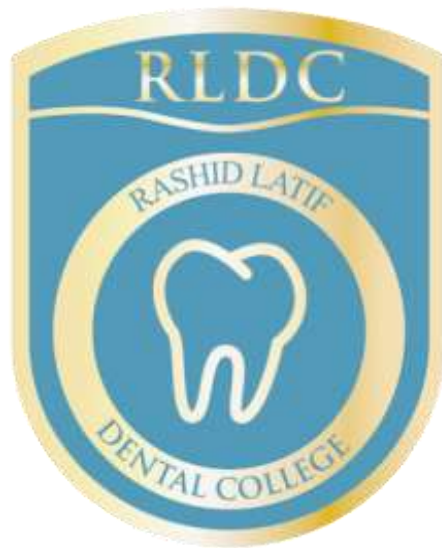




Rashid Latif Dental College
BDS Integrated 2nd Year 2k25
Version 2.0
Study Guide



RASHID LATIF DENTAL COLLEGE

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RASHID LATIF DENTAL COLLEGE

MISSION

To educate dental students with the knowledge, clinical skills, and professional values required to address oral health needs while fostering ethical and patient-centered practice.

VISION

To prepare competent dental professionals through hands-on clinical training, structured teaching standards, and ethical patient care.



RASHID LATIF DENTAL COLLEGE

CURRICULUM DETAILS CURRICULAR FRAMEWORK (PMDC)

BDS			
Basic Dental Sciences / Preclinical Year		Clinical Dental Sciences / Clinical Years	
1st Professional Year	2nd Professional Year	3rd Professional Year	4th Professional Year
Integrated 2k25 (Version 1)	Integrated 2k25 (Version 2)	General Medicine	Operative Dentistry
		General Surgery	Prosthodontics
		Oral Pathology	Orthodontics
		Oral Medicine	Oral & Maxillofacial Surgery
		Periodontology	Pediatric Dentistry
		Clinical Operative	General Education (Research, ICT)
		Clinical Prosthodontics	
		Clinical Oral & Maxillofacial Surgery	
		General Education (Research, Humanities, ICT)	
1200 hours	1200 hours	1200 hours	1200 hours



RASHID LATIF DENTAL COLLEGE

ACADEMIC AND ASSESSMENT FRAMEWORK OF RLDC

Academic Year	PMDC Credit Hours	Educational strategies	Learning Outcomes	Assessment	Yearly Session			Sendup	UHS Professional Examination	Internal Assessment 20%
					Block 1	Block 2	Block 3			
1 st Year	1200	• CBL • Assignments • Chairside Teachings • Practical's • SDL	Knowledge	Cognitive: MCQ, SEQ, VIVA	Anatomy +Physiology+ Oral Biology+ Biochemistry+ Islamic/Pak Studies+ Research			MCQ+SEQ, OSPE/OSCE+VIVA	MCQ+SEQ, OSPE/OSCE+VIVA	Continuous Assessment (Class Test+ Mock Exams, Assignments+ Attitudes) Block Result+ Attendance
2 nd Year			Competence	Psychomotor OSPE OSCE Practical Logbook	Dental Materials+ Pharmacology+ General Pathology+ Community Dentistry+ Behavior Sciences+ Pre Operative +Pre Prosthetics+ Research					
3 rd Year			Behavior	Affective: OSCE Viva Logbook	Oral Pathology+ Oral Medicine+ Periodontology+ General Medicine+ General Surgery+ Research Operative Dentistry+ Prosthodontics+ Oral and Maxillofacial Surgery					
Final Year					Operative Dentistry+ Prosthodontics+ Oral and Maxillofacial Surgery+ Orthodontics+ Research					

Timetable= Course Duration:4 years

Timings: 8:00am to 3:00pm

Venue: Lecture Halls, Dental Clinics, Clinical Wards, Phantom Heads.

Learning Resources: Text Books, Study Models, Case Records, Histology Slides, Dental Materials and Dental Instruments, Study Guide, Google Classes.



RASHID LATIF DENTAL COLLEGE

FACULTY LIST BDS 2ND YEAR 2025-26

Department	Designation	Name of Faculty
Anatomy	Associate Professor	Dr. Afifa Waseem
	Demonstrators	Dr. Muhammad Naeem Naseer Dr. Sumbal Rashid
Physiology	Assistant Professor	Dr. Sumbal Khalid
	Demonstrators	Dr. Haseeb Aman Dr. Muhammad Sameer Khan
Biochemistry	Associate Professor	Dr. Sumera Saghir
Oral Biology	Assistant Professor	Dr. Yusra Jamil Dr. Sadia Hassan
	Demonstrators	Dr. Tahreem Fayyaz Dr. Reeda Kamran Dr. Fatima Asif
Pharmacology & Dental Therapeutics	Assistant Professor	Dr. Samra Sulaiman
	Demonstrators	Dr. Muneeb Ghani Dr. Sher Ahmed
General Pathology & Microbiology	Professor	Prof. Dr. Bushra Adeel
	Demonstrators	Dr. Saad Shahid Dr. Suman Shujaat
Community Dentistry & Public Health	Professor	Prof. Dr. Faiza Awais Qureshi
	Demonstrators	Dr. Farhat Naheed Dr. Bisma Khalil
Science of Dental Material	Assistant Professor	Dr. Saadia Omer
	Demonstrators	Dr. Lubaba Ibrahim Dr. Muhammad Ahmad Gill
Behavioral Sciences	Assistant Professor	Dr. Khadija Tul Kubra
Oral Pathology	Associate Professor	Dr. Asifa Iqbal
	Demonstrators	Dr. Muhammad Talha Hassan Dr. Abdul Razzaq
Operative Dentistry	Professor	Prof. Hanna Abdul Majeed



RASHID LATIF DENTAL COLLEGE

	Assistant professor	Dr. Mahrukh Anwar
	Assistant professor	Dr. Qurat ul Ain Munzor
	Demonstrators	Dr. Zahra Malik Dr. Huzaifa Munawar
Prosthodontics	HOD	Prof. Dr. Abdul Mueed Zaigham
	Associate Professor	Dr. Wasif Ali Khan
	Assistant professor	Dr. Misbah Noreen
	Demonstrators	Dr. abdullah anwar Dr. Zainab Mehtab
Oral & Maxillofacial Surgery	HOD	Prof. Dr. Saadia Manzar
	Assistant Professor	Dr. Muhammad Minam Qureshi Dr. Ahmad Abdul Haseeb
	Specialist Registrar	Dr. M. Bilal Basit
	Demonstrators	Dr. Muhammad Shahroze Dr. Tazeem ul Husnain Dr. Naveed Mumtaz
Oral Medicine /Dental Radiology	HOD	Prof. Dr. Muhammad Shairaz Sadiq
	Assistant Professor	Dr. Zain Akram
Periodontology	Assistant Professor	Dr. Moez Ansari
	Demonstrators	Dr. Zia ud Din Dr. Usama Akram
PRISME	Assistant Professor	Dr. Faiza Salman Dr Khadija Tul Kubra



RASHID LATIF DENTAL COLLEGE

EXTRACURRICULAR, CO-CURRICULAR & HOLIDAYS CALENDAR SESSION 2026-27

 Rashid Latif Dental College Proposed 2nd Year BDS 'Academic Calendar' (Session 2026)																												
Weeks Jan-26							National Holidays & Vacations																Weeks Jul-26					
	M	T	W	T	F	S	S	Feb-05	Kashmir Day	25-26 June	Youn-e-Ashura			M	T	W	T	F	S	S								
					1	2	3	4	16-20 Mar	Spring Break	04 -31 July	Summer Vacations					1	2	3	4	5							
	5	6	7	8	9	10	11	21-23 Mar	Eid ul-Fitar	Aug-14	Independence Day				6	7	8	9	10	11	12							
	12	13	14	15	16	17	18	23th Mar	Pakistan Day	Aug-25	Milad un Nabi				13	14	15	16	17	18	19							
	19	20	21	22	23	24	25	May-01	Labour Day	Nov-09	Iqbal Day				20	21	22	23	24	25	26							
	26	27	28	29	30	31		27-29 May	Eid ul-Adha	Dec-25	Quaid-e-Azam Day				27	28	29	30	31									
								May-28	Youn-e-Takbeer	25 Dec 1st January	Winter Break																	
Session Commencement 11 May 2026																												
Session End 2nd week of March 2027																												
Block- Exam Schedule																												
Teaching Week Block 1 : 11th May to 21th August 2026																												
Teaching WeekBlock 2 : 31th August to 27th November 2026																												
Teaching WeekBlock 3 : 7th December to 26th February 2027																												
UHS Exam																												
2nd Week April 2027																												
Test Schedule																												
Date		Week #		Department / Subject																								
Block-1 Class Test		1 to 10		Integrated																								
Block 1 Exam																												
Block-2 Class Test		1 to 12																										
Block-2 Exam																												
Block-3 Class Test		1 to 9																										
Block-3 Exam																												

Prepared By:
Department of Dental Education



RASHID LATIF DENTAL COLLEGE

TEACHING METHODOLOGIES

Sr.#	Pedagogical Methodologies	
1.	Lectures	The traditional method is where an instructor presents information to a large group of students (large group teaching).
2.	Tutorial	Tutorials involve small group discussions (SGD) where students receive focused instruction and guidance on specific topics.
3.	Practical's	Hands-on sessions where students apply theoretical knowledge to real-world tasks. This might include lab work, clinical procedures, or simulations.
4.	Community-based Learning	RLDC provides the environment and training that would enable professionals to successfully contribute to the improvement of the health sector, particularly in less privileged communities
5.	Student Presentations & Assignment	Students prepare and deliver presentations on assigned topics. Tasks given to students to complete outside of class. Assignments can include research papers, case studies, or practical reports.
6.	Self-directed Learning	Students take initiative and responsibility for their learning process. Students are encouraged to seek resources, set goals, and evaluate their progress. This is a learner-centered approach where students take the initiative to plan, execute, and assess their learning activities.
7.	Case-based Learning (CBL)	A structured form of small group learning where students work in teams on application-based tasks and problems. Teams are responsible for achieving learning objectives through collaborative efforts, promoting accountability, and deeper understanding of the material.
8.	Problem-based Learning (PBL)	Students work on complex, real-world problems without predefined solutions. They research, discuss, and apply knowledge to develop solutions. PBL fosters critical thinking, problem-solving skills, and the ability to integrate knowledge from various disciplines.



RASHID LATIF DENTAL COLLEGE

PROPOSED TIMETABLE

Day	Block-							Week
	08:00am -8:50am	08:50am-09:40am	09.40am-10.30am	10.30am 11:00 am	11:00 am –11.50am	11.50am – 12.40pm	12:40pm – 01:30 pm	01.30 pm-03.00 pm
Monday	Lecture Community Dentistry	Lecture Dental materials	Lecture Behavior Sciences	B R E A K	Lecture Oral Pathology	Lecture Oral Biology	Lecture Physiology	SGD Community Dentistry
Tuesday	Lecture Pharmacology	Lecture Community Dentistry	Lecture Dental Material		Practical Oral Biology	Practical Oral Biology	Lecture Behavioral Science	SGD Physiology Venue LH-2
Wednesday	Lecture Physiology	Lecture Dental Materials	Lecture Oral Biology		Lecture Community Dentistry	Practical Behavioral Sciences	Practical Behavioral Sciences	SGD Oral biology
Thursday	Lecture Dental Materials	Lecture Oral Pathology	Lecture Behavioral Sciences		Lecture Operative	Practical Community Dentistry	Practical Community Dentistry	SGD Oral Pathology
Friday	08:00am -8:50am	08:50am-09:40am	09.40am-10.30am	10.30am -11:15am		11:15 am –12.05 pm	12:05 pm –1:00 pm	1:00 pm-02:30 pm
	Lecture Oral Pathology	Lecture Physiology	Lecture Behavior Sciences	Lecture Community Dentistry		SGD Dental Materials	Lecture\ PRISME	JUMMA BREAK



RASHID LATIF DENTAL COLLEGE

TIME ALLOCATION AND ACADEMIC FRAMEWORK

The 2nd Professional BDS academic year consists of a minimum of 1200 teaching hours.

Block 4			
Module 11	Module 12	Module 13	Module 14
Cariology-II	Community Dentistry & Public Health-I	Dental Materials & Pre-Clinical Dentistry-I	Hepatorenal
TOTAL WEEKS	10		
Block 5			
Module 15	Module 16	Module 17	Module 18
Endocrinology	Occlusion -II	Community Dentistry & Public Health II	Dental Materials & Pre-Clinical Dentistry-II
Weeks: 4	Weeks: 3	Weeks: 6	
TOTAL WEEKS	13		
Block 6			
Module 19	Module 20	Module 21	
Craniofacial-III	Respiration	Dental Materials & Pre-Clinical Dentistry-III	
Weeks: 4	Weeks: 4	Weeks: 5	
TOTAL WEEKS	13		
PRISME (Professionalism, Research, Informatics (Dental), Social Responsibility and Accountability, Management / Entrepreneurship and Evidence Based Dentistry) CFRC-I			
Islamiyat / Pakistan studies			

The curriculum is structured into three blocks, each further divided into modules.



RASHID LATIF DENTAL COLLEGE

DISTRIBUTION AND DURATION OF TEACHING ACTIVITIES AMONG DIFFERENT DISCIPLINES

Subjects Integrated in Module				
Block 4			Total Teaching Hours	Practical/Lab Work
Module 11	Cariology-II			
Module 12	Community Dentistry & Public Health-I	● Community & Preventive Dentistry	23	07
		● Behavioral Sciences		
		●		
		●		
Module 13	Dental Materials & Pre-Clinical Dentistry-I	● Physiology		
		● Biochemistry		
		● Dental Materials	34	9
		● Oral Medicine ● Psychiatry & Behavioral Sciences		
Module 14	Hepatorenal	● Pharmacology	4	4
		● General Pathology & Microbiology	12	2 (CFRC)



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Subjects Integrated in Module				
Block 5			Total Teaching Hours	practical/Lab Work
Module 15	Endocrinology	● Physiology		
		● Biochemistry		
		● Pharmacology & Therapeutics	5	-
		● General Pathology & Microbiology	4	-
Module 16	Occlusion -II	● Oral Biology & Tooth Morphology		
		● Oral Pathology		
		● Dental Radiology		
		● Science of Dental Materials	40	9
		● Operative Dentistry		
		● Prosthodontics		
		● Community & Preventive Dentistry		
		● Oral & Maxillofacial Surgery	1	0
		● Psychiatry & Behavioral Sciences		
Module 17	Community Dentistry & Public Health-II	● Community & Preventive dentistry		
		● Psychiatry & Behavioral Sciences		
Module 18	-Dental Materials & Pre-Clinical Dentistry-II			



RASHID LATIF DENTAL COLLEGE

Subjects Integrated in Module				
Block 6			Total Teaching Hours	practical/Lab Work
Module 19	Craniofacial-III	● Oral Biology & Tooth Morphology		
		● Science of Dental Material	44	06
		● General Pathology & Microbiology	20	16
		● Operative Dentistry		
		● Prosthodontics		
		● Pharmacology	10	-
		● Orthodontics		
Module 20	Respiration	● Community & Preventive dentistry		
		● Pharmacology	4	4
		● General Pathology & Microbiology	16	4
		● Psychiatry & Behavioral Sciences		
Module 21	Dental Materials & Pre-Clinical Dentistry-III	● Anatomy		
		● Physiology		
		● Biochemistry		
		●		
PRISME				



RASHID LATIF DENTAL COLLEGE



www.pmdc.pk

PAKISTAN
MEDICAL & DENTAL COUNCIL
G-10/4, MAJIDE AREA
ISLAMABAD
Tel: (92 51) 9190000

PF-1-C-PM&DC/Notification/2025/911

3rd November 2025

NOTIFICATION

SUBJECT: CLARIFICATION REGARDING MINIMUM PASSING PERCENTAGE AND ATTENDANCE REQUIREMENTS IN MBBS / BDS PROGRAMS

The Council, in its meeting held on 21st October 2025, deliberated on the matter concerning the minimum passing percentage in annual professional MBBS and BDS examinations, along with feedback received from universities, comments from medical and dental colleges, and representations and petitions submitted by students and parents regarding the retrospective enforcement of revised benchmarks during the ongoing academic session (2024-25).

After detailed consideration, the Council resolved that there shall be no retrospective enforcement of revised attendance or passing mark requirements. Students already enrolled up to and including the academic session 2024-25 shall continue under the previously applicable criteria, namely 50% minimum passing marks and 75% minimum attendance, as stipulated at the time of their admission or enrolment in MBBS or BDS programs.

For future admissions, a proposed increase of 5% each in both attendance and passing mark requirements shall be reviewed in consultation with universities, medical educationists, and other relevant stakeholders. The finalized criteria will be communicated in due course.

This notification is issued in compliance with the decision of the PM&DC Council and supersedes earlier Notifications dated 31st January 2025, 10th February 2025, and 15th April 2025 on the same subject. All medical and dental institutions and their affiliated universities are directed to ensure strict compliance with the above.


Deputy Registrar
Head of Council Department

Distribution:

- PM&DC Recognized Medical / Dental Colleges (All)
- Affiliating / Admitting Universities (All)
- Regional / Provincial Health Departments
- Head of IT Department PM&DC, Islamabad
- P S to Secretary M/o NHCR&C Islamabad



RASHID LATIF DENTAL COLLEGE



UNIVERSITY OF HEALTH SCIENCES LAHORE

Khayaban-e-Zamia Purjati, Lahore - 54000, Pakistan. Web site: www.uhs.edu.pk
Ph: 99231204-9 Fax: 99231279 UHS: 111 33 73 66

NOTIFICATION

Syndicate, in its 93rd meeting held on 4th November 2025, approved the adoption and implementation of the PM&DC Notification No. PF-1-C-PM&DC/Notification/2025/911 dated 03-11-2025, with the following provisions:

- I. Students already enrolled up to and including the academic session 2024-2025 shall continue under the previously applicable criteria, namely 50% minimum passing marks and 75% minimum attendance, as stipulated at the time of their admission or enrollment in MBBS or BDS program.
- II. However, the policy for assessment, for the session 2025-2026, will be notify separately.
- III. The minimum number of marks required to pass the professional examination for each subject/paper shall be fifty percent (50%) in 'Theory' and fifty percent (50%) in the 'Oral/Practical/Clinical' components of the examination and fifty percent (50%) in aggregate, independently, and concomitantly.
- IV. To become eligible to appear in the professional examinations conducted by the university the candidates shall be required having attended not less than cumulative 75% of the full course of lectures delivered and practical/clinical classes conducted in the particular academic session, as well as in the individual block/semester for the Modular Integrated Curriculum/Semester scheme of studies.
- V. The above criteria shall also be applicable to all undergraduate degree programs of the university, on parity basis.

This is in supersession of this office Notification No. UHS/REG-25/1121 dated 21-05-2025.

REGISTRAR

No. UHS/REG-25/2351

Dated: 13-11-2025

Copy forwarded for information to:

- i. Principals/Heads of all the constituent & affiliated undergraduate colleges/Institutions of UHS
- ii. Director, Institute of Allied Health Sciences, UHS
- iii. Head, College of Pharmacy, UHS
- iv. Head, Institute of Nursing, UHS
- v. Controller of Examinations, UHS
- vi. Treasurer, UHS
- vii. Director, Directorate of Undergraduate Studies, UHS
- viii. Director Students' Affairs, UHS
- ix. Additional Registrar (Registration), UHS
- x. PSO to Vice Chancellor
- xi. PS to Pro-Vice Chancellor
- xii. PS to Registrar

Shiraz Latif
REGISTRAR



RASHID LATIF DENTAL COLLEGE



RASHID LATIF DENTAL COLLEGE

Mailing Address: 35-Km, Ferozpur Road, Lahore.

Tel: +92 49 2451091-97 / Cell: + 92 0301-8722444 / 0335-4227444

Fax: +92 49 2451099 Website: www.rlmc.edu.pk

RefNo. RLDC/037625

1st December, 2025

Notification

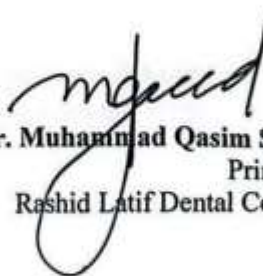
This is to inform the faculty that the following distribution of marks has been proposed for Internal Assessment criteria of UHS for Integrated BDS. The following matter shall be discussed in the upcoming assessment meetings of the respective class. The Internal Assessment carries 20% of the total marks for each block, divided equally between Theory and Practical/Tutorial components. The detailed allocation for each block is as follows:

1. Internal Assessment for Theory Examination – 30 Marks

- **Attendance in Lectures:** 20% → 6 marks
- **Block Examination (Theory):** 50% → 15 marks
- **Continuous Assessment (Class Tests, Mock Exams, Assignments, Attitudes):** 30% → 9 marks

2. Internal Assessment for Practical/Tutorial Examination – 30 Marks

- **Attendance in Practical's/Tutorials:** 20% → 6 marks
- **Block Examination (Practical/Oral):** 50% → 15 marks
- **Continuous Assessment / Log Books / PRISME Portfolio / Practical Notebooks / Assignments / Attitudes:** 30% → 9 marks


Prof. Dr. Muhammad Qasim Saeed
Principal
Rashid Latif Dental College

C.C:
Vice Principal, RLDC
Director Medical Education
All HODs & Conveners of Integrated 1st Year BDS
Office Copy



RASHID LATIF DENTAL COLLEGE

LIST OF ABBREVIATIONS

Abbreviation	Subject
UHS	University of Health Sciences
BDS	Bachelor of Dental Surgery
PRISME	Professionalism, Research, Informatics, Social Responsibility and Accountability, Management & Entrepreneurship, Ethics Evidence Based Dentistry
WHO	World Health Organization
A	Anatomy
AI	Artificial Intelligence
B	Biochemistry
GDC	General Dental Council
Ph	Pharmacology
P	Physiology
Pa	Pathology
OB	Oral Biology
OP	Oral Pathology
CD	Community Dentistry
OD	Operative Dentistry
AIMA	American Medical Informatics Association
AMEE	Association of Medical Education in Europe
BhS	Behavioral Sciences
CNS	Central Nervous System
GIT	Gastrointestinal Tract
CVS	Cardiovascular System
TMJ	Temporomandibular Joint
CBC	Complete Blood Count
ESR	Erythrocyte Sedimentation Rate
PCR	Polymerase Chain Reaction
ED50	Median Effective Dose
LD50	Median Lethal Dose
TD50+	Median Toxic Dose
AUC	Area Under Curve
MCV	Mean Corpuscular Volume
MCH	Mean Corpuscular Hemoglobin
MCHC	Mean Corpuscular Hemoglobin Concentration
Na	Sodium
K	Potassium
DNA	Deoxyribonucleic Acid
TORCH	Toxoplasmosis, Other, Rubella, Cytomegalovirus, Herpes simplex
CF	Craniofacial



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CFII	Craniofacial II
Car	Cariology
DEJ	Dentin enamel Junction
HERS	Hertwig's Epithelial Root Sheath
FDI	Fédération Dentaries International
GAGs	Glycosaminoglycans
EFA	Essential Fatty Acids
Hb	Hemoglobin
HbA1c	Glycated Hemoglobin
ATP	Adenosine Triphosphate
RBC	Red Blood Cell
NMJ	Neuromuscular Junction
ID50	Median Infectious Dose
RCTs	Randomized Control Trials



RASHID LATIF DENTAL COLLEGE

OBJECTIVE OF STUDY GUIDE

This study guidebook has been thoughtfully developed for dental undergraduates through the collaborative efforts of faculty across all disciplines. It serves as a valuable resource for the students of Rashid Latif Dental College, emphasizing key aspects of the curriculum. The guide aims to foster self-regulated learning by empowering students to take ownership of their academic journey.

