STUDY GUIDE INTEGRATED 2026

2ND YEAR BDS

BLOCK IV

LAHORE
MEDICAL & DENTAL
COLLEGE

TABLE OF CONTENTS

SCIENCE OF DENTAL MATERIALS

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
General Principles of Dental Materials	Explain the fundamental 16hysic-mechanical, biological, and chemical principles that determine the clinical behavior and performance of dental Materials.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Structure of Matter and Adhesion	Describe the structure of matter and explain the fundamental principles of adhesion among Dental materials.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Classification of Dental Materials	Classify dental materials into metals, ceramics, polymers and composites.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Biocompatibility and Safety	Explain the concepts of safety and biocompatibility in dental biomaterials.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Biological Considerations	Define key biological terms related to dental materials, including biocompatibility and hypersensitivity (Type IV).	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Corrosion and Toxicity	Discuss the effects of toxicity and corrosion and their influence on the biological performance of dental materials.	SGD (Tutorial Room)	C2	MCQs, OSPE, OSVE
Gypsum	Define gypsum and identify various gypsum products used in	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Products and Model Fabrication	dentistry.			

Products and Model Fabrication	dentistry.			
	Describe the composition, hydration reaction, and crystal formation process of gypsum products.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Classify gypsum products according to their composition and intended use in dental procedures.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Discuss the ideal physical and mechanical properties, setting expansion, and setting time of gypsum products.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Demonstrate the correct proportioning, mixing, pouring, and trimming techniques for gypsum materials.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Identify and explain factors that influence the setting time, expansion, and strength of gypsum materials.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Explain infection control measures and safety precautions during the pouring and handling of impressions and models.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Analyze common causes of air bubbles, inaccuracies, and fractures in gypsum models and propose preventive measures.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE

	Describe the role and clinical uses of diagnostic casts and working dies in prosthodontic procedures.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Cast /Materials	Describe the requirements and desirable properties of dental cast materials.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Casts and dies	Differentiate between a die and a cast in dental applications.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Die Materials	List the advantages and disadvantages of gypsum and enumerate miscellaneous types of die materials.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Impression Materials	Classify impression materials used in dentistry according to setting mechanism and clinical use.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Describe the ideal properties and characteristics of impression materials.	SGD (Tutorial Room)	C2	MCQs, OSPE, OSVE
	Compare the advantages, disadvantages, and clinical indications of different impression materials.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Analyze the factors that affect the dimensional accuracy and surface detail of dental impressions.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Infection Control	Describe methods for disinfecting and storing dental impressions to prevent distortion and cross-infection.	SGD (Tutorial Room)	C2	MCQs, OSPE, OSVE

Hydrocolloids	Describe the composition, setting mechanism, and classification of elastic impression materials, including hydrocolloids	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain the clinical steps for mixing, loading, and inserting hydrocolloid impression materials		C2	MCQs, OSPE, OSVE
	Explain the composition, manipulation, and applications of duplicating materials in prosthodontics.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Identify and evaluate common impression errors for hydrocolloid impressions and suggest corrective measures.		C3	MCQs, OSPE, OSVE
	Explain the clinical applications, advantages, hydrocolloid impression materials.		C2	MCQs, OSPE, OSVE
Dental Waxes	Classify the types of waxes used in dentistry according to their use as pattern, processing and impression waxes	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Explain ideal properties of dental waxes		C2	MCQs, OSPE, OSVE
	Discuss the components, properties, and application of		C2	MCQs, OSPE, OSVE
	dental waxes.			
	Explain the ideal requirements for inlay wax.		C2	MCQs, OSPE, OSVE

PRACTICALS / LAB WORK

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Impression Materials	Demonstrate and perform proper techniques for manipulation of hydrocolloid impression materials.	Practical Lab	C3/P	OSPE
Gypsum	Manipulate soft plaster using the recommended technique and water/powder ratio.	Practical Lab	C3/P	OSPE
	Build a plaster slab following the allocated dimensional guidelines.	Practical Lab	C3/P	OSPE
	Demonstrate the technique of model pouring.	Practical Lab	C2/P	OSPE
	Demonstrate the process of fabricating dental cast/model including trimming	Practical Lab	C2/P	OSPE

	and finishing of the study models.			
	Differentiate between study casts, working casts, and refractory casts based on purpose and fabrication.	Practical Lab	C3/P	OSPE

Waxes	Demonstrate and perform the steps of baseplate wax up on the given model.	Practical Lab	C2/P	OSPE
	Identify and classify the different types of dental waxes used in dentistry based on their usage		C3/P	OSPE
	Demonstrate the correct manipulation techniques for various dental waxes, applying them appropriately in laboratory and clinical procedures.		C2/P	OSPE

COMMUNITY DENTISTRY

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	Book	Page
CDPH1-CD-001	Describe the principles and scope of Dental Public Health and its role in promoting community oral health.	Introduction to Dental Public Health	Fundamentals of Community & Preventive Dentistry	5
CDPH1-CD-002	Explain how individual dental care contributes to population-level oral health outcomes.	Concept of Oral Health and Disease	Fundamentals of Community & Preventive Dentistry	7

CDPH1-CD-003	Explain the criteria used to identify oral conditions that constitute public health problems.	Oral Conditions as Public Health Problems	Fundamentals of Community & Preventive Dentistry	15
CDPH1-CD-004	Compare professional and layperson perspectives of health, disease, and illness.	Concepts of Health and Illness	Fundamentals of Community & Preventive Dentistry	16
CDPH1-CD-005	Explain the iceberg phenomenon and its relevance to subclinical oral diseases.	Epidemiological Concepts	Fundamentals of Community & Preventive Dentistry	16
CDPH1-CD-006	Explain the common risk factor approach and apply it to preventive oral health planning.	Risk Factors and Prevention Strategies	Fundamentals of Community & Preventive Dentistry	30
CDPH1-CD-007	Describe the major patterns and social determinants contributing to oral health inequalities.	Social Determinants of Health	Fundamentals of Community & Preventive Dentistry	26
CDPH1-CD-008	Analyze socioeconomic, behavioral, and environmental causes of oral health inequalities.	Health Inequalities	Fundamentals of Community & Preventive Dentistry	27
CDPH1-CD-009	Differentiate between high-risk, population, and common risk factor prevention strategies.	Prevention Approaches in Oral Health	Fundamentals of Community & Preventive Dentistry	38

CDPH1-CD-010	Evaluate the suitability of preventive strategies for different oral health contexts.	Planning Preventive Programs	Fundamentals of Community & Preventive Dentistry	37
CDPH1-CD-011	Explain the principles and applications of screening in oral health programs.	Screening in Dental Public Health	Fundamentals of Community & Preventive Dentistry	41
CDPH1-CD-012	Explain Wilson and Jungner criteria and evaluate their application in screening programs for oral diseases.	Screening Evaluation	Fundamentals of Community & Preventive Dentistry	41
CDPH1-CD-013	List and explain the desirable properties of an ideal screening test.	Screening Tests	Fundamentals of Community & Preventive Dentistry	41

