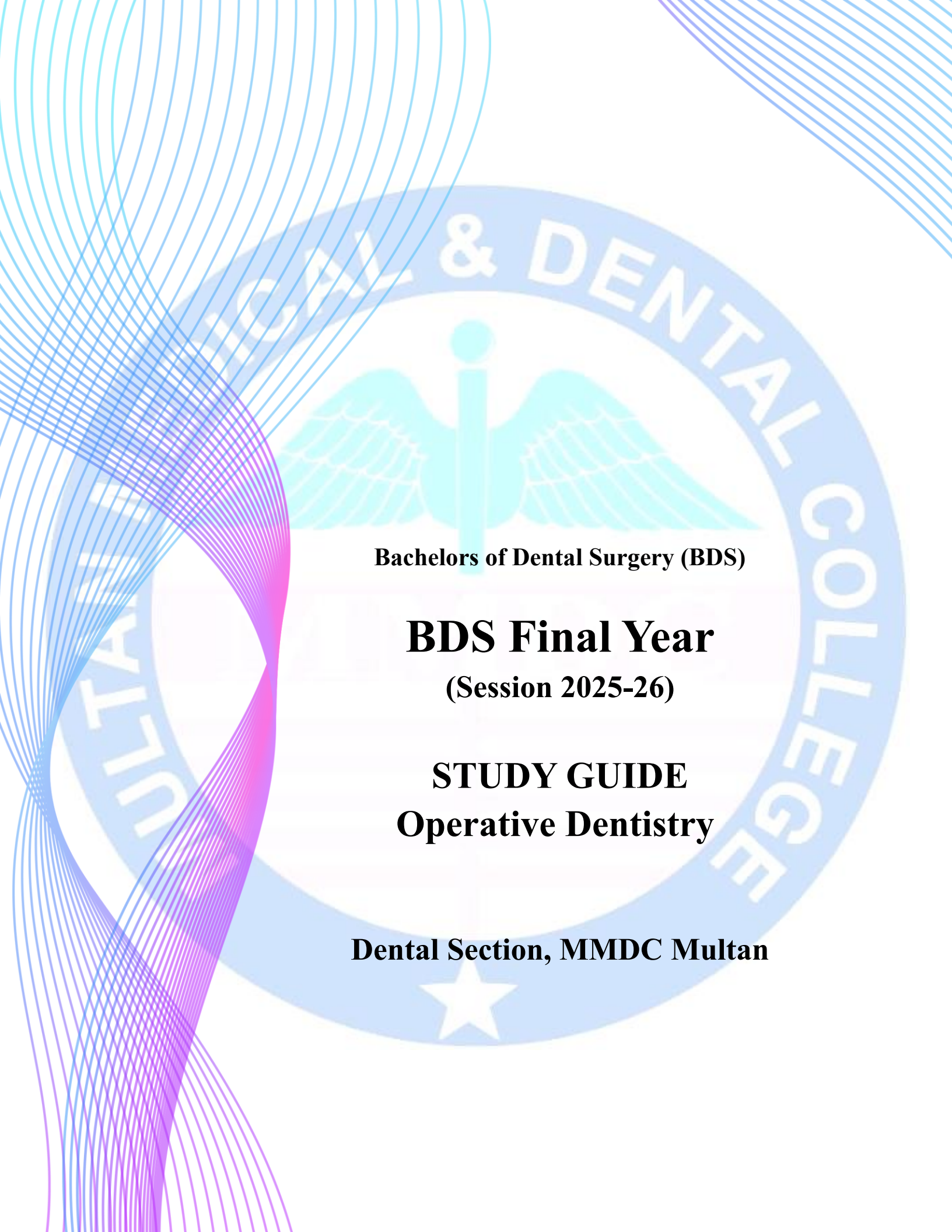




Bachelors of Dental Surgery (BDS)

BDS Final Year

(Session 2025-26)

STUDY GUIDE
Operative Dentistry

Dental Section, MMDC Multan

TABLE OF CONTENTS

MISSION AND VISION OF UHS	3
MISSION AND VISION OF MMDC	3
PROGRAM OUTCOME	4
LIST OF ABBREVIATION	5
RATIONALE FOR OPERATIVE DENTISTRY — BDS FINAL YEAR	6
ACADEMIC SCHEDULE OF BDS 3RD YEAR	7
TIME TABLE	8
COURSE SEQUENCE – OPERATIVE DENTISTRY	9
FACILITATORS (OPERATIVE DENTISTRY)	26
OPERATIVE DENTISTRY — COURSE LEARNING OBJECTIVES	27
TEACHING METHODOLOGIES	33
<u>Instructural Strategies</u>	34
ASSESSMENT	36
<u>Assessment Strategies</u>	37
<u>Learning Resources</u>	38



MISSION AND VISION OF UHS

Vision Statement:

UHS is a leading university aiming to keep its graduates apt with the ever-emerging global health challenges, evolving educational methodologies and emerging technological advancements to maintain its distinguishable position as a medical university.