Entering dental college marks the beginning of a new academic chapter, and this guide has been carefully crafted to support students through this transitional phase. It encompasses undergraduate competencies, assessment policies, and curriculum coordination, all systematically mapped within this guidebook.

The study guide provides a comprehensive overview of the intended course outcomes and objectives in alignment with the course content. It outlines the institution's tailored assessment methodologies, offering students a clear understanding of the strategies used to evaluate their progress.



RASHID LATIF DENTAL COLLEGE

CARIOLOGY II

INTRODUCTION TO MODULE II

Cariology II builds on foundational concepts of tooth structure and caries by integrating oral biology, pathology, dental materials, and operative dentistry. The module focuses on the biological basis of tooth preservation, restorative procedures, and preventive care, preparing students for effective clinical and community-based management of carious and non-carious lesions.

THE MODULAR OUTCOME

- Describe morphology and pulp anatomy of permanent molars with restorative relevance.
- Identify carious and non-carious lesions clinically and radiographically.
- Explain properties, manipulation, and uses of restorative dental materials.
- Perform cavity preparation, isolation, pulp protection, and amalgam restoration.
- Interpret radiographs for caries assessment and treatment planning.
- Apply caries risk assessment and preventive strategies (fluoride, diet, oral hygiene).
- Correlate systemic factors and medications with caries progression.
- Use effective communication to promote preventive behavior.
- Understand principles of removable partial denture design and occlusion.
- Perform basic laboratory steps for removable prosthesis fabrication.



RASHID LATIF DENTAL COLLEGE

ORAL BIOLOGY & TOOTH MORPHOLOGY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-OB-001	Morphology of Deciduous & Permanent Molars	1. Describe the general considerations and detailed morphology of the labial, lingual, mesial, distal, occlusal aspects, and root structure of deciduous & permanent molars. Identify and explain variations and anomalies in crown and root morphology of deciduous & permanent molars. 2. Enlist and compare key identification features of maxillary deciduous & permanent molars based on cusp pattern, crown outline, and root configuration. 3. List and compare key identification features of deciduous & permanent mandibular molars based on cusp pattern, crown outline, and root configuration.	LGD/SGD/ TUTORIALS	MCQ/OSPE/ OSVE	James fuller 9th edition
Car2-OB-002	Pulp Morphology and Radiographic Correlation	Explain and analyze the number, shape, and anatomical variations of pulp canals and pulp chambers in deciduous & permanent molars, with reference to radiographic appearances.	LGD/SGD/ TUTORIALS	MCQ/OSPE/ OSVE	James fuller 9th edition

SCIENCE OF DENTAL MATERIALS

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
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RASHID LATIF DENTAL COLLEGE

DMPD2-DM-001	Fundamental Requirements of Direct Restorative Materials	Students should know the requirements of direct restorative materials	Lecture	MCQ, Viva	Philips Science of dental materials
DMPD2-DM-002	Dental Amalgam — Composition, Manipulation & Safety	Students should know the Selection of amalgam alloys and their classification, composition, properties. Manufacturing and processing. Manipulation, setting chemistry and uses. High and low Copper amalgam. Composition, Manipulation, uses. Classification, ideal properties, Manipulation and Application Disposal of waste and toxicity	Lecture, Practical, PBL	MCQ, Viva	Philips Science of dental materials
DMPD2-DM-003	Dentin bonding agents	Students should be able to define the hybrid layer, how resin infiltrates and demineralizes dentin to create the “interdiffusion zone”. Students should explain why bonding to wet, organic dentin is harder than bonding to dry, inorganic enamel and describe how this cutting debris is either removed or modified by different bonding systems. Students should be able to differentiate the specific roles of the Etchant(acid), Primer(monomer) and Adhesive(resin), categorize agents by generation (1st - 8th) and by strategy (Etch and Rinse vs. Self-Etch) and explain how keeping dentin moist prevents the collapse of collagen fibers during the procedure.	Lecture, Practicals, SGD	MCQ, Viva	Philips Science of dental materials
DMPD2-DM-003	Composites	Students should be able to describe the composition, detail the roles of the organic matrix (Bis-GMA), inorganic fillers and the silane coupling agent in the composition structure. Students should be able to categorize materials based on filler particle size and explain how this determines clinical use.	Lecture, SGD, Practical	MCQ, OSPE, Viva	Philips Science of dental materials



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		Students should explain the polymerization process, polymerization shrinkage, chemical stages of light activation and the function of the photo-initiator Camphorquinone. Students should be able to explain the mechanism of “setting stress” and how it leads to marginal microleakage and post-operative sensitivity and analyze the C-Factor(configuration factor) and how it dictates incremental layering. Students should be able to differentiate material properties and compare the viscosity, flow and mechanical strength of Flowable vs. Packable composites. They should be able to explain the role of coupling agents and describe how Silane creates a chemical bond between the filler particles and the resin matrix to ensure structural integrity. Students should be able to describe the sequence of using abrasive instruments to achieve a surface that resists plaque accumulation outlining finishing and polishing protocol.			
DMPD2 DM-004	Dental Cements	Students should be able to classify dental cements according to composition and clinical use and can differentiate between temporary and permanent cements based on composition, strength, and clinical application. They should be able to explain the manipulation, setting characteristics, and clinical applications of major dental cements including zinc phosphate, GIC, calcium hydroxide, zinc polycarboxylate and ZOE.	Lectures, Practicals and SGD	MCQ, OSPE, Viva	Philips Science of dental materials



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DMPD2 DM-006	Glass Ionomer Cement	Students should have a command on chemical composition, physical and chemical properties, setting reaction, fluoride release and environmental interaction mechanism Students should know about RMGIC development and their advantage over GIC. students should have knowledge about modifications of GIC and metal reinforced GIC.	Lecture	MCQ, Viva	Philips Science of dental materials
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OPERATIVE DENTISTRY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2- OD-001	Class I cavity preparation for amalgam	Outline the principles and steps of class I amalgam cavity design Describe briefly the special physiologic and structural characteristics of the pulp–dentin complex and explain how these influence the pulpal response to injury.	Lecture /practical/clinical demonstration	MCQ/ OSCE VIVA	Sturdevant science od operative dentistry 8th edition
Car2- OD-002	Lining and Pulpal Protection materials	Explain the advantages, limitations, and appropriate uses of various lining and pulpal protection materials Identify and describe the clinical uses and key considerations associated with different materials used for pulpal protection	Lecture	MCQ/ OSCE/ VIVA	Sturdevant science od operative dentistry 8th edition
Car2- OD-003	Amalgam Restoration in class I	Describe the principles of restoration design for amalgam, including condensation, carving, finishing, and the factors influencing marginal integrity and longevity of the restoration.	Lecture/ practical/clinical demonstration	MCQ OSCE/ VIVA	Sturdevant science od operative dentistry 8th edition

ORAL MEDICINE / DENTAL RADIOLOGY



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Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-DR-001	Radiographic Caries Interpretation	Assess and interpret radiographs to determine the depth and severity of carious lesions	Lecture, Practical	MCQ	Dental Radiology by Eric Whaites, 5th edition or higher

COMMUNITY & PREVENTIVE DENTISTRY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-CD-001	Caries Risk Assessment	1. Identify and classify risk factors: Students should be able to distinguish between caries risk indicators (e.g., socioeconomic status), risk factors (e.g., biofilm composition, salivary flow), and protective factors (e.g., fluoride exposure). Formulate risk-based treatment plans: categorise patients into low, moderate, high, or extreme risk groups and propose specific recall intervals and preventive interventions suitable for each category. Utilize assessment tools: Demonstrate the ability to use standard Caries Risk Assessment (CRA) models, such as CAMBRA (Caries Management by Risk Assessment) or the AAPD CAT, to evaluate a patient's individual risk profile.	Lecture/practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John
Car2-CD-002	Preventive and Patient Centered Strategies	Master plaque control measures: Explain and demonstrate mechanical plaque control techniques (brushing methods like Bass or Fones) and prescribe appropriate chemical plaque control agents	Lecture Practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry -



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		(chlorhexidine, mouthwashes) based on patient needs. Apply Minimal Intervention Dentistry (MID): Understand the principles of MID, including the early detection of lesions and the remineralization of non-cavitated lesions using amorphous calcium phosphate (ACP) or CPP-ACP (Recaldent). Design patient education protocols: Develop patient-centered communication strategies to motivate behavioral change, utilizing tools like Motivational Interviewing to encourage adherence to oral hygiene instructions.			Joseph John
Car2-CD-003	Fluoride Use and Toxicity	Explain mechanisms of action: Describe how fluoride interacts with hydroxyapatite crystals to form fluorapatite, reduces enamel solubility, and inhibits bacterial metabolism (enolase enzyme inhibition). Differentiate delivery systems: Compare and contrast the indications and application techniques for systemic fluorides (water fluoridation, tablets/drops) versus topical fluorides (varnishes, gels, toothpastes, and rinses). Manage toxicity and fluorosis: Identify the clinical signs of acute fluoride toxicity and chronic toxicity (dental and skeletal fluorosis). Students must know the Probably Toxic Dose (PTD) and be able to outline emergency management steps for acute overdose.	Lecture Practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John
Car2-CD-004	Dietary and Behavioral Factors	Analyze the diet-carries relationship: Interpret the Vipeholm Study and Turku Sugar Studies to explain the carcinogenicity of sucrose compared to starch, focusing on the frequency of intake versus the total amount consumed.	Lecture	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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		Interpret the Stephan Curve: Describe the pH changes in dental plaque following sugar consumption, defining critical pH (5.5) and the variables that affect the clearance of acids from the oral cavity. Conduct dietary counseling: Perform a diet analysis (using a 24-hour recall or diet diary) and provide specific counseling to replace cariogenic foods with non-cariogenic or cariostatic alternatives (e.g., xylitol, cheese, nuts).			
Car2-CD-005	Epidemiology And Community Level Prevention	Utilize dental indices: Calibrate and apply standard epidemiological indices for measuring dental caries, specifically the DMFT/DMFS (for permanent teeth) and dmft/dmfs (for primary teeth) indices. Analyze epidemiological trends: Define prevalence and incidence rates of dental caries and identify current global and regional trends in caries distribution to determine high-risk populations. Implement community programs: Design and evaluate community-based preventive programs, such as School Dental Health Programs, water fluoridation schemes, and milk fluoridation initiatives.	Lecture Practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John

PSYCHIATRY & BEHAVIORAL SCIENCES

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-BhS-001	Communication Skills for Preventive Dentistry (OARS and	Explain the use of OARS micro skills and their role in enhancing patient commitment to preventive oral health measures	Lecture / practical	MCQ / VIVA	Rana, Mowadat H. Behavioural Sciences.



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	5A's Approach)				3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
Car2-BhS-002	Behavior Change Frameworks in Patient Counseling	Explain a behavior change framework and use it to identify barriers and propose a tailored oral health plan	Lecture/ practical	MCQ/ OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
Car2-BhS-003	Anxiety Reduction Techniques in Preventive Dental Care	Explain basic anxiety reduction techniques and their application during risk assessment and Fluoride therapy	Lecture/ practical	MCQ / OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare
Car2-BhS-004	Dietary Counseling and Fluoride Application	Explain the 5 As dietary counselling approach and describe how to assess and document patient readiness for behavioral change	Lecture/ practical	MCQ / OSVI	Rana, Mowadat H. Behavioral Sciences. 3rd Edition. Humayun, Asma. Integrating



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					Behavioral Sciences in Healthcare
Car2-BhS-005	Reflection and Assessment in Self Preventive Communication	Evaluate preventive communication encounters and identify strategies for improvement	Lecture/ practical	MCQ / OSVI	Rana, Mowadat H. Behavioral Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare
PROSTHODONTICS					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-PD-001	Retainers	Enlist direct retainers used for acrylic and cast partial dentures.	lecture	MCQs	McCracken's removable partial dentures.
Car2-PD-002	Retainers	Differentiate between direct retainers of cast and acrylic partial denture.	lecture	MCQs	McCracken's removable partial dentures
ORAL PATHOLOGY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-OP-001	Tooth Surface Loss and Enamel Defects	Should be able to identify Attrition, Abrasion, Erosion	Interactive lecture, Practical, SGD	Assignment, MCQs, OSPE	Oral Pathology Contemporary Chapter 11
Car2-OP-002	Pulpitis	Student be able to know pathogenesis and Histopathology of Reversible, irreversible, Acute Chronic	Interactive Lecture, Practical, CBL	Assignment, MCQs, OSPE	Contemporary Oral Path Ch 3



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		Pulpitis, Chronic hyperplastic and Pupal Necrosis			
PRACTICAL/LAB WORK					
ORAL BIOLOGY & TOOTH MORPHOLOGY					
Code	Topic	Learning Outcome			
Car2-OB-003	Morphology of Permanent Molars	Identify and draw the outlines of all permanent molars (labial, lingual, mesial, distal, and occlusal aspects) on paper or models, labeling their key features, including oblique ridges and root anatomy,			
Car2-OB-004	Identification and Labeling of Molar Anatomical Features	Accurately label all key morphological features (Cusps name, cusp ridges, marginal ridges, transverse ridges, triangular ridges, fossa, developmental depressions, contact points, name of roots/pulp canals, pits C grooves) on molar models			
Car2-OB-005	Molars	Carve anatomical models of molars using soap blocks/ wax block Carve anatomical models of molars using soap blocks/ wax blocks			
SCIENCE OF DENTAL MATERIALS					
Code	Topic	Learning Outcome			
DMPD2 DM-007	Manipulation techniques for Dental Cements	Students should be able to manipulate cements with correct technique and powder liquid ratio			
DMPD2 DM-007	Dental amalgam	Students should be able to perform trituration with the correct mercury-alloy ratio. Also demonstrate condensation, burnishing, finishing and carving.			
OPERATIVE DENTISTRY					
Code	Topic	Learning Outcome			
Car2-OD-004	Isolation	Perform rubber dam application for isolation on typodont			
Car2-OD-005	Class I Cavity Preparation	Prepare a G.V. Black’s Class I cavity on typodont for an amalgam restoration (premolars & molars).			
Car2-OD-006	Pulp protection	Apply liners & bases in a prepared cavity			
Car2-OD-007	Class I with amalgam	Restore a prepared Class I cavity on a typodont with dental amalgam, following proper techniques of trituration, condensation, carving, and finishing.			
COMMUNITY & PREVENTIVE DENTISTRY					
Code	Topic	Learning Outcome			
Car2-CD-006	Oral Health Assessment and Risk Evaluation	Conduct Comprehensive Patient Evaluation: Demonstrate proficiency in obtaining a complete medical, dental, and social history to identify systemic conditions (e.g., Diabetes, Hypertension) that influence oral health treatment planning.			



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		Apply Periodontal and Hygiene Indices: Calibrate and utilize specific indices to assess oral hygiene and periodontal status, specifically the Oral Hygiene Index-Simplified (OHI-S) and the Community Periodontal Index (CPI/CPITN). Evaluate Periodontal and Soft Tissue Risk: Analyze risk factors for periodontal disease (such as smoking, stress, and biofilm control) and perform basic screening for oral mucosal lesions to assess the risk of oral cancer.
PROSTHODONTICS		
Code	Topic	Learning Outcome
Car2-PD-003	Preparation of Edentulous Cast	Prepare an edentulous cast suitable for the fabrication of a complete denture.
Car2-PD-004	Wax-Up of Upper Base Plate	Perform wax-up of the trial denture upper base plate ensuring proper extension and adaptation.
Car2-PD-005	Wax-Up of Lower Base Plate	Perform wax-up of the trial denture lower base plate ensuring correct border extension and stability.
Car2-PD-006	Flanking of Upper and Lower Base Plates	Demonstrate correct procedure for flaking trial denture upper and lower base plates prior to processing
Car2-PD-007	Dewaxing of Upper and Lower Base Plates	Perform dewaxing for trial denture upper and lower base plates, maintaining the accuracy of denture form.
Car2-PD-008	Packing, Curing, and Finishing of Base Plates	Carry out packing, curing, and finishing of trial denture base plates, ensuring smooth and well-adapted surfaces.



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COMMUNITY DENTISTRY & PUBLIC HEALTH-I

INTRODUCTION TO MODULE

Community Dentistry and Public Health I introduce population-based approaches to oral health, focusing on disease prevention, health promotion, and social determinants of health. The module equips students with basic epidemiology, screening, and behavioral science concepts to link individual dental care with community-level preventive strategies.

THE MODULAR OUTCOME

- Explain principles, scope, and relevance of dental public health.
- Apply epidemiology to assess oral disease patterns and determinants.
- Distinguish screening from diagnosis in community programs.
- Calculate and interpret incidence and prevalence.
- Analyze social, behavioral, and environmental determinants of oral health.
- Apply prevention and health promotion strategies using the common risk factor approach.
- Plan and conduct basic oral health surveys and present data.
- Explain prevention of periodontal disease, oral cancer, and dental trauma.
- Design and evaluate community oral health programs.
- Demonstrate empathetic communication and apply behavioral principles in patient care



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Community & Preventive Dentistry

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
CDPH1-CD-001	Introduction to Dental Public Health	Describe the principles and scope of Dental Public Health and its role in promoting community oral health.	lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-002	Concept of Oral Health and Disease	Explain how individual dental care contributes to population-level oral health outcomes.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-003	Oral Conditions as Public Health Problems	Explain the criteria used to identify oral conditions that constitute public health problems.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-004	Concepts of Health and Illness	Compare professional and layperson perspectives of health, disease, and illness.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-005	Epidemiologic al Concepts	Explain the iceberg phenomenon and its relevance to subclinical oral diseases.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-006	Risk Factors and Prevention Strategies	Explain the common risk factor approach and apply it to preventive oral health planning.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-007	Social Determinants of Health	Describe the major patterns and social determinants contributing to oral health inequalities	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-008	Health Inequalities	Analyze socioeconomic, behavioral, and environmental causes of oral health inequalities.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1-CD-009	Prevention Approaches in Oral Health	Differentiate between high-risk, population, and common risk factor prevention strategies	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-010	Planning Preventive Programs	Evaluate the suitability of preventive strategies for different oral health contexts	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-011	Screening in Dental Public Health	Explain the principles and applications of screening in oral health programs.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-012	Screening Evaluation	Explain Wilson and Jungner criteria and evaluate their application in screening programs for oral diseases.	Lecture	MCQ	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-013	Screening Tests	List and explain the desirable properties of an ideal screening test.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-014	Screening vs Diagnosis	Differentiate between screening and diagnostic tests based on purpose and methodology.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-015	Introduction to Epidemiology	Define epidemiology and explain its role in understanding oral disease distribution.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-016	Epidemiology and Oral Health Services	Explain the applications of epidemiology in planning and evaluating dental services	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-017	Epidemiologic al Study Designs	Classify epidemiological studies and describe their design and use in oral health research.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1-CD-018	Study Planning and Design	Explain the fundamental framework of an epidemiological study applicable to dental public health	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-019	Application of Epidemiology	Analyze how epidemiological findings guide preventive and clinical dental practices.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-020	Research Validity	Define bias and confounding and explain their influence on study validity.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-021	Research Methodology	Explain techniques such as randomization and blinding and their role in minimizing bias in research studies.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-022	Integrated Disease Control Approaches	Compare epidemiological, screening, and clinical approaches to oral disease management.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-023	Application to Practice	Explain how epidemiological and screening principles can be applied in clinical and community dental care.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-024	Epidemiologic al Measurements	Differentiate and calculate prevalence and incidence rates to interpret oral health trends.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-025	Oral Health Surveys	1.Classify and describe different types of oral health surveys. 2.Explain the standardized steps involved in designing and conducting a simple oral health survey	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1-CD-026	Data Handling and Presentation	Describe data types, variables, statistical methods, sampling techniques, and present findings graphically.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-027	Research dynamics	Define range, variance, mean deviation, and standard deviation as measures of data	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-028	Research dynamics	Define probability and explain its application in dental research and data interpretation.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-029	Hypothesis testing in research & Presentation of data	Interpret and calculate key descriptive measures of data, including central tendency and dispersion.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-030	Parametric and nonparametric tests	Correlate standard deviation with mean and the concept of normal distribution	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-031	Parametric and nonparametric tests	1. Define and explain Normal distribution (Bell curve) and its characteristics. explain the importance of normal distribution in research as well as on choice of tests of significance 2. Differentiate between parametric and non-parametric tests and select appropriate tests of significance (t-test, Chi-square test, and their alternatives) based on data type and distribution	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-032	Parametric and nonparametric tests	Differentiate skewness and kurtosis types.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1-CD-033	Disease Causation	Explain the cause-and-effect relationships underlying major oral diseases.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-034	Oral Health Indices	Define and classify oral health indices used in epidemiological studies.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-035	Periodontal Epidemiology	Describe prevalence, distribution, and risk factors of periodontal diseases.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-036	Etiological Triads	Identify etiological factors and explain the triad of host, agent, and environment in periodontal disease.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-037	Periodontal Disease Prevention	Evaluate preventive strategies for reducing the incidence of periodontal disease.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-038	Health Promotion	Explain the key components and strategies for planning oral health promotion programs aimed at preventing periodontal disease.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-039	Oral Cancer Etiology	Explain etiological triads and contributing risk factors for oral cancer.		MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-040	Oral Cancer Prevention	Identify and implement preventive strategies for oral cancer in clinical settings.		MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1-CD-041	Community Prevention Programs	Design community-based oral cancer prevention programs using public health approaches.			Joseph John 3rd Edition & S.S Hiremath
SCIENCE OF DENTAL MATERIALS					
Code	Topics	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Oc2-DM-001	General Principles of Dental Materials	Students should know the fundamental physico-mechanical, biological, and chemical principles that determine the clinical behavior and performance of dental materials.	Lecture	Viva	Philips science of dental materials
Oc2-DM-002	Structure of Matter and Adhesion	Students should know the structure of matter and explain the fundamental principles of adhesion among dental materials.	Lecture	MCQ	Philips science of dental materials
Oc2-DM-003	Classification of Dental Materials	Students should be able to classify dental materials into metals, ceramics, polymers, and composites	Lecture	MCQ	Philips science of dental materials
Oc2-DM-004	Biocompatibility and Safety	Students should be able to explain the concepts of safety and biocompatibility in dental biomaterials.	Lecture	MCQ, Viva	Philips science of dental materials
Oc2-DM-005	Biological Considerations	Students should be able to define key biological terms related to dental materials, including biocompatibility and hypersensitivity and explain the effects of toxicity and corrosion and their influence on the biological performance of dental materials	Lecture	MCQ, Viva	Philips science of dental materials