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC		
CDPH1-CD-014	Differentiate between screening and diagnostic tests based on purpose and methodology.	Screening vs Diagnosis	Fundamentals of Community & Preventive Dentistry	41
CDPH1-CD-015	Define epidemiology and explain its role in understanding oral disease distribution.	Introduction to Epidemiology	Fundamentals of Community & Preventive Dentistry	49
CDPH1-CD-016	Explain the applications of epidemiology in planning and evaluating dental services.	Epidemiology and Oral Health Services	Fundamentals of Community & Preventive Dentistry	50
CDPH1-CD-017	Classify epidemiological studies and describe their design and use in oral health research.	Epidemiological Study Designs	Fundamentals of Community & Preventive Dentistry	50
CDPH1-CD-018	Explain the fundamental framework of an epidemiological study applicable to dental public health	Study Planning and Design	Fundamentals of Community & Preventive Dentistry	50
CDPH1-CD-019	Analyze how epidemiological findings guide preventive and clinical dental practices.	Application of Epidemiology	Fundamentals of Community & Preventive Dentistry	50
CDPH1-CD-020	Define bias and confounding and explain their influence on study validity.	Research Validity	Fundamentals of Community & Preventive Dentistry	50
CDPH1-CD-021	Explain techniques such as randomization and blinding and their role in minimizing bias in research studies.	Research Methodology	Fundamentals of Community & Preventive Dentistry	355

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC		
CDPH1-CD-022	Compare epidemiological, screening, and clinical approaches to oral disease management.	Integrated Disease Control Approaches	Fundamentals of Community & Preventive Dentistry	49
CDPH1-CD-023	Explain how epidemiological and screening principles can be applied in clinical and community dental care.	Application to Practice	Fundamentals of Community & Preventive Dentistry	49
CDPH1-CD-024	Differentiate and calculate prevalence and incidence rates to interpret oral health trends.	Epidemiological Measurements	Fundamentals of Community & Preventive Dentistry	56
CDPH1-CD-025	Classify and describe different types of oral health surveys.	Oral Health Surveys	Fundamentals of Community & Preventive Dentistry	85
	Explain the standardized steps involved in designing and conducting a simple oral health survey		Fundamentals of Community & Preventive Dentistry	85
CDPH1-CD-026	Describe data types, variables, statistical methods, sampling techniques, and present findings graphically.	Data Handling and Presentation	Fundamentals of Community & Preventive Dentistry	351
CDPH1-CD-027	Define range, variance, mean deviation, and standard deviation as measures of data	Research dynamics	Fundamentals of Community & Preventive Dentistry	351
CDPH1-CD-028	Define probability and explain its application in dental research and data interpretation.		Fundamentals of Community & Preventive Dentistry	351

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	Book	Page
CDPH1-CD-029	Interpret and calculate key descriptive measures of data, including central tendency and dispersion.	Hypothesis testing in research & Presentation of data	Fundamentals of Community & Preventive Dentistry	351
CDPH1-CD-030	Correlate standard deviation with mean and the concept of normal distribution	Parametric and non-parametric tests	Fundamentals of Community & Preventive Dentistry	351
CDPH1-CD-031	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		Fundamentals of Community & Preventive Dentistry	351
	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.		Fundamentals of Community & Preventive Dentistry	351
CDPH1-CD-032	Differentiate skewness and kurtosis types.		Fundamentals of Community & Preventive Dentistry	351
CDPH1-CD-033	Explain the cause-and-effect relationships underlying major oral diseases.	Disease Causation	Fundamentals of Community & Preventive Dentistry	65

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	Book	Page
CDPH1-CD-034	Define and classify oral health indices used in epidemiological studies.	Oral Health Indices	Fundamentals of Community & Preventive Dentistry	65
CDPH1-CD-035	escribe prevalence, distribution, and risk factors of periodontal diseases.	Periodontal Epidemiology	Fundamentals of Community & Preventive Dentistry	70
CDPH1-CD-036	Identify etiological factors and explain the triad of host, agent, and environment in periodontal disease.	Etiological Triads	Fundamentals of Community & Preventive Dentistry	70
CDPH1-CD-037	Evaluate preventive strategies for reducing the incidence of periodontal disease.	Periodontal Disease Prevention	Fundamentals of Community & Preventive Dentistry	70
CDPH1-CD-038	Explain the key components and strategies for planning oral health promotion programs aimed at preventing periodontal disease.	Health Promotion	Fundamentals of Community & Preventive Dentistry	70
CDPH1-CD-039	Explain etiological triads and contributing risk factors for oral cancer.	Oral Cancer Etiology	Fundamentals of Community & Preventive Dentistry	68
CDPH1-CD-040	Identify and implement preventive strategies for oral cancer in clinical settings.	Oral Cancer Prevention	Fundamentals of Community & Preventive Dentistry	68

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	Book	Page
CDPH1-CD-041	Design community-based oral cancer prevention programs using public health approaches.	Community Prevention Programs	Fundamentals of Community & Preventive Dentistry	68

PRACTICALS / LAB WORK

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	Book	Page
CDPH1-CD-042	Practise DMFT, CPI scoring on typodonts/models/case scenarios	Indices Recording (DMFT, CPI)	Log Book / Practical Book	78
	Learning how to record indices and simple epidemiological measures		Log Book / Practical Book	78
CDPH1-CD-043	Calculate mean, range, variance, and standard deviation using small datasets provided.	Basic Biostatistics	Log Book / Practical Book	78
CDPH1-CD-044	Interpret sample histograms and differentiate normal, skewed, and kurtotic distributions.	Skewness & Kurtosis	Log Book / Practical Book	78
CDPH1-CD-045	Perform basic dental screening by applying the principles of screening, using the Wilson and Jungner criteria and features of ideal screening tests.	Dental Screening	Log Book / Practical Book	78
	Distinguish screening findings from diagnostic assessments.		Log Book / Practical Book	78
CDPH1-CD-046	Conduct a community-based oral health assessment by performing dental history taking, clinical examination, and DMFT index recording using WHO Oral Health Assessment Form.	Community Visit 1: Dental Caries Assessment Activity	Log Book / Practical Book	78

PRISME

EVIDENCE BASED DENTISTRY		LECTURE = 1
YEAR	**BLOCK**	**LEARNING OUTCOME**
2	4	Describe and differentiate levels/types of evidence (systematic reviews, RCTs, cohort, case reports) and strengths/limitations

GENERAL PATHOLOGY

CODE	SPECIFIC LEARNING OUTCOMES	Book source
HR-Pa-001	Interpret basic liver function tests (ALT, AST, ALP, INR) to assess hepatic function and disease severity.	Robbins Pathology 10th edition
HR-Pa-002	Explain the mechanisms of hepatic coagulopathies and relate them to increased bleeding risk.	Robbins Pathology 10th edition
HR-Pa-003	Explain and compare eGFR, CBC, and related renal function tests in distinguishing acute from chronic kidney disease.	Robbins Pathology 10th edition

HR-Pa-004	Define and classify types of edema and explain their underlying causes.	Robbins Pathology 10th edition
HR-PA-005	Discuss the viral characteristics and diagnosis of HBV.	Lavinson 18th edition
	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.	
HR-PA-006	Discuss the viral characteristics and diagnosis of HAV.	Lavinson 18th edition
	Discuss the viral characteristics and diagnosis of HDV.	
	Discuss the viral characteristics and diagnosis of HEV.	
	Discuss the vaccination of HAV and HEV	
HR-PA-007	Discuss briefly the life cycle and diseases caused by Entamoeba histolytica	Robbins Pathology 10th edition
HR-PA-008	Discuss briefly the life cycle and diseases caused by Echinococcus granulosis	Robbins Pathology 10th edition

HR-PA-009	Discuss briefly the bacteria that cause Urinary Tract Infection.	
HR-PA-010	Discuss briefly the microbial characteristics, disease spectrum brief diagnosis, and renal infection caused by i. E. coli ii. Proteus iii. Staphylococcus saprophyticus iv. Klebsiella v. Pseudomonas	Lavinson 18th edition

