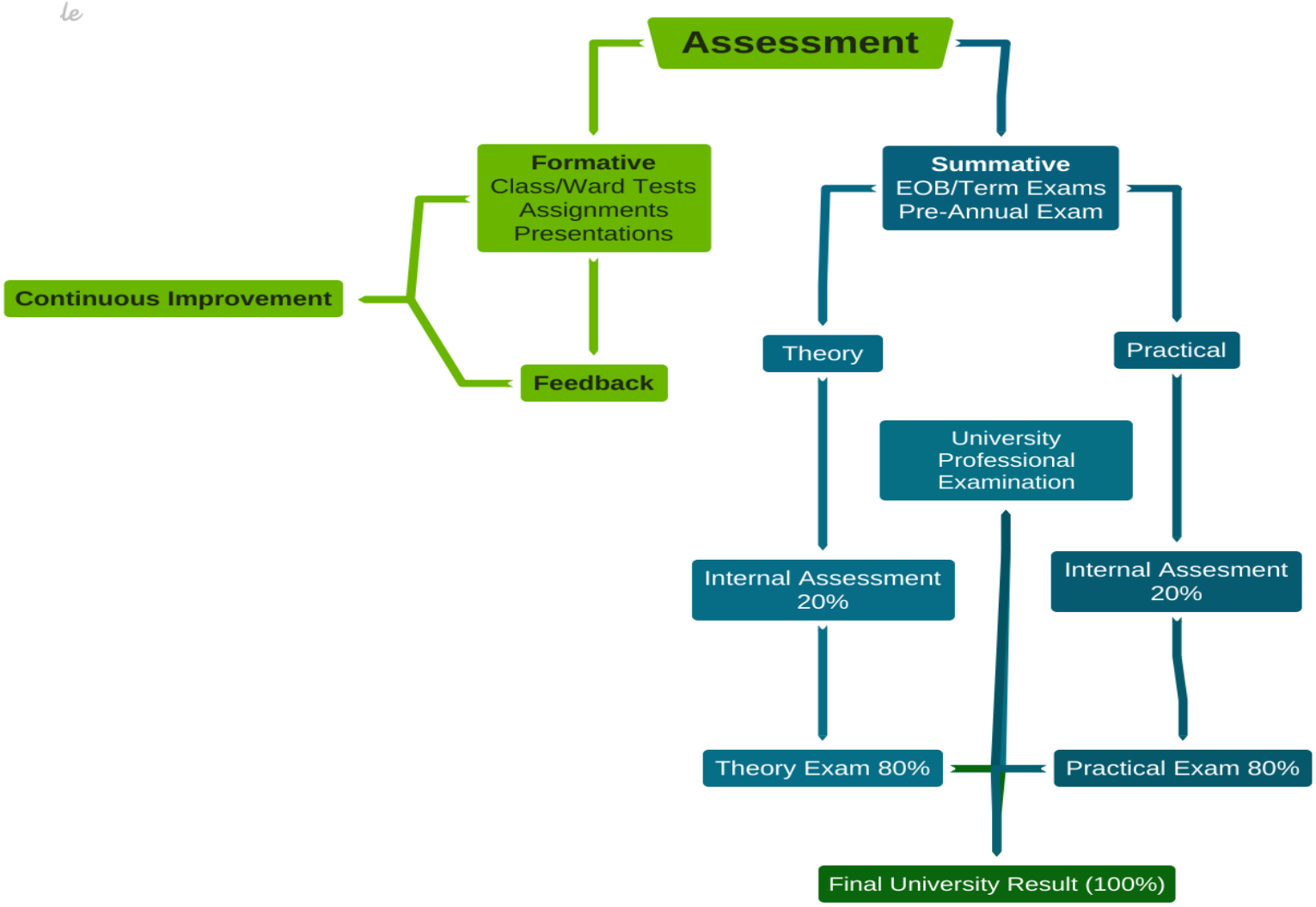
Students must secure 50% marks in exams, as per university criteria.

The students who fail in the end of the block exam will be allowed to attend the next block; however, their internal assessment will be affected accordingly.

Internal assessment criteria for submission of internal assessment marks of Second Professional Examination NUMS:

1. The weightage of internal assessment shall be 20 marks for a 100 marks paper (20%) in the annual examination.
2. Class tests, end-of-block examinations, and pre-annual examination shall contribute to internal assessment.

5. ASSESSMENT MAP



BLOCK – II

MANAGEMENT OF CARIOLOGY AND MEDICAL PATHOLOGIES II

1. STRUCTURED SUMMARY - BLOCK II

Block Code	**Y2-B2-D24**
Block Title	Management of Cariology & Medical Pathologies II
Duration Of Block	12 weeks(11+1)
Important Dates	8th May 2024 to 23rd August 2024
Horizontally Integrated Themes	General Pathologies and Management II Community Diseases and Prevention II Cariology and Management II
Vertically Integrated Themes	Preclinical Operative Dentistry Preclinical Prosthodontics Research Methodology Communication Skills
Prerequisite Blocks	All 1st Year Blocks and 2nd Year Block 1

2. TENTATIVE CLASS TESTS SCHEDULE[1]

DATE	SUBJECT	DAY
20-5-24	Community Dentistry	Monday
23-5-24	Dental Materials	Thursday
27-5-24	Pharmacology	Monday
30-5-24	General Pathology	Thursday
3-6-24	Preclinical Operative dentistry and prosthodontics	Monday

DATE	SUBJECT	DAY
10-6-24	Community Dentistry	Thursday
13-6-24	Dental Materials	Monday
22-7-24	Pharmacology	Thursday
25-7-24	General Pathology	Monday
29-7-24	Preclinical Operative dentistry and prosthodontics	Thursday

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

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3. END OF BLOCK 2 (EOB) EXAM TENTATIVE SCHEDULE[2]

Dates	Subject
16 August 2024	Dental Materials
19 August 2024	Pharmacology
20 August 2024	Pre clinicals
21 August 2024	Community Dentistry
23 August 2024	General Pathology

[2] This is a tentative schedule. Therefore, it is subject to change.

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- **LEARNING OUTCOMES FOR BLOCK II**

1. DENTAL MATERIALS

S. No	Topics/ Theme	Learning Outcomes	Learning Objectives	IC Code	MIT	Assessment Tools
1	Pit and fissure Sealants, Dentifrices and Fluoride agents	At the end of the block, the students will be able to: ● Review preventive materials in detail	At the end of the block, the students will be able to: **Knowledge** ● Describe types and composition of pits and fissure sealants ● Describe their clinical applications ● Describe the types, composition and purpose of dentifrices and mouthwashes ● Describe different types of fluoride agents, their mode of action and application	IC 2 IC 4	LGIS	MCQs SAQs Viva
			Skill ● Illustrate the manipulation and clinical application of pit and fissure sealants ● Identify the pits and fissure sealants, fluoride agents, dentifrices	IC 4 IC 5	Practical Demonstration	OSPE
2	Impression Materials	● Identify ideal properties of impression materials ● Classify impression materials based on	**Knowledge** ● Describe the significance of impression and impression materials in dentistry	IC 2	LGIS	MCQs SAQs Viva

		○ Mechanical Properties ○ Viscosity ○ Elastic properties and non-elastic behaviour ○ Setting Reaction ● Identify the composition of various impression materials ● Demonstrate sound knowledge of each impression material and their properties ● Manipulate the variables of Impression materials ● Classify Non-elastic Impression Materials ○ Impression Compound ○ Impression Plaster ○ Zinc-Oxide Eugenol Paste ○ Impression Waxes ● Classify Elastic Impression Materials ○ Reversible & Irreversible Hydrocolloids ○ Non-aqueous Elastomers	● Discuss general requirements for an ideal impression material ● Describe the properties and clinical application of different types of impression materials and compare them			
			<u>Skill</u> ● Demonstrate proper techniques used for mixing, handling and perform manipulation of impression material (Zinc Oxide Eugenol) ● Demonstrate proper techniques used for mixing, handling and perform manipulation of impression materials (Alginate)	IC 1 IC 4 IC 5	Practical Demonstration	OSPE
3	Gypsum Products for Dental Casts	● Classify Gypsum products	**<u>Knowledge</u>**	IC 2	LGIS	MCQs SEQs Viva

		● Explain composition, setting characteristics and uses of gypsum Products	● Describe the properties, types, uses and manipulation of gypsum products ● Describe the method of manufacturing and properties of gypsum products used in dentistry ● Describe the setting reactions of different types of dental gypsum products ● Describe the manipulation factors that affect the setting time and physical and mechanical properties of gypsum products ● Describe the methods used for the disinfection of dental gypsum models and study casts ● Demonstrate the proper mixing technique of dental gypsum used for preparing study models and casts			
			<u>Skill</u> ● Demonstrate the manipulation of Gypsum ● Perform the fabrication of plaster slab	IC 4 IC 5	Practical Demonstration	OSPE
4	Waxes	● Describe classification, properties, and uses of Dental Waxes	**<u>Knowledge</u>** ● Classify waxes used in dentistry	IC 2	LGIS	MCQs SEQs Viva

