LAHORE MEDICAL AND DENTAL COLLEGE



OPERATIVE DENTISTRY STUDY GUIDE

2ND, 3RD, FINAL YEAR BDS

2023



COURSE DIRECTOR:

Dr Maham Anjum

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Demonstrator

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I. <u>INTRODUCTION:</u>

Operative Dentistry is one of the branches of dentistry that deals with the art and science of the diagnosis, prevention, treatment, and prognosis of diseases or trauma to teeth.

Restorative dentistry is the study, diagnosis and integrated management of diseases of the teeth and their supporting structures and the rehabilitation of the dentition to functional and aesthetic requirements of the individual.

Endodontics is the branch of dentistry concerning dental pulp and tissues surrounding the roots of a tooth.

Crown and Bridge is the art and science of restoring damaged teeth with cast metal, metal ceramic, all-ceramic or resin restorations and of replacing missing teeth with fixed prosthesis.

Paedodontics is the study, diagnosis and integrated management of diseases of the teeth and their supporting structures in children.

SCOPE AND SEQUENCE:

Training in Operative Dentistry starts in 2nd year of BDS. Lectures will be held once a week along with rotation of each batch in the Skills lab and students will be taught pre-clinical skills. During the course of 3rd years, lectures will be held once in a week along with 8 weeks of rotation in the department where the students will perform amalgam restorations on phantom teeth in the skills lab. Principles of tooth preparation will be taught.

During the 4th year of BDS, three lectures will be delivered weekly. Students will complete approximately 10 weeks of clinical duties in the department and will accomplish their clinical requirements. On Wednesdays the students will have endodontics and crown and bridge sessions in the skills lab and perform their required quota.

II. STUDY GUIDE OBJECTIVES:

To facilitate students of second, third and final year BDS in managing their studies by prompt information and guidance pertaining to the various aspects of Operative Dentistry course.

III. <u>COURSE DURATION, ToS, EXAMINATION</u> <u>RULES AND REGULATIONS</u>

COURSE DURATION:

2nd year BDS

- 24 weeks per academic year tentatively
- One lecture per week for 24 weeks
- Division of class into two batches for clinical rotation
- One practical class per week for each batch for approx. 6 months
- 135 hours required by UHS

	AVAILBLE	REQUIRED BY UHS
Practical	6 months duration	-
	4 hours/week, 2 hours/batch weekly,	
	48 hours/ batch	
Lectures	6 months duration	-
	Total no. of lectures: 26; 19.5 hours	
Total	67.5 hours	135 hours

3rd year BDS

- 41 weeks per academic year tentatively
- One lecture per week for 24 weeks
- Division of class into five batches for clinical rotation of approx. 8 weeks per batch
- Three practical classes per week for each batch
- 100 hours required by UHS

	AVAILBLE	REQUIRED BY UHS
Practical	9 months duration	-
	11.5 hours/ week, 92 hours/ batch	
Lectures	6 months duration	-
	19 hours	
Total	111 hours	100 hours

FINAL YEAR BDS

- 36 weeks per academic year tentatively
- Three lectures per week for 36 weeks
- Division of class into four batches for clinical rotation of approx. 10 weeks per batch tentatively
- Five practical classes per week for each batch
- One and a half hour tutorials/interactive group discussion classes each day during the Clinical rotation

		Credit hours/Lectures
Lectures	Faculty	No.
Resto	Dr Saima	29
Endo	Dr Anam	23
C&B	Dr Moeen	22
Paeds	Dr Omer	20
		Total 94

Assessment	<u>Credit hours</u>
Class Test	08

			Rotation 1	Rotation 2	Rotation 3	Rotation 4	<u>Credit hours</u>
Clinical Rotation:	Subject	Faculty	No. (days)	No. (days)	No. (days)	No. (days)	
Demonstration and clinical work 10:30-12:30pm	Resto	Dr Saima	20	20	20	20	81
10:30-12:30pm	Endo	Dr Anam	10	10	10	10	40.5
Tutorials: 12:30-2:00pm	C&B	Dr Moeen	10	10	10	10	40.5
	Paeds	Dr Omer	10	10	10	10	40.5
							Total 202.5