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC
Res-Pa-020	Perform Ziehl-Neelsen staining to identify acid-fast bacilli, and accurately interpret the microscopic findings for the diagnosis of *Mycobacterium tuberculosis*.	Microbiology
	Perform and interpret the oxidase test to identify oxidase- positive	Microbiology
Res-Pa-021	organisms, specifically *Pseudomonas aeruginosa*, in a clinical microbiology setting.	Res-Pa-021

PRACTICALS

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC
CF3-Pa-025	Study the characteristics of Benign (Epithelial & Connective tissue) tumors: Squamous Papilloma, Lipoma, Leiomyoma,	Benign Tumors
CF3-Pa-026	Study the characteristics of Malignant (Epithelial and connective tissue) tumors: Squamous cell carcinoma, Leiomyosarcoma (Pictorial).	Malignant tumors
CF3-Pa-027	Perform and interpret the catalase test, and coagulase test.	Laboratory tests
CF3-Pa-028	Demonstrate appropriate Sterilization and disinfection methods for dental instruments.	Sterilization and Disinfection
CF3-Pa-029	Perform Gram staining on bacterial smears to identify gram-positive, gram-negative bacteria and candida under the microscope.	Microscopic identification
CF3-Pa-030	Demonstration the use of anerobic jar and explain its applications in the cultivation of dental microbes.	Anerobic cultures
CF3-Pa-031	Demonstrate collection of oral and throat specimens for microbiological	Sample

	examination in dental practice.	collection
CF3-Pa-032	Identify culture media used in microbiology laboratory for identification of pathogens. **CFRC**	Culture media

Block IV	
1.	**Interpretation of baseline reports** Interpret CBC, LFTs, & RFTs reports. Facilitator = Dr Fauzia/ Dr Ahsan
2.	**Interpretation of coagulation profile** Interpret BT, CT, PT, APTT, and INR reports. Facilitator = Dr Nazia/ Dr Ahsan

PHARMACOLOGY

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	References
HR-Ph-001	Classify 5 major types of diuretics and relate them to their sites of action Describe the major applications and the toxicities of acetazolamide, thiazides, loop diuretics, and potassium-sparing diuretics.	Diuretics	**Katzung &Trevor's 12th Edition Page: 94, 95** **Lippincott 7th Edition Page: 218, 219**
HR-PH-002	Apply dose-modification charts for analgesics, local anesthesia, and common antibiotics in hepatic patients.	Drug Dose Modification in Hepatic Impairment	**Lippincott 7th Edition Page: 220 to 228**

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

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	
EnC-Ph-001	State the major effects of insulin on body tissues	Antidiabetic drugs: Insulin	**Katzung &Trevor's 12th Edition Page: 348 to 350** **Lippincott 7th Edition Page: 313**
	Classify types of insulin (short, intermediate, long-acting)		
	Describe the uses and common side effects of insulin		
	Recognize newer agents (SGLT2 inhibitors, incretin mimetics, DPP-4 inhibitors) at a basic level		**Lippincott 7th Edition Page: 320 to 322**
EnC-Ph-002	List the main groups of oral antidiabetic drugs (e.g., sulfonylureas, metformin, thiazolidinediones)	Oral antidia	**Katzung &Trevor's 12th Edition Page: 350 to 353** **Lippincott 7th Edition Page: 317 to 323**
	Explain in simple terms how these drugs lower blood glucose		

	Identify common side effects and contraindications	betic drugs	
EnC-Ph-003	Outline the synthesis and functions of thyroid hormones	Thyroid hormones & Antithyroid drugs	**Katzung &Trevor's 12th Edition Page: 324, 325Lippincott 7th Edition Page: 306, 307**
	State the drugs used in hypothyroidism		**Lippincott 7th Edition Page: 307, 308**
	Explain the mechanism of action of main antithyroid drugs		**Katzung &Trevor's 12th Edition Page: 326, 327Lippincott 7th Edition Page: 308**
	Recognize the role of iodides and beta blockers in hyperthyroidism		
	List common toxicities of antithyroid drugs		
EnC-Ph-004	Recall the main adrenal steroid hormones (cortisol, aldosterone)	Adrenal hormones – I	**Katzung &Trevor's 12th Edition Page: 331 to 333 Lippincott 7th Edition Page: 341**
	Recognize some synthetic glucocorticoids		**Katzung &Trevor's 12th Edition Page: 333**
	Differentiate between short-,intermediate-, and long-acting glucocorticoids.		**Katzung &Trevor's 12th Edition Page: 332 Lippincott 7th Edition Page: 340, 341**
EnC-Ph-005	Describe the main pharmacological effects and therapeutic uses of glucocorticoids.	Adrenal hormones – II	**Katzung &Trevor's 12th Edition Page:330 to 333 Lippincott 7th Edition Page: 342, 343**
	Outline their major adverse effects and precautions corticosteroids		**Katzung &Trevor's 12th Edition Page:333 Lippincott 7th Edition Page: 344**
	Explain the clinical implications and monitoring considerations in long-term steroid use		**Katzung &Trevor's 12th Edition Page: 333, 334 Lippincott 7th Edition Page: 344 to 346**
	Describe their pharmacokinetics, mechanism of action, pharmacological effects, uses, adverse effects, drug interactions and contraindications of Corticosteroid Antagonists		

BEHAVIORAL SCIENCES

Code	Specific Learning Outcomes	Topic
CDPH1- BhS-00	Explain and apply the biopsychosocial model in dental patient care.	Biopsychosoci al Model
CDPH1- BhS-002	Describe psychological development stages (Piaget, Erikson, Freud) and their relevance to patient behaviour in dental settings.	Human Development
CDPH1- BhS-003	Explain how personality traits influence patient reactions to oral health challenges and stress in a dental setting.	Personality
CDPH1- BhS-004	Describe patient stress responses and explain how coping mechanisms influence behaviour and cooperation in dental settings.	Patient Stress & Coping
CDPH1- BhS-005	dentify illness behaviour patterns in dental patients and apply appropriate management strategies.	Illness Behaviour
CDPH1- BhS-006	Define dental anxiety and phobia and explain their impact on patient attendance, treatment compliance, and oral health outcomes.	Dental Anxiety -- Foundation
CDPH1- BhS-007	Describe the stages of grief and identify psychological responses to dental-related loss. Grief -- Apply supportive communication strategies for patients experiencing grief or dental-related emotional distress.	Stages Grief -- Communication
CDPH1- BhS-008	Recognize signs of domestic violence, abuse, and self-harm presenting in the dental setting. Outline legal responsibilities and appropriate intervention pathways when domestic violence or self-harm is suspected.	Safeguarding - - Recognition Safeguarding - - Responsibilities
CDPH1- BhS-009	Explain evidence-based methods of patient reassurance and emotional support and describe their impact on treatment outcomes.	Reassurance & Emotional Support

Practical / Lab work

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC
CDPH1- BhS-010	Demonstrate communication with pediatric, adolescent, and adult patients based on developmental stage.	Age-Specific Communication
CDPH1- BhS-011	Perform behavior management using Tell-Show-Do with a simulated anxious pediatric patient.	Tell-Show-Do Technique
CDPH1- BhS-012	Demonstrate empathetic, patient-centered communication, apply empathy skills effectively, and provide structured psychological support to distressed patient. Explain a dental procedure to a patient with low health literacy using simple language.	Empathetic & Supportive Communication
CDPH1- BhS-013	Apply shared decision-making in a simulated treatment planning discussion.	Shared Decision-making
CDPH1- BhS-014	Resolve interpersonal conflicts in a dental practice setting ensuring patient safety and team harmony.	Conflict Resolution
CDPH1- BhS-015	Demonstrate structured emotional support and empathetic communication with a simulated patient experiencing dental-related grief or distress.	Grief Support - - Applied