		● Explain applications of waxes in dentistry	● Describe composition, properties of different types of dental waxes ● Describe applications of different types of dental waxes			
			Skill ● Fabricate wax pattern for acrylic partial dentures ● Identify the types of waxes available in dental laboratory	IC 4 IC 5	Practical Demonstration	OSPE
			Attitude ● Discuss Lab safety protocol ● Discuss possible laboratory hazards linked to burners	IC 1	Practical Demonstration	OSPE
5	Denture Base Acrylic resins	● Describe physical, chemical, and mechanical properties of denture base polymers ● Classify of acrylic denture base materials ● Describe the composition of acrylic denture base materials ● Describe the processing of Heat and Chemically activated resins ● Compare compression moulding technique and injection moulding	**Knowledge** ● Describe the definition of denture base material ● Describe the ideal properties and types of denture base materials ● Describe the chemical composition of denture base materials ● Describe the properties of denture base materials ● Describe the procedures involved in fabrication of denture base materials ● Discuss clinical application, manipulation, processing, and care of dentures for	IC 2 IC 4	LGIS	MCQs SEQs Viva

		technique for complete denture processing ● Compare heat activated and chemically activated acrylic resins ● Describe the defects during denture processing ● Enlist repair materials for dentures	laboratory processed prosthetic resins ● Describe biocompatibility issues associated with denture base materials ● Describe various methods of polymerization of denture base materials			
			Skill ● Manipulate acrylic (polymer and liquid) and identify the physical changes taking place during the mixing and setting of polymers ● Demonstrate the mixing of heat cure acrylic resin ● Demonstrate the steps of acrylic denture fabrication ● Compare heat and self-cure acrylic resin	IC 4 IC 5	Practical Demonstration	OSPE
6	Denture Relining and Rebasing Materials, Tissue Conditioners, Separating Media	● Classify the relining, tissue conditioners and rebasing materials ● Describe the composition, properties and manipulative characteristics of relining and rebasing materials	**Knowledge** ● Describe the relining and rebasing procedures for dentures ● Describe the various types of relining and rebasing dental materials ● Describe the manipulation and properties of relining and rebasing materials ● Describe the biocompatibility issues associated with	IC 2	LGIS	MCQs SEQs Viva

			relining and rebasing materials ● Describe the definition of tissue conditioners ● Describe various types of tissue conditioners used in dentistry ● Describe and discuss the properties of various tissue conditioners used in dentistry ● Describe the steps of clinical manipulation of tissue conditioners ● Describe the rationale behind the use of separating media in dentistry ● Discuss the various types of separating media used in dentistry including their composition, mechanism of action and properties ● Demonstrate the techniques for application of separating media ● Discuss the rationale behind the use of separating media in dentistry ● Describe the various types of separating media used in dentistry including their composition, mechanism of action and properties			

			● Demonstrate the techniques for application of separating media			
			Skill ● Perform manipulation of acrylic (polymer and liquid) and identify the stages involved ● Demonstrate the steps involved in manipulation of separating media	IC 2 IC 4 IC 5	Practical Demonstration	OSPE
7	Metals and Alloys	● Outline structure and properties of metals and alloys ● Differentiate between cooling curves of metals alloys ● Describe the importance of grain boundary and Grain Refining ● Identify traditional gold alloys ● Recall the properties of gold alloys used in dentistry ● Enlist gold alloys employed in various prosthesis ● Describe the composition of Co/Cr and Ni/Cr ● Summarize the properties of base metal alloys ● Compare base metal alloys with casting gold alloys ● Discuss the biocompatibility of base metal alloys	**Knowledge** ● Recall the basic concept related to processing and solidification of dental alloys ● Recall the different types of metals and alloys used in fabrication of dental prosthesis ● Discuss the types of metals and clinical applications of high noble and noble metal alloys ● Describe the types, processing, and clinical applications of base metal alloys ● Describe the types, processing, and clinical applications of wrought metal alloys ● Describe the types, processing, and clinical	IC 2 IC 4	LGIS	MCQs SEQs Viva

		● Discuss the role of base metal casting alloys in dentistry	applications of stainless steel in dentistry ● Describe the types, processing and clinical applications of titanium and its alloys in dentistry ● Describe the properties and composition of various orthodontic wires ● Describe the casting procedures for metal alloys			
			<u>Skill</u> ● Draw the alloy-phase diagrams ● Identify metals (clasps and connectors) ● Identify the differences between NiTi and SS wires	IC 2 IC 4	Practical Demonstration	OSPE
8	Soldering & Welding	● Summarize the microstructure, composition, properties, and clinical applications of wrought alloys ● Describe the following in detail ○ Heat treatments ○ Cold Working ○ Soldering and brazing ○ Stress relief annealing ○ Shaping of metals and alloys	**<u>Knowledge</u>** ● Describe the objectives and uses of soldering and welding in dentistry ● Describe the differences between soldering, brazing, and welding ● Identify the components of dental solders and welders ● Describe the different heat sources for soldering and welding ● Describe welding and its types	IC 2	LGIS	MCQs SEQs Viva

9	Investments and Refractory materials	● Define the refractory materials ● Describe the different types of investment materials ● Discuss the requirements of investment materials ● Describe the following aspects of all types of investment materials: ○ Composition and properties ○ Refractory material and its properties ○ Setting reaction and reactions during casting ○ Ways to compensate for setting contraction	**<u>Knowledge</u>** ● Describe investment materials used in dentistry ● Different types of investment materials used in dentistry ● Describe the composition, setting reaction and properties of gypsum bonded investment ● Describe the composition, setting reaction and properties of silica bonded investment and Phosphate bonded investments ● Describe the properties and clinical applications of different types of investments ● Describe the steps and methods involved in casting procedures ● Summarize the ways to compensate for shrinkage during casting process ● Discuss the defects which may occur during casting	IC 2	LGIS	MCQs SEQs Viva
			<u>Skill</u> ● Identify casting defects	IC 2	Practical Demonstration	OSPE
10	Ceramics	● Classify dental ceramics ● Compare Dental Porcelain based on	**<u>Knowledge</u>**	IC 1 IC 2 IC 4	LGIS	MCQs SEQs Viva

		○ Composition ○ Processing of Porcelain Fused to metal prosthesis ● Interpret All-Ceramic Prosthesis ○ Sintering ○ Casting and Slip Casting ○ Hot Pressing ○ CAD/CAM ○ Properties of Dental Ceramics ○ Toughening mechanism of Dental Ceramics	● Describe the basic chemistry and composition of ceramics and their classification ● Discuss the general procedures involved in fabrication of dental ceramics ● Discuss the procedures of ceramic bonding ● Describe the methods of strengthening ceramics.	IC 6		
			Skill ● Identify different materials used in ceramic Laboratory ● Identify the steps in construction of a PFM crown in a ceramic workshop ● Perform the procedure of ceramic bonding	IC 1 IC 4 IC 5	Practical Demonstration	OSPE
11	PFM Casting and Cementing Crowns	● Enumerate the steps of investment and basic casting ● Describe the factors which effect the final cast ● Explain compensation for Shrinkage during casting process ● Interpret the defects of casting	**Knowledge** ● Identify the procedure of casting ● Identify the defects which may occur	IC 2 IC 4 IC 6	LGIS	MCQs SEQs Viva
			Skill ● Identify the steps of fabrication of porcelain fused to metal crown	IC 2 IC 4 IC 5	Practical Demonstration	OSPE

2. COMMUNITY DENTISTRY

S. No	Content/ Topic	Learning Outcomes	Learning Objectives	IC Code	MITs	Assessment Tools
1	**Prevention**	At the end of this block students will be able to: Demonstrate knowledge of different levels of prevention	At the end of this block students will be able to: **Knowledge** ● Define prevention ● Identify levels of prevention ● Identify Plaque control methods ● Describe Mechanical and chemical plaque control	IC 2	LGIS SGD	MCQs SEQs Viva
2	**Screening**	Outline basic concepts of screening	**Knowledge** ● Define Screening ● Identify aims and objectives ● Enlist basic screening test ● Describe types of screening ● Discuss the criteria used for screening	IC 2 IC 6	LGIS SGD	MCQs SEQs Viva
3	**Prevention of Dental Caries Plaque Disclosing Agents**	Demonstrate knowledge of prevention of oral diseases Demonstrate the knowledge and skill related to plaque disclosing agents	**Knowledge** ● Define caries ● Define plaque and its contents ● Define plaque disclosing agents ● Describe purpose & Types of disclosing agents ● Describe the methods of plaque disclosing agents' application	IC 2	LGIS SGD	MCQs SEQs Viva
			Skill Demonstrate the application of plaque disclosing agents	IC 2	Virtual Audio/ Video demonstration	OSPE