Operative credit hours:	236 (without assessments)
Paeds credit hours:	60.5 (without assessments)
Grand total Credit hours:	296.5 + 8 Class tests = 304.5

Required by PMC in Final year BDS (PMC 2019):	305
Required by PMC in Final year BDS Operative dentistry & Endodontics (PMC 2022):	200
Required by PMC in Final year BDS in Paediatric dentistry (PMC 2022):	150

Table of specifications for Operative dentistry theory & practical examination

BDS Final professional examination

Theory and Practical Examination carries 200 marks. The examination in the subject of Operative Dentistry shall be as follows:-

- I. One written paper of 90 marks in Operative Dentistry having two parts:
 - i. Part I shall have forty five Multiple Choice Questions (MCQs) of 45 marks and the time allotted shall be forty five minutes.
 - ii. Paper II shall have fifteen Short Essay Questions (SEQs) of 45 marks and the time allotted shall be two hours and fifteen minutes.
- II. Oral and Practical examination shall have 90 marks.
- **III.** The continuous internal assessment shall carry 20 marks i.e 10% of the total allocated marks for the subject. The score will be equally distributed to the theory and practical examinations.

Subject	Theory		Practical		Total
	Part I MCQ	45 Marks	Oral and Practical	90 Marks	
	Part II SEQ	45 Marks	Internal assessment	10 Marks	200 Marks
Operative Dentistry	Internal assessment	10 Marks			200 IVIdI KS
		100		100	

Table of specifications for Operative dentistry theory & practical examination

BDS Final professional examination

Subject	MCQs	SEQs
Restorative	18	8
Endodontics	12	2
Crown & bridge	11	3
Paedodontics	4	2

IV. <u>CURRICULUM</u>

CURRICULUM OF OPERATIVE DENTISTRY

LEARNING OBJECTIVES:

The learner should be able to:

- 1. Assess and formulate a treatment plan
- 2. Prepare amalgam restorations (class I, II, V)
- 3. Prepare composite restorations (class I, II, III, IV, V)
- 4. Usage of GIC as a restorative material
- 5. Diagnose and assess for repair/ replacement of restorations
- 6. Diagnose and manage cracks in teeth
- 7. Diagnose and manage dentine hypersensitivity
- 8. Assess and prepare aesthetic restorations
- 9. Prepare restoration of endodontically treated teeth
- 10. Perform access cavity preparation, determine the working length with a radiographic method,

perform cold lateral obturation technique

- 11. Define and classify types of crown and bridge restorations
- 12. Assess the suitability of abutment teeth and formulate a treatment plan
- 13. Prepare different types of crown restorations
- 14. Evaluate the restorations before insertion
- 15. Demonstrate insertion of restoration
- 16. Diagnose and manage developmental defects in primary and permanent teeth
- 17. Learn to manage trauma to primary and permanent teeth

INTRODUCTION TO RESTORATIVE DENTISTRY

Taught in 2nd, 3rd and 4th year BDS

Course director: Prof. Dr. Saima Razaq Khan

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Define operative dentistry, along with an overview of dental anatomy, histology, physiology and occlusion.	Dr. Saima, Dr. Aisha
2.	Assessment of patients Formulate a diagnosis Assess the prognosis Outline treatment plan for patients.	Dr. Saima, Dr. Aisha
3.	Discuss cross infection control, identify different methods of contamination. Illustrate personal barrier protection, aseptic techniques and sterilization. Amalgam waste disposal.	Dr. Saima, Dr. Aisha
4.	Illustrate patient and operator position and instrument exchange.	Dr. Saima, Dr. Aisha
5.	Discuss isolation techniques. Illustrate rubber dam isolation and other methods.	Dr. Saima, Dr. Aisha
6.	Name and explain instruments and equipment for tooth preparation-hand and rotary instruments.	Dr. Saima, Dr. Aisha
At the en	d of this course, the student will be able to:	
1.	Evaluate patients, and formulate treatment plans	
2.	Practice cross infection control	
3.	Practice rubber dam application	