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC
HR-BhS001	Explain the principles for communicating diagnoses, treatment modifications, and infection-control measures to patients with hepatic disease in a clear, non-stigmatizing manner.	Communication
HR- BhS -002	Explain the OARS motivational interviewing (MI) micro-skills and describe how they can be applied to improve patient adherence to liver and kidney health recommendations	Motivational Interviewing Skills
HR- BhS -003	Explain the principles and appropriate use of shared-decision tools in developing a bleeding-risk mitigation plan collaboratively with the patient and the physician	Shared Decision-Making
	Describe the principles and rationale of	

HR- BhS -004	anxiety-reduction techniques (such as tell–show–do and paced breathing) used when preparing medically compromised patients for dental procedures.	Anxiety Reduction Techniques
HR- BhS -005	Discuss ethical dilemmas encountered in pain management for patients with liver disease and explain the rationale for an appropriate, justified prescribing decision	Ethical Considerations
HR- BhS -006	Describe communication and professionalism challenges encountered in clinical practice and outline a monthly goal to improve one specific aspect.	Reflective Practice
HR- BhS -007	Explain principles of patient-centred communication and shared decisionmaking. Principles of Patient-Centred	Communication
HR- BhS -008	Explain the principles of patient-centred communication and shared decisionmaking in the management of individuals with hepatic disease.	Application of Patient-Centered Care
HR- BhS -009	Explain the process of coordinating referrals and follow-up with hepatology services using structured communication templates and shared electronic records.	Interdisciplinary Coordination and Continuity of Care
HR- BhS -010	Explain strategies for providing patient education on prevention and postoperative care using clear, literacy-appropriate written and verbal instructions.	Patient Education and Health Literacy in Dental Practice

ORAL BIOLOGY

Code	Learning objectives	Topic	Book and Page no.
Car2-OB-001	Describe the general considerations and morphological features of maxillary premolars, including their labial, lingual, mesial, distal, and occlusal aspects, as well as root morphology.	Morphology of Premolars	Fuller's 9th Edition, Unit 5, pages 70-84
	Describe the general considerations and morphological features of mandibular premolars, including their labial, lingual, mesial, distal, and occlusal aspects, as well as root morphology.		Fuller's 9th Edition, Unit 6, pages 85-98
	Differentiate maxillary from mandibular premolars using key identification criteria such as cusp morphology, root anatomy, and occlusal patterns.		Fuller's 9th Edition, Units 5 and 6, pages 70-98
Car2-OB 002	Identify and explain variations and anomalies in crown and root morphology of premolars. Anomalies of Premolars	Anomalies of Premolars	Fuller's 9th Edition, Units 5 and 6, pages 78, 81, 91, 96
Car2-OB 003	Explain and analyse the number, shape, and anatomical variations of pulp canals and pulp chambers in premolars, with reference to radiographic appearances.	Pulp Morphology & Radiographic Correlation	Fuller's 9th Edition, Units 5 and 6, pages 141-142, 145-146
Car2-OB 004	Describe the general considerations and detailed morphology of the labial, lingual, mesial, distal, occlusal aspects, and root structure of permanent maxillary molars.	Morphology of Permanent Maxillary Molars	Fuller's 9th Edition, Units7, pages 99-116
Car2-OB 005	Describe the general considerations and detailed morphology of the labial, lingual, mesial, distal, occlusal aspects, and root structure of permanent Mandibular molars.	Morphology of Permanent Mandibular Molars	Fuller's 9th Edition, Unit 8, pages 117-135
Car2-OB 006	Enlist and compare key identification features of maxillary deciduous & permanent molars based on cusp pattern, crown outline, and root configuration.	Comparison of Deciduous & Permanent molars	Fuller's 9th Edition, Unit 10, pages 171-173
Car2-OB 007	Enlist and compare key identification features of deciduous & permanent mandibular molars based on cusp pattern, crown outline, and root configuration.		Fuller's 9th Edition, Unit 10, pages 175-176
Car2-OB 008	Enlist morphological anomalies in the crown and root of deciduous and permanent molars.	Molar Morphological Anomalies	Fuller's 9th Edition, Units 7, 8, 11, pages 107, 110, 111, 126, 130, 131

Car2-OB 009	Explain and analyse the number, shape, and anatomical variations of pulp canals and pulp chambers in deciduous & permanent molars, with reference to radiographic appearances.	Pulp Morphology and Radiographic Correlation	Lecture notes/ Radiology
Practical's			
Car2-OB 010	Identify and draw the outlines of all premolars (labial, lingual, mesial, distal, and occlusal aspects) on paper or models, labelling morphological features such as cusps, ridges, fossa, contact points, roots, and pulp canals	Premolars	Fuller's 9th Edition, Units 5,6, pages 82-84, 97-98
	Accurately label all key morphological features (e.g., cusps, marginal ridges, transverse ridges, triangular ridges, developmental depressions, pits, and grooves) on premolar models		Plaster models of Premolars will be given to the students
	Carve anatomical models of premolars using soap blocks/ wax blocks.		Activity will be done in the Oral Biology Lab
Car2-OB 011	Identify and draw the outlines of all permanent molars (labial, lingual, mesial, distal, and occlusal aspects) on paper or models, labelling their key features, including oblique ridges and root anatomy Identify and draw the outlines of deciduous molars.	Molars	Fuller's 9th Edition, Units 7,8 pages 112-116, 132-135 Fuller's 9th Edition, Units 10, pages 180-181, 185-186
	Accurately label all key morphological features (cusp name, cusp ridges, marginal ridges, transverse ridges, triangular ridges, fossa, developmental depressions, contact points, name of roots/pulp canals, etc.) on molar models		Plaster models of Molars will be given to the students
	Carve anatomical models of molars using soap blocks/ wax blocks		Activity will be done in the Oral Biology Lab

PHYSIOLOGY

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	REFERENCE	PAGE NO.
HR-P 001	Explain the functional anatomy and vascular organization of the liver Discuss functions of the liver.	Vascular Anatomy and Functional Correlation of the Liver	Guyton & Hall. Textbook of Physiology. 14th Edition	Chapter 71 pg 871-876
	Differentiate between hemolytic and obstructive jaundice.			
	State the dental relevance of liver disease in coagulation and drug metabolism.			
HR-P 002	Describe physiological anatomy of the kidney and nephron	Anatomy of Renal System	Guyton & Hall. Textbook of Physiology. 14th Edition	Chapter 26 Pg 321-330
	Explain physiological anatomy and innervation of the bladder			
	Describe the mechanism of micturition and its control			
HR-P 003	Explain the processes of glomerular filtration, tubular reabsorption	Primary physiological Function of Renal System	Guyton & Hall. Textbook of Physiology. 14th Edition	Chapter 27 Pg 331-342
	State normal GFR and filtration fraction values explain determinants of GFR.			
	Describe the mechanism of autoregulation of GFR			
	Describe factors affecting GFR			
HR-P 004	Mention proportion of sodium, glucose and water reabsorbed in different parts of nephron.	Secondary Physiological function of renal system	Guyton & Hall. Textbook of Physiology. 14th Edition	Chapter 28 Pg 349-355
	system Explain regulation of fluid osmolality by osmoreceptor-ADH mechanism			Chapter 29 Pg 375-377
HR-P 005	Discuss normal constituents of urine	Clinical relevance of renal system	Guyton & Hall. Textbook of Physiology. 14th Edition	Lecture slides

	of renal system Identify normal values/range of blood urea, and serum creatinine			
HR-P 005	Differentiate between acute kidney injury and chronic kidney disease.	Patho- Physiology of renal system	Guyton & Hall. Textbook of Physiology. 14th Edition	Chapter 32 Pg 423-434
	Enlist causes of hypertension in kidney diseases			
	Define nephrotic syndrome, oliguria and anuria			
	State the dental relevance of chronic kidney disease			