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Oc2-DM-006	Gypsum Products and Model Fabrication and die materials	Students should be able to define cast and die materials, gypsum and identify various gypsum products used in dentistry. They should be able to describe the classification, uses, composition, hydration reaction, crystal formation process of gypsum products, ideal physical and mechanical properties, setting expansion, and setting time of gypsum products. Students should be able to demonstrate the correct proportioning, mixing, pouring, and trimming techniques for gypsum materials. They should be able to identify and explain factors that influence the setting time, expansion, and strength of gypsum materials. Students should be able to explain infection control measures and safety precautions during the pouring and handling of impressions and models. Students should be able to analyze common causes of air bubbles, inaccuracies, and fractures in gypsum models and propose preventive measures, List the advantages and disadvantages of gypsum and enumerate miscellaneous types of die materials.	Lecture	MCQ, SGD	Philips science of dental materials
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Oc2-DM-007	Impression Materials	Students should have command on classification, ideal properties, advantages, disadvantages, clinical indications and factors that affect the dimensional accuracy and surface detail of dental impressions	Lecture	MCQ, Viva	Philips science of dental materials
Oc2-DM-008	Infection Control	Students should have command on methods for disinfecting and storing dental impressions to prevent distortion and cross-infection.	Lecture	MCQ, Viva	Philips science of dental materials
Oc2-DM-009	Hydrocolloids	Students should be able to describe the composition, setting mechanism, and classification of elastic impression materials, including hydrocolloids, explain the clinical steps for mixing, loading, and inserting hydrocolloid impression materials.	Lecture	MCQ, Viva	Philips science of dental materials
Oc2-DM-010	Non-elastic impression materials	Students should be able to identify and classify non-elastic impression materials and discuss their composition, properties, setting reactions and uses. Non-elastic impression materials Evaluate the advantages and disadvantages of non-elastic impression materials. Describe and differentiate between mucostatic and mucocompressive for complete denture impressions.	Lecture, SGD, Practical	MCQ, Viva	Philips science of dental materials
PROSTHODONTICS					
Code	Topic	Learning Outcome	Teaching Methodology	Assessment Tools	Reference



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			(Lecture/ Practical/ Clinical)		
Oc2-PD-001	Overview of Prosthodontics and Its Branches	Explain the role of prosthodontics in oral rehabilitation and differentiate between its major branches.	lecture\SGD	MCQs	Complete denture prosthodontics by Manapllil
Oc2-PD-002	Characteristics and Significance of Ideal Occlusion	Explain the characteristics of ideal occlusion in natural dentition and its significance for oral function and health.	lecture\SGD	MCQs	Complete denture prosthodontics by Manapllil
Oc2-PD-003	Kennedy’s Classification of Partial Edentulism	Describe Kennedy’s Classes I–IV and their modifications	lecture\SGD	MCQs	McCraken’s removable partial prosthodontics
Oc2-PD-004	Applegate’s Rules	State Applegate’s Rules governing the application of Kennedy’s Classification	lecture\SGD	MCQs	McCraken’s removable partial prosthodontics
Oc2-PD-005	Removable Partial Dentures	Describe the types of Removable partial dentures.	lecture\SGD	MCQs	McCraken’s removable partial prosthodontics
Oc2-PD-006		Enlist the components of a removable partial denture	lecture\SGD	MCQs	McCraken’s removable partial prosthodontics
OPERATIVE DENTISTRY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Oc2-OD-001	Instruments and armamentarium	Recognize different instruments used in tooth preparation. Describe their functions. Differentiate	Lecture /practical/clinical	MCQ/VIVA	Sturdevant science of operative dentistry 8th edition



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		between hand and rotary instruments.			
Oc2-OD-002	Isolation	Explain the importance of isolation in dental procedures, including its role in moisture control, visibility, infection control, and treatment success Enlist components of rubber dam Outline stepwise procedure for application of rubber dam.	Lecture /practical/clinical	MCQ/VIVA	Sturdevant science of operative dentistry 8th edition
Oc2-OD-003	Fundamentals of tooth Preparations	Discuss the role of principles of cavity preparation, including outline form, resistance form, retention form, and convenience form in ensuring the longevity and effectiveness of restorative treatments.	Lecture /practical/clinical	MCQ/VIVA	Sturdevant science of operative dentistry 8th edition
Oc2-OD-004	Cavity Classification and Diagnosis	Describe G.V. Black's classification & ICDAS system caries classification of caries and identify various classes of carious lesions using images.	Lecture /practical/clinical	MCQ/VIVA	Sturdevant science of operative dentistry 8th edition



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Community & Preventive Dentistry

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
CDPH1-CD-001	Introduction to Dental Public Health	Describe the principles and scope of Dental Public Health and its role in promoting community oral health.	lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-002	Concept of Oral Health and Disease	Explain how individual dental care contributes to population-level oral health outcomes.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-003	Oral Conditions as Public Health Problems	Explain the criteria used to identify oral conditions that constitute public health problems.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-004	Concepts of Health and Illness	Compare professional and layperson perspectives of health, disease, and illness.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-005	Epidemiologic al Concepts	Explain the iceberg phenomenon and its relevance to subclinical oral diseases.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-006	Risk Factors and Prevention Strategies	Explain the common risk factor approach and apply it to preventive oral health planning.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-007	Social Determinants of Health	Describe the major patterns and social determinants contributing to oral health inequalities	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1-CD-008	Health Inequalities	Analyze socioeconomic, behavioral, and environmental causes of oral health inequalities.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-009	Prevention Approaches in Oral Health	Differentiate between high-risk, population, and common risk factor prevention strategies	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-010	Planning Preventive Programs	Evaluate the suitability of preventive strategies for different oral health contexts	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-011	Screening in Dental Public Health	Explain the principles and applications of screening in oral health programs.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-012	Screening Evaluation	Explain Wilson and Jungner criteria and evaluate their application in screening programs for oral diseases.	Lecture	MCQ	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-013	Screening Tests	List and explain the desirable properties of an ideal screening test.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-014	Screening vs Diagnosis	Differentiate between screening and diagnostic tests based on purpose and methodology.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-015	Introduction to Epidemiology	Define epidemiology and explain its role in understanding oral disease distribution.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-016	Epidemiology and Oral Health Services	Explain the applications of epidemiology in planning and evaluating dental services	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1-CD-017	Epidemiologic al Study Designs	Classify epidemiological studies and describe their design and use in oral health research.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-018	Study Planning and Design	Explain the fundamental framework of an epidemiological study applicable to dental public health	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-019	Application of Epidemiology	Analyze how epidemiological findings guide preventive and clinical dental practices.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-020	Research Validity	Define bias and confounding and explain their influence on study validity.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-021	Research Methodology	Explain techniques such as randomization and blinding and their role in minimizing bias in research studies.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-022	Integrated Disease Control Approaches	Compare epidemiological, screening, and clinical approaches to oral disease management.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-023	Application to Practice	Explain how epidemiological and screening principles can be applied in clinical and community dental care.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-024	Epidemiologic al Measurements	Differentiate and calculate prevalence and incidence rates to interpret oral health trends.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-025	Oral Health Surveys	1.Classify and describe different types of oral health surveys. 2.Explain the standardized steps involved in designing and conducting a simple oral health survey	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1-CD-026	Data Handling and Presentation	Describe data types, variables, statistical methods, sampling techniques, and present findings graphically.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-027	Research dynamics	Define range, variance, mean deviation, and standard deviation as measures of data	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-028	Research dynamics	Define probability and explain its application in dental research and data interpretation.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-029	Hypothesis testing in research & Presentation of data	Interpret and calculate key descriptive measures of data, including central tendency and dispersion.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-030	Parametric and nonparametric tests	Correlate standard deviation with mean and the concept of normal distribution	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-031	Parametric and nonparametric tests	1. Define and explain Normal distribution (Bell curve) and its characteristics. explain the importance of normal distribution in research as well as on choice of tests of significance 2. Differentiate between parametric and non-parametric tests and select appropriate tests of significance (t-test, Chi-square test, and their alternatives) based on data type and distribution	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1-CD-032	Parametric and nonparametric tests	Differentiate skewness and kurtosis types.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1- CD-033	Disease Causation	Explain the cause-and-effect relationships underlying major oral diseases.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1- CD-034	Oral Health Indices	Define and classify oral health indices used in epidemiological studies.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1- CD-035	Periodontal Epidemiology	Describe prevalence, distribution, and risk factors of periodontal diseases.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1- CD-036	Etiological Triads	Identify etiological factors and explain the triad of host, agent, and environment in periodontal disease.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1- CD-037	Periodontal Disease Prevention	Evaluate preventive strategies for reducing the incidence of periodontal disease.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1- CD-038	Health Promotion	Explain the key components and strategies for planning oral health promotion programs aimed at preventing periodontal disease.	Lecture	MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1- CD-039	Oral Cancer Etiology	Explain etiological triads and contributing risk factors for oral cancer.		MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath
CDPH1- CD-040	Oral Cancer Prevention	Identify and implement preventive strategies for oral cancer in clinical settings.		MCQ OSVE	Joseph John 3rd Edition & S.S Hiremath



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CDPH1-CD-041	Community Prevention Programs	Design community-based oral cancer prevention programs using public health approaches.			Joseph John 3rd Edition & S.S Hiremath
SCIENCE OF DENTAL MATERIALS					
Code	Topics	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Oc2-DM-001	General Principles of Dental Materials	Students should know the fundamental physico-mechanical, biological, and chemical principles that determine the clinical behavior and performance of dental materials.	Lecture	Viva	Philips science of dental materials
Oc2-DM-002	Structure of Matter and Adhesion	Students should know the structure of matter and explain the fundamental principles of adhesion among dental materials.	Lecture	MCQ	Philips science of dental materials
Oc2-DM-003	Classification of Dental Materials	Students should be able to classify dental materials into metals, ceramics, polymers, and composites	Lecture	MCQ	Philips science of dental materials
Oc2-DM-004	Biocompatibility and Safety	Students should be able to explain the concepts of safety and biocompatibility in dental biomaterials.	Lecture	MCQ, Viva	Philips science of dental materials
Oc2-DM-005	Biological Considerations	Students should be able to define key biological terms related to dental materials, including biocompatibility and hypersensitivity and explain the effects of toxicity and corrosion and their influence on the biological performance of dental materials	Lecture	MCQ, Viva	Philips science of dental materials



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Oc2-DM-006	Gypsum Products and Model Fabrication and die materials	Students should be able to define cast and die materials, gypsum and identify various gypsum products used in dentistry. They should be able to describe the classification, uses, composition, hydration reaction, crystal formation process of gypsum products, ideal physical and mechanical properties, setting expansion, and setting time of gypsum products. Students should be able to demonstrate the correct proportioning, mixing, pouring, and trimming techniques for gypsum materials. They should be able to identify and explain factors that influence the setting time, expansion, and strength of gypsum materials. Students should be able to explain infection control measures and safety precautions during the pouring and handling of impressions and models. Students should be able to analyze common causes of air bubbles, inaccuracies, and fractures in gypsum models and propose preventive measures, List the advantages and disadvantages of gypsum and enumerate miscellaneous types of die materials.	Lecture	MCQ, SGD	Philips science of dental materials
Oc2-DM-007	Impression Materials	Students should have command on classification, ideal properties, advantages, disadvantages, clinical	Lecture	MCQ, Viva	Philips science of dental materials



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		indications and factors that affect the dimensional accuracy and surface detail of dental impressions			
Oc2-DM-008	Infection Control	Students should have command on methods for disinfecting and storing dental impressions to prevent distortion and cross-infection.	Lecture	MCQ, Viva	Philips science of dental materials
Oc2-DM-009	Hydrocolloids	Students should be able to describe the composition, setting mechanism, and classification of elastic impression materials, including hydrocolloids, explain the clinical steps for mixing, loading, and inserting hydrocolloid impression materials.	Lecture	MCQ, Viva	Philips science of dental materials
Oc2-DM-010	Non-elastic impression materials	Students should be able to identify and classify non-elastic impression materials and discuss their composition, properties, setting reactions and uses. Non-elastic impression materials Evaluate the advantages and disadvantages of non-elastic impression materials. Describe and differentiate between mucostatic and mucocompressive for complete denture impressions.	Lecture, SGD, Practical	MCQ, Viva	Philips science of dental materials
PROSTHODONTICS					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference



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Oc2-PD-001	Overview of Prosthodontics and Its Branches	Explain the role of prosthodontics in oral rehabilitation and differentiate between its major branches.	lecture\SGD	MCQs	Complete denture prosthodontics by Manapllil
Oc2-PD-002	Characteristics and Significance of Ideal Occlusion	Explain the characteristics of ideal occlusion in natural dentition and its significance for oral function and health.	lecture\SGD	MCQs	Complete denture prosthodontics by Manapllil
Oc2-PD-003	Kennedy's Classification of Partial Edentulism	Describe Kennedy's Classes I–IV and their modifications	lecture\SGD	MCQs	McCraken's removable partial prosthodontics
Oc2-PD-004	Applegate's Rules	State Applegate's Rules governing the application of Kennedy's Classification	lecture\SGD	MCQs	McCraken's removable partial prosthodontics
Oc2-PD-005	Removable Partial Dentures	Describe the types of Removable partial dentures.	lecture\SGD	MCQs	McCraken's removable partial prosthodontics
Oc2-PD-006		Enlist the components of a removable partial denture	lecture\SGD	MCQs	McCraken's removable partial prosthodontics

OPERATIVE DENTISTRY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Oc2-OD-001	Instruments and armamentarium	Recognize different instruments used in tooth preparation. Describe their functions. Differentiate between hand and rotary instruments.	Lecture /practical/clinical	MCQ/VIVA	Sturdevant science of operative dentistry 8th edition



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Oc2-OD-002	Isolation	Explain the importance of isolation in dental procedures, including its role in moisture control, visibility, infection control, and treatment success Enlist components of rubber dam Outline stepwise procedure for application of rubber dam.	Lecture /practical/clinical	MCQ/VIVA	Sturdevant science of operative dentistry 8th edition
Oc2-OD-003	Fundamentals of tooth Preparations	Discuss the role of principles of cavity preparation, including outline form, resistance form, retention form, and convenience form in ensuring the longevity and effectiveness of restorative treatments.	Lecture /practical/clinical	MCQ/VIVA	Sturdevant science of operative dentistry 8th edition
Oc2-OD-004	Cavity Classification and Diagnosis	Describe G.V. Black's classification & ICDAS system caries classification of caries and identify various classes of carious lesions using images.	Lecture /practical/clinical	MCQ/VIVA	Sturdevant science of operative dentistry 8th edition



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ORAL BIOLOGY & TOOTH MORPHOLOGY

Code	Topic
Oc2-OB- 001	Morphology of Premolars Differentiate maxillary from mandibular premolars using key identification criteria such as cusp morphology, root anatomy, and occlusal patterns

SCIENCE OF DENTAL MATERIALS

Code	Topics	Learning Outcome
Oc2-DM-001	General Principles of Dental Materials	Explain the fundamental physio-mechanical, biological, and chemical principles that determine the clinical behavior and performance of dental materials
Oc2-DM- 002	Structure of Matter and Adhesion	Students should identify different types of bond, they should differentiate between adhesion and cohesion
Oc2-DM- 003	Classification of Dental Materials	Students should be able to classify different materials used in dentistry
Oc2-DM- 004	Biocompatibility and Safety	Students should be able to define biocompatibility and they knows the safety required to protect from material safety
Oc2-DM- 005	Biological Considerations, Corrosion and Toxicity	Students should remember all the biological properties of dental materials, Students should be able to define corrosion, identify its types and toxicity associated with it
Oc2-DM- 006	Gypsum Products and Model Fabrication and die preparation	Students should be able to define cast and die materials, define and classify gypsum products . Knows about the chemistry, hydration reaction, crystal formation and properties. Manipulation and role of additives Applications of different gypsum products. Students should be able to explain infection control measures and safety precautions, analyze common cause of air bubbles, inaccuracies and fracture
Oc2-DM- 007	Impression Materials	Students should be able to classify impression materials, they should know the ideal properties, advantages, disadvantages, indications and dimensional accuracy of materials
Oc2-DM- 008	Infection Control	Students should be able to describe methods for disinfecting and storing dental impressions to prevent distortion and cross-infection.
Oc2-DM- 009	Hydrocolloids	Students should be able to describe the composition, setting mechanism, and classification of elastic impression materials along with their manipulation
Oc2-DM- 010	Non-elastic impression materials	Students should be able to identify and classify non-elastic material. They should have command on composition, properties, setting reaction, advantages, disadvantages and uses. They should be able to differentiate between mucostatic and mucocompressive complete denture impression

PROSTHODONTICS

Code	Topic	Learning Outcome
Oc2-PD- 001	Overview of Prosthodontics and Its Branches	Explain the role of prosthodontics in oral rehabilitation and differentiate between its major branches



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Oc2-PD- 002	Characteristics and Significance of Ideal Occlusion	Explain the characteristics of ideal occlusion in natural dentition and its significance for oral function and health
Oc2-PD- 003	Kennedy's Classification of Partial Edentulism	Describe Kennedy's Classes I–IV and their modifications
Oc2-PD- 004	Applegate's Rules	State Applegate's Rules governing the application of Kennedy's Classification
Oc2-PD- 005	Removable Partial Dentures	Describe the types of Removable partial dentures
Oc2-PD- 006		Enlist the components of a removable partial denture

OPERATIVE DENTISTRY

Code	Topic	Learning Outcome
Oc2-OD- 001	Instruments and armamentarium	Recognize different instruments used in tooth preparation. Describe their functions. Differentiate between hand and rotary instruments.
Oc2-OD- 002	Isolation	Explain the importance of isolation in dental procedures, including its role in moisture control, visibility, infection control, and treatment success Enlist components of rubber dam Outline stepwise procedure for application of rubber dam.
Oc2-OD- 003	Fundamentals of tooth Preparations	Discuss the role of principles of cavity preparation, including outline form, resistance form, retention form, and convenience form in ensuring the longevity and effectiveness of restorative treatments.
Oc2-OD- 004	Cavity Classification and Diagnosis	describe G.V. Black's classification & ICDAS system caries classification of caries and identify various classes of carious lesions using images.

PRACTICAL / LAB WORK

ORAL BIOLOGY & TOOTH MORPHOLOGY

Code	Topic	Learning Outcome
Oc2-OB-002 Oc2-OB- 003	Premolars	Identify and draw the outlines of all premolars (labial, lingual, mesial, distal, and occlusal aspects) on paper or models, labeling morphological features such as cusps, ridges, fossa, contact points, roots, and pulp canals Accurately label all key morphological features (e.g., cusps, marginal ridges, transverse ridges, triangular ridges, developmental depressions, pits, and grooves) on premolar models Carve anatomical models of premolars using soap blocks/ wax blocks

SCIENCE OF DENTAL MATERIALS

Code	Topic	Learning Outcome
Oc2-DM- 011	Impression Materials	Students should be able to demonstrate and perform proper techniques for manipulation of hydrocolloid impression materials
Oc2-DM- 012	Non-elastic impression materials	Students should be able to demonstrate the softening technique of the impression compound using a water bath without overheating the material.



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Oc2-DM- 013	Gypsum	Students should be able to manipulate soft plaster using the recommended technique and water/powder ratio, build a plaster slab, and pour a model, trimming and finishing of the study models. Students should be able to differentiate between study casts, working casts, and refractory casts based on purpose and fabrication.
PROSTHODONTICS		
Code	Topic	Learning Outcome
Oc2-PD- 007	Tooth Removal from Cast (Kennedy's Classes)	Identify and remove specific teeth from a cast to simulate different Kennedy's classes for partial denture design.
Oc2-PD- 008	C-Clasp Fabrication	Fabricate a C-clasp for a removable partial denture, demonstrating proper adaptation and finishing.
Oc2-PD- 009	Wax-Up and Articulation for Partial Dentures	Fabricate occlusal rim. Perform wax-up Articulate for both upper and lower partial dentures.
Oc2-PD- 010	Dental Setup for Partial Dentures	Arrange teeth for both upper and lower partial dentures, ensuring correct occlusion
Oc2-PD- 011	Flasking for Partial Dentures	Demonstrate the process of flasking for both upper and lower partial dentures
Oc2-PD- 012	Dewaxing for Partial Dentures	Perform dewaxing of flasks accurately while maintaining denture form.
Oc2-PD- 013	Packing, Curing, and Finishing of Partial Dentures	Carry out packing, curing, and finishing steps for both upper and lower partial dentures.
OPERATIVE DENTISTRY		
Code	Topic	Learning Outcome
Oc2-OD- 005	Instruments and Equipment for Tooth Preparation and Restoration	Recognize different instruments used in tooth preparation. Describe their functions. Differentiate between hand and rotary instrument
Oc2-OD- 006	Rubber Dam Application and Isolation Techniques	Explain the importance of isolation in dental procedures, including its role in moisture control, visibility, infection control, and treatment success Enlist components of rubber dam Outline stepwise procedure for application of rubber dam.
Oc2-OD- 007	Clinical Ergonomics Operator and Patient Positioning with Instrument Exchange	Identify various operator position Discuss consequence of poor ergonomics Adjust dental chair operator stool and light to achieve neutral posture



RASHID LATIF DENTAL COLLEGE

Dental Materials & Pre-Clinical Dentistry-I

INTRODUCTION TO MODULE

This module builds upon foundational knowledge to develop students' understanding of direct restorative materials and their clinical application in operative dentistry and prosthodontics. It integrates the science of dental materials including amalgam, composites, glass ionomers, and cements with principles of adhesion, manipulation, and material selection for specific clinical situations. Additionally, the module introduces essential prosthodontic concepts such as jaw relations and occlusion, alongside practical skills like fabrication of denture base plates. Through hands-on training in cavity preparation, restoration, and finishing procedures, the module aims to enhance students' technical competence, critical thinking, and ability to deliver functionally and aesthetically sound restorations.

THE MODULAR OUTCOME

- Describe the fundamental requirements of direct restorative materials.
- Describe the composition, manipulation and properties of amalgam.
- Describe the hybrid layer and specify the roles of etchant, primer and adhesive.
- Describe the composition, properties and polymerization of composite and categorize materials based on filler particle size. Classify dental cements.
- Differentiate between temporary and permanent cements.
- Explain the manipulation, setting characteristics and clinical applications of major dental cements.
- Describe the composition and properties of glass ionomer cements.
- Demonstrate the mixing of amalgam and manipulation of dental cements.
- Describe the vertical jaw relations.
- Describe the basic features of natural and artificial occlusion.