DENTAL CARIES

Taught in 3rd, 4th year BDS

Course director: Prof. Dr. Saima Razaq Khan

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Identify the etiology of dental caries.	Dr. Saima, Dr. Aisha
2.	Classify dental caries.	Dr. Saima, Dr. Aisha
3.	Identify the clinical characteristics of dental caries.	Dr. Saima, Dr. Aisha
4.	Analyze the risk assessment.	Dr. Saima, Dr. Aisha

5.	Formulate management protocols.	Dr. Saima, Dr. Aisha
At the end	of this course, the student will be able to:	AISTId
1.	Identification of dental caries	
2.	Plan management protocols	

AMALGAM RESTORATIONS

Taught in 2nd, 3rd and 4th year BDS

Course director: Prof. Dr. Saima Razaq Khan

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Apply principles of cavity preparation; initial tooth preparation steps-outline form, resistance and retention form, convenience form; amalgam use and manipulation;	Dr. Saima, Dr. Aisha
	final tooth preparation steps-removal of remaining carious dentin, pulp protection, liners and bases and its uses, secondary resistance and retention form, finishing of enamel walls and margins and final procedures-cleaning, inspecting and sealing. Finishing and polishing of direct amalgam restorations.	
2.	Outline the steps of Class I amalgam cavity design and principles, liners and bases, and filling technique-condensation and carving.	Dr. Saima, Dr. Aisha
3.	Outline the steps of Class II amalgam cavity design and principles, matrix placement & liners and bases, and filling technique- condensation and carving.	Dr. Saima, Dr. Aisha
4.	Outline the matrix systems used in direct restorations, matrix application for Class II amalgam, matrix application for Class II, III & IV composite.	Dr. Saima, Dr. Aisha
5.	Outline the steps of Class III, V and VI amalgam cavity design and principles, liners and filling technique-condensation and carving.	Dr. Saima, Dr. Aisha
6.	Identify & enlist the reasons of failure of amalgam restorations Indications/contraindications, replacement options.	Dr. Saima, Dr. Aisha
At the end	of this course, the student will be able to:	
1.	Prepare Amalgam Class I restoration	
2.	Prepare Amalgam Class II restoration	
3.	Prepare Amalgam Class III restoration	
4.	Prepare Amalgam Class V restoration	
5.	Prepare Amalgam Class VI restoration	

COMPOSITE RESTORATIONS

Taught in 2nd, 3rd and 4th year BDS

Course director: Prof. Dr. Saima Razaq Khan

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Describe adhesion to enamel and dentin in direct and indirect restorations; classification of dentinal adhesives, related clinical factors.	Dr. Saima, Dr. Aisha
2.	Review composite resins material science; classify and discuss composites, polymerization properties, general considerations for composite restorations, clinical techniques.	Dr. Saima, Dr. Aisha
3.	Rationale of finishing and polishing of composite restorations, the use of burs, disks, interproximal strips and polishing paste.	Dr. Saima, Dr. Aisha
4.	Outline the steps of Class I composite restorations, pit and fissure sealants, preventive resins and conservative composite restorations, clinical techniques for class 1 direct composite restoration.	Dr. Saima, Dr. Aisha
5.	Outline the steps of Class II composite restorations, clinical techniques for class II direct composite restorations, extensive class II direct composite restorations and foundations.	Dr. Saima, Dr. Aisha
6.	Outline the steps of Class III, IV and V composite restorations, class III, IV and V direct composite restorations, clinical techniques for class III direct composite restorations, clinical techniques for class IV direct composite restorations, clinical techniques for class V direct composite restorations.	Dr. Saima
7.	Identify & enlist the reasons of failure of composite restorations Indications/contraindications, replacement options.	Dr. Saima
At the en	d of this course, the student will be able to:	
1.	Prepare Composite Class I restoration	
2.	Prepare Composite Class II restoration	
3.	Prepare Composite Class III restoration	
4.	Prepare Composite Class IV restoration	
5.	Prepare Composite Class V restoration	

COMPLEX AMALGAM RESTORATIONS & RESTORATION OF ENDODONTICALLY TREATED TEETH

Taught in 4th year BDS

Course director: Prof. Dr. Saima Razaq Khan

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Enlist Indications/contraindications, advantages/disadvantages of complex amalgam restorations	Dr. Saima
2.	Illustrate pin retained amalgam restorations, slot retained, cove, proximal lock, amalgam foundation used in complex amalgam restorations	Dr. Saima
3.	Evaluate the risk analysis and assess and formulate a treatment plan for endodontically treated teeth	Dr. Saima