Mission Statement:

UHS shall continue to strive for producing a human resource par at excellence to cater for the health needs of the people of Punjab and Pakistan.

MISSION AND VISION OF MMDC

(Dental Section) MMDC Vision

To be a leading dental institution in South Punjab, recognized for excellence in education, research, and healthcare services, while developing competent and compassionate healthcare professionals and addressing health disparities through research and community-focused initiatives.

(Dental Section) MMDC Mission

To produce professionally competent and ethical dental graduates equipped with knowledge, clinical skills and technological competence to address emerging global health challenges through research, innovative educational approaches and lifelong learning.



PROGRAM OUTCOME

The students of Bachelor of Dental Surgery (BDS) of MMDC at the end of the program will be able to:

- Dental Graduates will apply the knowledge, skills and technological competencies to practice dentistry in primary care setting and provide comprehensive patient care.
- The graduates will promote dental health care within the community, utilizing the latest research, critical thinking and making evidence informed decisions and apply relevant evidence to address emerging oral and global health challenges.
- Dental graduates will uphold professional values and demonstrate emotional intelligence, social responsibility, and engage in lifelong learning, leadership, and innovation.



LIST OF ABBREVIATION

Abbreviation	Full Form
BDS	Bachelor of Dental Surgery
UHS	University of Health Sciences
MMDC	Multan Medical & Dental College
MIT	Mode of Information Transfer
AT	Assessment Tool
T&L	Teaching and Learning
RAS	Recurrent Aphthous Stomatitis
TMJ	Temporomandibular Joint
TMD	Temporomandibular Disorders
TMPDS	Temporomandibular Pain-Dysfunction Syndrome
OSCE	Objective Structured Clinical Examination
OSPE	Objective Structured Practical Examination
LGIS	Large Group Interactive Session
OMFS	Oral and Maxillofacial Surgery



RATIONALE FOR OPERATIVE DENTISTRY — BDS FINAL YEAR

- Operative Dentistry forms the technical core of everyday dental practice, training students in the diagnosis, prevention, and restoration of diseased or damaged tooth structure — the single most common category of treatment a general dentist will provide.
- Since Operative Dentistry in this curriculum encompasses Conservative Dentistry, Crown & Bridge, Endodontics, and Pedodontics, it gives students an integrated understanding of restorative care across the full range of clinical situations: simple fillings, complex fixed prosthodontic restorations, root canal therapy, and paediatric restorative management.
- Mastery of cavity classification (Black's classification), principles of cavity preparation, and the properties and handling of restorative materials ensures students can make sound, evidence-based decisions about how and when to intervene, rather than defaulting to a one-size-fits-all approach.
- Training in field isolation, instrument use, and the operator's environment and self-protection builds safe clinical habits that protect both patient and practitioner from the earliest stages of clinical training.
- Understanding the restoration of endodontically-treated teeth, and the interrelationship between Endodontics and Crown & Bridge, teaches students to think across disciplines rather than treat each restorative decision in isolation — a tooth's pulpal status directly shapes its long-term restorative plan.
- Recognising and managing dental trauma, tooth discolouration, and common restorative complications and failures prepares students to troubleshoot real-world problems, not just perform textbook-ideal procedures.
- The inclusion of Pedodontics within Operative Dentistry ensures students learn how restorative principles must be adapted for children — different behaviour management needs, modified cavity preparations, and the unique biology of primary and young permanent teeth.
- Extensive clinical assignments (restorations, crown and bridge preparation and insertion, endodontic treatment of anterior teeth, paediatric restorative and trauma cases) give students hands-on, supervised patient experience, converting theoretical knowledge into the manual and diagnostic competence required for safe independent practice after graduation.