4	**Pit and Fissure Sealants**	Demonstrate knowledge and skill related to pits and fissure sealants	**Knowledge** ● Define pits and fissure sealants ● Enlist advantages of pits and fissure sealants ● Describe Indication and contraindications	IC 2 IC 6	LGIS SGD	MCQs SEQs Viva
			Skill ● Demonstrate the application of pit and fissure sealants	IC 2 IC 6	Virtual Audio/ Video demonstration	OSPE
5	**Caries Activity Test**	Demonstrate knowledge and skill related to caries activity test	**Knowledge** ● Describe caries activity test ● Outline indications, advantages of caries test ● Describe types of caries test & procedure to carry out test	IC 2	LGIS SGD	MCQs SEQs Viva
6	**Atraumatic Restorative Dentistry**	Enumerate the knowledge of ART	**Knowledge** ● Define ART ● Describe history & rationale of ART ● Outline principles of using ART, indications, and contraindications ● Enlist instruments, essential material & working requirements ● Describe survival/success rate	IC 2	LGIS SGD	MCQs SEQs Viva
			Skill ● Identify the instruments of ART ● Perform the procedure of ART	IC 2	Audio/ Video Demonstration	OSPE

7	**Prevention of Periodontal Disease**	Demonstrate knowledge of prevention of oral diseases	**Knowledge** ● Define different levels of prevention ● Discuss prevention of periodontal disease at different levels	IC1 IC 2	LGIS SGD	MCQs SEQs Viva
8	**Tooth Brushing Techniques**	Demonstrate the knowledge and Skill related to tooth brushing techniques	**Skill** ● Demonstrate the tooth brushing techniques on models: • Bass technique • Stillman's technique • Charter technique	IC 1	Demonstration	OSPE
9	**Prevention of Oral Cancer**	Demonstrate knowledge of prevention of oral diseases	**Knowledge** ● Define different levels of prevention ● Discuss prevention of oral cancer at different levels	IC 2	LGIS SGD	MCQs SEQs Viva
10	**Prevention of Wasting Disease of Teeth**	Demonstrate knowledge of prevention of oral diseases	**Knowledge** ● Describe how to prevent wasting diseases of teeth at different levels	IC 2	LGIS SGD	MCQs SEQs Viva
11	**Flossing Techniques**	Demonstrate knowledge and skill related to flossing technique	**Skill** ● Demonstrate different techniques of flossing	IC 2	Virtual Audio/ Video demonstration	OSPE

12	**Fluorides in Dentistry**	Outline the role of fluorides in dentistry	**<u>Knowledge</u>** ● Outline the historical background of fluoride in relation to dentistry ● Describe the metabolism of fluoride ● Describe the mechanism of actions of fluoride ● Discuss the methods of introducing fluoride to prevent dental caries ● Describe modes of administration of fluorides	IC 2 IC 6	LGIS SGD	MCQs SEQs Viva
13	**Systemic and Topical Fluorides**	Outline the role of fluorides in dentistry	**<u>Knowledge</u>** ● Differentiate the methods of systemic delivery with their advantages and disadvantages ● Define required amount of fluoride ● Describe reasons for fluoride rejection ● Define topical fluorides ● List indications for topical fluoride use ● Describe different topical fluoride vehicles	IC 2 IC 6	LGIS SGD	MCQs SEQs Viva
14	**Fluoride Toxicity**	Demonstrate the knowledge and skill related to fluoride toxicity	**<u>Knowledge</u>** ● Define de-fluoridation ● Describe the different methods of de fluoridation, advantages, and disadvantages of each method ● Define the term fluoride toxicity ● Describe the types of fluoride toxicity ● Define lethal dose of fluoride	IC 2	LGIS SGD	MCQs SEQs Viva

			• Describe management of fluoride toxicity			
15	**Topical Fluorides**	Demonstrate the knowledge and skill related to topical fluorides	**Skill** • Demonstrate the method of application of fluorides	IC 2	Virtual Audio/ Video Demonstration	OSPE
16	**Occupational Hazards in Dentistry**	Outline the knowledge of occupational hazards in dentistry	**Knowledge** • Define occupational hazards • Classify different hazards • Identify hazards related to profession of dentistry • Describe the methods of prevention of occupational hazards	IC 2 IC 6	LGIS SGD	MCQs SEQs Viva
17	**Nutrition and Health**	Demonstrate the knowledge related to health and nutrition	**Knowledge** • Define diet & nutrition • Enlist basic nutrients • Describe daily requirement of different nutrients • Identify deficiencies associated with different nutrients • Identify major nutritional problems in public health • Define balanced diet • Describe food pyramid and daily portion requirement	IC 2 IC 6	LGIS SGD	MCQs SEQs Viva
18	**Oral Hygiene Instructions**	Demonstrate the knowledge and skill related to oral hygiene instructions	**Attitude** • Counsel a high-risk patient for caries prevention • Counsel a high-risk patient for periodontal disease prevention	IC 4 IC 6	Virtual Audio/ Video Demonstration	OSPE

			● Guide expecting mothers regarding their oral hygiene			
19	**Environment and Health**	Explain the concepts related to environmental health	**<u>Knowledge</u>** ● Define environmental health ● Describe sources, purification and hardness of water ● Identify health aspects of solid waste, sources of solid waste, Different methods of waste disposal ● Define air pollution, sources ● Describe effects of air and noise pollution ● Describe prevention of air and noise pollution	IC 2	LGIS SGD	MCQs SEQs Viva
20	**Infection Control and Sterilization**	Discuss the basic concepts of sterilization	**<u>Knowledge</u>** ● Define infection ● Define sterilization & methods of sterilization ● Describe sterilization of dental instruments ● Describe how to control infection in dentistry	IC 2	LGIS SGD	MCQs SEQs Viva
21	**Ergonomics**	Demonstrate the knowledge and skill related to Ergonomics	**<u>Knowledge</u>** ● Define ergonomics and it effects ● Describe the psychosocial factors and work-related musculoskeletal disorders in dentistry	IC 2	LGIS	MCQs SEQs Viva

			<u>Skill</u> ● Practice strategies to prevent musculoskeletal disorders	IC 1 IC 4	Practical Demonstration	OSPE

3. PHARMACOLOGY

S. No.	Topic/ Theme	Learning Outcomes	Learning Objectives	IC Codes	MIT	Assessment Tools
1	Chemotherapy Introduction	Discuss the basics of chemotherapy	**Knowledge** ● Define chemotherapy ● Differentiate between antibiotics and antimicrobials ● Contrast bactericidal and bacteriostatic agents ● Discriminate between narrow and broad-spectrum antimicrobial agents ● Illustrate the classification of antimicrobial agents ● Outline the principles of antimicrobial therapy	IC 2	LGIS	SAQ MCQ Viva
2	Chemotherapy Resistance	Discuss drug resistance and its outcomes	**Knowledge** ● Define drug resistance ● Enumerate types of resistance ● Describe different mechanism underlying development of drug resistance ● Discuss the consequences of drug resistance ● Outline methods to prevent antimicrobial resistance	IC 2	LGIS	SAQs MCQs Viva
3	Sulphonamides and Trimethoprim	Discuss basic pharmacology of sulphonamides & trimethoprim	**Knowledge** ● Outline the steps of folic acid synthesis ● Classify sulphonamides ● Describe clinically useful application of bacterial folic acid antagonist ● Describe the major adverse effects of sulphonamides and trimethoprim	IC 2 IC 6	LGIS	MCQs SAQs Viva

			● Enumerate combinations of sulphonamides with other antimicrobial drugs ● Recall the combination of sulfamethoxazole and trimethoprim ● Identify the ratio of both drugs in the combined form ● List the advantages obtained by combination of drugs			
4	Penicillin I, II	Discuss basic pharmacology of penicillin	**<u>Knowledge</u>** ● Recall the structure of bacterial cell wall ● Describe the differences between cell wall of gram positive and gram-negative microorganisms ● State the similarities and differences in the chemical structure between the penicillin and cephalosporin ● Classify penicillin ● Discuss the differences in the spectrum of activity between the natural penicillin's, the penicillinase-resistant penicillin's, the aminopenicillins, the carboxypenicillins, the ureidopenicillins, and the β-lactamase inhibitor combinations ● Describe the mechanism of action and resistance of penicillin ● Describe the pK features of penicillin with emphasis on distribution to CSF, urinary tract, lungs, soft tissue, and bone ● Discuss the clinical uses and adverse effects of penicillin	IC 2	LGIS	MCQs SAQs Viva

			● Discuss the concept of hypersensitivity to penicillin and ways to prevent and treat it			
6	Cephalosporin	Discuss basic pharmacology of cephalosporins & their role dentistry	**Knowledge** ● Recall the similarities and differences in the chemical structure between the penicillin and cephalosporin ● Classify cephalosporin ● Describe the mechanism of action and resistance of cephalosporin ● Describe the PK characteristics of different generations of cephalosporin ● Discuss the clinical uses and adverse effects of cephalosporins	IC 2	LGIS	MCQs SAQs Viva
7	Tetracycline	Discuss basic pharmacology of tetracycline & their role in dentistry	**Knowledge** ● Classify tetracycline ● Discuss salient pharmacokinetic characteristics of different members of tetracycline ● Describe spectrum, mechanism of action and resistance of this drug group ● Illustrate the clinical uses and adverse effects of tetracycline ● Discuss the use of tetracycline in children and pregnant women	IC 2 IC 6	LGIS	MCQs SAQs Viva
8	Macrolides	Discuss basic pharmacology of Macrolides	**Knowledge** ● Classify macrolides ● Discuss the salient pharmacokinetic characteristics of different macrolides ● Describe the spectrum, mechanism of action and resistance of macrolides ● Discuss the clinical uses and adverse effects of macrolides	IC 2	LGIS	MCQS SAQS Viva