BIOCHEMISTRY

CODE	SPECIFIC LEARNING OUTCOMES	RESOURCES
	THEORY	
HR-B-001	Differentiate between L-alpha amino acids and alpha-keto acids (carbon skeleton).	Lippincott Illustrated Reviews Biochemistry (8th edition). Chapter No: 19 Amino Acids: Nitrogen Disposal Page. No: 271, 276-278. • Handouts
	Enumerate alpha-keto acids of alanine, glutamate, and aspartate.	
	Define transamination and explain its biochemical significance.	
	Describe the reactions catalyzed by alanine aminotransferase (ALT) and aspartate aminotransferase (AST).	
	Discuss the role of pyridoxal phosphate (PLP) in transamination reactions.	
	Explain the diagnostic importance of AST and ALT.	
	Define oxidative deamination and outline its physiological significance.	Lippincott Illustrated Reviews Biochemistry (8th edition). Chapter No: 19 Amino Acids: Nitrogen
	Describe the reaction catalyzed by glutamate dehydrogenase (GDH).	

		Disposal Page. No: 278-279. • Handouts
HR-B-002	Enlist sources of ammonia. Outline the two major mechanisms for transport of ammonia from peripheral tissues to liver. Enumerate transport forms of ammonia.	Lippincott Illustrated Reviews Biochemistry (8^{th} edition). Chapter No: 19 Amino Acids: Nitrogen Disposal Page. No: 279, 282-283. • Handouts
HR-B-003	Explain the reactions, regulatory mechanisms, and physiological significance of the urea cycle and state the normal blood urea levels.	Lippincott Illustrated Reviews Biochemistry (8^{th} edition). Chapter No: 19 Amino Acids: Nitrogen Disposal Page. No: 279-282.
HR-B-004	Describe the normal blood ammonia levels and explain the biochemical basis of ammonia-induced CNS toxicity. Enlist inherited & acquired causes of hyperammonemia. Describe the effects of hyperammonemia on brain. Discuss the dietary and pharmacological strategies used in its management of hyperammonemia.	Lippincott Illustrated Reviews Biochemistry (8^{th} edition). Chapter No: 19 Amino Acids: Nitrogen Disposal Page. No: 283-286. • Handouts
HR-B-005	Briefly describe the metabolism & importance of glutamine in human body.	Lippincott Illustrated Reviews Biochemistry (8^{th} edition). Chapter No: 19 Amino Acids: Nitrogen

		Disposal Page. No: 282-283. • Handouts
HR-B-006	Describe heme degradation and jaundice.	Lippincott Illustrated Reviews Biochemistry (8^{th} edition). Chapter No: 21 Amino Acids: Conversion to specialized products Page. No: 314-317. • Handouts
HR-B-007	Interpret elevated ALT and AST values in patient histories to anticipate potential bleeding risks and altered drug metabolism during dental treatment.	• Lab reports
HR-B-008	Explain renal structure–function relationships underlying fluid balance, drug excretion, and homeostasis.	• Handouts
HR-B-009	Explain the renal mechanisms involved in hydrogen ion homeostasis.	• Handouts
PRACTICALS/ LAB WORK		
HR-B-010	Estimate blood urea levels using standard biochemical methods and interpret results in relation to renal function.	**Practical demonstrations**
HR-B-011	Estimate serum creatinine concentration and interpret findings to assess glomerular filtration efficiency.	**Practical demonstrations**
HR-B-012	Estimate total and direct serum bilirubin and interpret values to differentiate between hemolytic, hepatic, and obstructive jaundice.	**Practical demonstrations**

ORAL PATHOLOGY

Code	Learning objective	Topic	Reference book
Car2-OP-001	Define dental caries and outline its initiation in enamel. List and identify zones of enamel caries & histological images. List the zones of dentin caries. Outline the progression of cares from enamel to dentin.	Zones of Caries	Cowson's Essentials of Oral and Maxillofacial Pathology. page 61-72
Car2-OP-002	Explain standardized systems (International Caries Detection and Assessment System (CAS) for the detection and clinical evaluation of carious lesions and pulp health status.	Caries Detection and Diagnosis	https://pmc.ncbi.nlm.nih.gov/articles/PMC5030492/#sec3
Car2-OP-003	Evaluate the etiology and contributing factors of non-carious cervical and enamel lesions, including erosion, abrasion, attrition, abfraction and molar-incisor hypo mineralization (MIH). Identify and differentiate enamel and dentin defects (hypoplasia, amelogenesis imperfecta, fluorosis, MIH, erosion, abrasion, attrition, and developmental malformations) based on clinical and radiographic criteria. Differentiate developmental enamel defects from early carious lesions based on clinical and radiographic findings to prevent unnecessary intervention.	Tooth Surface Loss and Enamel Defects	Nevile oral And Maxilofacial pathology 3rd edition Page 56-64 Contemporary of Oral and Maxillofacial Pathology Chp 11 Physical and chemical Injuries Page:367-370
Car2-OP-004	Define pulpitis and give its type. Differentiate between reversible & irreversible pulpitis.	Pulpitis	Cowson's Essentials of Oral and Maxillofacial Pathology Page-72-77

ORAL MEDICINE

Code	Specific Learning Outcomes	Topic	Reference
HR-OM-001	Explain the oral implications of hepatitis, cirrhosis, and hepatic failure.	Oral Manifestations of Hepatic Diseases	Book Reference: Tyldesley's Oral Medicine 5th Edition Chapter 12: Gastrointestinal Disease (Pages 141–150)
HR-OM-006	Identify oral soft-tissue changes associated with hepatic disease and correlate them with underlying cholestatic mechanisms.	Oral Manifestations of Liver Disease	
HR-OM-002	Recognize hepatic conditions most relevant to general dental care and their impact on treatment planning.	Dental Considerations in Hepatic Disorders	Book Reference: Tyldesley's Oral Medicine 5th Edition Chapter 12: Gastrointestinal Disease (Pages 145–150)
HR-OM-003	Explain the principles of post-exposure prophylaxis (PEP) for Hepatitis B and Hepatitis C.	Infection Control and Post-Exposure Prophylaxis for Hepatitis	Book Reference: Tyldesley's Oral Medicine 5th Edition Chapter 4: Infections & Chapter 19: Medical Emergencies (Pages 29–48, 229–238) Infection Control Program, College of Dentistry, LMDC
HR-OM-004	Interpret lab findings CBC, RFTs (urea, creatinine), bleeding time and (PT, APTT, & INR) to plan dental treatment for acute and chronic renal conditions.	Laboratory Interpretation and Dental Management in Renal Disorders	Book Reference: Tyldesley's Oral Medicine 5th Edition Chapter 13: Blood, Nutrition, Endocrine Disturbances, and Renal Disease (Pages 158–164)
HR-OM-007	Interpret urea and creatinine levels and apply findings to modify dental treatment plans.	Dental Management in Renal Disease	
HR-OM-005	Describe the risk factors for patients undergoing renal dialysis associated with oral cavity.	Oral Health Considerations in Renal Dialysis Patients	Book Reference: Tyldesley's Oral Medicine 5th Edition Chapter 13: Blood, Nutrition, Endocrine Disturbances, and Renal Disease (Pages 160–164)
HR-OM-008	Describe and relate the systemic and oral manifestations of CKD, nephrotic syndrome, and dialysis dependency.	Oral Manifestations of Renal Disease	Book Reference: Tyldesley's Oral Medicine 5th Edition Chapter 13: Blood, Nutrition, Endocrine Disturbances, and Renal Disease (Pages 151–164)