ACADEMIC SCHEDULE OF BDS FINAL YEAR

Class Commencement	11 May 2026
1 st Term Examination	
2 nd Term Examination	
Sendup Examination	



TIME TABLE



DENTAL SECTION, MULTAN MEDICAL & DENTAL COLLEGE, MULTAN

Time Table For Final Year BDS (Session 2026)

Day / Time	08:30-09:30	09:30-10:20	10:20-11:10	11:10-12:00	12:00-12:50	12:50-01:20	01:20-02:10	02:10-03:00
Monday	Test	Test	Interactive Lecture Oral Surgery	Clinical	Clinical	Lunch & Namaz Break	Clinical	Interactive Lecture Orthodontics
Tuesday	Interactive Lecture Prosthodontics	Interactive Lecture Oral Surgery	Clinical	Clinical	Clinical	Lunch & Namaz Break	Clinical	Interactive Lecture Operative Dentistry
Wednesday	Interactive Lecture Operative Dentistry	Interactive Lecture Orthodontics	Clinical	Clinical	Clinical	Lunch & Namaz Break	Clinical	Interactive Lecture Prosthodontics
Thursday	Interactive Lecture Orthodontics	Interactive Lecture Pedodontics	Clinical	Clinical	Clinical	Lunch & Namaz Break	Interactive Lecture Research	Interactive Lecture Oral Surgery
Friday	Test	Interactive Lecture Prosthodontics	Interactive Lecture Operative Dentistry	Clinical	Clinical	Lunch & Jumma Namaz Break	Interactive Lecture Behavioral Sciences	Interactive Lecture ICT



COURSE SEQUENCE – OPERATIVE DENTISTRY

Day	Date	Time	Subject	Topic	Facilitator Name
Monday	11-05-2026	09:30-10:20	Lecture Operative Dentistry	Introduction to Operative Dentistry	Dr Sharina
Tuesday	12-05-2026	02:10-03:00	Lecture Operative Dentistry	Clinical Significance of dental caries	Dr Sharina
Wednesday	13-05-2026	08:30-09:30	CBL Operative Dentistry	Strategies of caries removal	Dr Sharina
Friday	15-05-2026	08:30-09:30	Test Operative and Pedodontics		
Friday	15-05-2026	10:20-11:10	Lecture Operative Dentistry	Caries: Treatment by medical model	Dr Sharina
Tuesday	19-05-2026	02:10-03:00	Lecture Operative Dentistry	Patient Assessment, examination and diagnosis	Dr Sharina
Wednesday	20-05-2026	08:30-09:30	CBL Operative Dentistry	Treatment planing	Dr Sharina
Friday	22-05-2026	10:20-11:10	Lecture Operative Dentistry	Cross Infection control	Dr Sharina
Monday	01-06-2026	08:30-09:30	Test Operative and Pedodontics	Test Operative	
Tuesday	02-06-2026	02:10-03:00	Lecture Operative Dentistry	Diagnosis and Prevantion of dental caries/ treatment of dental caries pre school child	Dr Humara
Wednesday	03-06-2026	08:30-09:30	Lecture Operative Dentistry	Treatment of dental caries and primary dentaion	Dr Humara
Friday	05-06-2026	10:20-11:10	Lecture Operative Dentistry	Bio Material	Dr Sharina
Monday	08-06-2026	09:30-10:20	Test Operative and Pedodontics		
Tuesday	09-06-2026	02:10-03:00	Lecture Operative Dentistry	Instruments and equipment for tooth preparation	Dr Sharina



Wednesday	10-06-2026	08:30-09:30	Lecture Operative Dentistry	Bio Material	Dr Sharina
Friday	12-06-2026	10:20-11:10	Lecture Operative Dentistry	Chapter 10	Dr Humara
Tuesday	14-07-2026	02:10-03:00	Lecture Operative Dentistry	Dentin hypersensitivity	Dr Sharina Naz
Wednesday	15-07-2026	08:30-09:30	Lecture Operative Dentistry	Fundamental of tooth preparation and pulp protection	Dr Sharina
Friday	17-07-2026	08:30-09:30	Test Operative and Pedodontics		
Friday	17-07-2026	10:20-11:10	Lecture Operative Dentistry	Class I Cavity preparation	Dr Sharina
Tuesday	21-07-2026	02:10-03:00	Lecture Operative Dentistry	Dentin hypersensitivity	Dr Sharina Naz
Wednesday	22-07-2026	08:30-09:30	Lecture Operative Dentistry	Fundamental of tooth preparation and pulp protection	Dr Sharina
Friday	24-07-2026	10:20-11:10	Lecture Operative Dentistry	Class I Cavity preparation	Dr Sharina
Monday	27-07-2026	08:30-09:30	Test Operative and Pedodontics		
Tuesday	28-07-2026	02:10-03:00	Lecture Operative Dentistry	Dentin hypersensitivity	Dr Sharina Naz
Wednesday	29-07-2026	08:30-09:30	Lecture Operative Dentistry	Fundamental of tooth preparation and pulp protection	Dr Sharina
Friday	31-07-2026	10:20-11:10	Lecture Operative Dentistry	Class I Cavity preparation	Dr Sharina
Monday	03-08-2026	09:30-10:20	Test Operative and Pedodontics		
Tuesday	04-08-2026	02:10-03:00	Lecture Operative Dentistry	Chapter 13	Dr Humara
Wednesday	05-08-2026	08:30-09:30	Lecture Operative Dentistry	Traumatic Injuries to teeth (Chapter 13)	Dr Humara
Friday	07-08-2026	10:20-11:10	Lecture Operative Dentistry	Class III, IV,V Preparation	Dr Sharina
Monday	10-08-2026	08:30-09:30	Operative & Pedodontics		
Tuesday	11-08-2026	02:10-03:00	Lecture Operative Dentistry	Fundamental concepts of	Dr Ahmad