			● Tabulate the differences of erythromycin, clarithromycin and azithromycin			
9	Chloramphenicol	Discuss basic pharmacology of chloramphenicol	**Knowledge** ● Discuss the spectrum of activity ● Discuss the mechanism of action of chloramphenicol ● Outline the clinical applications ● Identify the main adverse effects of chloramphenicol	IC 2 IC 6	LGIS	MCQs SAQs Viva
10	Aminoglycosides (AMG)	Discuss basic pharmacology of aminoglycosides	**Knowledge** ● Recall the different aminoglycosides ● Discuss the structural difference between different members ● Discuss the main pK characteristics of aminoglycosides (AMG) ● Discuss the advantages of multiple dosing of aminoglycosides over once daily dosing ● Describe the mechanism of action and resistance of aminoglycosides (AMG) and trace the spectrum of activity ● Describe the interaction between cell wall inhibitors and aminoglycosides ● Discuss its therapeutic indications and adverse effects	IC 2	LGIS	MCQs SAQs
11	Quinolones	Discuss basic pharmacology of quinolones	**Knowledge** ● Classify quinolones ● Differentiate between quinolones and fluoroquinolones ● Recall the pK consideration of quinolones	IC 2	LGIS	MCQs SAQs Viva

			● Describe the mechanism of action, therapeutic uses and adverse effects of quinolones ● Enumerate the contraindications of quinolones			
12	Anti-mycobacterial I, II	Discuss first line and second line anti-mycobacterial drugs	**Knowledge** ● Enumerate different species of mycobacterium and disease associated with them ● List 1st and 2nd line Anti-tuberculosis treatments ● Describe the mechanism of action, resistance and clinical uses of 1st line ATT ● Discuss the toxicities of 1st line ATT and its prevention ● Describe the rationale for multi drug regimens ● Enlist anti-mycobacterial drugs used for leprosy	IC 2 IC 6	LGIS	MCQs SAQs Viva
13	Anti-fungal drug I, II	Discuss drug treatment of fungal diseases	**Knowledge** ● Recall the structure of fungal cell wall ● Classify antifungal agents ● Describe the spectrum, Mechanism of action, indications, and adverse effects of different classes of antifungal drugs	IC 2 IC 6	LGIS	MCQs SAQs Viva
14	Anti-malaria drugs I, II	Discuss drug treatment and prophylaxis of malaria	**Knowledge** ● Enumerate different species of plasmodium ● Outline the life cycle of plasmodium ● Identify the various phases of life cycle of plasmodium which act as targets of antimalarial drugs	IC 2 IC 6	LGIS	MCQs SAQs Viva

			● Describe the mechanism of action, therapeutic uses, and adverse effects of prototype drugs for malaria ● Discuss the use of primaquine in the case of plasmodium vivax and ovale ● Enumerate the commonly use combination of anti-malarial drugs			
15	Anti-amoebic drugs	Discuss drug treatment of amoebiasis	**Knowledge** ● Outline the life cycle of entamoeba histolytica ● Discuss the underlying pathogenesis of amoebiasis ● Classify the drugs effective against amoebiasis ● Describe the spectrum of activity, mechanism of action, clinical uses, and adverse effects of metronidazole ● Discuss the salient pharmacokinetics and pharmacodynamics features of prototype drug of each class ● Rationalise the use of combining a luminal agent with systemic amoebicides	IC 2 IC 6	LGIS	MCQs SAQs Viva
16	Anti-viral drugs I, II	Describe different Anti-viral drugs and their role in dentistry	**Knowledge** ● Identify the viruses targeted by major group of antiviral drugs ● Enumerate drug groups effective against Hep B & C and HIV ● Describe the mode of action, clinical uses and toxicity profile of interferons and ribavirin	IC 2	LGIS	MCQs SAQs Viva

17	Anti-neoplastic drugs	Describe different anti-cancer drugs in different tumours	**Knowledge** ● Illustrate the cycle of cell division and growth ● Define cancer and enumerate its various types classify anti-neoplastic agents ● Describe a generalized mechanism and adverse effects of anti-neoplastic drugs ● Identify specific clinical indications and toxicities of important anti-neoplastic agents	IC 2	LGIS	MCQs SAQs Viva
18	Antidiabetic drugs I, II	Discuss basic drug treatment of type 1 and type 2 diabetes mellitus	**Knowledge** ● Recall the synthesis and physiological effects of insulin in body ● Comprehend the fundamental differences between type 1 and 2 diabetes ● Classify insulin on basis of source and onset of action ● Recall the structure and distribution of insulin receptors in body along with signal transduction mechanism associated with it ● Identify the sites for administration of insulin ● Describe the adverse effects and complications of insulin therapy ● Classify non-insulin anti-diabetic agents and identify insulin secretagogues and euglycemic drugs ● Describe the mode of action of various classes of non-insulin antidiabetic drugs	IC 2	LGIS	MCQs SAQs Viva

			● Discuss clinical benefits, untoward effects and drug interactions of non-insulin antidiabetic medicines			
19	Anti-thyroid drugs, I, II	Discuss basic pharmacology of Anti-thyroid drugs	**Knowledge** ● Recall the biosynthesis and feedback regulation of release and role of thyroid hormone in body ● Classify anti-thyroid drugs ● Identify the steps of thyroid hormone synthesis which are blocked by different classes of anti-thyroid drugs ● Differentiate between methimazole and propylthiouracil ● Discuss the adverse effects produced by various anti-thyroid drugs	IC 2	LGIS	MCQs SAQs Viva
20	Corticosteroids, I, II	Basic pharmacology of Corticosteroids	**Knowledge** ● Recall the source, synthesis, regulation of release and role of steroid in body ● Classify corticosteroids ● Outline the mechanism of action of corticosteroids via nuclear receptors ● Describe the therapeutic indications and adverse effects of corticosteroids ● List the effects produced by dose dependent suppression of hypothalamic pituitary adrenal axis (HPA) ● Explain the methods to minimize this suppression of HPA	IC 2	LGIS	MCQs SAQs Viva
21	Hormonal contraceptives	Discuss use of Contraceptives and their adverse effects	**Knowledge** ● Define contraceptives ● Enumerate hormonal contraceptives ● Describe the mechanism of action of hormonal contraceptives	IC 2	LGIS	MCQs SAQs Viva

			● Enlist the non-contraceptive uses of hormonal contraceptives ● Discuss the adverse effects attributed by constituent hormones of contraceptives			
22	Antiseptics and disinfectants used in dentistry	Discuss role of different anti-septic agents and disinfectants in dentistry	**<u>Knowledge</u>** ● Define and differentiate between antiseptics and disinfectants ● Classify antiseptics and disinfectants ● Outline the antimicrobial activity of different classes of antiseptics and disinfectants ● Enlist the ideal properties of antiseptics and disinfectants ● Describe the mechanism of action of different antiseptics and disinfectants	IC 2	LGIS	SAQs MCQs Viva
23	Prescription writing	Demonstrate prescription writing for multiple diseases	**<u>Knowledge</u>** ● Justify the selection of priority drugs for certain clinical indication and prescribe medicine accordingly	IC 2	LGIS	MCQ SEQ Viva
			<u>Skills</u> ● Demonstrate prescription writing for a given disease	IC 1 IC 4	Practical Demonstration	OSPE

4. GENERAL PATHOLOGY

S. No.	Topics/Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1	Introduction to hemodynamics ● Oedema ● Congestion ● Hemorrhage ● Thrombosis and embolism ● Infarction ● Shock	● Discuss the basic knowledge of hemodynamics ● Describe the process of thrombosis, fate of thrombus, infarction, and detection of types of shock	**Knowledge** ● Define hemodynamics ● Describe the basic pathologies in hemodynamics ● Define edema ● Describe pathophysiology & morphological findings of edema, thrombosis, infarction ● Differentiate between hyperemia and congestion ● Describe the morphological changes and types in congestion	IC 2	LGIS	MCQs SEQs Viva
			Skill Demonstrate practical skills related to ● Etiology and diagnosis of edema lung (Chronic venous congestion, thrombus, congestion, infraction)	IC 1 IC 4 IC 5	Practical Demonstration	OSPE
2	Introduction to neoplasia	● Describe the knowledge of neoplasia, types of	**Knowledge** ● Define neoplasia ● Classify neoplasia	IC 2	LGIS SGD	MCQs SEQs Viva

	● Classification of tumors ● Benign vs malignant tumors ● Oncogenes and etiology of tumor ● Molecular basis of cancer-Oncogenes ● Biology and mechanism of tumor spread ● Carcinogenic agents and host defense against tumors ● Grading and staging of tumors	tumors and their oncogenes ● Discuss the molecular basis of oncogenes and mechanism of spread of tumors ● Describe the carcinogens, host defense mechanisms ● Enlist to Grade and stage the tumors	● Basic terminologies in neoplasia ● Describe differences between benign and malignant tumors ● Describe the etiology of tumors ● Describe the role of oncogenes in tumor formation ● Enlist cellular & molecular hallmarks of cancer ● Describe tumor suppressor genes & associated human tumors ● Describe role and mechanism of spread of tumor			
			Skill ● Demonstrate the knowledge and practical skills related diagnosis of Lipoma, Leiomyoma ● Demonstrate the knowledge and practical skills related to diagnosis of squamous cell carcinoma ● Identify the gross and microscopic features of basal cell carcinoma	IC 1 IC 4	Practical Demonstration	OSPE