4.	Discuss material selection and enlist properties of ideal core for restoration of endodontically treated teeth	Dr. Saima
5.	Illustrate post design and materials	Dr. Saima
6.	Describe adhesion within root canal and the clinical principles	Dr. Saima
At the end	of this course, the student will be able to:	
1.	Prepare a complex amalgam restoration employing the most suitable method for that preparation	

NON-CARIOUS CERVICAL LESIONS, GIC & DENTINAL HYPERSENSITIVITY

Taught in 3rd, 4th year BDS

Course director: Prof. Dr. Saima Razaq Khan

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Define and discuss non-carious tooth defects-abrasion, erosion, attrition, abfraction & their treatment	Dr. Saima
2.	Review composition, structure and properties of GIC. Identify their clinical use and considerations and modifications of GIC.	Dr. Saima, Dr. Aisha
3.	Define dentinal hypersensitivity; identify its etiology and clinical features, management of dentinal hypersensitivity.	Dr. Saima
At the end	of this course, the student will be able to:	
1.	Use GIC as a restorative material	
2.	Use GIC for pulp capping	

BLEACHING AND ABRASION

Taught in 4th year BDS

Course director: Prof. Dr. Saima Razaq Khan

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Classify bleaching treatments. Analyze the mechanism of bleaching.	Dr. Saima
2.	Identify and differentiate between non-vital and vital bleaching procedures.	Dr. Saima
3.	Outline the concept of abrasion. Identify and differentiate between micro abrasion and macro abrasion	Dr. Saima

COMPOSITE VENEERS AND INLAYS AND ONLAYS

Taught in 4th year BDS

Course director: Prof. Dr. Saima Razaq Khan, Dr Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Outline the clinical procedure, tooth preparation and fabrication and cementation of composite veneers.	Dr. Saima
2.	Enlist the indications/contraindications of inlays and onlays, advantages/disadvantages, types and clinical procedure. Metal and tooth-coloured inlays	Dr. Saima, Dr. Moeen

CERAMICS

Taught in 2nd year BDS

Course director: Dr. Aisha Arshad

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Introduction to ceramics, advantages and disadvantages, composition and types, types of crowns, identification of crown and its parts, failure of bonding	Dr. Aisha

INTRODUCTION TO ENDODONTICS

Taught in 3rd, 4th year BDS

Course director: Dr. Anam Fayyaz

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Define endodontics, along with an overview of the root canal system. Explain the objectives, indications and contra-indications of Root Canal Treatment. Summarize the steps for RCT.	Dr. Anam
2.	Discuss the protection of the pulp and preservation of the apex. Define them; explain the iatrogenic effects on dental pulp, and protecting the pulp from the effects of materials.	Dr. Anam
3.	Discuss and outline the introduction of pulp and periapical pathosis, the irritants, inflammatory process, lesion progression. List and discuss the classification of pulpal diseases, classification of periapical diseases, healing of pulp and periapical tissues	Dr. Anam, Dr Aisha
4.	Discuss diagnosis and treatment planning. Outline the diagnostic process, discuss the interpretation of different types of pain; describe the clinical examination, clinical tests, interpretation of radiographic examination, formulation of treatment plan, and systemic considerations.	Dr. Anam