				enamel and dentin adhesion	
Wednesday	12-08-2026	08:30-09:30	Lecture Operative Dentistry	Fundamental concepts of enamel and dentin adhesion	Dr Ahmad
Tuesday	18-08-2026	02:10-03:00	Lecture Operative Dentistry	Anomalies of tooth formation and eruption	Dr Humara
Wednesday	19-08-2026	08:30-09:30	Lecture Operative Dentistry	Introduction to dental surgery (Chapter 2)	
Friday	21-08-2026	08:30-09:30	Operative & Pedodontics		
Friday	21-08-2026	10:20-11:10	Lecture Operative Dentistry	Complex amalgam restoration	Dr Sharina
Tuesday	25-08-2026	08:30-09:30	Lecture Operative Dentistry	Introduction to composite resins	Dr Ahmad
Friday	28-08-2026	10:20-11:10	Lecture Operative Dentistry	Local Anaesthesia for children (ch6)	Dr Humara
Monday	31-08-2026	08:30-09:30	Operative & Pedodontics		
Tuesday	01-09-2026	02:10-03:00	Lecture Operative Dentistry	Clinical Technique for composite resin and glass ionomer restoration	Dr Ahmad
Wednesday	02-09-2026	08:30-09:30	Lecture Operative Dentistry	Clinical Technique for composite resin and glass ionomer restoration	Dr Ahmad
Friday	04-09-2026	10:20-11:10	Lecture Operative Dentistry	Non carious lesion and their management	Dr Sharina Naz
Monday	07-09-2026	09:30-10:20	Operative & Pedodontics		
Tuesday	08-09-2026	02:10-03:00	Lecture Operative Dentistry	Medical Disability(Ch7)	Dr Humara



Wednesday	09-09-2026	08:30-09:30	Lecture Operative Dentistry	Childhood imparment and disability (ch 18)	Dr Humara
Friday	11-09-2026	10:20-11:10	Lecture Operative Dentistry	Additional conservative esthetic procedure	Dr Sharina Naz
Monday	14-09-2026	09:00-12:00	Operative Dentistry		
Tuesday	22-09-2026	02:10-03:00	Lecture Operative Dentistry	Additional conservative esthetic procedure	Dr ahmad
Wednesday	23-09-2026	08:30-09:30	CBL Operative Dentistry	Digital dentistry in operative dentistry	Dr ahmad
Friday	25-09-2026	10:20-11:10	Lecture Operative Dentistry	Advanced Restorative dentistry (ch11)	Dr Humara
Monday	28-09-2026	09:30-10:20	Test Operative and Pedodontics		
Tuesday	29-09-2026	02:10-03:00	Lecture Operative Dentistry	Additional conservative esthetic procedure	Dr ahmad
Wednesday	30-09-2026	08:30-09:30	CBL Operative Dentistry	Digital dentistry in operative dentistry	Dr ahmad
Friday	02-10-2026	10:20-11:10	Lecture Operative Dentistry	Advanced Restorative dentistry (ch11)	Dr Humara
Tuesday	06-10-2026	02:10-03:00	Lecture Operative Dentistry	History , Examination Risk Assessment, and treatment planning (ch 3)	Dr Humara
Wednesday	07-10-2026	08:30-09:30	Lecture Operative Dentistry	Class II Cast metal restotration	Dr Ahmad
Friday	09-10-2026	08:30-09:30	Test Operative and Pedodontics		
Friday	09-10-2026	10:20-11:10	Lecture Operative Dentistry	Diseases of pulp	Dr Sharina
Tuesday	13-10-2026	02:10-03:00	Lecture Operative Dentistry	History , Examination Risk Assessment, and	Dr Humara