3	Classification of gram-positive rod/ Spore forming /non-spore forming gram positive rods ● Mycobacterium I, II, III ● Actinomycosis ● Nocardia ● Chlamydia ● Mycoplasma ● Rickettsia ● Spirochetes	● Recall classification of gram-positive rods with their properties, pathogenesis, and lab diagnosis ● Discuss the types of mycobacteria ● Describe the differences between typical and atypical mycobacteria ● Recall the properties, diseases produced, pathogenesis and lab diagnosis of actinomyces, chlamydia, mycoplasma, and rickettsia	**Knowledge** ● Describe the pathogenesis of diseases produced by the organisms ● Enumerate the toxins and enzymes produced ● Describe the lab diagnosis ● Discuss the pathogenesis of pulmonary TB in detail ● Differentiate the primary and secondary TB ● Difference between latent TB and secondary TB ● Enlist the species of chlamydia/mycoplasma ● Discuss the pathogenesis, clinical features & laboratory diagnosis of chlamydia/mycoplasma	IC 2	LGIS SGD	MCQs SEQs Viva
			Skill ● Perform sugar test & motility test ● Demonstrate different types of sugar tests ● Interpret TSI	IC 1 IC 4	Practical Demonstration	OSPE

4	Introduction to parasitology ● Amoeba ● Giardia/trichomonas ● Malarial parasite ● Toxoplasma, ● Leishmania ● Cestodes ● Ascaris lumbricoides ● Ankylostoma duodenale ● Enterobius vermicularis	Demonstrate the characteristic, life cycle, pathogenesis, lab diagnosis	**Knowledge** ● Describe pathogenesis, clinical features, and lab diagnosis of parasites ●Describe characteristic of amoeba ●Describe important properties, pathogenesis, and life cycles of other parasites in humans	IC 2 IC 4	LGIS	MCQs SEQs Viva
			Skill ● Identify the steps of collection of samples for Stool RE ● Identify gross appearance of stool ● Interpret microscopic examination of stool ● Identify cysts and Ova in stool ● Identify malarial Parasite ● Identify life cycle of malarial parasite ● Identify different types of malarial parasites ● Identify microscopic of Leishman Donovan (L.D Bodies)	IC 2 IC 4 IC 5	Practical Demonstration	OSPE

VERTICALLY INTEGRATED MODULES

5. PRECLINICAL OPERATIVE DENTISTRY

S. No.	Topic / Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1	Fundamentals of class II cavity preparation	Describe fundamentals of class II cavity preparation	**Knowledge** ● Discuss the preparation method for class II cavity preparation for amalgam restoration ● Discuss the choice for matrix system and handling of amalgam in class II cavity restoration	IC 2	LGIS	MCQs SAQs Viva
2	Matrix and Retainer system	Discuss matrix and retainer system	**Knowledge** ● Discuss the various uses of different matrix systems according to different clinical situations ● Discuss the advantages and uses in build-up of missing walls and regaining the contours	IC 2	LGIS	MCQs SAQs Viva
3	Liner and Bases	Describe liner and Bases	**Knowledge** ● Discuss the importance of their clinical use in restorations of different cavities ● Describe the method of application of these pulp protecting agents in deep carious lesions	IC 2	LGIS	MCQs SAQs Viva

4	Pits and fissure sealants Infection control	Describe pits and fissure sealants Discuss infection control protocol	**Knowledge** ● Describe the importance of pits and fissure sealants ● Describe the application method of pits and fissure sealants ● Describe the advantages and disadvantages of pits and fissure sealants ● Describe the importance of cross infection control, different method of sterilization, disinfection and their monitoring	IC 2	LGIS	MCQs SAQs Viva
5	Class II preparation	Demonstrate class II preparation	**Skill** ● Demonstrate the accurate method of cavity design and preparation and their modifications	IC 1 IC 4	Practical Demonstration	OSPE
6	Application of liner & bases	Apply cavity liner & bases	**Skill** ● Demonstrate the indications according to clinical situation & method of application of liner and bases	IC 1 IC 3 IC 4 IC 5	Practical Demonstration	OSPE
7	Restoration of Class I cavity	Perform restoration of Class I cavity	**Skill** ● Demonstrate the mixing of amalgam with motor and pestle ● Demonstrate the proper method of carrying amalgam to the cavity the condensation technique with finishing and polishing	IC 1 IC 4 IC 5	Practical Demonstration	OSPE

8	Application of matrix and retainer system Restoration of Class II cavity	Apply matrix and retainer system for restoration Prepare and restore Class II cavity	**<u>Skill</u>** ● Demonstrate the application of matrix and retainer system, hands on performance of application of retainer in different clinical situation ● Demonstrate the mixing of amalgam with motor and pestle ● Demonstrate the proper method of carrying amalgam to the cavity the condensation technique with finishing and polishing	IC 1 IC 4 IC 5	Practical Demonstration	OSPE

6.PRE-CLINICAL PROSTHODONTICS

S. No.	Topic / Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1	Artificial teeth	Describe properties and application of artificial teeth	Describe the different types of artificial teeth based on the type of material and occlusal morphology Describe the differences in occlusal morphology and their uses in different situations Describe the differences between acrylic and	IC 2	LGIS SGD	MCQs SAQs Viva
2	Arrangement of teeth	perform the complete denture tooth setup	• Describe the steps of anterior tooth setup in detail • Differentiate between Overjet and Overbite • Describe Class I canine relationship • Describe steps of posterior tooth setup • Describe Class I molar relationship • Describe the compensating curves involved in tooth setup • Perform complete denture tooth setup		Interactive Lectures • Small Group Discussion (PBL) • Lab Demonstration	MCQs SAQs SEQs DOPS Viva

S. No.	Topic / Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
3	Laboratory procedures prior to insertion of dentures	Describe laboratory procedures prior to insertion of dentures	• Describe the different techniques used for flasking • Enlist materials that can be used as separating media • Differentiating between stages of setting of acrylic	IC 2	LGIS SGD	MCQs SAQs Viva
4.	Spot Grinding	•Summarize the concepts of occlusal equilibration	• Define occlusal equilibration • Enlist causes of occlusal disharmony • Outline the steps involved in occlusal equilibration • Enumerate the necessary armamentarium for occlusal adjustments • Explain BULL's Law • Pour a remount cast • Perform occlusal adjustment on articulator		• Interactive Lectures • Small Group Discussion (PBL) • Lab Demonstration	MCQs SAQs SEQs DOPS Viva

S. No.	Topic / Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
	INTRODUCTION	Differentiate between cast and acrylic partial	• Define a partial denture • Differentiate between cast partial and acrylic partial dentures • Enumerate components of cast partial denture • Define retention, support and stability		LGIS SGD	MCQs SEQs SAQs VIVA
	CLASSIFICATION OF PARTIALLY DENTATE ARCHES	Classify partially dentate arches using Kennedy's classification	• Enlist requirements of an acceptable classification system • Describe Kennedy's classification for partially edentulous arches • Highlight advantages and disadvantages of Kennedy's Classification • Outline Applegate's rules that govern application of Kennedy's classification • Create saddle areas according to Kennedy's Classification			
	COMPONENTS OF CAST PARTIAL DENTURE:	Recognize the role of rests in complete denture support	• Define rests. • Enumerate functions of rests. • Describe and draw the outline form of an occlusal rest • Identify rests on CPD models		LGIS SGDs Demonstration	MCQs SAQs SEQs DOPS Viva

S. No.	Topic / Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
	Rest and rest seat					

7.RESEARCH METHODOLOGY

S. No.	Topic / Theme	Learning Outcomes	Learning Objectives	IC Codes	MITs	Assessment Tools
1	Research problem and a good research question	• Identify research problem • Formulate a good research question	• Identify a high-quality research problem • Discuss criteria of selection of a research topic	IC 2	LGIS	MCQs
2	Title rationale & objectives of the study	• Justify the research study title with reference to objectives	• Describe characteristic of a good title • Justify the selection of a research topic • Formulate SMART research objectives	IC 2	LGIS	MCQs
3	Introduction of variable and data	• Identify different types of data and variables	• Define data, its types • Identify different types of qualitative and quantitative variables, independent and dependent variables	IC 2	LGIS	MCQs

8.BEHAVIOURAL SCIENCES

S. No.	Content/ Topic	Learning Outcomes	Learning Objectives	IC Codes	MIT	Assessment Tools
		At the end of this block students will be able to:				
Anthropology						
1	**Medical Ethics Vulnerable Population**	Equip with required social skills along with clinical competencies to deal with vulnerable population	**Knowledge** • Demonstrate understanding of gender • Understand the social construction of masculinity and femininity • Describe societal attitudes towards children and elderly • Discuss clinical competency to deal with vulnerable patients	IC 2 IC 6	LGIS	MCQs
2	**Stigma associated with HIV and sexually transmitted diseases**	Critique perplexing ethical problems and their mitigation	**Knowledge** • Discuss the term "stigma" and "social discrimination" ● Discuss the role of a healthcare provider in protecting patients from stigma ● Discuss the potential issues of screening from social and moral perspectives	IC 1 IC 2 IC 4	LGIS	MCQs