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Dental Materials & Pre-Clinical Dentistry-I					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Dental Materials & Pre-Clinical Dentistry-I	Dental Materials & Pre-Clinical Dentistry-I	Dental Materials & Pre- Clinical Dentistry-I	Dental Materials & Pre- Clinical Dentistry-I	Dental Materials & Pre-Clinical Dentistry-I	Dental Materials & Pre-Clinical Dentistry-I
DMPD3 DM- 002	Polymerization	Students should be able to differentiate between the various types of polymerization reactions, explaining their chemistry and mechanisms. Elaborate the steps and factors influencing the polymerization reaction and its impact on material performance. Students should be able to classify denture base materials and explain the essential requirements for ideal denture base materials. Students should be able to explain the composition, manipulation and processing of acrylic denture base polymers and relate their properties to clinical performance and enumerate and demonstrate stepwise procedures for manipulation, processing, finishing and maintenance of acrylic denture, also they should be able to Identify and describe alternative denture base materials with their advantages and limitations. Students should be able to define and differentiate self-cured, light-cured and	Lecture, Practical	MCQ, SGD, VIVA	Philips Science of Dental Materials



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		heat-cured polymethyl methacrylate based on composition, polymerization and clinical application, Identifying and describe the physical stages of PMMA polymerization during cold cure processing. Students should be able to compare acrylic and porcelain teeth in terms of composition, bonding, esthetics and wear-resistance and justify the selection of artificial teeth based on occlusal requirements, esthetics and patient needs.			
DMPD3 DM-003	Wrought alloys	Students should be able to identify and describe wrought alloys used in prosthodontic applications and correlate the mechanical properties of stainless steel with its prosthodontic uses. Students should be able to define annealing and describe its importance in modifying the properties of alloys after work hardening.	Lecture	MCQ, SGD, VIVA	Philips Science of Dental Materials
DMPD3 DM-004	Waxes and Separating Media	Students should be able to classify the type of waxes used in dentistry according to their use as pattern, processing and impression waxes. They should be able to explain ideal properties of dental waxes and discuss the components, properties and applications of dental waxes. They should be able to explain the ideal requirements for inlay wax. Students should be able to Identify and classify	Lecture, Practical, SGD	Mcq, VIVA, OSPE	Philips Science of dental material



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		the various separating media used in dental laboratory procedures, explain the purpose and mechanism of separating media in preventing material adhesion during processing, describe the composition, manipulation, and clinical relevance of commonly used separating media.			
DMPD3 DM-005	Investment Materials and Casting Procedures	1. Define investment materials and classify them based on composition and application. 2. Describe the components of gypsum-bonded, phosphate-bonded, and silica-bonded investment materials. 3. Explain the functions of investment materials in the dental casting process. 4. Define setting and thermal expansion in investment materials 5. Describe the desirable properties of dental investment materials. 6. Describe and sequence the steps in the dental casting procedure from pattern fabrication to finishing 7. Identify different types and causes of porosity in dental castings. 8. Analyze the causes of common casting defects and suggest preventive measures. 9. Describe the design, types, and functions of sprue formers in dental casting.	Lecture, SGD	MCQ	Philips Science of dental material
DMPD3 DM-	Finishing and	1.Explain Principles of	Lectures, TBL	MCQ	Philips



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006	polishing	cutting, grinding, finishing and polishing 2. Identify significance of finishing and polishing procedures. 3. Compare two body and three body wear. 4. Define abrasion, erosion and air abrasion technology 5. Enlist hazards of abrasive procedures 6. Enumerate different types of abrasives and their uses in dentistry			Science of dental material
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HEPATORENAL

INTRODUCTION TO MODULE

Focuses on the structure, function, and pathology of the liver and kidneys, highlighting their roles in systemic homeostasis. Emphasizes the impact of hepatic and renal dysfunction on drug metabolism, bleeding, infection control, and dental treatment planning. Integrates biomedical knowledge with clinical, pharmacological, and ethical considerations for safe, patient-centered dental care.

THE MODULAR OUTCOME

- Explain liver and kidney functions in detoxification, metabolism, and excretion.
- Interpret hepatic and renal function tests for dental treatment planning.
- Identify oral and systemic signs of hepatorenal diseases relevant to dentistry
- Modify drug selection and dosage in patients with liver or kidney impairment.
- Correlate biochemical tests with hepatorenal pathology.
- Describe major hepatic and renal diseases and their histopathology.
- Apply ethical communication and interdisciplinary care in managing medically compromised patients.

PHYSIOLOGY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
HR-P-001	Vascular Anatomy and Functional Correlation of the Liver	1. Explain the vascular organization of the liver and correlate it with its roles in detoxification, metabolism, and hemostasis. 2. Differentiate between hemolytic and obstructive jaundice.	Lectures	MCQs OSVE OSPE	Guyton and Hall 14th edition
HR-P-001	Structure– Function Relationships	Explain the processes of glomerular filtration, tubular reabsorption. State normal GFR	Lectures	MCQs OSVE OSPE	Guyton and Hall 14th edition



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	in Renal Physiology	and filtration fraction values explain determinants of GFR. Describe the mechanism of autoregulation of GFR			
BIOCHEMISTRY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
HR-B-001	Nitrogen Removal from Amino Acids	1. Differentiate between L-alpha amino acids and alpha-keto acids (carbon skeleton). Enumerate alpha-keto acids of alanine, glutamate, and aspartate. 2. Define transamination & explain its biochemical significance. 3. Describe the reactions catalyzed by alanine aminotransferase (ALT) and aspartate aminotransferase (AST) 3. Discuss the role of pyridoxal phosphate (PLP) in transamination reactions 4. Explain the diagnostic importance of AST and ALT 5. Define oxidative deamination and outline its physiological significance 6. Describe the reaction catalyzed by glutamate dehydrogenase (GDH)	Lectures/SGDS/ Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
HR-B-002	Sources and Transport of Ammonia	1. Enlist sources of ammonia. Outline the two major mechanisms for transport of ammonia from peripheral tissues to liver. 2. Enumerate transport forms of ammonia.	Lectures/SGDS/ Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
HR-B-003	Disposal of Amino Groups: Urea Cycle	1. Explain the reactions, regulatory mechanisms, and physiological significance of the urea cycle, and state the normal blood urea levels.	Lectures/SGDS/ Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
HR-B-004	Ammonia Metabolism And	1. Describe the normal blood ammonia levels and explain the	Lectures/SGDS/ Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper



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	Hyperammonemia	biochemical basis of ammonia-induced CNS toxicity. 2.Enlist inherited & acquired causes of hyperammonemia 3.Describe the effects of hyperammonemia on brain. 4.Discuss the dietary and pharmacological strategies use in its management of hyperammonemia.			Illustrated Review, Mushtaq Ahmed Biochemistry
HR-B-005	Glutamine Metabolism	Briefly describe the metabolism & importance of glutamine in human body	Lectures/SGDS/Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
HR-B-006	Heme Degradation and Jaundice	Describe heme degradation and jaundice.	Lectures/SGDS/Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
HR-B-007	Liver Function and Clinical Correlations in Dentistry	Interpret elevated ALT and AST values in patient histories to anticipate potential bleeding risks and altered drug metabolism during dental Treatment.	Lectures/SGDS/Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
HR-B-008	renal structure–function	Explain renal structure–function relationships underlying fluid balance, drug excretion, and homeostasis.	Lectures/SGDS/Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
HR-B-009	pH Regulation Mechanisms	Explain the renal mechanisms involved in hydrogen ion homeostasis.	Lectures/SGDS/Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
PHARMACOLOGY & THERAPEUTICS					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference



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HR-Ph-003	Diuretics	Explain five major types of diuretics, their mechanism of action, major application and toxicities.	Lectures	MCQs & OSVE	Mini Katzung & Trevor
HR-Ph-002	Drug dose modification in Hepatic impairment	Explain how to make dose modification chart for analgesics, antibiotics and local anesthetics for hepatic patients	Lectures	MCQs & OSVE	Mini Katzung & Trevor
PATHOLOGY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
HR-Pa-001	Liver Function Tests	Interpret basic liver function tests (ALT, AST, ALP, INR) to assess hepatic function and disease severity.	Lecture, CFRC	MCQs, CFRC	Robbin's Pathology 10th Edition
HR-Pa-002	Hepatic Coagulopathies	Explain the mechanisms of hepatic coagulopathies and relate them to increased bleeding risk.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
HR-Pa-003	Renal Function Tests	Explain and compare eGFR, CBC, and related renal function tests in distinguishing acute from chronic kidney disease.	Lecture, CFRC	MCQs, OSVE, OSPE	Robbin's Pathology 10th Edition
HR-Pa-004	Edema – Types and Mechanisms	Define and classify types of edema and explain their underlying causes.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
HR-Pa-005	Blood Borne Hepatic Infection and Their Relationship to Patient Safety and Infection Control Module.	Discuss the viral characteristics and diagnosis of HBV Discuss the viral characteristics and diagnosis of HCV. Discuss the window period in the diagnosis of HBV & HCV and its significance in dental surgery. Discuss the vaccination of HBV & HCV and its importance for a dental surgeon.	Lecture, Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition
HR-Pa-006	Hepatic infection and their relationship to	Discuss the viral characteristics and diagnosis of HAV. Discuss the viral characteristics and diagnosis of HDV. Discuss the viral characteristics and diagnosis of HEV.	Lecture /Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition



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	patient safety and infection control module	Discuss the vaccination of HAV and HEV			
HR-Pa-007	Entamoeba histolytica	Discuss briefly the life cycle and diseases caused by Entamoeba histolytica.	Lecture /Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition
HR-Pa-008	Echinococcus granulosis	Discuss briefly the life cycle and diseases caused by Echinococcus granulosis	Lecture /Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition
HR-Pa-009	UTI	Discuss briefly the bacteria that cause Urinary Tract Infection.	Lecture /Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition
HR-Pa-010	Microorganisms causing renal infections	Discuss briefly the microbial characteristics, disease spectrum, diagnosis, and renal infection caused by: i. E. coli ii. Proteus iii. Staphylococcus saprophyticus iv. Klebsiella v. Pseudomonas	Lecture /Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition

ORAL MEDICINE

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
HR-OM-001	Oral Manifestations of Hepatic Diseases	Explain the oral implications of hepatitis, cirrhosis, and hepatic failure	Lecture	MCQs	Medical Problems in Dentistry, 5th Edition, Crispian Scully
HR-OM-002	Dental Considerations in Hepatic Disorders	Recognize hepatic conditions most relevant to general dental care and their impact on treatment planning	Lecture	MCQs, SEQ	Medical Problems in Dentistry, 5th Edition, Crispian Scully
HR-OM-003	Infection Control and Post-Exposure Prophylaxis for Hepatitis	Explain the principles of post-exposure prophylaxis (PEP) for Hepatitis B and Hepatitis C	Lecture	MCQs	Medical Problems in Dentistry, 5th Edition, Crispian Scully
HR-OM-004	Drug Dose Modification in Hepatic	Apply dose-modification charts for analgesics, local anesthesia, and common antibiotics in hepatic patients	Lecture	MCQs	Medical Problems in Dentistry, 5th Edition, Crispian Scully



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	Impairment				
HR-OM-005	Laboratory Interpretation and Dental Management in Renal Disorders	Interpret lab findings CBC, RFTs (urea, creatinine), Bleeding time and (PT, APTT, & INR) to plan dental treatment for acute and chronic renal conditions	Lecture	MCQs, SEQ	Medical Problems in Dentistry, 5th Edition, Crispian Scully
HR-OM-006	Oral Health Considerations in Renal Dialysis Patients	Describe the risk factors for patients undergoing renal dialysis associated with oral cavity.	Lecture	MCQ	Medical Problems in Dentistry, 5th Edition, Crispian Scully

PSYCHIATRY & BEHAVIORAL SCIENCES

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
HR-BhS-001	Communication	Explain the principles for communicating diagnosis, treatment modifications and infection control measures to patients with hepatic disease in a clear, non-stigmatizing manner	Lecture / practical	MCQ / OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
HR-BhS-002	Motivational Interviewing Skills	Explain the OARZ motivational interviewing, micro skills and describe how they can be applied to improve patient adherence to liver and kidney health recommendations	Lecture / practical	MCQ/ OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
HR-BhS-003	Shared Decision Making	Explain the principles and appropriate use of shared decision tools in developing a bleeding risk mitigation plan collaboratively with the patient and the physician	Lecture / practical	MCQ/OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral



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					Sciences in Healthcare.
HR-BhS-004	Anxiety Reduction Techniques	Describe the principles and rationale of anxiety reduction techniques (such as tell show do and paced breathing)used when preparing medically compromised patients for dental procedures	Lecture	Mcq	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
HR-BhS-005	Ethical Considerations	Discuss ethical delimas encountered in pain management for patients with liver disease and explain the rationale for an appropriate justified prescribing medicine	Lecture	Mcq	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
HR-BhS-006	Reflective Practice	Describe communication and professionalism challenges encountered in clinical practice and outline a monthly goal to improve one specific aspect	Lecture	Mcq	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
HR-BhS-007	Principles of Patient Centred Communication	Explain principles of patient centred communication and shared decision making	Lecture	Mcq	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
HR-BhS-008	Application of Patient Centered Care	Explain the principles of patient centred communication and shared descion making in the management of individuals with hepatic disease	Lecture/PRATICAL	Mcq/OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
HR-BhS-009	Interdisciplinary Coordination	Explain the process of coordinating referrals and follow ups with heapatology services	Lecture/ practical	Mcq/OSVI	Rana, Mowadat H. Behavioural



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	and Continuity of Care	using structured communication templated and shared electronic records			Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
HR-BhS-010	Patient Education and Health Literacy in Dental Practice	Explain strategies for providing patient education on prevention and postoperative care using clear , literacy appropriate written and verbal instructions	Lecture/ practical	Mcq/viva	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.

PRACTICAL /LAB WORK

BIOCHEMISTRY

Code	Topic	Learning Outcome
HR-B- 010	Estimation of Blood Urea	Estimate blood urea levels using standard biochemical methods and interpret results in relation to renal function.
HR-B- 011	Estimation of Serum Creatinine	Estimate serum creatinine concentration and interpret findings to assess glomerular filtration efficiency.
HR-B- 012	Estimation of Total and Direct Bilirubin	Estimate total and direct serum bilirubin and interpret values to differentiate between hemolytic, hepatic, and obstructive jaundice.

PHARMACOLOGY & THERAPEUTICS

Code	Topic	Learning Outcome
HR-Ph-003	Principles and Guidelines of Prescription Writing	Demonstrate correct prescription writing by accurately completing all components
HR-Ph-004	Dose Adjustment Strategies in Renal and Hepatic Impairment	Perform dose calculations for medications requiring adjustment in renal and hepatic impairment

PATHOLOGY

Code	Topic	Learning Outcome



ENDOCRINOLOGY

INTRODUCTION TO MODULE

The Endocrinology module provides an integrated understanding of endocrine glands, hormones, and their regulation, with emphasis on growth, metabolism, calcium homeostasis, and stress responses. It equips dental students to recognize oral and systemic manifestations of hormonal disorders and apply safe, informed clinical decision-making in patients with endocrine diseases such as diabetes and thyroid disorders.

THE MODULAR OUTCOME

- Identify major endocrine glands, hormones, and regulatory mechanisms.
- Explain the roles of pituitary, thyroid, parathyroid, adrenal, and pancreatic hormones in metabolism and calcium balance.
- Describe key biochemical pathways of thyroid hormones, insulin, and vitamin D.
- Interpret basic endocrine function tests and correlate them with oral and systemic findings.
- Recognize oral and systemic features of common endocrine disorders (e.g., diabetes, thyroid and parathyroid diseases).
- Explain the dental relevance and precautions of antidiabetic, antithyroid, and corticosteroid drugs.
- Correlate endocrine disorders with dental implications such as bone metabolism, salivary changes, and healing.
- Apply endocrine-related clinical and laboratory data for safe dental decision-making.



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PHYSIOLOGY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
EnC-P-001	Introduction to Endocrinology	Enlist the major endocrine glands and their hormones. Classify hormones broadly based on chemical structure (peptide, steroid, amine). Differentiate between surface and intracellular hormone receptors. Explain the basic concept of feedback control in hormone secretion	Lectures	MCQs OSPE OSVE	Guyon and Hall 14th edition
EnC-P-002	Pituitary Hormones and Their Control by the Hypothalamus	Describe the basic anatomy of pituitary gland and its relation to hypothalamus. Identify the main hormones of the anterior and posterior pituitary and state their primary functions Outline the effects of growth hormone on growth and metabolism Explain the pathophysiology of growth-related disorders—dwarfism, gigantism, and acromegaly. Describe the main functions of ADH (in water balance) and oxytocin (in labor and lactation).	Lectures	MCQs OSPE OSVE	Guyon and Hall 14th edition
EnC-P-003	Thyroid Gland	Outline the basic functions of thyroid hormones. Discuss the salient clinical features of major thyroid disorders: hyperthyroidism, hypothyroidism, cretinism, and myxedema	Lectures	MCQs OSPE OSVE	Guyon and Hall 14th edition
EnC-P-004	Calcium Regulating Hormones	Outline the basic functions of parathyroid hormone, calcitonin, and vitamin D in calcium and bone metabolism. Describe clinical conditions	Lectures	MCQs OSPE OSVE	Guyon and Hall 14th edition



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		associated with calcium imbalance: hypoparathyroidism, hyperparathyroidism, rickets, osteomalacia, and osteoporosis.			
EnC-P-005	Adrenal Glands	Name the main adrenal cortical hormones and describe the physiological functions of cortisol, and aldosterone. Discuss the salient features of Cushing's syndrome and Addison's disease. Describe the main actions of insulin and glucagon on carbohydrate, protein, and fat metabolism	Lectures	MCQs OSPE OSVE	Guyon and Hall 14th edition
EnC-P-006	Pancreas	Differentiate between Type I and Type II diabetes mellitus based on etiology and pathophysiology. Discuss the general features and complications of diabetes mellitus.	Lectures	MCQs OSPE OSVE	Guyon and Hall 14th edition

BIOCHEMISTRY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
EnC-B-001	Synthesis of Thyroid and Parathyroid Hormones	Outline the main steps of thyroid hormone synthesis (iodide uptake, iodination, coupling, storage, release) State how parathyroid hormone is synthesized and its role in calcium regulation	Lectures/SGDS/ Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
EnC-B-002	Synthesis of Insulin and Glucagon	1. Describe, in simple terms, how insulin and glucagon are produced in pancreatic islet cells 2. Explain the clinical significance of C-peptide (marker of insulin secretion)	Lectures/SGDS/ Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry



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		3.Compare key features of Type 1 and Type 2 diabetes mellitus 4.Describe the pathways of beta-oxidation and ketogenesis and explain their metabolic significance.			
EnC-B-003	Vitamins	Describe vitamin D and its active form, sources, RDA, biochemical roles,	Lectures/SGDS/Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
EnC-B-004	Calcium	Describe metabolism of calcium	Lectures/SGDS/Assignments	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry

PHARMACOLOGY & THERAPEUTICS

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
EnC-Ph-001	Antidiabetic drugs: Insulin	Discuss in detail major effects, types, uses and side effects of insulin. Will discuss new agents	lecture	MCQs/ OSVE	Mini Katzung & Trevor .Latest edition
EnC-Ph-002	Oral antidiabetic drugs	Discuss main groups of oral antidiabetic drugs, their mechanism of action, side effects and contraindication	lecture	MCQs/ OSVE	Mini Katzung & Trevor. Latest edition
EnC-Ph-003	Thyroid hormones & Antithyroid drugs	Discuss the synthesis and function of thyroid hormone. Explain mechanism of antithyroid drugs, role of iodides and beta blockers in hyperthyroidism	lecture	MCQs/ OSVE	Mini Katzung & Trevor. Latest edition



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EnC-Ph-004	Adrenal hormones – I	Discuss the main adrenal steroid hormone., difference between short and intermediate and long acting glucocorticoids	lecture	MCQs/ OSVE	Mini Katzung & Trevor. Latest edition
EnC-Ph-005	Adrenal hormones – II	Describe therapeutic uses of glucocorticoids and adverse effects of corticosteroids, describe pharmacokinetics mechanism of action, uses adverse effects of corticosteroid antagonist	lecture	MCQs/ OSVE	Mini Katzung & Trevor. Latest edition
PATHOLOGY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
EnC-Pa-001	Prevotella	Discuss the microbiological characteristics, disease spectrum and brief diagnosis of Prevotella.	Lecture	MCQs	Levinson's Microbiology 18th Ed
EnC-Pa-002	Bacteroides	Discuss the microbiological characteristics, disease spectrum and brief diagnosis of Bacteroides.	Lecture	MCQs	Levinson's Microbiology 18th Ed
EnC-Pa-003	Lactobacillus.	Discuss the microbiological characteristics, disease spectrum and brief diagnosis of Lactobacillus.	Lecture	MCQs	Levinson's Microbiology 18th Ed
EnC-Pa-004	C. perfringens	Discuss the microbiological characteristics, disease spectrum and brief diagnosis of C.perfringens.	Lecture	MCQs	Levinson's Microbiology 18th Ed
EnC-Pa-005	Firmicutes	Discuss the microbiological characteristics, disease spectrum and brief diagnosis of firmicutes.	Lecture	MCQs	Levinson's Microbiology 18th Ed
EnC-Pa-006	Staphylococci	Discuss the microbiological characteristics, disease spectrum and brief diagnosis of Staphylococci.	Lecture	MCQs, OSVE	Levinson's Microbiology 18th Ed
EnC-Pa-007	HIV	Discuss the microbiological characteristics, disease spectrum and brief diagnosis of HIV and its relation with dental surgery.	Lecture	MCQs, OSVE	Levinson's Microbiology 18th Ed



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ORAL BIOLOGY & TOOTH MORPHOLOGY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-OB-001	Morphology of Deciduous & Permanent Molars	1.Describe the general considerations and detailed morphology of the labial, lingual, mesial, distal, occlusal aspects, and root structure of deciduous & permanent molars Identify and explain variations and anomalies in crown and root morphology of deciduous & permanent molars. 2.Enlist and compare key identification features of maxillary deciduous & permanent molars based on cusp pattern, crown outline, and root configuration. 3.List and compare key identification features of deciduous & permanent mandibular molars based on cusp pattern, crown outline, and root configuration.	LGD/SGD/ TUTORIALS	MCQ/OSPE/ OSVE	James fuller 9th edition
Car2-OB-002	Pulp Morphology and Radiographic Correlation	Explain and analyze the number, shape, and anatomical variations of pulp canals and pulp chambers in deciduous & permanent molars, with reference to radiographic appearances.	LGD/SGD/ TUTORIALS	MCQ/OSPE/ OSVE	James fuller 9th edition

SCIENCE OF DENTAL MATERIALS

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
DMPD2-DM-001	Fundamental Requirements of Direct Restorative Materials	Students should know the requirements of direct restorative materials	Lecture	MCQ, Viva	Philips Science of dental materials