				treatment planning (ch 3)	
Wednesday	14-10-2026	08:30-09:30	Lecture Operative Dentistry	Class II Cast metal restotation	Dr Ahmad
Friday	16-10-2026	10:20-11:10	Lecture Operative Dentistry	Diseases of pulp	Dr Sharina
Monday	19-10-2026	08:30-09:30	Test Operative and Pedodontics		
Tuesday	20-10-2026	02:10-03:00	Lecture Operative Dentistry	Peridontal diseases in children	Dr Humara
Wednesday	21-10-2026	08:30-09:30	Lecture Operative Dentistry	Diseases of periradicular tissues	Dr Sharina
Friday	23-10-2026	10:20-11:10	Lecture Operative Dentistry	Clinical Diagnostic Methodes	Dr Sharina
Monday	26-10-2026	09:30-10:20	Test Operative and Pedodontics		
Tuesday	27-10-2026	02:10-03:00	Lecture Operative Dentistry	Principles of endodontic treatment	Dr Sharina
Wednesday	28-10-2026	08:30-09:30	Lecture Operative Dentistry	Selection of cases for treatment	Dr Sharina
Friday	30-10-2026	10:20-11:10	Lecture Operative Dentistry	Trauma	Dr Humara
Tuesday	03-11-2026	02:10-03:00	Lecture Operative Dentistry	Treatment of dental caries in young peramanent dention	Dr Humara
Wednesday	04-11-2026	08:30-09:30	Lecture Operative Dentistry	Anomalies of tooth formation and eruption	Dr Humara
Friday	06-11-2026	08:30-09:30	Test Operative and Pedodontics		
Friday	06-11-2026	10:20-11:10	Lecture Operative Dentistry	Anatomy + Access	Dr Sharina
Tuesday	10-11-2026	02:10-03:00	Lecture Operative Dentistry	Instruments for preparation	Dr Sharina
Wednesday	11-11-2026	08:30-09:30	Lecture Operative Dentistry	Technique for preparation	Dr Sharina
Friday	13-11-2026	10:20-11:10	Lecture Operative Dentistry	Irrigants + Medicements	Dr Sharina



Monday	16-11-2026	09:00-12:00	Operative Dentistry		
Tuesday	24-11-2026	02:10-03:00	Lecture Operative Dentistry	Obturation and radicular space	Dr Sharina
Wednesday	25-11-2026	08:30-09:30	CBL Operative Dentistry	Trauma of permanent tooth	Dr Ahmad
Friday	27-11-2026	10:20-11:10	Lecture Operative Dentistry	Endodontic Surgery	Dr Sharina
Monday	30-11-2026	09:30-10:20	Test Operative and Pedodontics		
Tuesday	01-12-2026	02:10-03:00	Lecture Operative Dentistry	Obturation and radicular space	Dr Sharina
Wednesday	02-12-2026	08:30-09:30	CBL Operative Dentistry	Trauma of permanent tooth	Dr Ahmad
Friday	04-12-2026	10:20-11:10	Lecture Operative Dentistry	Endodontic Surgery	Dr Sharina
Tuesday	08-12-2026	02:10-03:00	Lecture Operative Dentistry	Treatment of traumatized tooth	Dr Ahmad
Wednesday	09-12-2026	08:30-09:30	Lecture Operative Dentistry	Vital Pulp Therapy	Dr Ahmad
Friday	11-12-2026	08:30-09:30	Test Operative and Pedodontics		
Friday	11-12-2026	10:20-11:10	Lecture Operative Dentistry	Root Resorption	Dr Sharina
Tuesday	15-12-2026	02:10-03:00	Lecture Operative Dentistry	Trauma	Dr Ahmad
Wednesday	16-12-2026	08:30-09:30	Lecture Operative Dentistry	Trauma	Dr Ahmad
Friday	18-12-2026	10:20-11:10	Lecture Operative Dentistry	Terminology of crown	Dr Sharina
Monday	21-12-2026	08:30-09:30	Test Operative and Pedodontics		
Tuesday	22-12-2026	02:10-03:00	Lecture Operative Dentistry	Indication of bridges	Dr Ahmad
Wednesday	23-12-2026	08:30-09:30	Lecture Operative Dentistry	Types of Bridges	Dr Ahmad
Friday	25-12-2026	10:20-11:10	Lecture Operative Dentistry	Design of crown preparation	Dr Sharina
Monday	28-12-2026	09:30-10:20	Test Operative and Pedodontics		
Tuesday	29-12-2026	02:10-03:00	Lecture Operative Dentistry	Component of bridges	Dr Ahmad
Wednesday	30-12-2026	08:30-09:30	Lecture Operative Dentistry	Designing and plan	Dr Ahmad