3	**Medical Pluralism**	Identify social organization of health care systems as a product of socio- political, economic, and cultural processes	**<u>Knowledge</u>** ● Discuss social organization of health system ● Discuss the routes taken by patient before reaching a doctor	IC 2 IC 4	LGIS	MCQs

BLOCK II SYLLABI

1.DENTAL MATERIALS

S. No	Date	Topic/ Theme	MITs
Week – 01			
S. No	**Date**	**Topic/ Theme**	**MITs**
1	9-5-24	Introduction to Impression materials	LGIS
		Week 2	
2	13-5-24	Non-Elastic impression materials.	LGIS
3	14-5-24	Non-Elastic impression materials	LGIS
4.	16-5-24	Impression materials	Tutorial/SGD
Practical			
1	13-5-24	Manipulation of impression compound	SGD/Practical
	14-5-24	Manipulation of impression compound	SGD/Practical
Week – 03			
S. No	**Date**	**Topic/ Theme**	**MITs**
1	20-5-24	Gypsum	LGIS
2	21-5-24	Gypsum	LGIS
3	23-5-24	Non elastic impression materials.	LGIS
4	23-5-24	Gypsum	Tutorial/SGD

Practical			
1	20-5-24	Manipulation of Plaster slab	SGD/Practical
	21-5-24	Manipulation of Plaster slab	SGD/Practical
Week – 04			
S. No	**Date**	**Topic/ Theme**	**MITs**
1	27-5-24	Hydrocolloid Impression materials	LGIS
2	28-5-24	Hydrocolloid Impression materials	LGIS
3	30-5-24	Dental Waxes	LGIS
4	30-5-24	Hydrocolloids	Tutorial/SGD
Practical			
1	27-5-24	Manipulation of Cavex	SGD/ Practical
	28-5-24	Manipulation of Cavex	SGD/ Practical
Week – 05			
S. No	**Date**	**Topic/ Theme**	**MITs**
1	3-6-24	Elastomers	LGIS
2.	4-6-24	Elastomers	LGIS
3	6-6-24	Investment materials	LGIS
4	6-6-24	Elastomers	Tutorial/SGD
Practical			
1.	3-6-24	Alginate mixing	SGD/ Practical

	4-6-24	Alginate mixing	SGD/ Practical
Week – 06			
S. No	**Date**	**Topic/ Theme**	**MITs**
1	10-6-24	Elastomeric impression materials	LGIS
2	11-6-24	Elastomeric impression materials	LGIS
3	13-6-24	Investment materials	LGIS
Practical			
1	10-6-24	Manipulation of elastomeric impression materials	SGD/ Practical
2	11-6-24	Manipulation of elastomeric impression materials	SGD/ Practical
Week – 07			
S. No	**Date**	**Topic/ Theme**	**MITs**
1	15-7-24	Introduction to denture base polymers	LGIS
2	18-7-24	Denture base polymers	LGIS
3	18-7-24	Comparison of impression materials	Tutorial/SGD
Week – 08			
S. No	**Date**	**Topic/ Theme**	**MITs**
1	22-7-24	Denture base polymers	LGIS
2	23-7-24	Denture base Polymers	LGIS
3	25-7-24	Comparison of self cure & heat cure/Artificial teeth	Tutorial/SGD
Practical			
1	22-7-24	Manipulation of Acrylic	SGD/Practical

	23-7-24	Manipulation of Acrylic	SGD/Practical
Week – 09			
S. No	**Date**	**Topic/ Theme**	**MITs**
1	29-7-24	Denture lining materials	LGIS
2	30-7-24	Denture lining materials	LGIS
3	1-8-24	Separating media	Tutorial/SGD
Practical			
1	29-7-24	Steps of Denture Fabrication	SGD/ Practical
	30-7-24	Steps of Denture Fabrication	SGD/ Practical
Week – 10			
S. No	**Date**	**Topic/ Theme**	**MITs**
1	5-8-24	Denture lining materials	LGIS
2	6-8-24	Dentures lining materials	LGIS
3	8-8-24	Metal Dentures	LGIS
4.	8-8-24	Denture base polymers	Tutorial/SGD
Practical			
1	5-8-24	Denture Lining Materials	SGD/ Practical
	6-8-24	Denture Lining Materials	SGD/ Practical
Week 11			
Revision & class tests			
Week 12			
Block assessment			
Eid Holidays & Summer Vacation 17th June 2024--- 15th July 2024.			

2.COMMUNITY DENTISTRY

Week – 01			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	8-05-2024	Introduction to Block 2	LGIS
		Week -02	
1	13-05-2024	Levels of Prevention	LGIS
2	14-05-2024	Screening	LGIS
Practical			
1	13-05-2024	Oral hygiene instructions	SGD/ Practical Demonstration
	14-05-2024	Oral hygiene instructions	SGD/ Practical Demonstration
Tutorial			
1	15-05-2024	Discussion	LGIS
Week – 03			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	20-05-2024	Prevention of Dental Caries	LGIS
2	21-05-2024	Plaque disclosing agents	LGIS
3	22-05-2024	Pit and fissure sealants	LGIS
Practical			
1	20-05-2024	Pit and fissure sealants	SGD/ Practical Demonstration
	21-05-2024	Pit and fissure sealants	SGD/ Practical Demonstration
Tutorial			
1	22-05-2024	Discussion	LGIS
Week – 04			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	27-05-2024	Atraumatic Restorative Dentistry	LGIS
2	28-05-2024	Caries activity test	LGIS
3	29-05-2024	Mechanical and chemical plaque control	LGIS
Practical			
1	27-05-2024	ART	SGD/ Practical Demonstration

	28-05-2024	ART	SGD/ Practical Demonstration
Tutorial			
1	29-05-2024	Discussion	LGIS
Week – 05			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	3-06-2024	Tooth Brushing techniques	LGIS
2	4-06-2024	Tooth Brushing techniques	LGIS
3	5-06-2024	Interdental oral hygiene aids	LGIS
Practical			
1	3-06-2024	Tooth brushing techniques	SGD/ Practical Demonstration
	4-06-2024	Tooth brushing techniques	SGD/ Practical Demonstration
Tutorial			
1	5-06-2024	Discussion	LGIS

Week – 06			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	10-06-2024	Prevention of Periodontal disease	LGIS
2	11-06-2024	Prevention of Oral Cancer	LGIS
3	12-06-2024	Prevention of wasting disease of teeth	LGIS
Practical			
1	10-06-2024	Flossing techniques	SGD/ Practical Demonstration
	11-06-2024	Flossing techniques	SGD/ Practical Demonstration
Tutorial			
1	12-06-2024	Discussion	LGIS
Week – 07			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	15-07-2024	Introduction to fluorides	LGIS
2	16-07-2024	Metabolism of fluorides	LGIS
3	17-07-2024	Mechanism of action of fluorides	LGIS

Practical			
1	15-07-2024	Topical fluorides	SGD/ Practical Demonstration
	16-07-2024	Topical fluorides	SGD/ Practical Demonstration
Tutorial			
1	17-07-2024	Discussion	LGIS
Week – 08			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	22-07-2024	Modes of fluoride administration	LGIS
2	23-07-2024	Topical fluoride application	LGIS
3	24-07-2024	Systemic fluoride application	LGIS
Practical			
1	22-07-2024	Plaque Disclosing agents	SGD/ Practical Demonstration
	23-07-2024	Plaque Disclosing agents	SGD/ Practical Demonstration
Tutorial			
1	24-07-2024	Discussion	LGIS
Week – 09			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	29-07-2024	Fluoride toxicity	LGIS
2	30-07-2024	Management of fluoride toxicity	LGIS
3	31-07-2024	Defluoridation	LGIS
Practical			
1	29-07-2024	Dental Instruments	SGD/ Practical Demonstration
	30-07-2024	Dental Instruments	SGD/ Practical Demonstration
Tutorial			
1	31-07-2024	Discussion	LGIS
Week – 10			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	05-08-2024	Occupational hazards in dentistry	LGIS
2	06-08-2024	Infection control in dentistry	LGIS
3	07-08-2024	Infection control in dentistry	LGIS

Practical			
1	05-08-2024	Dental Materials	SGD/ Practical Demonstration
	06-08-2024	Dental Materials	SGD/ Practical Demonstration
Tutorial			
1	07-08-2024	Discussion	LGIS
Week – 11: Revision			
Week -12 Block Assessment			
Eid Holidays & Summer Vacation 17th June 2024 --- 15th July2024.			