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DMPD2-DM-002	Dental Amalgam — Composition, Manipulation & Safety	Students should know the Selection of amalgam alloys and their classification, composition, properties. Manufacturing and processing. Manipulation, setting chemistry and uses. High and low Copper amalgam. Composition, Manipulation, uses. Classification, ideal properties, Manipulation and Application Disposal of waste and toxicity	Lecture, Practical, PBL	MCQ, Viva	Philips Science of dental materials
DMPD2 DM-003	Dentin bonding agents	Students should be able to define the hybrid layer, how resin infiltrates and demineralizes dentin to create the “interdiffusion zone”. Students should explain why bonding to wet, organic dentin is harder than bonding to dry, inorganic enamel and describe how this cutting debris is either removed or modified by different bonding systems. Students should be able to differentiate the specific roles of the Etchant(acid), Primer(monomer) and Adhesive(resin), categorize agents by generation (1st - 8th) and by strategy (Etch and Rinse vs. Self-Etch) and explain how keeping dentin moist prevents the collapse of collagen fibers during the procedure.	Lecture, Practicals, SGD	MCQ, Viva	Philips Science of dental materials
DMPD2 DM-003	Composites	Students should be able to describe the composition, detail the roles of the organic matrix (Bis-GMA), inorganic fillers and the silane coupling agent in the composition structure. Students should be able to categorize materials based on filler particle size and explain how this determines clinical use. Students should explain the polymerization process, polymerization shrinkage, chemical stages of light activation and the function of	Lecture, SGD, Practical	MCQ, OSPE, Viva	Philips Science of dental materials



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		the photo-initiator Camphorquinone. Students should be able to explain the mechanism of “setting stress” and how it leads to marginal microleakage and post-operative sensitivity and analyze the C-Factor(configuration factor) and how it dictates incremental layering. Students should be able to differentiate material properties and compare the viscosity, flow and mechanical strength of Flowable vs. Packable composites. They should be able to explain the role of coupling agents and describe how Silane creates a chemical bond between the filler particles and the resin matrix to ensure structural integrity. Students should be able to describe the sequence of using abrasive instruments to achieve a surface that resists plaque accumulation outlining finishing and polishing protocol.			
DMPD2 DM-004	Dental Cements	Students should be able to classify dental cements according to composition and clinical use and can differentiate between temporary and permanent cements based on composition, strength, and clinical application. They should be able to explain the manipulation, setting characteristics, and clinical applications of major dental cements including zinc phosphate, GIC, calcium hydroxide, zinc polycarboxylate and ZOE.	Lectures, Practicals and SGD	MCQ, OSPE, Viva	Philips Science of dental materials
DMPD2 DM-006	Glass Ionomer Cement	Students should have a command on chemical composition, physical and chemical properties, setting reaction, fluoride release and environmental interaction mechanism	Lecture	MCQ, Viva	Philips Science of dental materials



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		Students should know about RMGIC development and their advantage over GIC. students should have knowledge about modifications of GIC and metal reinforced GIC.			
OPERATIVE DENTISTRY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-OD-001	Class I cavity preparation for amalgam	Outline the principles and steps of class I amalgam cavity design Describe briefly the special physiologic and structural characteristics of the pulp–dentin complex and explain how these influence the pulpal response to injury.	Lecture /practical/clinical demonstration	MCQ/ OSCE VIVA	Sturdevant science od operative dentistry 8th edition
Car2-OD-002	Lining and Pulpal Protection materials	Explain the advantages, limitations, and appropriate uses of various lining and pulpal protection materials Identify and describe the clinical uses and key considerations associated with different materials used for pulpal protection	Lecture	MCQ/ OSCE/ VIVA	Sturdevant science od operative dentistry 8th edition
Car2-OD-003	Amalgam Restoration in class I	Describe the principles of restoration design for amalgam, including condensation, carving, finishing, and the factors influencing marginal integrity and longevity of the restoration.	Lecture/ practical/clinical demonstration	MCQ OSCE/ VIVA	Sturdevant science od operative dentistry 8th edition
ORAL MEDICINE / DENTAL RADIOLOGY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-DR-001	Radiographic Caries Interpretation	Assess and interpret radiographs to determine the depth and severity of carious lesions	Lecture, Practical	MCQ	Dental Radiology by Eric Whaites, 5th edition or higher



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COMMUNITY & PREVENTIVE DENTISTRY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-CD-001	Caries Risk Assessment	1. Identify and classify risk factors: Students should be able to distinguish between caries risk indicators (e.g., socioeconomic status), risk factors (e.g., biofilm composition, salivary flow), and protective factors (e.g., fluoride exposure). Formulate risk-based treatment plans: categorise patients into low, moderate, high, or extreme risk groups and propose specific recall intervals and preventive interventions suitable for each category. Utilize assessment tools: Demonstrate the ability to use standard Caries Risk Assessment (CRA) models, such as CAMBRA (Caries Management by Risk Assessment) or the AAPD CAT, to evaluate a patient's individual risk profile.	Lecture/practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John
Car2-CD-002	Preventive and Patient Centered Strategies	Master plaque control measures: Explain and demonstrate mechanical plaque control techniques (brushing methods like Bass or Fones) and prescribe appropriate chemical plaque control agents (chlorhexidine, mouthwashes) based on patient needs. Apply Minimal Intervention Dentistry (MID): Understand the principles of MID, including the early detection of lesions and the remineralization of non-cavitated lesions using amorphous calcium phosphate (ACP) or CPP-ACP (Recaldent).	Lecture Practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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		Design patient education protocols: Develop patient-centered communication strategies to motivate behavioral change, utilizing tools like Motivational Interviewing to encourage adherence to oral hygiene instructions.			
Car2-CD-003	Fluoride Use and Toxicity	Explain mechanisms of action: Describe how fluoride interacts with hydroxyapatite crystals to form fluorapatite, reduces enamel solubility, and inhibits bacterial metabolism (enolase enzyme inhibition). Differentiate delivery systems: Compare and contrast the indications and application techniques for systemic fluorides (water fluoridation, tablets/drops) versus topical fluorides (varnishes, gels, toothpastes, and rinses). Manage toxicity and fluorosis: Identify the clinical signs of acute fluoride toxicity and chronic toxicity (dental and skeletal fluorosis). Students must know the Probably Toxic Dose (PTD) and be able to outline emergency management steps for acute overdose.	Lecture Practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John
Car2-CD-004	Dietary and Behavioral Factors	Analyze the diet-carries relationship: Interpret the Vipeholm Study and Turku Sugar Studies to explain the carcinogenicity of sucrose compared to starch, focusing on the frequency of intake versus the total amount consumed. Interpret the Stephan Curve: Describe the pH changes in dental plaque following sugar consumption, defining critical pH (5.5) and the variables that affect the clearance of acids from the oral cavity. Conduct dietary counseling: Perform a diet analysis (using a 24-hour recall or diet diary) and provide specific counseling to	Lecture	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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		replace cariogenic foods with non-cariogenic or cariostatic alternatives (e.g., xylitol, cheese, nuts).			
Car2-CD-005	Epidemiology And Community Level Prevention	Utilize dental indices: Calibrate and apply standard epidemiological indices for measuring dental caries, specifically the DMFT/DMFS (for permanent teeth) and dmft/dmfs (for primary teeth) indices. Analyze epidemiological trends: Define prevalence and incidence rates of dental caries and identify current global and regional trends in caries distribution to determine high-risk populations. Implement community programs: Design and evaluate community-based preventive programs, such as School Dental Health Programs, water fluoridation schemes, and milk fluoridation initiatives.	Lecture Practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John

PSYCHIATRY & BEHAVIORAL SCIENCES

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-BhS-001	Communication Skills for Preventive Dentistry (OARS and 5A's Approach)	Explain the use of OARS micro skills and their role in enhancing patient commitment to preventive oral health measures	Lecture / practical	MCQ / VIVA	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.



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Car2-BhS-002	Behavior Change Frameworks in Patient Counseling	Explain a behavior change framework and use it to identify barriers and propose a tailored oral health plan	Lecture/ practical	MCQ/ OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
Car2-BhS-003	Anxiety Reduction Techniques in Preventive Dental Care	Explain basic anxiety reduction techniques and their application during risk assessment and Fluoride therapy	Lecture/ practical	MCQ / OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare
Car2-BhS-004	Dietary Counseling and Fluoride Application	Explain the 5 As dietary counselling approach and describe how to assess and document patient readiness for behavioral change	Lecture/ practical	MCQ / OSVI	Rana, Mowadat H. Behavioral Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare
Car2-BhS-005	Reflection and Assessment in Self Preventive	Evaluate preventive communication encounters and identify strategies for improvement	Lecture/ practical	MCQ / OSVI	Rana, Mowadat H. Behavioral Sciences.



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	Communication				3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare
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PROSTHODONTICS

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-PD-001	Retainers	Enlist direct retainers used for acrylic and cast partial dentures.	lecture	MCQs	McCracken's removable partial dentures.
Car2-PD-002	Retainers	Differentiate between direct retainers of cast and acrylic partial denture.	lecture	MCQs	McCracken's removable partial dentures

ORAL PATHOLOGY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-OP-001	Tooth Surface Loss and Enamel Defects	Should be able to identify Attrition, Abrasion, Erosion	Interactive lecture, Practical, SGD	Assignment, MCQs, OSPE	Oral Pathology Contemporary Chapter 11
Car2-OP-002	Pulpitis	Student be able to know pathogenesis and Histopathology of Reversible, irreversible, Acute Chronic Pulpitis, Chronic hyperplastic and Pulpal Necrosis	Interactive Lecture, Practical, CBL	Assignment, MCQs, OSPE	Contemporary Oral Path Ch 3

PRACTICAL/LAB WORK

ORAL BIOLOGY & TOOTH MORPHOLOGY

Code	Topic	Learning Outcome
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Car2-OB-003	Morphology of Permanent Molars	Identify and draw the outlines of all permanent molars (labial, lingual, mesial, distal, and occlusal aspects) on paper or models, labeling their key features, including oblique ridges and root anatomy,
Car2-OB-004	Identification and Labeling of Molar Anatomical Features	Accurately label all key morphological features (Cusps name, cusp ridges, marginal ridges, transverse ridges, triangular ridges, fossa, developmental depressions, contact points, name of roots/pulp canals, pits C grooves) on molar models
Car2-OB-005	Molars	Carve anatomical models of molars using soap blocks/ wax block Carve anatomical models of molars using soap blocks/ wax blocks
SCIENCE OF DENTAL MATERIALS		
Code	Topic	Learning Outcome
DMPD2 DM-007	Manipulation techniques for Dental Cements	Students should be able to manipulate cements with correct technique and powder liquid ratio
DMPD2 DM-007	Dental amalgam	Students should be able to perform trituration with the correct mercury-alloy ratio. Also demonstrate condensation, burnishing, finishing and carving.
OPERATIVE DENTISTRY		
Code	Topic	Learning Outcome
Car2-OD-004	Isolation	Perform rubber dam application for isolation on typodont
Car2-OD-005	Class I Cavity Preparation	Prepare a G.V. Black's Class I cavity on typodont for an amalgam restoration (premolars & molars).
Car2-OD-006	Pulp protection	Apply liners & bases in a prepared cavity
Car2-OD-007	Class I with amalgam	Restore a prepared Class I cavity on a typodont with dental amalgam, following proper techniques of trituration, condensation, carving, and finishing.
COMMUNITY & PREVENTIVE DENTISTRY		
Code	Topic	Learning Outcome
Car2-CD-006	Oral Health Assessment and Risk Evaluation	Conduct Comprehensive Patient Evaluation: Demonstrate proficiency in obtaining a complete medical, dental, and social history to identify systemic conditions (e.g., Diabetes, Hypertension) that influence oral health treatment planning. Apply Periodontal and Hygiene Indices: Calibrate and utilize specific indices to assess oral hygiene and periodontal status, specifically the Oral Hygiene Index-Simplified (OHI-S) and the Community Periodontal Index (CPI/CPITN). Evaluate Periodontal and Soft Tissue Risk: Analyze risk factors for periodontal disease (such as smoking, stress, and biofilm control) and perform basic screening for oral mucosal lesions to assess the risk of oral cancer.
PROSTHODONTICS		



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Code	Topic	Learning Outcome
Car2-PD-003	Preparation of Edentulous Cast	Prepare an edentulous cast suitable for the fabrication of a complete denture.
Car2-PD-004	Wax-Up of Upper Base Plate	Perform wax-up of the trial denture upper base plate ensuring proper extension and adaptation.
Car2-PD-005	Wax-Up of Lower Base Plate	Perform wax-up of the trial denture lower base plate ensuring correct border extension and stability.
Car2-PD-006	Flanking of Upper and Lower Base Plates	Demonstrate correct procedure for flaking trial denture upper and lower base plates prior to processing
Car2-PD-007	Dewaxing of Upper and Lower Base Plates	Perform dewaxing for trial denture upper and lower base plates, maintaining the accuracy of denture form.
Car2-PD-008	Packing, Curing, and Finishing of Base Plates	Carry out packing, curing, and finishing of trial denture base plates, ensuring smooth and well-adapted surfaces.



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OCCLUSION II

INTRODUCTION TO MODULE

Occlusion II advances students' understanding of functional occlusion and its application in restorative and prosthodontic dentistry. The module integrates biological, mechanical, and material principles to support accurate jaw relations, balanced occlusion, and effective esthetic and functional rehabilitation.

THE MODULAR OUTCOME

- Describe facial growth patterns and profiles and their relation to occlusal development.
- Differentiate supporting and non-supporting cusps and their role in occlusal stability.
- Classify malocclusions and relate them to facial, skeletal, and dental discrepancies.
- Explain jaw relations and occlusal schemes used in complete dentures.
- Compare balanced, lingual zed, and monoplane occlusion.
- Apply compensating curves to achieve balanced articulation.
- Identify articulators and their role in occlusal accuracy.
- Arrange teeth for complete dentures ensuring esthetics, function, and balance.
- Perform complete denture laboratory procedures with occlusal adjustment.
- Describe principles of Class II cavity preparation and occlusal integrity.
- Identify occlusal discrepancies in restorations and their clinical impact.
- Manipulate non-elastic impression materials for complete dentures.
- Explain dental casting alloys, investment materials, procedures, and defect prevention.



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ORAL BIOLOGY & TOOTH MORPHOLOGY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-OB-001	Morphology of Deciduous & Permanent Molars	1.Describe the general considerations and detailed morphology of the labial, lingual, mesial, distal, occlusal aspects, and root structure of deciduous & permanent molars Identify and explain variations and anomalies in crown and root morphology of deciduous & permanent molars. 2.Enlist and compare key identification features of maxillary deciduous & permanent molars based on cusp pattern, crown outline, and root configuration. 3.List and compare key identification features of deciduous & permanent mandibular molars based on cusp pattern, crown outline, and root configuration.	LGD/SGD/ TUTORIALS	MCQ/OSPE/ OSVE	James fuller 9th edition
Car2-OB-002	Pulp Morphology and Radiographic Correlation	Explain and analyze the number, shape, and anatomical variations of pulp canals and pulp chambers in deciduous & permanent molars, with reference to radiographic appearances.	LGD/SGD/ TUTORIALS	MCQ/OSPE/ OSVE	James fuller 9th edition

SCIENCE OF DENTAL MATERIALS

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
DMPD2-DM-001	Fundamental Requirements of Direct Restorative Materials	Students should know the requirements of direct restorative materials	Lecture	MCQ, Viva	Philips Science of dental materials
DMPD2-DM-002	Dental Amalgam — Composition,	Students should know the Selection of amalgam alloys and	Lecture, Practical, PBL	MCQ, Viva	Philips Science of



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	Manipulation & Safety	their classification, composition, properties. Manufacturing and processing. Manipulation, setting chemistry and uses. High and low Copper amalgam. Composition, Manipulation, uses. Classification, ideal properties, Manipulation and Application Disposal of waste and toxicity			dental materials
DMPD2 DM-003	Dentin bonding agents	Students should be able to define the hybrid layer, how resin infiltrates and demineralizes dentin to create the “interdiffusion zone”. Students should explain why bonding to wet, organic dentin is harder than bonding to dry, inorganic enamel and describe how this cutting debris is either removed or modified by different bonding systems. Students should be able to differentiate the specific roles of the Etchant(acid), Primer(monomer) and Adhesive(resin), categorize agents by generation (1st - 8th) and by strategy (Etch and Rinse vs. Self-Etch) and explain how keeping dentin moist prevents the collapse of collagen fibers during the procedure.	Lecture, Practicals, SGD	MCQ, Viva	Philips Science of dental materials
DMPD2 DM-003	Composites	Students should be able to describe the composition, detail the roles of the organic matrix (Bis-GMA), inorganic fillers and the silane coupling agent in the composition structure. Students should be able to categorize materials based on filler particle size and explain how this determines clinical use. Students should explain the polymerization process, polymerization shrinkage, chemical stages of light activation and the function of the photo-initiator Camphorquinone. Students	Lecture, SGD, Practical	MCQ, OSPE, Viva	Philips Science of dental materials



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		should be able to explain the mechanism of “setting stress” and how it leads to marginal microleakage and post-operative sensitivity and analyze the C-Factor(configuration factor) and how it dictates incremental layering. Students should be able to differentiate material properties and compare the viscosity, flow and mechanical strength of Flowable vs. Packable composites. They should be able to explain the role of coupling agents and describe how Silane creates a chemical bond between the filler particles and the resin matrix to ensure structural integrity. Students should be able to describe the sequence of using abrasive instruments to achieve a surface that resists plaque accumulation outlining finishing and polishing protocol.			
DMPD2 DM-004	Dental Cements	Students should be able to classify dental cements according to composition and clinical use and can differentiate between temporary and permanent cements based on composition, strength, and clinical application. They should be able to explain the manipulation, setting characteristics, and clinical applications of major dental cements including zinc phosphate, GIC, calcium hydroxide, zinc polycarboxylate and ZOE.	Lectures, Practicals and SGD	MCQ, OSPE, Viva	Philips Science of dental materials
DMPD2 DM-006	Glass Ionomer Cement	Students should have a command on chemical composition, physical and chemical properties, setting reaction, fluoride release and environmental interaction mechanism Students should know about RMGIC development and their advantage over GIC. students	Lecture	MCQ, Viva	Philips Science of dental materials



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		should have knowledge about modifications of GIC and metal reinforced GIC.			
OPERATIVE DENTISTRY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-OD-001	Class I cavity preparation for amalgam	Outline the principles and steps of class I amalgam cavity design Describe briefly the special physiologic and structural characteristics of the pulp–dentin complex and explain how these influence the pulpal response to injury.	Lecture /practical/clinical demonstration	MCQ/ OSCE VIVA	Sturdevant science of operative dentistry 8th edition
Car2-OD-002	Lining and Pulpal Protection materials	Explain the advantages, limitations, and appropriate uses of various lining and pulpal protection materials Identify and describe the clinical uses and key considerations associated with different materials used for pulpal protection	Lecture	MCQ/ OSCE/ VIVA	Sturdevant science of operative dentistry 8th edition
Car2-OD-003	Amalgam Restoration in class I	Describe the principles of restoration design for amalgam, including condensation, carving, finishing, and the factors influencing marginal integrity and longevity of the restoration.	Lecture/ practical/clinical demonstration	MCQ OSCE/ VIVA	Sturdevant science of operative dentistry 8th edition
ORAL MEDICINE / DENTAL RADIOLOGY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-DR-001	Radiographic Caries Interpretation	Assess and interpret radiographs to determine the depth and severity of carious lesions	Lecture, Practical	MCQ	Dental Radiology by Eric Whaites, 5th edition or higher
COMMUNITY & PREVENTIVE DENTISTRY					
Code	Topic	Learning Outcome	Teaching Methodology	Assessment Tools	Reference



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			(Lecture/ Practical/ Clinical)		
Car2-CD-001	Caries Risk Assessment	1. Identify and classify risk factors: Students should be able to distinguish between caries risk indicators (e.g., socioeconomic status), risk factors (e.g., biofilm composition, salivary flow), and protective factors (e.g., fluoride exposure). Formulate risk-based treatment plans: categorise patients into low, moderate, high, or extreme risk groups and propose specific recall intervals and preventive interventions suitable for each category. Utilize assessment tools: Demonstrate the ability to use standard Caries Risk Assessment (CRA) models, such as CAMBRA (Caries Management by Risk Assessment) or the AAPD CAT, to evaluate a patient's individual risk profile.	Lecture/practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John
Car2-CD-002	Preventive and Patient Centered Strategies	Master plaque control measures: Explain and demonstrate mechanical plaque control techniques (brushing methods like Bass or Fones) and prescribe appropriate chemical plaque control agents (chlorhexidine, mouthwashes) based on patient needs. Apply Minimal Intervention Dentistry (MID): Understand the principles of MID, including the early detection of lesions and the remineralization of non-cavitated lesions using amorphous calcium phosphate (ACP) or CPP-ACP (Recaldent). Design patient education protocols: Develop patient-centered communication strategies to motivate behavioral change, utilizing tools like	Lecture Practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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		Motivational Interviewing to encourage adherence to oral hygiene instructions.			
Car2-CD-003	Fluoride Use and Toxicity	Explain mechanisms of action: Describe how fluoride interacts with hydroxyapatite crystals to form fluorapatite, reduces enamel solubility, and inhibits bacterial metabolism (enolase enzyme inhibition). Differentiate delivery systems: Compare and contrast the indications and application techniques for systemic fluorides (water fluoridation, tablets/drops) versus topical fluorides (varnishes, gels, toothpastes, and rinses). Manage toxicity and fluorosis: Identify the clinical signs of acute fluoride toxicity and chronic toxicity (dental and skeletal fluorosis). Students must know the Probably Toxic Dose (PTD) and be able to outline emergency management steps for acute overdose.	Lecture Practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John
Car2-CD-004	Dietary and Behavioral Factors	Analyze the diet-carries relationship: Interpret the Vipeholm Study and Turku Sugar Studies to explain the carcinogenicity of sucrose compared to starch, focusing on the frequency of intake versus the total amount consumed. Interpret the Stephan Curve: Describe the pH changes in dental plaque following sugar consumption, defining critical pH (5.5) and the variables that affect the clearance of acids from the oral cavity. Conduct dietary counseling: Perform a diet analysis (using a 24-hour recall or diet diary) and provide specific counseling to replace cariogenic foods with non-cariogenic or cariostatic alternatives (e.g., xylitol, cheese, nuts).	Lecture	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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Car2-CD-005	Epidemiology And Community Level Prevention	Utilize dental indices: Calibrate and apply standard epidemiological indices for measuring dental caries, specifically the DMFT/DMFS (for permanent teeth) and dmft/dmfs (for primary teeth) indices. Analyze epidemiological trends: Define prevalence and incidence rates of dental caries and identify current global and regional trends in caries distribution to determine high-risk populations. Implement community programs: Design and evaluate community-based preventive programs, such as School Dental Health Programs, water fluoridation schemes, and milk fluoridation initiatives.	Lecture Practical	MCQ/VIVA	Textbook of Preventive and Community Dentistry - Joseph John
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PSYCHIATRY & BEHAVIORAL SCIENCES

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-BhS-001	Communication Skills for Preventive Dentistry (OARS and 5A's Approach)	Explain the use of OARS micro skills and their role in enhancing patient commitment to preventive oral health measures	Lecture / practical	MCQ / VIVA	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
Car2-BhS-002	Behavior Change Frameworks in Patient	Explain a behavior change framework and use it to identify barriers and propose a tailored oral health plan	Lecture/ practical	MCQ/ OSVI	Rana, Mowadat H. Behavioural



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	Counseling				I Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
Car2- BhS-003	Anxiety Reduction Techniques in Preventive Dental Care	Explain basic anxiety reduction techniques and their application during risk assessment and Fluoride therapy	Lecture/ practical	MCQ / OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare
Car2- BhS-004	Dietary Counseling and Fluoride Application	Explain the 5 As dietary counselling approach and describe how to assess and document patient readiness for behavioral change	Lecture/ practical	MCQ / OSVI	Rana, Mowadat H. Behavioral Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare
Car2- BhS-005	Reflection and Assessment in Self Preventive Communication	Evaluate preventive communication encounters and identify strategies for improvement	Lecture/ practical	MCQ / OSVI	Rana, Mowadat H. Behavioral Sciences. 3rd Edition. Humayun, Asma.