PRE-CLINICAL OPERATIVE DENTISTRY

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	RECOMMENDED BOOK
Car2-OD-001	Discuss the etiology of dental caries.	Dental Caries	**ART AND SCIENCE OF OPERATIVEDENTISTRY(SECOND SOUTH ASIA EDITION)Chap2** **Dental caries**
Car2-OD-002	Classify dental caries based on site, severity, and activity.	Classification of Dental Caries	
Car2-OD-003	Describe the dynamic process of demineralization and remineralization in the development of caries.	Demineralization and remineralization	
Car2-OD-004	Discuss the clinical characteristics of dental caries.	Clinical characteristics of dental caries	
Car2-OD-005	Explain the radiographic appearance of dental caries.	Caries' Radiographic Appearance	
Car2-OD-006	Discuss prevention of caries using medical model.	Caries Prevention	
Car2-OD-007	Outline minimally invasive and operative approaches to caries management.	Caries Management	
Car2-OD-008	Explain the criteria used to classify adult and pediatric patients into high, moderate, or low caries risk based on clinical findings, caries history, and relevant risk factors.		
	Describe principles of caries risk assessment and their role in clinical decision-making.	Caries risk Assessment	

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	RECOMMENDED BOOK
DMPD1-OD-001	Recognize different instruments used in tooth preparation.	INSTRUMENTS AND ARMAMENTARIUM	**ART AND SCIENCE OF OPERATIVE DENTISTRY(SECOND SOUTH ASIA EDITION)** **CHAPTER NO.7**
	Describe their functions		
	Differentiate between hand and rotary instruments.		
	Discuss the hazards of rotary instruments		
DMPD1-OD-002	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.	ISOLATION	**ART AND SCIENCE OF OPERATIVE DENTISTRY(SECOND SOUTH ASIA EDITION)** **CHAPTER NO.8** **Preliminary considerations for operative dentistry**
DMPD1-OD-003	Discuss the principles of cavity preparation, including outline form, resistance form, retention form, and convenience form in ensuring the longevity and effectiveness of restorative treatments.	FUNDAMENTALS OF TOOTH PREPARATION	**ART AND SCIENCE OF OPERATIVE DENTISTRY(SECOND SOUTH ASIA EDITION)** **CHAPTER NO.11** **Fundamentals of tooth preparation and pulp protection**

PRACTICALS

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC
Car2-OD-009	Identify clinical characteristics of dental caries in a clinical setup.	
Car2-OD-010	Identify various classes of carious lesions using images.	Dental Caries

PRE-CLINICAL PROSTHODONTICS

CODE	SPECIFIC LEARNING OUTCOMES	TOPIC	RECOMMENDED RESOURCE
DMPD1-PD-001	Define prosthodontics and describe its branches and scope in oral rehabilitation.	Introduction to Prosthodontics. Overview and branches	MacCracken's Removable Partial Prosthodontics 13th ed.
DMPD1-PD-001	Comprehend various terminologies used in prosthodontics.	Branches of Prosthodontics	McCracken's Prosthodontics 13th ed.
DMPD1-PD-002	Define partially edentulous arches and identify them according to Kennedy's classification Class I-IV. Comprehend different modifications of Kennedy's Classification	Kennedy Classification of partial Edentulism	McCracken's Prosthodontics 13th ed. Chapter 3
DMPD1-PD-003	Apply Applegate's rules in classification of partially edentulous arches. Differentiate between bounded and free end saddle area.	Applegate's Rules	McCracken's Prosthodontics 13th ed. Chapter 3
DMPD1-PD-004	Identify different prosthesis used for replacement of missing teeth identify components of acrylic RPD (type of teeth, retainer and denture base). Comprehend significance of components of RPD.	Interim Partial Denture	McCracken's Prosthodontics 13th ed. Chapter 24
DMPD-PD-005	Define retention, define retainer, identify different types in interim/acrylic RPD. Comprehend different principles of retention used in prosthodontics	Interim Partial Denture	McCracken's Prosthodontics 13th ed. Chapter 24
DMPD-PD-005	Comprehend properties and uses of stainless-steel wrought wire in clasp fabrication and its application in RPD.	Interim Partial denture	McCracken's Prosthodontics 13th ed. Chapter 24

PRACTICAL / LABORATORY WORK

CODE	SPECIFIC LEARNING OUTCOMES	PRACTICAL TOPIC	RESOURCE
DMPD1-PD-001	Identify and classify partially edentulous casts according to Kennedy's classification.	Kennedy Classification Exercise	McCracken's Prosthodontics chap 3
DMPD1-PD-002	Fabricate a C-clasp using stainless steel wire on cast models.	C-Clasp Fabrication	Lab manual of dentistry Abdal's

DMPD1-PD-003	Fabricate maxillary and mandibular occlusal rims with correct dimensions.	Occlusal Rim Fabrication	Lab manual of dentistry Abdal's
DMPD1-PD-004	Record jaw relation and articulate casts on articulator.	Articulation of Casts	Lab manual of dentistry Abdal's
DMPD1-PD-005	Arrange upper anterior teeth following esthetic and anatomical guidelines.	Upper Anterior Tooth Arrangement	Lab manual of dentistry Abdal's
DMPD1-PD-006	Arrange lower anterior teeth ensuring correct overbite and overjet according to five planes.	Lower Anterior Tooth Arrangement	Lab manual of dentistry Abdal's
DMPD1-PD-007	Arrange upper posterior teeth correctly on occlusal rims following anatomical guidelines.	Upper Posterior Tooth Arrangement	Lab manual of dentistry Abdal's
DMPD1-PD-008	Arrange lower posterior teeth to establish proper occlusion in maximum intercuspation.	Lower Posterior Tooth Arrangement	Lab manual of dentistry Abdal's
DMPD1-PD-009	Perform wax-up, carving and festooning of dentures.	Wax-Up and Festooning	Lab manual of dentistry Abdal's
DMPD1-PD-010	Demonstrate correct flasking and dewaxing procedures.	Flasking and Dewaxing	Lab manual of dentistry Abdal's
DMPD1-PD-011	Perform packing and curing of complete dentures using acrylic resin.	Packing and Curing	Lab manual of dentistry Abdal's

ASSESSMENT POLICY:

Regulations:

1. Professional examination shall be open to any student who: -
   a. has been enrolled/registered and completed one academic year preceding the concerned professional examination in a constituent/affiliated college of the University.
   b. has his/her name submitted to the Controller of Examinations, for the purpose of examination, by the Principal of the college in which he / sheis enrolled & is eligible as per all prerequisites of the examination.
   c. has his/her marks of internal assessment in all the Blocks/Clinical Clerkships sent to the Controller of Examinations through office of the Principal of the concerned college, at the end of each Block/Clinical Clerkships, as well as at the conclusion of the academic session along with the admission form for the professional examination.
   d. Has been certified by the principal of his/her college:
      (i) of good character;
      (ii) of having attended not less than cumulative 75%* of the full course of lectures delivered, practical and clinical rotations conducted in the particular academic session, while maintaining 75 % attendance in each Block/Clinical Clerkship,
      (iii) of having appeared at the Block/Clinical Clerkship Examinations conducted by the college of enrolment with at least 50 % marks* in each Block/Clinical Clerkship examination, as well as in aggregate score of all Blocks/Clinical Clerkships examinations for the concerned year;

2. Written/Theory paper in all Professional Examinations in Modular Integrated MBBS or BDS Curricula shall consist of MCQs alone, with effect from Annual 2026 Examinations. (Ref: No. UHS/REG-25/2379, dated 17.11.2025)
3. The minimum number of marks required to pass the professional examination for each Block/Clinical Clerkship shall be fifty percent (50%) in Written and fifty percent (50%) in the 'Oral/Practical/Clinical' examinations and fifty percent (50%) in aggregate, independently and concomitantly, at one and the same time.
4. A candidate failing in one or more Blocks/Clinical Clerkships in the annual examination shall be provisionally allowed to join the next professional class till the commencement of supplementary examinations. The candidate, however, shall have to pass the failed Block/s or Clinical Clerkship in this supplementary examination failing which he / she shall be detained in the professional year. Under no circumstances, a candidate shall be promoted to the next professional class till he/she

has previously passed all the Blocks/Clinical Clerkships in the preceding professional examination.