ROOT CANAL PROCEDURE

Taught in 4th year BDS

Course director: Dr. Anam Fayyaz

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Discuss endodontic instruments. Discuss and appraise rubber dam isolation. Name and explain instruments for access cavity preparation, root canal preparation, and for filling root canals	Dr. Anam
2.	Explain pulp space anatomy and access cavities. Identify the components of root canal system; outline the general principles and laws relating to the pulp chamber anatomy. Describe and illustrate the access cavity preparation for anterior teeth, posterior teeth, individual teeth, and discuss and recognize the errors in access.	Dr. Anam
3.	Discuss isolation, goals and methods of isolation. Define and explain working length determination, discuss the methods of working length determination and classification of Apex Locators	Dr. Anam
4.	Define cleaning and shaping of the root canals. Enlist the principles of cleaning, principles of shaping, describe and illustrate apical canal preparation, pretreatment evaluation. Discuss the different root canal preparation techniques and hand instrumentation.	Dr. Anam
5.	Discuss and explain endodontic irrigants, the objectives of irrigation, irrigation hydrodynamics, properties of an ideal irrigants and the types of irrigants used.	Dr. Anam
6.	Explain intra-canal medicaments, benefits of intra-canal medicaments, commonly used intra-canal medicaments, temporary restorations, objectives of temporary restorations and the materials used for temporary restorations.	Dr. Anam
7.	Define and explain obturation, objectives of obturation, materials used for obturation, ideal properties of obturation materials, obturation techniques with gutta-percha and the evaluation of obturation.	Dr. Anam
At the end	d of this course, the student will be able to:	
1.	Access Cavity Preparation	
2.	Instrument identification	
3.	Radiographic evaluation	
4.	Working Length determination with a radiographic method	
5.	Cold Lateral Obturation Technique	

ENDODONTIC EMERGENCIES AND FLARE-UPS, PROCEDURAL ACCIDENTS, NON-SURGICAL RE-TREATMENTS

Taught in 4th year BDS

Course director: Dr. Anam Fayyaz

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Diagnosis and treatment planning of endodontic emergencies and flare-ups,	Dr. Anam
	incidence of exacerbations. Enlist the categories of emergencies, interappointment	
	emergencies and the management of flare-ups.	

2.	Discuss procedural accidents, explain and describe perforations during access preparation, accidents during cleaning and shaping and accidents during obturation.	
3.	Indications and contra-indications for non-surgical retreatment, risks and benefits of re-treatment, endodontic retreatment procedures, and discuss the prognosis.	Dr. Anam

ENDODONTIC SURGERY, ENDODONTIC AND PERIODONTAL INTERRELATIONSHIP

Taught in 4th year BDS

Course director: Dr. Anam Fayyaz

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Discuss endodontic surgery, incision for drainage, periapical surgery, corrective surgery, root amputation, hemisection and bicuspidization.	Dr. Anam
2.	Explain the endodontic and periodontal interrelationship, the pathways of communication between the dental pulp and the periodontium, effects of pulpal diseases and endodontic procedures on periodontium, effect of periodontal disease and procedure on pulp and the classification and differential diagnosis of endodontic-periodontic lesions.	

INTRODUCTION TO CROWN AND BRIDGE, INDICATIONS OF CROWNS

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Introduction to crown and bridge	Dr. Moeen ud Din
	Define	
	-Full veneer crown	
	-partial veneer crown	
	-post and core crown	
	-Porcelain jacket crown/ All ceramic crown	
	-Porcelain fused to metal crown/ Metal ceramic crown	
	-Metal crown	

GENERAL PRINCIPLES OF CROWN PREPARATION

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No. Learning Outcomes (LO)	Facilitator
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1.	Apply basic principles of crown preparation	Dr. Moeen ud Din
	-Conservation of tooth structure	
	- Retention and resistance form	
	- Marginal integrity	
	- Structural durability	
	-Conservation of periodontium.	

CASE ASSESSMENT FOR CROWN AND BRIDGE

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Asses and formulate a treatment plan for Crown and Bridge	Dr. Moeen ud Din
	- Assessment of general factors	
	- Evaluation of abutment	
	- Treatment planning.	

TYPES OF CROWNS

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Enlist indications & contraindication of crowns	Dr. Moeen ud Din
	-Classify crowns	
	-Identify advantages & disadvantages of different types	

PORCELAIN JACKET CROWN

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator	
1.	 -Enlist indications/ Contraindications of Porcelain Jacket Crown -Outline the steps of preparation for Porcelain Jacket Crown 	Dr. Moeen ud Din	
At the end	At the end of this course, the student will be able to:		
1.	Prepare Porcelain Jacket crown		

PORCELAIN FUSED TO METAL CROWN

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Enlist Indications/ Contraindications of Porcelain fused to metal Crown Outline the steps of Preparation of Porcelain fused to metal Crown	Dr. Moeen ud Din
At the end	l of this course, the student will be able to:	
1.	Prepare Porcelain fused to metal crown	