Friday	01-01-2027	10:20-11:10	Lecture Operative Dentistry	Planinng and making crown	Dr Sharina
Tuesday	05-01-2027	02:10-03:00	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Wednesday	06-01-2027	08:30-09:30	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Friday	08-01-2027	08:30-09:30	Test Operative and Pedodontics		
Friday	08-01-2027	10:20-11:10	Lecture Operative Dentistry	Prosthetic cosideration of endodontics	Dr Sharina
Tuesday	12-01-2027	02:10-03:00	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Wednesday	13-01-2027	08:30-09:30	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Friday	15-01-2027	10:20-11:10	Lecture Operative Dentistry	Prosthetic cosideration of endodontics	Dr Sharina
Monday	18-01-2027	08:30-09:30	Test Operative and Pedodontics		
Tuesday	19-01-2027	02:10-03:00	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Wednesday	20-01-2027	08:30-09:30	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Friday	22-01-2027	10:20-11:10	Lecture Operative Dentistry	Prosthetic cosideration of endodontics	Dr Sharina
Monday	25-01-2027	09:30-10:20	Test Operative and Pedodontics		
Tuesday	26-01-2027	02:10-03:00	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Wednesday	27-01-2027	08:30-09:30	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Friday	29-01-2027	10:20-11:10	Lecture Operative Dentistry	Prosthetic cosideration of endodontics	Dr Sharina



Monday	01-02-2027	09:30-10:20	Test Operative and Pedodontics		
Tuesday	02-02-2027	02:10-03:00	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Wednesday	03-02-2027	08:30-09:30	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Friday	05-02-2027	10:20-11:10	Lecture Operative Dentistry	Prosthetic consideration of endodontics	Dr Sharina
Monday	08-02-2027	09:30-10:20	Test Operative and Pedodontics		
Tuesday	09-02-2027	02:10-03:00	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Wednesday	10-02-2027	08:30-09:30	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Friday	12-02-2027	10:20-11:10	Lecture Operative Dentistry	Prosthetic consideration of endodontics	Dr Sharina
Monday	15-02-2027	09:30-10:20	Test Operative and Pedodontics		
Tuesday	16-02-2027	02:10-03:00	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Wednesday	17-02-2027	08:30-09:30	Lecture Operative Dentistry	Clinical Technique of dental implant	Dr Ahmad
Friday	19-02-2027	10:20-11:10	Lecture Operative Dentistry	Prosthetic consideration of endodontics	Dr Sharina
Monday	08-03-2027	09:00-12:00	Operative & Pedodontics	Complete Syllabus	
Tuesday	09-03-2027	9:00 - 3:00	Operative & Pedodontics	Complete Syllabus	



FACILITATORS (OPERATIVE DENTISTRY)

Sr. #	Name	Designation	Department
1	Dr. Sharina Naz	Professor	Operative Dentistry
2	Dr. Muhammad Ahmad	Associate Professor	Operative Dentistry
3	Dr. Mehmood Ahmed Rana	Assistant Professor	Operative Dentistry
4	Dr. Muhammad Illyas Farooq	Demonstrator	Operative Dentistry



OPERATIVE DENTISTRY — COURSE LEARNING OBJECTIVES

Sr. No.	Topic	Learning Objective	T&L Strategy	Assessment Tool
	Introduction, Rationale, Objective, & Future of Paedodontics	Able to, - define Paedodontics. -address the objective and rationale of Paedodontics		
	Dental Caries	Define dental caries and its different types To enlist different methods of diagnosing dental caries and to practice all the tests of diagnosis competently Discuss fundamentals and classification of tooth preparations for dental caries		
	Long Term Dental Care for Child Patient Common Complications Faced in Children	Able to, -Enlist common paediatric dental problems. -Address treatment modalities.		
	Prenatal Counseling, General Concept of Growth & Development, Dentition: Its Development & Speech	Able to define growth and development -explain maxilla and mandible development -enlist syndromes of oral and maxillofacial structures		
	Cross Infection Control	Able to perform barrier technique Able to know about different methods of cross infection		
	Diagnosis and treatment planning in paediatric patient	Able to, perform a comprehensive pediatric patient examination		
	Special Tests & Investigations	Knowledge about caries activity test and can perform clinical test for caries detection		
	Diagnosis of Dental Caries	Able to Diagnosis of Dental Caries		
	Developmental Defect	Able to diagnose and differentiate development defects		
	Management of Anxiety & Pain	Able to define the pharmacological and non pharmacological methods of pain and anxiety reduction		
	Tooth Wear	Able to diagnose and manage tooth wear cases		