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					Integrating Behavioral Sciences in Healthcare
PROSTHODONTICS					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-PD-001	Retainers	Enlist direct retainers used for acrylic and cast partial dentures.	lecture	MCQs	McCracken's removable partial dentures.
Car2-PD-002	Retainers	Differentiate between direct retainers of cast and acrylic partial denture.	lecture	MCQs	McCracken's removable partial dentures
ORAL PATHOLOGY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Car2-OP-001	Tooth Surface Loss and Enamel Defects	Should be able to identify Attrition, Abrasion, Erosion	Interactive lecture, Practical, SGD	Assignment, MCQs, OSPE	Oral Pathology Contemporary Chapter 11
Car2-OP-002	Pulpitis	Student be able to know pathogenesis and Histopathology of Reversible, irreversible, Acute Chronic Pulpitis, Chronic hyperplastic and Pulpal Necrosis	Interactive Lecture, Practical, CBL	Assignment, MCQs, OSPE	Contemporary Oral Path Ch 3
PRACTICAL/LAB WORK					
ORAL BIOLOGY & TOOTH MORPHOLOGY					
Code	Topic	Learning Outcome			
Car2-OB-003	Morphology of Permanent	Identify and draw the outlines of all permanent molars (labial, lingual, mesial, distal, and occlusal aspects) on paper or models, labeling their key features, including oblique ridges and root anatomy,			



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	Molars	
Car2-OB-004	Identification and Labeling of Molar Anatomical Features	Accurately label all key morphological features (Cusps name, cusp ridges, marginal ridges, transverse ridges, triangular ridges, fossa, developmental depressions, contact points, name of roots/pulp canals, pits C grooves) on molar models
Car2-OB-005	Molars	Carve anatomical models of molars using soap blocks/ wax block Carve anatomical models of molars using soap blocks/ wax blocks
SCIENCE OF DENTAL MATERIALS		
Code	Topic	Learning Outcome
DMPD2 DM-007	Manipulation techniques for Dental Cements	Students should be able to manipulate cements with correct technique and powder liquid ratio
DMPD2 DM-007	Dental amalgam	Students should be able to perform trituration with the correct mercury-alloy ratio. Also demonstrate condensation, burnishing, finishing and carving.
OPERATIVE DENTISTRY		
Code	Topic	Learning Outcome
Car2-OD-004	Isolation	Perform rubber dam application for isolation on typodont
Car2-OD-005	Class I Cavity Preparation	Prepare a G.V. Black's Class I cavity on typodont for an amalgam restoration (premolars & molars).
Car2-OD-006	Pulp protection	Apply liners & bases in a prepared cavity
Car2-OD-007	Class I with amalgam	Restore a prepared Class I cavity on a typodont with dental amalgam, following proper techniques of trituration, condensation, carving, and finishing.
COMMUNITY & PREVENTIVE DENTISTRY		
Code	Topic	Learning Outcome
Car2-CD-006	Oral Health Assessment and Risk Evaluation	Conduct Comprehensive Patient Evaluation: Demonstrate proficiency in obtaining a complete medical, dental, and social history to identify systemic conditions (e.g., Diabetes, Hypertension) that influence oral health treatment planning. Apply Periodontal and Hygiene Indices: Calibrate and utilize specific indices to assess oral hygiene and periodontal status, specifically the Oral Hygiene Index-Simplified (OHI-S) and the Community Periodontal Index (CPI/CPITN). Evaluate Periodontal and Soft Tissue Risk: Analyze risk factors for periodontal disease (such as smoking, stress, and biofilm control) and perform basic screening for oral mucosal lesions to assess the risk of oral cancer.
PROSTHODONTICS		
Code	Topic	Learning Outcome
Car2-PD-003	Preparation of Edentulous	Prepare an edentulous cast suitable for the fabrication of a complete denture.



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	Cast	
Car2-PD-004	Wax-Up of Upper Base Plate	Perform wax-up of the trial denture upper base plate ensuring proper extension and adaptation.
Car2-PD-005	Wax-Up of Lower Base Plate	Perform wax-up of the trial denture lower base plate ensuring correct border extension and stability.
Car2-PD-006	Flanking of Upper and Lower Base Plates	Demonstrate correct procedure for flaking trial denture upper and lower base plates prior to processing
Car2-PD-007	Dewaxing of Upper and Lower Base Plates	Perform dewaxing for trial denture upper and lower base plates, maintaining the accuracy of denture form.
Car2-PD-008	Packing, Curing, and Finishing of Base Plates	Carry out packing, curing, and finishing of trial denture base plates, ensuring smooth and well-adapted surfaces.



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COMMUNITY DENTISTRY & PUBLIC HEALTH-II

INTRODUCTION TO MODULE

Community Dentistry and Public Health I introduce population-based approaches to oral health, focusing on disease prevention, health promotion, and social determinants of health. The module equips students with basic epidemiology, screening, and behavioral science concepts to link individual dental care with community-level preventive strategies.

THE MODULAR OUTCOME

- Explain principles, scope, and relevance of dental public health.
- Apply epidemiology to assess oral disease patterns and determinants.
- Distinguish screening from diagnosis in community programs.
- Calculate and interpret incidence and prevalence.
- Analyze social, behavioral, and environmental determinants of oral health.
- Apply prevention and health promotion strategies using the common risk factor approach.
- Plan and conduct basic oral health surveys and present data.
- Explain prevention of periodontal disease, oral cancer, and dental trauma.
- Design and evaluate community oral health programs.
- Demonstrate empathetic communication and apply behavioral principles in patient care

COMMUNITY & PREVENTIVE DENTISTRY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
CDPH1-CD-001	Introduction to Dental Public Health	Define Dental Public Health: Quote and explain Winslow's definition and the modified definition by the American Board of Dental Public Health.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-002	Concept of Oral Health and Disease	Understand the Natural History: Describe the "Natural History of Disease" including the pre-pathogenesis and pathogenesis phases. Multifactorial Nature: Explain the ecological concept of disease, emphasizing that disease is a result of an imbalance between agent, host, and environment.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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CDPH1-CD-003	Oral Conditions as Public Health Problems	Apply Criteria: List the specific criteria (prevalence, severity, preventability) that classify a condition (like caries or periodontitis) as a "Public Health Problem." Analyze Burden: Discuss the global burden of oral diseases and their impact on quality of life and economic productivity.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-004	Concepts of Health and Illness	Differentiate Models: Compare the Biomedical, Ecological, Psychosocial, and Holistic concepts of health. Define Spectrum: Explain the "Health-Sickness Spectrum" ranging from positive health to death.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-005	Epidemiologic al Concepts	Explain Aims: List the three main aims of epidemiology: to describe disease distribution, identify risk factors, and provide data for prevention. Understand Scope: Describe the scope of epidemiology, including infectious vs. chronic disease epidemiology.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-006	Risk Factors and Prevention Strategies	Strategy Selection: Compare "High Risk" strategy (targeting vulnerable individuals) vs. "Population" strategy (targeting the whole community). Rose's Theorem: Explain Geoffrey Rose's prevention paradox: "A large number of people at small risk may give rise to more cases of disease than the small number who are at high risk."	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-007	Social Determinants of Health	Identify Determinants: List key determinants such as income, education, physical environment, and social support networks. Analyze Impact: Explain how social conditions influence	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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		oral health behaviors (e.g., smoking, sugar consumption). Gradient Effect: Describe the "Social Gradient" in health—how health improves incrementally as social status rises.			
CDPH1-CD-008	Health Inequalities	Inverse Care Law: Explain the "Inverse Care Law"—that the availability of good medical care tends to vary inversely with the need for it in the population served. Barriers to Care: Identify barriers (financial, geographical, cultural) that contribute to oral health disparities.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-009	Prevention Approaches in Oral Health	Specific Protection: List specific measures for oral health, such as immunizations (Hep B) or fluoridation. Health Promotion: Describe the role of education and policy in promoting oral health.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-010	Planning Preventive Programs	Set SMART Goals: Create program objectives that are Specific, Measurable, Achievable, Relevant, and Time-bound. Resource Management: Identify necessary resources (manpower, money, materials) for program execution.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-011	Screening in Dental Public Health	Define Screening: Define screening as the search for unrecognized disease in apparently healthy individuals. Types of Screening: Differentiate between Mass Screening, Selective/High-Risk Screening, and Multiphasic Screening. Public Health Application: Explain when and why	LECTURE/ PRACTICAL	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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		screening is used in schools or community centers for oral diseases.			
CDPH1-CD-012	Screening Evaluation	Yield Assessment: Evaluate the "Yield" of a screening program (the amount of previously unrecognized disease that is diagnosed and brought to treatment). Cost-Benefit: Discuss the economic feasibility and ethical implications of screening programs.	LECTURE/ PRACTICAL	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-013	Screening Tests	Diagnostic Tools: Identify common screening tests for oral cancer (e.g., Toluidine blue, VELscope) and caries (visual-tactile). Reliability: Define intra-examiner and inter-examiner reliability in the context of screening.	LECTURE/ PRACTICAL	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-014	Screening vs Diagnosis	Precision: Compare the precision and complexity of tools used (Screening = simple/fast; Diagnosis = complex/definitive). Follow-up: Explain that screening is not the endpoint; it must always be followed by diagnostic confirmation.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-015	Introduction to Epidemiology	Components: Break down the definition into: Frequency (rates), Distribution (time/place/person), and Determinants (causes). Clinical vs. Epidemiological: Contrast clinical medicine (focus on individual cure) with epidemiology (focus on population control).	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-016	Epidemiology and Oral Health Services	Evaluation: Use epidemiology to evaluate the effectiveness of existing oral health services. Demand vs. Need: Differentiate between "Normative Need" (defined by professionals) and "Felt	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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		Need" (perceived by patients).			
CDPH1-CD-017	Epidemiologic al Study Designs	Observational vs. Experimental: Distinguish between studies where the researcher observes (Cohort/Case-Control) vs. intervenes (Clinical Trials). Descriptive Studies: Explain the function of Case Reports and Cross-sectional surveys.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-018	Study Planning and Design	Sample Size: Understand the importance of calculating sample size to achieve statistical power. Ethical Clearance: Explain the necessity of Institutional Review Board (IRB) approval and Informed Consent.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-019	Application of Epidemiology	Community Diagnosis: Use epidemiology to diagnose the health status of a community. Completing the Clinical Picture: Explain how epidemiology identifies new syndromes or links risk factors to diseases. Syndromic Surveillance: Describe the use of epidemiology in monitoring disease outbreaks.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-020	Research Validity	Internal Validity: Define internal validity (are the results correct for the group studied?). External Validity: Define external validity (generalizability to the wider population). Bias Types: Identify common biases: Selection Bias, Information Bias, and Confounding Bias.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-021	Research Methodology	Scientific Method: Describe the systematic steps of the scientific method. Variable Identification: Distinguish between Independent (predictor) and	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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		Dependent (outcome) variables. Sampling Techniques: Compare probability sampling (Random, Stratified) vs. non-probability sampling (Convenience, Quota).			
CDPH1-CD-022	Integrated Disease Control Approaches	Common Risk Factor Approach: Explain Sheiham's model showing how diet, tobacco, and stress cause multiple diseases (heart disease, diabetes, perio). Integration: Discuss integrating oral health into general health programs (e.g., combining tobacco cessation for cancer and perio). Efficiency: Explain why integrated approaches are more cost-effective than disease-specific approaches.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-023	Application to Practice	Evidence-Based Dentistry (EBD): Define EBD as the integration of best research evidence, clinical expertise, and patient values. Critical Appraisal: Demonstrate the ability to read a paper and apply its findings to a specific clinical scenario. Translational Research: Discuss the gap between research findings and their adoption in clinical practice.	LECTURE/ PRACTICAL	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-024	Epidemiological Measurements	Tools of Measurement: Define and calculate Rates, Ratios, and Proportions. Morbidity Measures: Distinguish between Prevalence (existing cases) and Incidence (new cases). Mortality Rates: Define Crude Death Rate and Case Fatality Rate.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-025	Oral Health Surveys	WHO Methodology: Describe the WHO	LECTURE	MCQ, VIVA	Textbook of Preventive and



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		"Pathfinder Survey" design (Pilot vs. National). Index Ages: specific WHO index ages (5, 12, 15, 35-44, 65-74) and why they are chosen. Calibration: Explain the calibration process (Kappa statistics) to ensure examiner consistency.			Community Dentistry - Joseph John
CDPH1-CD-026	Data Handling and Presentation	Data Cleaning: Describe the process of checking data for errors or outliers. Tabulation: Construct frequency distribution tables and contingency tables (\$2 \times 2\$ tables). Visualization: Select appropriate charts: Histograms (continuous data), Bar charts (categorical data), and Pie charts.	LECTURE/ PRACTICAL	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-027	Research dynamics	The Research Process: Map the flow from "Idea/Question" to "Publication/Dissemination" Literature Review: Explain the purpose of reviewing existing literature to find gaps in knowledge. Funding & Grants: Briefly touch upon how research is funded and the role of grant writing.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-028					Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-029	Hypothesis testing in research & Presentation of data	Null vs. Alternative: Formulate a Null Hypothesis (\$H_0\$) and an Alternative Hypothesis (\$H_1\$). P-Value: Interpret the P-value (significance level) and Confidence Intervals. Error Types: Define Type I error (False Positive) and Type II error (False Negative).	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-030	Parametric and non parametric tests	Assumptions: Explain that parametric tests assume Normal Distribution (Bell Curve), while non-parametric do not.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community



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		Test Selection: Pair the tests: T-test Mann-Whitney U test. ANOVA Kruskal-Wallis test. Pearson Correlation Spearman Correlation. Chi-Square: Explain the use of Chi-Square for categorical data analysis.			Dentistry - Joseph John
CDPH1- CD-031					Textbook of Preventive and Community Dentistry - Joseph John
CDPH1- CD-032					Textbook of Preventive and Community Dentistry - Joseph John
CDPH1- CD-033	Disease Causation	Bradford Hill Criteria: List criteria for causation (Strength, Consistency, Specificity, Temporality, Biological Gradient, etc.). Association vs. Causation: Explain that correlation does not imply causation. Web of Causation: Describe the "Web of Causation" model for chronic diseases with multiple interacting causes.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1- CD-034	Oral Health Indices	Properties of an Index: Define Clarity, Simplicity, Objectivity, Validity, Reliability, and Quantifiability. Classification: Classify indices into Reversible vs. Irreversible, and Simple vs. Cumulative. Common Indices: Demonstrate knowledge of DMFT (Caries), OHI-S (Hygiene), and Dean's Fluorosis Index.	LECTURE/ PRACTICAL	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1- CD-035	Periodontal Epidemiology	Global Trends: Describe the global distribution of	LECTURE	MCQ, VIVA	Textbook of Preventive and



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		gingivitis vs. destructive periodontitis. Measurement Challenges: Discuss the difficulties in measuring periodontal disease (e.g., partial mouth recording bias). Risk Factors: Identify major risk factors: Age, Smoking, Diabetes, and Poor Oral Hygiene.			Community Dentistry - Joseph John
CDPH1-CD-036	Etiological Triads	Agent-Host-Environment: detailed breakdown of the triad specifically for Dental Caries (Keyes Circle: Microflora, Substrate, Host/Teeth + Time). Interaction: Explain how the interaction of these three factors is necessary for disease to occur. Modifying Factors: Discuss how "Time" was added as a fourth dimension to the triad.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-037	Periodontal Disease Prevention	Mechanical Control: Explain the role of tooth brushing and interdental aids. Chemical Control: Describe the role of Chlorhexidine and other anti-plaque agents. Systemic Management: Explain the management of systemic risk factors (e.g., smoking cessation, diabetes control).	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1-CD-038	Health Promotion	Ottawa Charter: List the 5 action areas: Build Public Policy, Create Supportive Environments, Strengthen Community Action, Develop Personal Skills, Reorient Health Services. Empowerment: Define health promotion as the process of enabling people to increase control over their health. Settings Approach: Discuss health promotion in specific settings (Healthy Schools, Healthy Workplaces).	LECTURE/ PRACTICAL	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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CDPH1- CD-039	Oral Cancer Etiology	Carcinogens: Identify chemical (Tobacco, Betel nut, Alcohol), viral (HPV 16/18), and physical (radiation/sunlight) carcinogens. Pre-malignancy: Define Potentially Malignant Disorders (Leukoplakia, Erythrolinein, Oral Submucous Fibrosis). Synergistic Effect: Explain the synergistic risk of combining alcohol and tobacco.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1- CD-040	Oral Cancer Prevention	Primary Prevention: Focus on tobacco cessation counseling (5 A's approach) and alcohol reduction. Secondary Prevention: Early detection through opportunistic screening and self-examination. Policy: Discuss taxation on tobacco products and graphic health warnings.	LECTURE	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John
CDPH1- CD-041	Community Prevention Programs	Water Fluoridation: Explain the principles, optimal levels (0.7 ppm), and benefits of Community Water Fluoridation. School Programs: Design a School Dental Health Program involving screening, education, and fluoride mouth rinse. Pit and Fissure Sealants: Describe the indications and implementation of sealant programs for high-risk populations.	LECTURE/ PRACTICAL	MCQ, VIVA	Textbook of Preventive and Community Dentistry - Joseph John



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PSYCHIATRY & BEHAVIORAL SCIENCES

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
CDPH1-BhS-001	Psychological Growth and Development	1.Describe psychological development stages 2.Explain how different personality traits influence patients reactions to oral health challenges and stress In dental practice	Lecture Practical	MCQ OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
CDPH1-BhS-002	Domestic Violence and Self-Harm Interventions	1.Explain the concepts of grief and understand it's stages in the context of dental care 2.Identify signs of complicated grief or emotional distress in patients undergoing dental and oral rehabilitation treatments 3.Explain strategies to communicate empathetically and effectively when supporting grieving patients or colleagues 4.describe strategies to provide support to dental patients and their families 5.Identify common illness behaviors in dental patients and explain approaches to address them in clinical practice 6.Explain strategies to provide emotional and professional support to patients coping with loss or chronic illness	Lecture Practical	MCQ OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition. Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
CDPH1-BhS-003	Reassurance and Emotional Support	Explain how to provide reassurance and emotional support while applying effective thinking, decision making, and problem-solving skills in dental practice	Lecture/ Practical	MCQ OSVI	Rana, Mowadat H. Behavioural Sciences. 3rd Edition.



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		Explain methods for providing effective reassurance to patients in a clinical setting Explain the impact of effective reassurance on patient dental care and treatment outcomes			Humayun, Asma. Integrating Behavioral Sciences in Healthcare.
PRACTICAL /LAB WORK					
COMMUNITY & PREVENTIVE DENTISTRY					
Code	Topic	Learning Outcome			
CDPH1-CD-042	Indices Recording (DMFT, CPI)	Practice DMFT, CPI scoring on typodont/models/case scenarios Learning how to record indices and simple epidemiological measures			
CDPH1-CD-043	Basic Biostatistics	Calculate mean, range, variance, and standard deviation using small datasets provided.			
CDPH1-CD-044	Skewness & Kurtosis	Interpret sample histograms and differentiate normal, skewed, and kurtotic distributions.			
CDPH1-CD-045	Dental Screening	Perform basic dental screening by applying the principles of screening, using the Wilson and Jungner criteria and features of ideal screening tests. Distinguish screening findings from diagnostic assessments			
PSYCHIATRY & BEHAVIORAL SCIENCES					
Code	Topic	Learning Outcome			
CDPH1-BhS-004	Psychological Growth and Development	Identify key psychological developmental stages using patient scenarios and demonstrate how these stages influence communication and behavior during simulated dental interactions			
CDPH1-BhS-005	Domestic Reassurance and Emotional Support	Recognized the stages of grief through role play and case scenarios and demonstrate appropriate communication and supportive responses when interacting with patients experiencing dental related loss or emotional distress Describe it's impact on patient dental care			



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Dental Materials & Pre-Clinical Dentistry-II

INTRODUCTION TO MODULE

This module builds upon foundational knowledge to develop students' understanding of direct restorative materials and their clinical application in operative dentistry and prosthodontics. It integrates the science of dental materials including amalgam, composites, glass ionomers, and cements with principles of adhesion, manipulation, and material selection for specific clinical situations. Additionally, the module introduces essential prosthodontic concepts such as jaw relations and occlusion, alongside practical skills like fabrication of denture base plates. Through hands-on training in cavity preparation, restoration, and finishing procedures, the module aims to enhance students' technical competence, critical thinking, and ability to deliver functionally and aesthetically sound restorations.

THE MODULAR OUTCOME

- Describe the fundamental requirements of direct restorative materials.
- Describe the composition, manipulation and properties of amalgam.
- Describe the hybrid layer and specify the roles of etchant, primer and adhesive.
- Describe the composition, properties and polymerization of composite and categorize materials based on filler particle size. Classify dental cements.
- Differentiate between temporary and permanent cements. Explain the manipulation, setting characteristics and clinical applications of major dental cements.
- Describe the composition and properties of glass ionomer cements.
- Demonstrate the mixing of amalgam and manipulation of dental cements.
- Describe the vertical jaw relations.
- Describe the basic features of natural and artificial occlusion.
- Demonstrate the fabrication procedure of upper and lower base plates for complete dentures. Explain principles of Class I cavity preparation and material selection (amalgam vs composite).
- Demonstrate step-by-step Class I cavity preparation and restorations on typodont for both amalgam and composite restorations. Perform finishing and polishing of restorations to achieve proper anatomy, marginal integrity, and occlusion.