If a student appears in the Supplementary Examination for the first time as he/she did not appear in the annual examination for any reason and failed in any Block/Clinical Clerkship in the Supplementary Examination, he/she will be detained in the same class and will not be promoted to the next class.

**Notification No.UHS/REG-25/2351 Dated 13-11-2025*

5. Only one annual and one supplementary of each Professional Examination shall be allowed in a particular academic session. However, in exceptional situations, i.e., national calamities, war or loss of solved answer books in case of accident, special examination may be arranged after having observed due process of law. This will require permission of relevant authorities, i.e., Syndicate and Board of Governors.
6. Any student who fails to clear the First or Second Professional MBBS / First Professional BDS Examination, in four consecutive attempts, each, inclusive of both availed as well as un-availed attempts, after becoming eligible for the examination, and has been expelled on that account shall not be eligible for continuation of studies and shall not be eligible for admission as a fresh candidate in either MBBS or BDS.
7. The application for admission of each candidate to the professional examination shall be submitted to the Controller of Examination, through the Principal of the College, on the prescribed format, as per notified schedule, accompanied by the prescribed fee.
8. The candidates shall pay their fee through the principal of their respective Colleges, who shall forward the Examination Forms along with the duly paid challan of the examination fee generated from the Online Examination Form.
9. The continuous internal assessment through the Block/Clinical Clerkship, conducted by the college of enrollment, shall carry 20% weightage in the total allocated marks for the concerned Block/Clinical Clerkship in the Professional Examination conducted by the university. The score will be equally distributed to the Written and "Oral/Practical/Clinical" Examinations.
10. The marks of internal assessment through Blocks/Clinical Clerkships examination and attendance record shall be submitted to Controller of Examinations, along with question papers and keys for the Block/Clinical Clerkship examination, within two weeks of completion of each Blocks/Clinical Clerkships examination.

    Further, parent-teacher meetings shall be arranged by the colleges after every Block/Clinical Clerkship examination to share feedback on the progress of students with their parents. Minutes of parent teacher meetings, academic timetables/schedule of Blocks/Clinical Clerkships and

academic year study guides shall be submitted to the Department of Medical Education UHS, as well.

11. It is emphasized that fresh internal assessment or a revision of assessment for supplementary examination shall not be permissible. However, a revised internal assessment for the detained students can be submitted. The internal assessment award in a particular year will not be decreased subsequently detrimental to the detainee candidate. A proper record of the continuous internal assessment shall be maintained by the concerned department/s in the colleges.
12. The colleges may arrange remedial classes and one re-sit for each Block/Clinical Clerkship examination after fulfillment of prescribed requirements given below. The remedial classes and re-sit examination can be conducted during summer vacation/weekends, before or during preparatory leave for the concerned professional examination, subject to the following conditions:

Block/Clinical Clerkship Attendance	Remedial Classes
<75%, ≥ 50% (50-74%)	i. Principal of the college may conduct remedial classes and submit result to the Examination Department, UHS, independently. ii. Principal of the college may conduct remedial classes for detained students, who have short attendance in the first Block/Clinical Clerkship of a professional year after detention. The college may submit record of the remedial classes to the Examination Department, UHS, independently.
<50%	i. Principal of the college may submit attendance record of such students to Department of Medical Education, UHS, seeking permission for conduct of remedial Classes. The conduct of remedial classes in such cases shall be arranged only after permission from the Competent Authority in the university. ii. The colleges shall also have to provide the university with the reasons submitted by the candidates for short attendance along with documentary evidence for the same duly verified by the principal. iii. The following shall be considered as valid reasons for short attendance of the students for consideration of permission for remedial classes:

	• Illness/accident/surgery of the student or sickness/death of an immediate relative/being afflicted by a natural/man-made calamity or disaster or detained students (missed the first Block/Clinical Clerkship of the year), students clearing their preceding professional examination in supplementary, or late admitted students who have been permitted for joining by UHS

Marks in Block/ Clinical Clerkship Examination	Re-sit Examination
<50% Marks/ Absence from Block /Clinical Clerkship Examination	i. Principal of the college may submit record of such students to Department of Medical Education, UHS, seeking permission for conduct of re-sit examination. ii. The conduct of re-sit examination in all cases shall be arranged only after permission from the Competent Authority in the university. iii. The colleges shall also have to provide the university with the reasons submitted by the candidates for absence from the Block/Clinical Clerkship examination, along with documentary evidence for the same duly verified by the principal. iv. The following shall be considered as valid reasons for absence of a student from Block/Clinical Clerkship examination, and for consideration of permission for re-sit examination: • Illness/accident/surgery of the student or sickness/death of an immediate relative/being afflicted by a natural/man-made calamity or disaster or detained students (missed the first Block/Clinical Clerkship of the year), students clearing their preceding professional examination in supplementary, or late admitted students who have been permitted for joining by UHS

13. The following policy shall be applicable for transition of students From Traditional Subject-Based Scheme to the Modular Integrated Curriculum Scheme:
    i. The students who fail in all subjects of the professional examination, either by taking the examination or due to non-appearance, and are detained in the respective professional year, shall follow the Modular Integrated Curriculum Scheme for their teaching and assessment.

ii. The students who fail in one or more subjects but not all the subjects of a professional examination, either by taking the examination or due to non-appearance, and are detained in the respective professional year, shall attend classes with students following the Modular Integrated Curriculum Scheme, but they will be examined in the failed subject/s according to their parent scheme, i.e., the Traditional Subject-Based Curriculum Scheme.

<table>
<tr><th colspan="8">BDS Year-2</th></tr>
<tr><th>Subject</th><th colspan="2">Theory</th><th colspan="4">Practical</th><th>Total</th></tr>
<tr><td rowspan="6">Block IV</td><td>Cariology II – 18 MCQs</td><td rowspan="5">120 Marks</td><td rowspan="5">Practical/ Clinical Examination</td><td rowspan="3">08 OSPE (09 marks each)</td><td rowspan="3">08 Stations x 09 = 63 Marks</td><td rowspan="5">120 Marks</td><td rowspan="5">300</td></tr>
<tr><td>Community Dentistry & Public Health-I - 27 MCQs</td></tr>
<tr><td>Dental Materials & Pre-Clinical Dentistry-I – 45 MCQs</td></tr>
<tr><td>Hepatorenal - 28 MCQs</td><td rowspan="2">08 OSVE (06 marks each)</td><td rowspan="2">08 Stations x 06 = 48 Marks</td></tr>
<tr><td>PRISME - 02 MCQs</td></tr>
<tr><td colspan="2">Internal Assessment 10%</td><td colspan="4">Internal Assessment 10%</td></tr>
<tr><td rowspan="6">Block V</td><td>Endocrinology - 22 MCQs</td><td rowspan="5">120 Marks</td><td rowspan="5">Practical/ Clinical Examination</td><td rowspan="3">08 OSPE (09 marks each)</td><td rowspan="3">08 Stations x 09 = 63 Marks</td><td rowspan="5">120 Marks</td><td rowspan="5">300</td></tr>
<tr><td>Occlusion-II – 20 MCQs</td></tr>
<tr><td>Community Dentistry & Public Health-II — 30 MCQs</td></tr>
<tr><td>Dental Materials & Pre-Clinical Dentistry-II — 46 MCQs</td><td rowspan="2">08 OSVE (06 marks each)</td><td rowspan="2">08 Stations x 06 = 48 Marks</td></tr>
<tr><td>PRISME - 02 MCQs</td></tr>
<tr><td colspan="2">Internal Assessment 10%</td><td colspan="4">Internal Assessment 10%</td></tr>
<tr><td rowspan="4">Block VI</td><td>Craniofacial-III – 37 MCQs</td><td rowspan="3">120 Marks</td><td rowspan="3">Practical/ Clinical Examination</td><td rowspan="2">08 OSPE (09 marks each)</td><td rowspan="2">08 Stations x 09 = 63 Marks</td><td rowspan="3">120 Marks</td><td rowspan="3">300</td></tr>
<tr><td>Respiration – 35 MCQs</td></tr>
<tr><td>Dental Materials & Pre-Clinical Dentistry-II – 46 MCQs</td><td>08 OSVE</td><td>08 Stations x 06 = 48 Marks</td></tr>
</table>