3.PHARMACOLOGY

Week – 01			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	8-05-24	Introduction to chemotherapy	LGIS
2	9-05-24	Penicillins & Cephalosporins	LGIS
3	10-05-24	Macrolides & Aminoglycosides	LGIS
Practical			
1	9-05-24	OSPE/VIVA VOCE	SGD/ Practical Demonstration
	10-05-24	OSPE/VIVA VOCE	SGD/ Practical Demonstration
Tutorial			
1	8-05-23	Discussion	SGD
Week – 02			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	13-05-24	Sulphonamides & trimethoprim	LGIS
2	15-05-24	Convocation	LGIS
3	16-05-24	Tetracyclines	LGIS
Practical			
1	16-05-24	Pharmacy calculations	SGD/ Practical Demonstration
	17-05-24	Pharmacy calculations	SGD/ Practical Demonstration
Tutorial			
1	13-05-24	Other cell wall synthesis inhibitors	SGD
Week – 03			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	20-05-24	Disinfectants and antiseptics	LGIS
2	22-05-24	Chloramphenicol	LGIS
3	23-05-24	Quinolones	LGIS
Practical			
1	23-05-24	Prescription writing	SGD/ Practical Demonstration
	24-05-24	Prescription writing	SGD/ Practical Demonstration

Tutorial			
1	20-05-24	PTT/ Discussion.	SGD
		Test cell wall synthesis inhibitors	
Week – 04			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	27-05-24	Anti-mycobacterial I	LGIS
2	29-05-24	Anti-mycobacterial II	LGIS
3	30-05-24	Anti-amoebic drugs	LGIS
Practical			
1	30-05-24	Prescription writing	SGD/ Practical Demonstration
	31-05-24	Prescription writing	SGD/ Practical Demonstration
Tutorial			
1	27-05-24	PTT/Discussion	SGD
Week – 05			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	3-06-24	Anti-malarial I	LGIS
2	5-06-24	Anti-malarial II	LGIS
3	6-06-24	Anti-fungal drugs I	LGIS
Practical			
1	6-06-24	Prescription writing	SGD/ Practical Demonstration
	7-06-24	Prescription writing	SGD/ Practical Demonstration
Tutorial			
1	3-06-24	PTT/Discussion	SGD
Week – 06			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	10-06-24	Anti-viral I	LGIS
2	12-06-24	Anti-viral II	LGIS
3	13-06-24	Anti-neoplastic	LGIS

Practical			
1	13-06-24	Prescription writing	SGD/ Practical Demonstration
	14-06-24	Prescription writing	SGD/ Practical Demonstration
Tutorial			
1	10-06-24	Oral contraceptive pills	Dr Khadija Tariq LGIS
Summer vacations: 17th June to 15th July			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	15-07-24	Anti-diabetic drugs I	LGIS
2	17-07-24	Anti- diabetic drugs II	LGIS
3	18-07-24	Anti-thyroid I	LGIS
Practical			
1	18-07-24	Prescription writing	SGD/ Practical Demonstration
	19-07-24	Prescription writing	SGD/ Practical Demonstration
Tutorial			
1	15-07-24	discussion	SGD
Week – 08			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	22-07-24	Anti-thyroid II	LGIS
2	24-07-24	Corticosteroids I	LGIS
3	25-07-24	Corticosteroids ii	
		Practical	
1	25-07-24	Prescription writing	SGD
	26-07-24	Prescription writing	SGD
Tutorial			
1	22-07-24	PTT/Discussion	SGD
Week – 09			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	29-7-24	Corticosteroids II	LGIS
2	31-7-24	Revision	LGIS

3	1-8-24	Revision	LGIS
Practical			
1	1-8-24	Prescription writing	SGD/ Practical Demonstration
	2-8-24	Prescription writing	SGD/ Practical Demonstration
Tutorial			
1	29-7-24	PTT/Discussion	SGD
Week – 10 &week 11 revision			
Week 12 block assessment			

4. GENERAL PATHOLOGY

Week – 01

S. No	Date	Topic/ Theme	MIT
1	8.05.2024	Oedema and Congestion	LGIS
2	9.05.2024	Oedema and Congestion	LGIS
3	10-05-24	Infarction	LGIS
Practical			
1	9.05.2024	Intracellular Pigmentation	SGD/ Practical Demonstration
	10.05.2024	Intracellular Pigmentation	SGD/ Practical Demonstration
Tutorial			
1	9-5-24	Tutorial	SGD

Week – 02

S. No	Date	Topic/ Theme	MIT
1	14.05.2024	Hyperaemia & Haemostasis	LGIS
2	15.05.2024	Shock	LGIS
3	16.05.2024	Thrombosis & Embolism	LGIS
Practical			

1	16.05.2024	Infarction	SGD/ Practical Demonstration
	17.05.2024	Infarction	SGD/ Practical Demonstration
Tutorial			
1	14.05.2024	Tutorial	SGD
Week – 03			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	21.05.2024	Amyloidosis	LGIS
2	22.05.2024	Introduction to Neoplasia	LGIS
3	23.05.2024	Classification of tumours	LGIS
Practical			
1	23.05.2024	Oedema & Congestion	SGD/ Practical Demonstration
	24.05.2024	Oedema & Congestion	SGD/ Practical Demonstration
Tutorial			
1	21.05.2024	Tutorial	SGD/ Practical Demonstration
Week – 04			
S. No	**Date**	**Topic/ Theme**	**MIT**

1	28.05.2024	Benign vs Malignant Tumours	LGIS
2	29.05.2024	Oncogenes, Aetiology of Tumour	LGIS
3	30.05.2024	Biology & Mechanism of tumour spread	LGIS
Practical			
1	30.05.2024	Thrombosis	SGD/ Practical Demonstration
	31.05.2024	Thrombosis	SGD/ Practical Demonstration
Tutorial			
1	28.05.2024	Tutorial	SGD
Week – 05			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	04.06.2024	Pathogenesis of tumours	LGIS
2	05.06.2024	Biology & Mechanism of tumour spread	LGIS
3	06.06.2024	Carcinogenic agents and host defence against tumours	LGIS
Practical			
1	06.06.2024	Sugar Test	SGD/ Practical Demonstration

	07.06.2024	Sugar Test	SGD/ Practical Demonstration
Tutorial			
1	4.06.2024	Tutorial	SGD
Week – 06			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	11.06.2024	Grading and staging of tumours	LGIS
2	12.06.2024	Miscellaneous tumours	LGIS
3	13.06.2024	Introduction and classification of Gram-Positive Rods	LGIS
Practical			
1	13.06.2024	Amyloidosis	SGD/ Practical Demonstration
	14.06.2024	Amyloidosis	SGD/ Practical Demonstration
Tutorial			
1	11.06.2024	Tutorial	SGD
Week – 07			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	16.07.2024	Corynebacterium	LGIS

2	17.07.2024	Listeria	LGIS
3	18.07.2024	Zoonotic organism	LGIS
Practical			
1	18.07.2024	Urine R/E	SGD/ Practical Demonstration
	19.07.2024	Urine R/E	SGD/ Practical Demonstration
Tutorial			
1	16.07.2024	Tutorial	LGIS
Week – 08			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	23.07.2024	Brucelle & Pasteurella	LGIS
2	24.07.2024	Gram positive and gram negative Anaerobes	LGIS
3	25.07.2024	Mycobacterium I, II, III	LGIS
Practical			
1	25.07.2024	Lipoma	SGD/ Practical Demonstration
	26.07.2024	Lipoma	SGD/ Practical Demonstration
Tutorial			

1	23.07.2024	Tutorial	SGD
Week – 09			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	30.07.2024	Actinomycosis/nocardia	LGIS
2	31.07.2024	Chlamydia, Rickettsia & Spirochetes	LGIS
3	1.08.2024	Introduction to parasitology	LGIS
Practical			
1	1.08.2024	Leiomyoma	SGD/ Practical Demonstration
	2.08.2024	Leiomyoma	SGD/ Practical Demonstration
Tutorial			
1	30.07.2024	Tutorial	SGD
Week – 10 and Week 11 Revision			
Block Assessment: Week 12			
Vacations: 17th June to 17th July			

5.PRECLINICAL OPERATIVE DENTISTRY

Week – 01			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	10.05.2024	Fundaments for class II preparation	LGIS
Practical			
1	08.05.2024 10.05.2024	Class II preparation demo	SGD/ Practical
Week – 02			
S. No	**Date**	**Topic/ Theme**	**MIT**
2	17.05.2024	Fundaments for class II preparation	LGIS
Practical			

2	15.05.2024 17.05.2024	Class II preparation	SGD/ Practical
Week – 03			
S. No	**Date**	**Topic/ Theme**	**MIT**
3	24.05.2024	Matrix & Retainer system	LGIS
Practical			
3	22.05.2024 24.05.2024	Class II preparation	SGD/ Practical
Week – 04			
S. No	**Date**	**Topic/ Theme**	**MIT**
4	31.05.2024	Restoration of Class II Amalgam	LGIS
Practical			
4	29.05.2024 31.05.2024	Restorative steps of class II	SGD/ Practical
Week – 05			
S. No	**Date**	**Topic/ Theme**	**MIT**