ORAL BIOLOGY & TOOTH MORPHOLOGY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Oc3-OB-001	Facial Growth, Facial Types, and Occlusal Parameters	Identify and describe various facial types and profiles,	LECTURE SGD	MCQ OSVE OSPE	James fuller 9th edition
Oc3-OB-002	Concept of Oral Health and Disease	1. Compare morphological and anatomical differences between male and female faces.	LECTURE SGD	MCQ OSVE OSPE	James fuller 9th edition



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		2.Explain the basic concepts of facial growth and bone remodeling			
PROSTHODONTICS					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Oc3-PD-001	Articulators: Types, Uses, and Limitations	Define articulation, Identify the types of articulators, explaining their uses and limitations in tooth setup	Lecture	MCQ	Zarb. Prosthodontics treatment for edentulous patients
ORTHODONTICS					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tool	Reference
Oc3-OtD-001	Normal Occlusion and Key Characteristics	Define occlusion and normal incisor, canine, and first molar relationships, overjet, and overbite.	lecture	MCQ OSVE	Laura Mitchell 5th Edition & W.R.Proffit, Contemporary Orthodontic 7 edition
Oc3-OtD-002	Malocclusion — Definitions, & Classification	1.Define and differentiate between normal occlusion and malocclusion. 2. Classify different types of malocclusions using Angle's classification system.	Lecture	MCQ OSVE	Laura Mitchell 5th Edition & W.R.Proffit, Contemporary Orthodontic 7 edition
OPERATIVE DENTISTRY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tool	Reference



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Oc3-OD-001	Principles and Steps of Class II Cavity Preparation	Describe the principles of Class II cavity preparation, including indications, outline form, resistance and retention features,	lecture/Practical/ Clinical Demonstration	MCQs/ OSCE	Art And science 7th Edition
Oc3-OD-002	Application of Liners and Bases in Cavity Preparation	Enlist steps of applying liners & bases in a prepared cavity	lecture/Practical/ Clinical Demonstration	MCQs/ OSCE	Art And science 7th Edition
Oc3-OD-003	Identification of Occlusal High Spots	Enlist the features that indicate an occlusal high spot	Practical/ Clinical Demonstration	MCQs/ OSCE	Art And science 7th Edition
Oc3-OD-004	Complications of Unadjusted Occlusal High Spots in Restorations	Enlist the complications that may arise due to unadjusted occlusal high spots in restorations.	Practical/ Clinical Demonstration	MCQs/ OSCE	Art And science 7th Edition
Oc3-OD-005	Matrix system	Define a matrix system and explain its role in Class II restorations. Enlist the components of a matrix system (matrix band, retainer, wedge). Identify the types of matrix systems used in operative dentistry: · Tofflemire (Universal matrix) · Ivory matrix · Sectional matrix system (introductory level) · Automatrix system	lecture/Practical/ Clinical Demonstration	MCQs/ OSCE	Art And science 7th Edition
Oc3-OD-006	Wedges	Explain the functions of wedges in Class II restorations. Discuss the consequences of improper matrix or wedge placement, such as: · Open proximal contacts · Gingival overhangs · Poor contour and marginal leakage	lecture/Practical/ Clinical Demonstration	MCQs/ OSCE	Art And science 7th Edition



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PRACTICAL

PROSTHODONTICS

Code	Topic	Learning Outcome
Oc3-PD- 002	Fabrication of Occlusal Rims	Construct occlusal rims on trial denture upper and lower base plates with appropriate dimensions and contours.
Oc3-PD- 003	Articulation of Base Plates with Occlusal Rims	Mount upper and lower base plates with occlusal rims on semi-adjustable articulators
Oc3-PD- 004	Setup of Upper Anterior Teeth	Arrange upper anterior teeth on the occlusal rim with proper alignment.
Oc3-PD- 005	Setup of Lower Anterior Teeth	Arrange lower anterior teeth ensuring correct overjet and overbite.
Oc3-PD- 006	Setup of Upper Posterior Teeth	Arrange upper posterior teeth
Oc3-PD- 007	Setup of Lower Posterior Teeth	Arrange lower posterior teeth to achieve proper intercuspation
Oc3-PD- 008	Wax-Up, Carving, and Festooning	Perform wax finishing, carving and festooning
Oc3-PD- 009	Flasking and Dewaxing of Complete Dentures	Demonstrate correct flasking and dewaxing procedures for processing complete dentures.
Oc3-PD- 010	Packing and Curing of Complete Dentures	Perform packing and curing of complete dentures using appropriate resin materials and curing cycles. Perform Denture finishing & polishing

OPERATIVE DENTISTRY

Code	Topic	Learning Outcome
Oc3-OD-007	Class II Cavity Preparation for Amalgam Restoration	Prepare a G.V. Black's Class II cavity on typodont for an amalgam restoration maintaining isolation.
Oc3-OD-008	Matrix Band Placement	Place a matrix band correctly and stabilize it using a wedge to achieve proper gingival adaptation.
Oc3-OD-009	Wedge insertion technique	Demonstrate correct wedge insertion technique (direction, size, and position) on a typodont/phantom head model.
Oc3-OD-	Application of	Apply liners & bases in a prepared cavity



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010	Liners and Bases	
Oc3-OD-011	Amalgam Restoration Techniques: Trituration, Condensation, Carving, and Finishing	Restore a prepared Class II cavity on a typodont with dental amalgam, following proper techniques of trituration, condensation, carving, and finishing.
Oc3-OD-012	Assessment of completed restoration	Assess the completed restoration for gingival overhangs, marginal adaptation, and proximal contact after removal of the matrix and wedge



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CRANIOFACIAL-III

INTRODUCTION TO MODULE

Craniofacial III marks the start of second-year dental training and builds on Year I craniofacial concepts. The module focuses on neck anatomy and pathology, integrating applied anatomy with tissue repair and wound healing. Emphasis on fascial planes, neurovascular structures, and visceral organs prepares students for airway management, infection spread, and safe clinical and surgical practice in dentistry.

THE MODULAR OUTCOME

- Explain the organization of deep cervical fascia and fascial spaces and their role in infection spread and surgical access.
- Identify neck muscles, vessels, nerves, and lymphatics, and correlate with clinical and surgical relevance.
- Describe the structure, function, and neurovascular supply of the larynx, trachea, thyroid, and parathyroid glands.
- Recognize histological features of larynx, trachea, thyroid, and parathyroid, linking structure to function.
- Explain cellular and molecular mechanisms of wound healing: inflammation, proliferation, and remodeling.
- Differentiate primary, secondary, and tertiary wound healing; analyze factors affecting tissue repair.
- Recognize complications (e.g., keloids, infections, delayed healing) and their pathological basis.
- Integrate anatomical and pathological knowledge to manage infections, airway issues, surgical procedures, and healing outcomes in dental and head–neck practice.



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GENERAL ANATOMY				
Code	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
CF3-A- 001	Explain various parts and attachments of deep cervical fascia. Describe facial spaces of head and neck along with their relevance to the spread of infection	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12th edition
CF3-A- 002	1. Identify & describe the attachments, actions and nerve supply of the major muscles of the neck 2. Explain the anatomical basis, differentiate the type, and correlate anatomical changes with the clinical presentation of torticollis	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12th edition
CF3-A- 003	Identify boundaries, enlist contents of anterior and posterior triangles of neck	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12 th edition
CF3-A- 004	1. Trace region course and branches of common carotid arteries 2. Describe formation of jugular venous system along with its clinical importance Describe region course and branches of subclavian artery	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12th edition
CF3-A- 005	Identify & Describe superficial and deep cervical lymph nodes along with their area of drainage	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12th edition



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CF3-A- 006	1.Describe extra cranial course branches and functional distribution of glossopharyngeal, vague & accessory nerves 2.Describe location formation branches and distribution of cervical plexus 3.Explain location formation and branches of cervical sympathetic ganglia Correlate with Horner's syndrome	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12th edition
CF3-A- 007	1.Describe & identify anatomical features of hyoid bone 2.Classify cervical vertebrae and distinguish their characteristic features, classify and identify Cervical vertebrae along with typical and atypical vertebrae 3.Classify the joints of cervical vertebrae, associated ligaments, neurovascular supply	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12th edition
CF3-A- 008	1.Describe various parts of larynx including their extent anatomical features frame work and neurovascular supply 2.Identify and describe attachments actions and nerve supply of extrinsic and intrinsic muscles of larynx	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12th edition
CF3-A- 009	Describe location anatomical features and vascular supply of thyroid and parathyroid glands	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12th edition
CF3-A- 010	Describe the muscles of back of neck and sub occipital triangle	Lectures/small group discussion (SGD)	MCQs/ OSPE/OSVE	Snell's clinical anatomy 12th edition



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PATHOLOGY				
Code	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
CF3-Pa- 001	Explain the basic principles and sequence of events involved in wound healing, including hemostasis, inflammation, proliferation, and remodeling. Describe and differentiate the phases of wound healing, emphasizing the cellular and molecular events in each stage. Analyze the local and systemic factors that influence healing at each phase.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
	Describe and differentiate the phases of wound healing, emphasizing the cellular and molecular events in each stage.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
	Analyze the local and systemic factors that influence healing at each phase.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
CF3-Pa- 002	Explain the roles of different cell types (neutrophils, macrophages, fibroblasts, endothelial cells, epithelial cells) and correlate their functions with growth factors involved in periodontal tissue repair and regeneration.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
	Describe the major phases of the cell cycle and relate them to tissue growth and repair.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
	Classify and discuss the characteristics of labile, stable, and permanent cells in relation to tissue regeneration.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
CF3-Pa- 003	Describe and compare the different types of tissue healing—primary, secondary, and tertiary intention—	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology



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	based on mechanism, tissue response, and clinical presentation.			10th Edition
	Enumerate and explain the sequential steps involved in scar formation.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
	Identify and explain common complications such as infection, wound dehiscence, hypertrophic scar, and keloid formation.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
	Describe and illustrate the stages of wound healing in an extracted tooth socket, highlighting cellular and tissue-level changes.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th Edition
CF3-Pa-004	Define neoplasia and discuss the nomenclature of neoplasms	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th ed
CF3-Pa-005	Describe the characteristics of benign and malignant tumors. Differentiate between benign and malignant tumors.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th ed
CF3-Pa-006	Describe the molecular basis of cancer, including an introduction, essential features of malignant transformation, and the role of oncogenes (with emphasis on RAS).	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th ed
CF3-Pa-007	Describe the molecular basis of cancer, focusing on tumor suppressor genes, with emphasis on RB and p53.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th ed
CF3-Pa-008	Describe carcinogenesis, including the multistep pathway and radiation-induced carcinogenesis.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th ed
CF3-Pa-09	Describe carcinogenesis, including chemical and microbial carcinogenesis.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th ed



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CF3-Pa-010	Describe Tumor metastasis	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th ed
CF3-Pa-011	Outline the clinical aspects of neoplasia, focusing on grading and staging of cancer.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th ed
CF3-Pa-012	Describe and interpret the laboratory investigations used in cancer diagnosis.	Lecture, Tutorial	MCQs, OSVE	Robbin's Pathology 10th ed
CF3-Pa-013	Define microbial teratogens, Define TORCH infections and identify the impact of maternal infections (TORCH complex) on embryonic development and their dental implications.	Lecture, Tutorial	MCQs	Levinson's Microbiology 18th ed
CF3-Pa-014	Describe the epidemiology, transmission, virulence factors, pathogenesis, laboratory diagnosis, and prevention of Staphylococci.	Lecture, Tutorial	MCQs, OSVE	Levinson's Microbiology 18th ed
CF3-Pa-015	Describe the epidemiology, transmission, virulence factors, pathogenesis, laboratory diagnosis, and prevention of Mucormycosis.	Lecture, Tutorial	MCQs, OSVE	Levinson's Microbiology 18th ed
CF3-Pa-016	Describe the epidemiology, transmission, virulence factors, pathogenesis, laboratory diagnosis, and prevention of Streptococci.	Lecture, Tutorial	MCQs, OSVE	Levinson's Microbiology 18th ed
CF3-Pa-017	Describe the epidemiology, transmission, virulence factors, pathogenesis, laboratory diagnosis, and prevention of Actinomyces.	Lecture, Tutorial	MCQs, OSVE	Levinson's Microbiology 18th ed
CF3-Pa-018	Describe the epidemiology, transmission, virulence factors, pathogenesis, laboratory diagnosis, and prevention of Porphyromonas.	Lecture	MCQs	Levinson's Microbiology 18th ed
CF3-Pa-019	Describe the epidemiology, transmission, virulence factors, pathogenesis,	Lecture	MCQs	Levinson's Microbiology 18th ed



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	laboratory diagnosis, and prevention of Fusobacterium.			
CF3-Pa-020	Describe the epidemiology, transmission, virulence factors, pathogenesis, laboratory diagnosis, and prevention of Candida.	Lecture, Tutorial	MCQs, OSVE	Levinson's Microbiology 18th ed
CF3-Pa-021	Classify the hemorrhagic viruses with clinical presentation.	Lecture, Tutorial	MCQs, OSVE	Levinson's Microbiology 18th ed
CF3-Pa-022	Discuss clinical relevance of hemorrhagic virus infections for dentistry.	Lecture, Tutorial	MCQs, OSVE	Levinson's Microbiology 18th ed
CF3-Pa-023	Discuss the viral characteristics, diagnosis and tumors caused by following oncogenic viruses: HCV HBV HPV EBV HHV8	Lecture, Tutorial	MCQs, OSVE	Levinson's Microbiology 18th ed
CF3-Pa-024	Discuss the role of H. pylori in causing MALT.	Lecture, Tutorial	MCQs	Levinson's Microbiology 18th ed

PHARMACOLOGY

Code	Learning Outcome	Teaching Methodology (Lectures/Practical /Clinicals)	Assessment Tools	Reference
CF-Ph-001-2-3-4	Classify cell wall inhibitors, mechanism of action of beta lactams, mechanism of resistance and clinical uses	Lecture	MCQs, OSVE	Mini Katzung & Trevor .Latest edition
CF-Ph-005-6-7	Identify antibacterial spectrum, important antibiotics for dental procedures and adverse effects of penicillin	Lecture	MCQs, OSVE	Mini Katzung & Trevor .Latest edition
CF-Ph-008-009-010	Mechanism of action and significance of beta lactamase inhibitors, classify cephalosporins, their antibacterial action and side clinical uses and side effects	Lecture	MCQs, OSVE	Mini Katzung & Trevor .Latest edition



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CF-Ph-11-12-13	Important features of carbapenems and monobactams, describe antibacterial spectrum, mechanism of action, resistance and clinical uses of Vancomycin, explain major steps of protein synthesis	Lecture	MCQs, OSVE	Mini Katzung & Trevor .Latest edition
CF3-Ph-14-15-16	Classify protein synthesis inhibitors, classify tetracyclines and their antibacterial spectrum, uses and adverse effects, classify macrolide ketolide.	Lecture	MCQs, OSVE	Mini Katzung & Trevor .Latest edition
CF3-Ph-17-18-19	Describe mechanism of action, resistance, spectrum, uses and adverse effects of Erythromycin, Clarithromycin, Azithromycin and Fidaxomicin. Describe main characteristics, mechanism of action, uses, pharmacokinetics of Clindamycin. Describe antibacterial spectrum, therapeutic uses and adverse effects of Ketolides	Lecture	MCQs, OSVE	Mini Katzung & Trevor .Latest edition
CF3-Ph-20-21-22	Describe mechanism of action of aminoglycosides, their mechanism of resistance, clinical uses, adverse effects and toxicities. Describe mechanism of action of DNA gyrase inhibitors (Ciprofloxacin, levofloxacin Ofloxacin), their mechanism of resistance, clinical uses, adverse effects and toxicities.	Lecture	MCQs, OSVE	Mini Katzung & Trevor .Latest edition
CF3-Ph-23-24-25	Describe mechanism of action, clinical uses, antibacterial spectrum and side effects of Nitromidazoles. Discuss polyene antifungal drugs for oral candidiasis, name azole group, describe their mechanism of action, side effects and clinical use in oral candidiasis. Classify anticancer drugs according to cell cycle, and their side effects	Lecture	MCQs, OSVE	Mini Katzung & Trevor .Latest edition

PRACTICAL / LAB WORK

ANATOMY

CODE	SPECIFIC LEARNING OUTCOMES
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CF3-A- 011	1. Identify the course and key functions of the laryngeal nerves on Anatomical models/ preserved specimens. 2. Describe how damage to laryngeal nerve leads to common clinical signs.
CF3-A- 012	Identify and illustrate the histological features of thyroid under light microscope.
CF3-A- 013	Identify and illustrate the histological features of parathyroid glands under light microscope.
GENERAL PATHOLOGY & MICROBIOLOGY	
CODE	SPECIFIC LEARNING OUTCOMES
CF3-Pa-025	Study the characteristics of Benign (Epithelial & Connective tissue) tumors: Squamous Papilloma, Lipoma, Leiomyoma,
CF3-Pa-026	Study the characteristics of Malignant (Epithelial and connective tissue) tumors: Squamous cell carcinoma, Leiomyosarcoma (Pictorial).
CF3-Pa-027	Perform and interpret the catalase test, and coagulase test.
CF3-Pa-028	Demonstrate appropriate Sterilization and disinfection methods for dental instruments.
CF3-Pa-029	Perform Gram staining on bacterial smears to identify gram-positive, gram-negative bacteria and candida under the microscope.
CF3-Pa-030	Demonstration the use of anerobic jar and explain its applications in the cultivation of dental microbes.
CF3-Pa-031	Demonstrate collection of oral and throat specimens for microbiological examination in dental practice.
CF3-Pa-032	Identify culture media used in microbiology laboratory for identification of pathogens.



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RESPIRATION

INTRODUCTION TO MODULE

The Respiratory System module provides an integrated understanding of respiratory structure, function, and regulation, emphasizing gas exchange, acid–base balance, and clinically relevant respiratory disorders in dental practice.

THE MODULAR OUTCOME

- Describe the structure and cellular composition of the respiratory tract.
- Explain the mechanics of breathing, gas exchange, and transport of respiratory gases.
- Interpret acid–base balance and identify compensatory mechanisms in respiratory and metabolic disturbances.
- Recognize major respiratory diseases and their oral health implications.
- Identify the pharmacological basis of drugs used in asthma, cough, allergy, and tuberculosis.
- Apply understanding of respiratory physiology and pharmacology to safe and effective dental management of patients with respiratory disorders



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HISTOLOGY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Res-A- 001	Microscopic Structure of Respiratory and Olfactory Epithelium	Identify the cells of respiratory epithelium & describe their functions Describe & identify histological features of trachea under microscope	Lectures / Practical's	Mcq's/ospe /osve	Histolo

PHYSIOLOGY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Res-P- 001	Introduction and Functional Anatomy	Describe the functional divisions of the respiratory system. Differentiate between respiratory and non-respiratory functions of the respiratory system. Identify the layers of the respiratory membrane.	Lectures	MCQs OSPE OSVE	Guyton and Hall 14th edition
Res-P- 002	Mechanics of Breathing	Discuss the mechanics of ventilation. Identify the muscles of inspiration and expiration in quiet and strenuous breathing. Define interalveolar, intrapleural, and transpulmonary pressures and state their normal values during inspiration and expiration. Define and explain lung compliance and discuss factors affecting it. List the components of surfactant and explain its role in reducing alveolar surface tension. Discuss the significance of surfactant in premature infants	Lectures	MCQs OSPE OSVE	Guyton and Hall 14th edition



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Res-P- 003	Pulmonary Volumes, Capacities, and Ventilation	Define and describe normal lung volumes and capacities with their normal values. Define and explain the types and functions of respiratory dead spaces, including the normal value of anatomical dead space. Define alveolar ventilation and minute respiratory volume. State the normal respiratory rate. Draw and interpret a spirogram showing respiratory excursions during normal, maximal inspiration, and maximal expiration. Define forced vital capacity (FVC), forced expiratory volume in one second (FEV ₁), and FEV ₁ /FVC ratio, and compare these values in normal and COPD patients	Lectures	MCQs OSPE OSVE	Guyton and Hall 14th edition
Res-P- 004	Gas Exchange and Diffusion	Describe the factors affecting gas diffusion through the respiratory membrane. Define diffusing capacity for a gas. Define partial pressure of a gas and state normal values of oxygen (O ₂) and carbon dioxide (CO ₂) in arterial and venous blood, as well as their partial pressures in atmospheric and alveolar air	Lectures	MCQs OSPE OSVE	Guyton and Hall 14th edition
Res-P- 005	Transport of Gases	Explain the different forms of oxygen transport in the blood. Describe the mechanisms of carbon dioxide transport in the blood	Lectures	MCQs OSPE OSVE	Guyton and Hall 14th edition
	Hemoglobin and Oxygen Transport	Describe the structure and functions of hemoglobin, oxygen transport, oxygen dissociation curve, and factors that shift it.	Lectures	MCQs OSPE OSVE	Guyton and Hall 14th edition
Res-P- 006	Neural and Chemical Control of Respiration	Identify and describe the components of the respiratory centers and explain their functions. Discuss the inspiratory ramp signal and the	Lectures	MCQs OSPE OSVE	Guyton and Hall 14th edition



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		Hering–Breuer inflation reflex. Explain the chemical control of respiration. State the normal arterial and venous partial pressures of O ₂ and CO ₂ , and pH values. Locate central and peripheral chemoreceptors and explain their roles in the regulation of respiration.			
Res-P- 007	Applied Physiology	Explain the effect of exercise on respiration/ Define and classify different types and causes of cyanosis. Define and differentiate types of hypoxia and explain their effects on the body. Explain the mechanism and effects of carbon monoxide poisoning. Define and differentiate sleep apnea, Cheyne–Stokes breathing, dyspnea, tachypnea, hypercapnia, asphyxia, and respiratory failure.	Lectures	MCQs OSPE OSVE	Guyton and Hall 14th edition

BIOCHEMISTRY

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Res-B- 001	Composition of Chemical the Human Body	Describe the major chemical components of the human body and explain their relative proportions.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 002	Water and Its Biological Importance	Explain the importance of water in the human body.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry



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Res-B- 003	Body Fluids	Define intracellular and extracellular fluids and describe their functions.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 004	Ionization of Water	Describe the ionization of water and define the ion product constant (K_w).	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 005	Acids and Bases	Differentiate between strong and weak acids with suitable examples.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 006	pH and Acid–Base Concepts	Explain the concepts of pH, pH scale, K_a , and pK_a .	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 007	pH of Body Fluids	State the normal pH of various body fluids.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 008	Sources of Acids	Identify the sources of volatile (CO_2) and fixed acids in the human body.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry



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					Biochemistry
Res-B- 009	Determination of pH	Describe methods used for approximate and accurate determination of pH.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 010	Effect of pH on Biomolecules	Explain the effects of pH on the structure and function of biological macromolecules such as enzymes, nitrogenous bases, and plasma proteins.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 011	Titration Curve and Buffering Capacity	Interpret the titration curve of a weak acid with reference to buffering capacity.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 012	Henderson–Hasselbalch Equation	Write the Henderson–Hasselbalch equation and describe its applications in physiology	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 013	pH Calculation	Calculate the pH of arterial blood using the Henderson–Hasselbalch equation.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 014	Alkali Reserve	Define alkali reserve and explain its physiological significance.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review,



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					Mushtaq Ahmed Biochemistry
Res-B- 015	Buffer Systems	Define alkali reserve and explain its physiological significance.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 016	pH Regulation Mechanisms	Explain the respiratory mechanisms involved in hydrogen ion homeostasis.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 017	Defense Mechanisms in pH Regulation	Identify the first, second, and third lines of defense against changes in hydrogen ion concentration.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 018	Acid-Base Imbalance	Classify acid-base disorders and describe their causes and compensatory mechanisms in: metabolic acidosis, respiratory acidosis, metabolic alkalosis, and respiratory alkalosis	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 019	Introduction to Metabolism	Define metabolism and explain the concept of the metabolic map.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 020	Anabolism vs Catabolism	Compare anabolic and catabolic pathways.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry



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Res-B- 021	Biochemical Pathways and Reactions	Differentiate between biochemical cycles and pathways and between reversible and irreversible reactions, using suitable examples.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 022	Glycolysis	Define glycolysis and describe its reactions, regulation, significance, and energy yield under aerobic and anaerobic conditions.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 023	Clinical Correlation – Pyruvate Kinase Deficiency	Apply the knowledge of glycolysis to interpret clinical features of pyruvate kinase deficiency.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 024	Lactic Acidosis	Identify the causes of lactic acidosis.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 025	Pyruvate Metabolism	Describe the conversion of pyruvate into lactate, acetyl-CoA, oxaloacetate, alanine, and ethanol.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 026	Pyruvate Dehydrogenase Complex	Elaborate the reaction catalyzed by the pyruvate dehydrogenase complex, highlighting the roles of E1, E2, and E3 components.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 027	Citric Acid Cycle	Describe the reactions, regulation, and significance of the citric acid	Lecture	MCQs, SEQs,	Lippincott's Biochemistry



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		cycle, and calculate its total ATP yield.		Formative Assessment	8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 028	Glycogen Storage Diseases	Apply the knowledge of glycogen metabolism to interpret the biochemical basis of glycogen storage diseases (Type Ia, Ib, II, III, V, and VI).	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 029	Pentose Phosphate Pathway	Describe the major chemical components of the human body and explain their relative proportions.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 030	NADPH and Cellular Function	Explain the importance of water in the human body.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 031	G6PD Deficiency	Define intracellular and extracellular fluids and describe their functions.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 032	Comparison: PPP vs Glycolysis	Describe the ionization of water and define the ion product constant (K_w).	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper Illustrated Review, Mushtaq Ahmed Biochemistry
Res-B- 033	ETC: Inhibitors, Uncouplers, and Energy	Differentiate between strong and weak acids with suitable examples.	Lecture	MCQs, SEQs, Formative Assessment	Lippincott's Biochemistry 8th Edition, Harper



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	Production				Illustrated Review, Mushtaq Ahmed Biochemistry
PHARMACOLOGY & THERAPEUTICS					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Res-Ph- 001	Cough and Its Management	Classify drugs used for cough, their mechanism of action and sides effects	Lecture	MCQs/OSV E	Mini Katzug & Trevor. Latest edition
Res-Ph- 002	Asthma	Describe treatment of Asthma. Enumerate drugs for prophylaxis of asthma. Explain mechanism of action, uses and side effects	Lecture	MCQs/OSV E	Mini Katzug & Trevor. Latest edition
Res-Ph- 003	Antihistamines	Discuss different histamine receptors, their mechanism of action, pharmacological effects. Classify antihistamine., their clinical uses, adverse effects and drug interactions	Lecture	MCQs/OSV E	Mini Katzug & Trevor. Latest edition
Res-Ph- 004	Antitubercular Drugs	Describe different types of tuberculosis, first line and second line antitubercular drugs, mechanism of action, clinical uses adverse of isoniazid, rifampin, ethambutol and pyrazinamide	Lecture	MCQs/OSV E	Mini Katzug & Trevor. Latest edition
PATHOLOGY					
Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	References
Res-Pa- 001	Respiratory tract Infections	Define upper respiratory tract Infections and lower respiratory tract Infections. Enlist various Respiratory tract Infections causing agents	Lecture	MCQs, OSVE	Levinson's Microbiology 18th Edition
Res-Pa- 002	Oral Implications of URTIs	Explain the oral health implications of upper respiratory tract infections.	Lecture	MCQs, OSVE	Oral Pathology Textbook
Res-Pa- 003	Pneumonia	Classify pneumonias into viral, bacterial, and hospital-acquired types.	Lecture	MCQs, OSVE	Levinson's Microbiology 18th Edition
		Explain the pathological features of pneumonias caused by human	Lecture Tutorial	MCQs, OSVE	Levinson's Microbiology



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		coronavirus.			18th Edition
		Describe the oral health considerations in pneumonias caused by human coronavirus.	Lecture	MCQs, OSVE	Oral Pathology Textbook
Res-Pa- 004	Common Bacterial Respiratory Tract Infections	Describe the basic epidemiology and transmission of common bacterial respiratory tract pathogens. Explain the key virulence factors and general pathogenesis of <i>Streptococcus pyogenes</i> , <i>Streptococcus pneumoniae</i> , and <i>Haemophilus influenzae</i> . Outline the clinical significance of <i>Streptococcus pyogenes</i> , including immune-mediated complications. Describe the basic principles of laboratory diagnosis of common bacterial respiratory infections. Discuss general preventive measures, including vaccination and infection control practices.	Lecture	MCQs, OSVE	Levinson's Microbiology 18th Edition
Res-Pa- 005	Atypical and Opportunistic Bacterial Respiratory Infections	Differentiate between typical and atypical bacterial respiratory pathogens. Describe the epidemiology and modes of transmission of atypical respiratory bacteria. Explain the basic pathogenic mechanisms of <i>Mycoplasma pneumoniae</i> , <i>Legionella pneumophila</i> , and <i>Klebsiella pneumoniae</i> . Outline the general laboratory approaches used for identification of atypical respiratory pathogens. Discuss preventive strategies, including environmental and hospital-based infection control measures.	Lecture Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition
Res-Pa- 006	Hospital Acquired and Opportunistic Infections	Describe the epidemiology and clinical importance of <i>Pseudomonas aeruginosa</i> as an opportunistic pathogen. Explain the major virulence factors and basic pathogenesis of <i>Pseudomonas aeruginosa</i> . Outline the general principles of laboratory diagnosis of <i>Pseudomonas</i> infections.	Lecture Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition



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		Discuss the importance of infection control and prevention of hospital-acquired infections.			
Res-Pa- 007	Tuberculosis and Chronic Respiratory Infections	Describe the epidemiology and transmission of <i>Mycobacterium tuberculosis</i> . Explain the basic pathogenesis of tuberculosis. Outline the concept of drug-resistant tuberculosis, including MDR-TB and XDR-TB. Describe the general principles of laboratory diagnosis of tuberculosis. Discuss preventive measures, including public health strategies and infection control.	Lecture Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition
Res-Pa- 008	Viral Respiratory Infections of Public Health Importance	Describe the epidemiology and modes of transmission of common viral respiratory infections. Explain the basic pathogenesis of Influenza virus and SARS-CoV-2. Outline the general laboratory methods used for diagnosis of viral respiratory infections. Discuss preventive strategies, including vaccination and standard infection control precautions.	Lecture Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition
Res-Pa- 009	Viral Diseases with Oral and Salivary Gland Involvement	Describe the epidemiology and transmission of measles and mumps viruses. Explain the basic pathogenesis of measles and mumps infections. Identify common oral and salivary gland manifestations associated with these viral diseases. Outline general laboratory diagnostic approaches for these viral infections. Discuss preventive measures, including immunization	Lecture Tutorial	MCQs, OSVE	Levinson's Microbiology 18th Edition
Res-Pa- 010	Dental Management in Respiratory Diseases	Describe general oral health considerations in patients with respiratory infections.	Lecture	MCQs, OSVE	Levinson's Microbiology 18th Edition
Res-Pa- 011	Corynebacterium diphtheriae	Discuss the microbiological characteristics, disease spectrum, and brief diagnosis of Corynebacterium diphtheriae	Lecture	MCQs	Levinson's Microbiology 18th Edition



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Res-Pa- 012	Influenza Virus	Discuss the microbiological characteristics, disease spectrum, and brief diagnosis of Influenza Virus	Lecture	MCQs	Levinson's Microbiology 18th Edition
Res-Pa- 013	Vaccines	Discuss the importance of seasonal flu vaccines	Lecture	MCQs	Levinson's Microbiology 18th Edition
Res-Pa- 014	Chlamydia pneumoniae	Discuss the microbiological characteristics, disease spectrum, and brief diagnosis of chlamydia pneumoniae	Lecture	MCQs	Levinson's Microbiology 18th Edition
Res-Pa- 015	Chlamydia psittaci	Discuss the microbiological characteristics, disease spectrum, and brief diagnosis of Chlamydia psittaci	Lecture	MCQs	Levinson's Microbiology 18th Edition
Res-Pa- 016	Q.fever bacillus anthrax Aspergillus.	Discuss the microbiological characteristics, disease spectrum, and brief diagnosis of Q fever, Bacillus anthrax and Aspergillus.	Lecture	MCQs	Levinson's Microbiology 18th Edition
Res-Pa- 017	Dermatophytes	Discuss the microbiological characteristics, disease spectrum, and brief diagnosis of dermatophytes	Lecture	MCQs, OSVE	Levinson's Microbiology 18th Edition
Res-Pa- 018	Histoplasma	Discuss the microbiological characteristics, disease spectrum and brief diagnosis of histoplasma	Lecture	MCQs, OSVE	Levinson's Microbiology 18th Edition
Res-Pa- 019	Coccidioides, Blastomyces Paracoccidioides	Discuss the microbiological characteristics, disease spectrum and brief diagnosis of Coccidioides, Blastomyces Paracoccidioides.	Lecture	MCQs, OSVE	Levinson's Microbiology 18th Edition



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PRACTICAL /LAB WORK		
PHARMACOLOGY & THERAPEUTICS		
Code	Topic	Learning Outcome
Res-Ph-005	General and Local Anesthetics: Routes of Administration and Pre anesthetic Medications	Students must know the routes of administration of drugs Clinical demonstrations on routes of GA and LA should be conducted by the Oral surgery department.
Res-Ph-006	Drugs Used in Bronchial Asthma	Write appropriate prescription for the management of asthma and status asthmaticus
Res-Ph-007	Antihistamines and Ant allergic Drugs	Write appropriate prescription for the treatment of hay fever and allergic rhinitis
Res-Ph-008	Antitussives and Expectorants	Write appropriate prescription for the management of chronic cough
Res-Ph-009	Antitubercular Drugs	Write appropriate prescription for the treatment of tuberculosis
HISTOLOGY		
Code	Topic	Learning Outcome
Res-A-003	Trachea	Identify and illustrate the histological features of the trachea under light microscope
GENERAL PATHOLOGY & MICROBIOLOGY		
Code	Topic	Learning Outcome
Res-Pa-020	Ziehl-Neelsen staining and acid-fast bacilli (AFB)	Perform Ziehl-Neelsen staining to identify acid-fast bacilli, and accurately interpret the microscopic findings for the diagnosis of Mycobacterium tuberculosis.
Res-Pa-021	Oxidase test and identification of Pseudomona	Perform and interpret the oxidase test to identify oxidase-positive organisms, specifically Pseudomonas aeruginosa, in a clinical microbiology setting.



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Dental Materials & Pre-Clinical Dentistry-III

This module provides an integrated understanding of dental polymers, alloys, waxes, and investment materials, emphasizing their properties, manipulation, and clinical applications in restorative dentistry and prosthodontics. It combines material science with practical skills, including denture fabrication procedures, use of articulators, and tooth arrangement for complete dentures. The module also focuses on principles and techniques of Class II cavity preparation, appropriate material selection, and use of matrix systems to achieve optimal restorations. Overall, it aims to develop students' competence in both laboratory and clinical procedures, ensuring accurate, functional, and aesthetically acceptable patient outcomes.

THE MODULAR OUTCOME

- Describe the structure, classification, composition, properties and uses of dental polymers and polymerization reactions.
- Classify denture base materials and explain the composition, manipulation and processing of acrylic denture base polymers.
- Describe wrought alloys and relate the mechanical properties of stainless steel.
- Define and classify investment materials based on composition and application.
- Explain the principles of finishing and polishing.
- Classify waxes. Also discuss components, properties of dental waxes.
- Demonstrate the mixing of PMMA and MMA exhibiting five stages and identify different types of waxes.
- Describe the use of articulators for oral rehabilitation in prosthodontics.
- Demonstrate the tooth arrangement for upper and lower complete dentures according to five reference planes. Explain principles of Class II cavity preparation and selection of amalgam vs composite.
- Demonstrate proper Class II cavity preparation with ideal proximal box form.
- Apply appropriate matrix systems and wedges to achieve proper contour and contact.
- Restore and evaluate Class II restorations for contact, contour, marginal integrity, and occlusion.
- Analyze the functional behavior of dental hard and soft tissues and evaluate the potential of oral stem cells and regenerative therapies in supporting restorative and prosthodontic procedure.



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Dental Materials & Pre-Clinical Dentistry-III

Code	Topic	Learning Outcome	Teaching Methodology (Lecture/ Practical/ Clinical)	Assessment Tools	Reference
Dental Materials & Pre-Clinical Dentistry-III	Dental Materials & Pre-Clinical Dentistry-III	Dental Materials & Pre- Clinical Dentistry-III	Dental Materials & Pre- Clinical Dentistry-III	Dental Materials & Pre-Clinical Dentistry-III	Dental Materials & Pre-Clinical Dentistry-III
DMPD3 DM- 002	Polymerization	Students should be able to differentiate between the various types of polymerization reactions, explaining their chemistry and mechanisms. Elaborate the steps and factors influencing the polymerization reaction and its impact on material performance. Students should be able to classify denture base materials and explain the essential requirements for ideal denture base materials. Students should be able to explain the composition, manipulation and processing of acrylic denture base polymers and relate their properties to clinical performance and enumerate and demonstrate stepwise procedures for manipulation, processing, finishing and maintenance of acrylic denture, also they should be able to Identify and describe alternative denture base materials with their advantages and limitations. Students should be able to define and differentiate self-cured, light-cured and	Lecture, Practical	MCQ, SGD, VIVA	Philips Science of Dental Materials



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		heat-cured polymethyl methacrylate based on composition, polymerization and clinical application, Identifying and describe the physical stages of PMMA polymerization during cold cure processing. Students should be able to compare acrylic and porcelain teeth in terms of composition, bonding, esthetics and wear-resistance and justify the selection of artificial teeth based on occlusal requirements, esthetics and patient needs.			
DMPD3 DM-003	Wrought alloys	Students should be able to identify and describe wrought alloys used in prosthodontic applications and correlate the mechanical properties of stainless steel with its prosthodontic uses. Students should be able to define annealing and describe its importance in modifying the properties of alloys after work hardening.	Lecture	MCQ, SGD, VIVA	Philips Science of Dental Materials
DMPD3 DM-004	Waxes and Separating Media	Students should be able to classify the type of waxes used in dentistry according to their use as pattern, processing and impression waxes. They should be able to explain ideal properties of dental waxes and discuss the components, properties and applications of dental waxes. They should be able to explain the ideal requirements for inlay wax. Students should be able to Identify and classify	Lecture, Practical, SGD	Mcq, VIVA, OSPE	Philips Science of dental material



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		the various separating media used in dental laboratory procedures, explain the purpose and mechanism of separating media in preventing material adhesion during processing, describe the composition, manipulation, and clinical relevance of commonly used separating media.			
DMPD3 DM-005	Investment Materials and Casting Procedures	1. Define investment materials and classify them based on composition and application. 2. Describe the components of gypsum-bonded, phosphate-bonded, and silica-bonded investment materials. 3. Explain the functions of investment materials in the dental casting process. 4. Define setting and thermal expansion in investment materials 5. Describe the desirable properties of dental investment materials. 6. Describe and sequence the steps in the dental casting procedure from pattern fabrication to finishing 7. Identify different types and causes of porosity in dental castings. 8. Analyze the causes of common casting defects and suggest preventive measures. 9. Describe the design, types, and functions of sprue formers in dental casting.	Lecture, SGD	MCQ	Philips Science of dental material



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DMPD3 DM-006	Finishing and polishing	1.Explain Principles of cutting, grinding, finishing and polishing 2. Identify significance of finishing and polishing procedures. 3. Compare two body and three body wear. 4. Define abrasion, erosion and air abrasion technology 5. Enlist hazards of abrasive procedures 6. Enumerate different types of abrasives and their uses in dentistry	Lectures, TBL	MCQ	Philips Science of dental material
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SCIENCE OF DENTAL MATERIALS

Code	Topic	Learning Outcome
Oc3-DM-007	Non-elastic impression materials	Students should be able to manipulate the material in the correct ratio

ISLAMIYAT & PAKISTAN STUDIES

Topic	Course Content	Reference Book



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ASSESSMENT GUIDELINES

- Assessment in dental education is a critical component designed to ensure dental students acquire the necessary knowledge, skills, and competencies for effective dental practice.
- Written examinations, including multiple-choice and essay questions, will test your grasp of theoretical concepts and subject matter.
- Practical assessments will require you to demonstrate your clinical skills and ability to apply knowledge in real-world scenarios.
- Oral exams will evaluate your communication and reasoning skills through case discussions and problem-solving exercises.

As per the UHS policy, students failing to fulfill the assessment criteria will result in withholding of their admissions for the professional exam.

ASSESSMENT METHODS

- MCQs (Multiple Choice Questions)
- SEQ
- Objective Structured Practical/Clinical Examination (OSPE or OSCE)
There is a policy of ongoing or formative assessment of all students and summative assessment during the academic year.
- Formative or ongoing assessment: Formative assessment will be done as class tests every week, assignments, projects, etc.
- Summative Assessment: • The end-of-block test comprises the OSCE or OSPE examination
- Viva voce exam.
- Written theory examination. The written examination has 2 parts: an MCQ and a short answer or short essay-type examination.
10% MARKS of internal assessment will be calculated from each end-of-block exam and overall yearly performance

ATTENDANCE POLICY FOR STUDENTS

- UHS rules for eligibility in annual examinations.
- The minimum attendance requirement is 75%: attendance is for lectures, clinics, CBLs, Tutorials, presentations, etc This attendance is not simply for lectures.
- Every teaching session is essential. You are expected to have at least 75% attendance in all subjects individually to be allowed to appear in the professional examinations.
- Lecture Attendance is marked at the start of the class. Students who come more than 10 minutes late will be marked absent.
- The attendance is entered into the spreadsheet, and no corrections will be made later than 24 hours with the Principal's permission as the system is locked.



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ASSESSMENT CRITERIA OF RASHID LATIF DENTAL COLLEGE

Minimum Attendance Requirement:

As per University of Health Science set criteria Students are required to maintain at least 75% of attendance in theory as well as practical /clinical sessions of each subject.

Eligibility Criteria:

Students fail to meet the minimum attendance will not be allowed to appear for UHS exam.

Attendance Tracking:

Daily Records: Attendance is marked daily for each subject.

Monthly Reviews: Attendance reports are generated and shared with students on

Digital Tracking:

Campus Management System (CMS) is real time attendance monitoring of Dental College.

Leave Policy:

Medical Leave: Permitted upon submission of valid medical certificate, subject to approval.

Attendance Policy for students appearing in supplementary exams

- Only students who have appeared in professional examinations can appear in supplementary examinations.
- Students who were not eligible for the annual exam will not be eligible for the supplementary exam, without completing their attendance requirements.
- Those students who do not attend classes will be marked absent, may face a shortage of attendance and will be asked to repeat the year.

SCOPE:

- These SOPs apply to all students whose admission has been withheld by the college or who are required to sit for supplementary exams.
- The academic office will officially notify students about their status, including the need to attend remedial classes.
- Attendance in remedial tests for the respective subject is mandatory to ensure readiness for the supplementary exam.



RASHID LATIF DENTAL COLLEGE

ATTENDANCE REQUIREMENTS

- Students must maintain at least **75% attendance** in all classes for the new academic year of the following class.
- A 20-day leave will be granted following the issuance of the UHS supplementary exam date sheet to facilitate exam preparation.
- All students are required to resume regular classes immediately after completing their final practical exam, without waiting for the announcement of results.
- Attendance records will be meticulously maintained by course instructors and will undergo weekly reviews by the academic office

SUPPORT AND GUIDANCE:

- The faculty will be available during scheduled consultation hours to provide support.

Time of Examination:

In one Academic year, a total of three exams are taken place at regular period of time.
Block 1, Block 2 and Block 3 at regular intervals.

PASS CRITERIA:

Students must gain at least 50% marks in theory and in Practical /Clinical assessment in each Block to mark as Pass.

PROMOTION CRITERIA:

Promotion to the next class will only be considered if,

- PMDC criteria have been fulfilled
- Disciplinary rules are being followed
- Required attendance in the class has been documented.
- Students who attend less than 75% of class **will not** be allowed to appear in the examination.



RASHID LATIF DENTAL COLLEGE

STUDENT CONDUCT RULES

These rules apply to all students who are admitted to RLDC and include undergraduate and postgraduate students:

1. No student or group shall form a society/ association/ organization.
2. The student will invite no outsider to address any meeting at the college without seeking prior permission from the Principal of RLDC.
3. Students cannot paste posters, pamphlets, or fixed banners on the wall. Graffiti on walls (wall chalking) on the premises
4. During teaching hours, students are prohibited from roaming the premises. Staging, inciting, or participating in or abetting any walk-out, strike, or other form of agitation against students, teachers, or authorities; inciting others to violence; disrupting the peaceful atmosphere in any way is prohibited.
5. No students or groups of students shall arrange any program, Picnic, musical concert, or sports. Etc., on their own, without prior written permission from the authorities.
6. Coming late for classes. The student may be considered absent and marked accordingly.
7. Loud and aggressive behavior within college premises.
8. No student or group of students is allowed to collect money for any purpose whatsoever.
9. The college Identity Card (ID) should be displayed at all times when the students are on the premises of the college. Faculty members and security staff are authorized to check the ID—cards at any time.
10. Students are forbidden to address higher authorities directly. Any communication intended for higher authorities must be routed through the proper channel (Vice Chancellor / Principal / Dean /Director).
11. Students are expected to arrive in class well on time. All cell phones, smartphones, and other electronic devices (e.g. iPods) must be turned off. Talking and other disruptive behaviors are not permitted while classes are in session.
12. Smoking, pan chewing, littering, spitting, vaping, and other activities prejudicial to the conduct are prohibited on the college premises during and even after college hours. Any student caught with the following will be taken under the D.C. action.
13. Unless specifically permitted, no students or groups of students are allowed to enter the administrative department.

14. POLICY ON DISCIPLINARY ACTION AGAINST THE USE OF UNFAIR MEANS

Zero tolerance for cheating/use of unfair means is to be maintained during Examinations. A committee will consider all the unfair means in exams, leading to a fine and D.C. action.

15. Policy for using mobile phone during exam: Any student caught using a mobile phone during a test or examination will have the device immediately confiscated, and the student will not be allowed to continue the exam or remain in the examination room and the device will be returned only after the parents/guardians submit a written undertaking ensuring that such misconduct will not be repeated.

16. Policy regarding the use of Vape

Any student caught using, possessing, or sharing vape devices on campus will be subject to disciplinary penalties, and a monetary fine will be levied in accordance with institutional regulations.



RASHID LATIF DENTAL COLLEGE

PUNCTUALITY:

If the students miss a class, they are responsible for the missed part of the course. There will be no relaxation for absent students. Please inform your parents of this and make your travel arrangements accordingly. Avoid taking leave for personal reasons like weddings during the academic year.

DRESS CODE:

All students must wear white coats on campus (With a tag with their name) and decent shoes/sandals but no slippers; in case of default, they will not be allowed to enter, and disciplinary action will be taken.