	PRISME - 02 MCQs			(06 marks each)			
	Internal Assessment 10%		Internal Assessment 10%				
Total Marks:							**900**

Note:

- The time allotted for theory exam shall be 130 minutes.
- Time for each OSPE/ OSVE station will be six (06) minutes
- No grace marks shall be allowed in any examination or practical under any guise or name.

BDS 2nd Year, BLOCK-04								
Sr. No.	Written Exam				Oral/Practical exam			Total
	Modules	Subjects	No. of MCQs	Total MCQs	Subjects	OSPE/ OSCE (9 marks)	OSVE (6 marks)	
1	Cariology-II	Oral Biology & Tooth Morphology	12	18	Oral Biology & Tooth Morphology	-	01	06
2		Oral Pathology	03		Oral Pathology/ Oral Medicine	-	01	06
3		Operative Dentistry	02		Operative Dentistry	01	01	15
4		Oral Medicine	01		Community & Preventive Dentistry	01	01	15
5	Community Dentistry & Public Health-I	Community & Preventive Dentistry	11	27	Behavioral Sciences	01	01	15
6		Behavioral Sciences	16		Prosthodontics	01	01	15
7	Dental Materials & Pre-Clinical Dentistry-I	Operative Dentistry	10	45	Science of Dental Materials	01	01	15
8		Prosthodontics	10		Biochemistry	-	01	06
9		Science of Dental Materials	25		Pharmacology & Therapeutics	01	-	09
10	Hepatorenal	Physiology	07	28	PRISME	01	-	09
11		Biochemistry	09		CFRC	01	-	09
12		General Pathology & Microbiology	06		-	-	-	-
13		Oral Medicine	01		-	-	-	-
14		Behavioral Sciences	03		-	-	-	-
15		Pharmacology & Therapeutics	02		-	-	-	-
16	PRISME		02	02	-	-	-	-
Total				120	Total	8 OSPE= 72 marks	8 OSVE= 48 marks	120

STUDY PLAN

Lahore Medical & Dental College
Canal Bank North, Tulspura, Lahore-53400
Contact No: +923464418891-98
E-mail: info@lmdc.edu.pk
No. LMDC/FD/ /26 dated

TIMETABLE 2nd YEAR BDS Session 2025-2026 Block 4 w.e.f. 11-5-2026

Day	8:00 am—9:00 am	9:00 am—10:00 am	10:00 am – 11:00am	11:00 am- 11:30 am	11:30 am –12:15pm	12:15 pm – 1:00 pm	1:00 pm – 3:00 pm
Monday	Oral Biology Practical Oral Biology Lab	Science of Dental Materials Lecture/Tutorial Lecture Theatre 9	Biochemistry Lecture Lecture Theatre 9	BREAK	Physiology Lecture Lecture Théâtre 9	Science of Dental Materials Tutorial Lecture Theatre 9	PRACTICAL Science Dental Materials
	8:00 am – 9:00 am	9:00 am to 10:00 am	10:00 am – 11:00 am	11:00 am – 11:30 am	11:30 am –12:15 pm	12:15 pm – 1:00 pm	1:00 pm – 3:00 pm
Tuesday	Pre-Clinical Operative Dentistry Lecture Theatre 9	Science of Dental Materials Lecture Theatre 9	Biochemistry Lecture Lecture Theatre 9	BREAK	General Pathology & Microbiology Lecture Theater 9	Physiology Lecture Lecture Théâtre 9	Pre- Clinical Dentistry Batch A Pre-Clinical Operative Batch B Pre-Clinical Prosthodontics
	8:00 am – 9:00 am	9:00 am to 10:00 am	10:00 am – 11:00 am	11:00 am – 11:30 am	11:30 am –12:15 pm	12:15 pm – 1:00 pm	1:00 pm – 3:00 pm
Wednesday	Pre-Clinical Prosthodontics Lecture Theatre 9	Community Dentistry Lecture Theatre 9	Science of Dental Materials Lecture Theatre 9	BREAK	*Physiology/Pharmacology Lecture Theatre 9	Oral Biology Lecture Lecture Theatre 9	Pre- Clinical Dentistry Batch B Pre-Clinical Operative Batch A Pre-Clinical Prosthodontics
	8:00 am – 9:00 am	9:00 am – 10:00 am	10:00 am – 11:00 am	11:00 am – 11:30 am	11:30 am – 1:00 pm		1:00 pm – 3:00 pm
Thursday	General Pathology & Microbiology Lecture Theater 9	Community Dentistry Lecture Theatre 9	PRISME Lecture Théâtre 9	BREAK	CFRC		**LECTURE/ PRACTICAL/SCREENING Community Dentistry
	8:00 am – 8:50 am	8:50 am – 10:20 am		10:20 am –11:00 am	11:00am – 12:00 pm	12:00 pm – 1:00 pm	1:00 pm – 3:00 pm
Friday	Behavioral Sciences Lecture Theater 9	*** PRACTICLE Behavioral Science/ Pharmacology/Biochemistry		Biochemistry Lecture Lecture Theatre 9	****Oral Pathology/ Oral Medicine Lecture Theatre 9	Oral Biology Practical Oral Biology Lab	SDL

- *1st Five weeks will be dedicated to Physiology & Remaining 5 weeks will be dedicated to Pharmacology.
- ** For the 1st three weeks, 1–2 PM will be for lectures and 2–3 PM for screening, weeks 4–8 will be dedicated to practical, and weeks 9–10 to test sessions.
- ***The 1st six weeks will be dedicated to Behavioral Sciences, week 7 to Pharmacology, and the remaining three weeks to Biochemistry.
- ****1st Five weeks will be dedicated to Oral Pathology & remaining Five weeks will be dedicated to Oral Medicine.

NO. LMDC/FD/1530 - 1550 /2026, Dated: 07-05-2026

Copy for information to the:

1. Heads of all concerned departments.
2. Chief Administrative Officer, LMDC
3. DDE, LMDC, Lahore.
4. Director I.T. Operation, LMDC
5. Assistant Director Student's affairs, LMDC.
6. M/S Ali Tours
7. Lecture Theatre In-charge.
8. Notice Board, LMDC, Lahore.
9. Class Representatives (Boys/ Girls)

PRINCIPAL / DEAN
PROF. Dr. AQIB SOHAIL
DENTAL COLLEGE, LMDC