	Instruments and Equipments Clinical	Able to identify and uses of Instruments and Equipments Clinical		
	Pit & Fissure Sealants, Fluoride & its Role in Tooth Development	Able to, enlist indications and contraindications of pit and fissure sealants. know the clinical procedure and diagnose the patients requiring fluoride therapy		
	Bleaching / Discolored Teeth	Able to diagnose cases for bleaching and have complete knowledge of bleaching techniques and material		
	Handling of Dental Materials	Able to identify and uses of Dental materials used in operative dentistry		
	Fissure Sealants/ Dental materials	Describe indications and application of fissure sealants		
	Veneers / Dental Materials	Describe types, indications and methods of veneer preparations		
	Dental Caries & Child Response, Rampant Caries Prevention of Dental Caries	Able to enlist caries detection methods explain caries detection methods		
	Child Behaviour& Management, Management of Handicapped Children	Able to diagnose handicapped children and enlist associated dental problems		
	Hereditary Disorders in Paedodontics	Able to classify dental anomalies and differentiate them		
	Resin Bonded Bridges / Dental Materials	Able to know about indications, contraindications and preparation of resin bonded bridges		
	Space Maintenance in primary dentition	Able to, -enlist the causes of space loss -define space maintainers -classify them		
	Diagnosis of dental Pain	Able to diagnose different pulpal diseases and management		
	Clinical Uses of Dental Cements	Differentiate different materials and their clinical Uses		
	Dental Radiology	Discuss basic principles, interpretation, clinical techniques for performing peri apical radiographs and to interpret the errors and how to rectify the errors in peri apical Lecture; To interpret OPG radiographs for diagnosis		



	Medical Conditions Specific to Children	Able to know Treatment modification		
	Dental Radiology	Able to know about different methods of dental X RAY. Knowledge of hazards of radiation Able to perform periapical X RAY		
	Modification of Cavity Preparation in Paedodontics Restorative Materials in Paedodontics	➤ Able to know about Modification of Cavity Preparation in Paedodontics and Restorative Materials in Paedodontics	➤	➤
	Sterilization + Instrumentations + Cross Infection Control	Able to perform barrier technique Able to know about different methods of cross infection and sterilization Enlist the recommended guidelines for sterilization of dental operatories and dental instruments		
	Pulp capping Pulpotomy, Endodontics of Primary Teeth & Radiology	Able to, - define Pulp capping Pulpotomy, Endodontics of Primary Teeth -Explain clinical procedures		
	Pulpal Diagnosis	Able to differentiate different pulpal diseases Able to perform different pulp tests		
	Management of discolored teeth	Able to diagnose cases for bleaching and have complete knowledge of bleaching techniques and material		
	Assess Opening + Anatomy Of Canals + Anatomical Variations	Able to identify clinical and radiographic landmarks identification of internal morphology		
	Developmental Defects	Able to Diagnose different types of developmental defects		
	Periodontal Healthcare	Able to know about periodontal disease in children		
	Endodontic Microbiology	Able to know about different bacterial infections in pulp and periapical area and their management		
	Dental Trauma	Able to, address treatment modalities in paediatric dental trauma		
	Endodontic instruments	Able to recognize different instruments used in endodontics		
	Prevention and Management of Tooth Wear	Able to diagnose and manage tooth wear cases		



	Shaping and Irrigation Therapeutic agent	Knowledge About root canal irrigants and medicaments and able to prepare root canal		
	Terminology, indication & contraindication of crown	Able to know about Terminology, indication & contraindication of crown		
	Obturation Technique	Knowledge About root canal obturation and medicaments		
	Diagnosis & Treatment Planning of Dental Crown	Able to Diagnosis & Treatment Planning of Dental Crown		
	Non-Surgical Retreatment	Able to identify causes of failure of root canal treatment and methods of re- treatment		
	Porcelain fused to metal crowns	Learn about classification, indication and contraindication of materials used for dental crown		
	Surgical endodontics	Able to Know about indications, contraindications, methods and materials of surgical endodontics		
	Prevention and Management of Dental Caries	Able to perform caries examination To identify different classes of caries Able to intervene surgically for the treatment of caries		
	Principles of tooth preparation	Identify the principles ,methods and materials of tooth preparation		
	Endo-perio lesion Root resorption	Able to diagnose endoperio lesion and root resorption cases		
	Trauma endodontics	Able to ,diagnose the patients requiring different treatment modalities after Trauma to permanent teeth		
	Bridges: indication & contraindication & types of bridges, pontic designs, and basic principles, clinical procedures, bridges	Able to know about indication & contraindication & types of bridges, pontic designs, and basic principles, clinical procedures, bridges		
	Laboratory technique for crown & bridge, porcelain veneer, inlays onlays, occlusion & causes of bridge failures	Able to know about Laboratory technique for crown & bridge, porcelain veneer, inlays onlays, occlusion & causes of bridge failures		
	Impression techniques Temporization	Able to know about Impression techniques, temporization technique and cementation of bridge		