5	7.06.2024	Liner & Bases	LGIS
Practical			
5	5.06.2024 7.06.2024	Class I & II restoration	SGD/ Practical
Week – 06			
S. No	**Date**	**Topic/ Theme**	**MIT**
6	14.06.2024	Pits & Fissure sealants	LGIS
Practical			
6	12.06.2024 14.06.2024	Rubber dam revision	SGD/ Practical
Week – 07			
S. No	**Date**	**Topic/ Theme**	**MIT**
7	19.07.2024	Infection Control	LGIS
Practical			
7	17.07.2024 19.07.2024	Class I,II revision	SGD/Practical

Week – 08			
S. No	**Date**	**Topic/ Theme**	**MIT**
8	26.07.2024	Fundamentals of tooth preparation revision	LGIS
Practical			
8	24.07.2024 26.07.2024	Class I,II revision	SGD/Practical
Week – 09			
S. No	**Date**	**Topic/ Theme**	**MIT**
9	2.08.2024	Revision	LGIS
Practical			
9	31.07.2024 2.08.2024	Completion of quota	SGD/Practical
Week – 10 and Week 11 Revision			
Block Assessment: Week 12			

6.PRECLINICAL PROSTHODONTICS

Week – 01			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	10.05.2024	Artificial teeth	LGIS
Practical			
1	08.05.2024 10.05.2024	Arrangement of teeth	SGD/ Practical
Week – 02			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	17.05.2024	Anterior teeth arrangement	LGIS
Practical			
1	15.05.2024 17.05.2024	Arrangement of teeth	SGD/Practical
Week – 03			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	24.05.2024	Posterior teeth arrangement	LGIS

Practical			
1	22.05.2024 24.05.2024	Arrangement of teeth	SGD/Practical
Week – 04			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	31.07.2024	Parts and surfaces of denture	LGIS
Practical			
1	29.05.2024 31.05.2024	Arrangement of teeth	SGD/ Practical
Week – 05			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	7.06.2024	Lab procedures prior to insertion-I	LGIS
Practical			
1	5.06.2024 7.06.2024	Flasking and dewaxing	SGD/ Practical
Week – 06			

S. No	Date	Topic/ Theme	MIT
1	14. 06.2024	Lab procedures prior to insertion-II	LGIS
Practical			
1	12.06.2024 14.06.2024	Packing of acrylic and curing	SGD/Practical
Week – 07			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	19.07.2024	Occlusal equlibration	LGIS
Practical			
1	17.07.2024 19.07.2024	Finishing and polishing of denture	SGD/Practical
Week – 08			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	26.07.2024	Introduction to removable partial denture	LGIS
Practical			
1	24.07.2024	Finishing and polishing of denture	SGD/Practical

	26.07.2024		
Week – 09			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	2.08.2024	Classification of partially edentulous arches	LGIS
Practical			
1	31.07.2024 2.08.2024	Completion of quota	SGD/Practical
Week – 10 and Week 11 Revision			

Eid Holidays & Summer Vacation 17th June 2024 --- 15th July 2024. **End of Block Exams**

7- BEHAVIORAL SCIENCES

Week – 01			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	10-05-24	Principles of Psychology – Attention and Concentration	LGIS
Week – 02			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	17-05-24	Principle of Psychology – Memory	LGIS
Week – 03			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	24-05-24	Principles of Psychology – Memory	LGIS
Week – 04			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	31-05-24	Principles of Psychology – Thinking and Problem Solving	LGIS
Week – 05			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	07-06-24	Individual Differences – Intelligence	LGIS
Week – 06			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	14-06-24	Individual Differences – Emotions	LGIS
Summer vacations: 15th June to 14th July 2024			
Week – 07 Ashura Holiday 16th – 17th July 2024			
Week – 07			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	19-07-24	Individual Differences – Personality	LGIS
Week – 08			

S. No	Date	Topic/ Theme	MIT
1	26-07-24	Individual Differences – Personality Development	LGIS
Week – 09			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	02-08-24	Neurological Basis of Behavior – Motivation/Need/Drive	LGIS
Week – 10			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	09-08-24	Neurological Basis of Behavior – Learning	LGIS
Week – 11			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	16-08-24	Neurological Basis of Behavior – Learning Principles	LGIS
Week – 12			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	23-08-24	Dental Ethics and Professionalism-I	LGIS
Week – 13			
S. No	**Date**	**Topic/ Theme**	**MIT**
1	30-08-24	Dental Ethics and Professionalism-II	LGIS
End of Block Exams			
Summer vacations and Eid ul Azha: 15th June to 14th July 2024			
Ashura Holiday: 16th – 17th July 2024			

7 LEARNING RESOURCES

1. DENTAL MATERIALS

Books

Restorative Materials by Robert, Craig.

Phillips Skinner's Science of Dental Materials.

Clinical Handing of Dental Materials by B.N Smith.

Dental Chemistry by Cunningham.

Must have Books

M.Cabe Dental Materials

Preclinical Dental Sciences Work Book For Dental Students

Restorative Materials by Robert, Craig

Instruments

Glass slab

Cement Spatula

Plastic instrument

Articulator (Hinge and Hanau)

Modeling Wax 1 box

Gloves

Pliers

Round, Straight and Adams. Wire cutter

Plaster and alginate mixing spatula,

Dycal applicator

Set of measuring Scoop

Alginate mixing spatula

Rubber Bowl

Measuring cylinder 100mlX2

Measuring Beaker 100ml

Plastic sheet

Mask	 **Dropper** **Scale, Marker, Pencil** **Mortar Pestle** 	 **Condenser** **Burnishers** **Carver** **Amalgam Carrier** **Matrix Band** **Matrix band retainer** **Articulating paper** **Impression Trays partial denture set**	 **1 Pack Alginate** **Gypsum/plaster of Paris 4kg** **Base former of model Upper and Lower arch** **flask** 

2. COMMUNITY DENTISTRY

Books

Textbooks

Textbook of Preventive and Community Dentistry.2nd edition. S.S Hiremath

A textbook of public health dentistry

Recommended Books

Burt, B. & Eklund, S. (1999) Dentistry, Dental Practice & The Community. 5th ed. Saunders.

Daly B, Watt R, Batchelor P & Treasure E (2002) Essential Dental Public Health, Oxford University Press.

Gluck G & Morganstein WM (2002) Jong's Community Dental Health 5th edition, Mosby.

Harris, N.O. & Christen, A.C. (1987) Primary Preventive Dentistry. 2nd ed. Reston Pub. Co.

Kent GC, AS Blinkhorn. (1993) The Psychology of Dental Care. 2nd edition, Wright Publication, London.

Instruments

Examination Instruments

ART

Probes

Mirror

Probe

Tweezer

ART Instruments

Toothbrushing model

Dental Floss

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<td>
Murray, J.I. (ed.) (1996) Prevention of Oral Diseases. 3rd ed. Oxford University Press.

Phoon WO & PCY Chen (Eds). (1986) Textbook of Community Medicine in South East Asia. John Wiley & Sons.

Pine CM (ed.). (1997) Community Oral Health. Oxford: Wright Publication.

Scrambler Graham. (2003) Sociology as Applied to Medicine. 5th ed. WB Saunders Company.
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Michigan probe

Periodontal probe
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<td>
Mouthwash


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3. PHARMACOLOGY

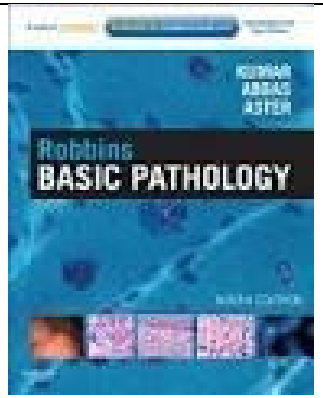
Textbook

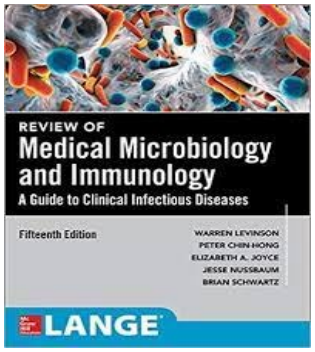
1. Lippincott Illustrated Reviews Pharmacology 6th Edition
2. Basic and clinical Pharmacology by Bertram G Katzung 14th Edition

Reference book

1. The Pharmacological Basis of Therapeutics by Goodman & Gilman 12th Edition
2. Davidson's Principles & Practice of Medicine 22nd Edition

4. GENERAL PATHOLOGY

Books For General Pathology	
Robbins Basic Pathology: with STUDENT CONSULT Online Access (Robbins Pathology)	

Review of Medical Microbiology and Immunology (Lange Medical Books)	

5. PRECLINICAL PROSTHODONTICS & OPERATIVE DENTISTRY

Recommended Books

1. Sturdevant's Art and Science, South Asian Edition.
2. Prosthodontic treatment for edentulous patients by Zarb 13th Edition.
3. McCracken's Removable Partial Prosthodontics 13th Edition.

6- BEHAVIORAL SCIENCES

Recommended Books

1. Handbook of Behavioral Sciences by Mowadat H. Rana (3rd edition)
2. Willumsen, T., Årøen Lein, J. P., Gorter, R. C., & Myran, L. (Eds.). (2002). Oral Health Psychology: Psychological Aspects Related to Dentistry. Springer Publishers. https://doi.org/10.1007/978-3-031-04248-5