	Cementation			
	Management of Medically Compromised patients	Able to manage medically compromised patients		





Instructural Strategies

Delivery of a curriculum also needs a diversity of educational vernacular for the different learning styles. Following are a few of the recommended instructional strategies. It is advised that at least **three different methods of instruction** should be adopted in the institutional planning. This will enable the diversity of learning patterns to be facilitated.

Large Group Interactive Session (LGIS)

Lecture format is the most widely used approach to teaching especially in a large class size with average attention span of 20-30 mins. Interactive lecturing involves a two-way interaction between the presenter and the participants. Interactive methods like brainstorming, buzz group, simulation, role play, and clinical cases can be used.

- **Significance of its usage**
- Relaxed environment, diverse opinions, active involvement
- Increase attention and motivation.
- Independence and group skills.
- Cost effective.
- Suitable for taking advantage of available audiovisual technologies.

Clinical Teaching

Teaching and learning that occurs with actual patient as the focus. It occurs in the dental simulation labs, Dental Clinics and for Oral Medicine in the wards.

- **Significance of its usage**
- Stimulus of clinical contact
- Psychomotor skills
- Communication skills
- Language skills
- Interpersonal skills
- Professional attitudes and empathy
- Role modelling



Case Based Learning

Case-Based Learning (CBL) is a teaching-learning strategy in which students are presented with a clinical case related to Oral Medicine. Students analyze the case, identify clinical findings, formulate differential diagnoses, and discuss appropriate management under the guidance of the teacher.

- Significance of its usage
- Correlates theoretical knowledge with clinical practice.
- Develops clinical reasoning and diagnostic skills.
- Enhances interpretation of oral signs and symptoms.
- Promotes active participation and discussion.
- Develops problem-solving and decision-making skills.





Assessment Strategies

The assessment and evaluation of the students shall be carried out according to the following criteria:

1. INTERNAL ASSESSMENT

Internal Assessment will have a weight age 10 Percent which is **20 marks** in annual examination and the student will be evaluated internally by:

Weekly Assessment will be conducted regularly, consisting of multiple-choice questions (MCQs) and short essay questions (SEQs)

- i. Teaching assignments.
- ii. Maintenance of Logbooks of Clinical Rotation
- iii. Class participation during lectures and demonstrations
- iv. Attitude and behavior of student throughout academic year
- v. Term Examination
- vi. Participation in Research.
- vii. Sendup Examination

2. Class Tests

- a. Class Test will be conducted after completion of every chapter. Assessment tools will be MCQs, OSPE, OSVE and OSCE

3. Final Send-Up Examination

Final Send up Examination will be held at the end of completion of all three terms for complete evaluation before appearance in UHS examination and will be conducted as per Examination Paper Format comprising of Written Theory, Viva/ OSPE.

4. POLICY FOR ATTENDANCE

- According to university of health sciences **75% attendance is mandatory** for the eligibility to sit in the UHS annual examination.

NOTE:

In order to be eligible to appear in UHS Examinations it is compulsory for the student to achieve at least:

- **75% attendance in each Term**
- **50% marks in each Term and Final Send Up Examination**



Learning Resources

1. Operative Dentistry (Conservative Dentistry) — Recommended Books
2. Operative Dentistry — M.A. Marzouk
3. Pickard's Manual of Operative Dentistry — Kidd E and Smith BGN, 7th edition, 1996
4. Contemporary Operative Dentistry — J.B. Summit
5. Art and Science of Operative Dentistry — Sturtevant
6. Restorative Dentistry — P. Jacobson
7. Essentials of Dental Caries — Kidd E and Joyston-Bechal S, 2nd edition, 1997
8. Restorative Dentistry: An Integrated Approach (1998)
9. Endodontics — Recommended Books
10. Harty's Endodontics in Clinical Practice — Pitt Ford TR, 4th edition, 1997
11. Grossman's Endodontics — Jacobsen PH
12. Endodontics — Guttman
13. Problem Solving in Endodontics — Gutman JL et al, 2nd edition, 1992
14. Clinical Endodontics — L. Transtod
15. Pathways of the Pulp — Cohen S and Burns EC, 7th edition, 1998
16. Ingle's Endodontics
17. Endodontics in Practice — Stock and Nehammer, 2nd edition, 1990