POST AND CORE CROWNS

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Enlist Indications/ contraindication of Post and core crown Outline the steps of Preparation for post and core crowns Select technique for making Post and core crown	Dr. Moeen ud Din
At the end	of this course, the student will be able to:	
1.	Prepare post and core crown	

CAST METAL CROWN

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator	
1.	Enlist Indications/ Contraindications of metal Crown	Dr. Moeen ud Din	
	Outline the steps of Preparation of metal crown		
At the end	At the end of this course, the student will be able to:		
1.	Prepare Full veneer metal crown		

PARTIAL VENEER CROWNS

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Enlist Indications/ Contraindications of Partial veneer Crown	Dr. Moeen ud Din
	Outline the steps of Preparation of partial veneer Crown	

TISSUE MANAGEMENT AND IMPRESSION TAKING

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator	
1.	Manage Soft tissues before impression taking	Dr. Moeen ud Din	
	Select impression technique for crown and bridge work		
At the end	At the end of this course, the student will be able to:		
1.	Prepare Impression techniques		

OCCLUSAL RECORD, TRYING IN, TEMPORARY CROWNS AND CEMENTATION

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Register Occlusion of the patient	Dr. Moeen ud Din
	Temporize the prepared teeth	
	- objectives	
	- types	
	-techniques for chair side temporary crown	
2.	Try-in Crown and Bridge restoration - logical sequence of try-in,	Dr. Moeen ud Din
	Select cementation technique for crowns	
At the end	l of this course, the student will be able to:	
1.	Prepare Try-in and cementation of crown	

BRIDGE RESTORATIONS

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
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1.	Define bridge restorations	Dr. Moeen ud Din
	Enlist Indications & Contraindications	
	Classify bridge restoration	
	Analyze Advantages and disadvantages of different types bridges	

ABUTMENT SELECTION

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Evaluate and select abutments for a bridge	Dr. Moeen ud Din
	Select a suitable bridge design	

PONTIC SELECTION

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Define Pontic	Dr. Moeen ud Din
	Apply Principles of pontic design	
	Enlist Indications, advantages and disadvantages of different types of pontics	
	Select suitable type of pontic	

RETAINERS AND CONNECTOR SELECTION

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Define Retainers	Dr. Moeen ud Din
	Enlist types of retainers	
	Select retainer for a bridge- factors affecting the selection of a retainer	
2.	Define connector	Dr. Moeen ud Din
	Enlist types of connectors	
	Select type of connector for bridge	

RESIN BONDED BRIDGES

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Define resin bonded bridges	Dr. Moeen ud Din
	Enlist Indications and contraindications	
	Select Type of resin bonded bridges	
	Compare advantages/ disadvantages of different types	

MAINTENANCE, FAILURE & REPAIR OF BRIDGES

Taught in 4th year BDS

Course director: Dr. Moeen ud Din

	Sr. No.	Learning Outcomes (LO)	Facilitator
ĺ	1.	Differentiate the success & failure of Crown & Bridge	Dr. Moeen ud Din
		Identify the cause of failure	
		Formulate/design its solution	

INTRODUCTION TO PAEDODONTICS

Taught in 4th year BDS

Course director: Dr. Omer Yousaf

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Introduction to Rationale, Objective and future of Paedodontics. Define and outline objectives of paedodontics	Dr. Omer Yousaf
2.	History, examination, risk assessment, and treatment planning Assessment of patients Formulate a diagnosis Assess the prognosis Outline treatment plan for patients	Dr. Omer Yousaf
At the en	d of this course, the student will be able to:	
1.	Evaluate patients, and formulate treatment plans	

MANAGEMENT OF CHILD BEHAVIOUR, PAIN AND ANXIETY

Taught in 4th year BDS

Course director: Dr. Omer Yousaf

Sr. No.	Learning Outcomes (LO)	Facilitator
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1.	Discuss behavior management. Outline pharmacological and non- pharmacological management of child behavior.	Dr. Omer Yousaf
2.	Explain mental health evaluation and care	Dr. Omer Yousaf
3.	Discuss and explain the role and usage of local anaesthesia, sedation and general anaesthesia	Dr. Omer Yousaf

DENTAL CARIES

Taught in 4th year Bds

Course director: Dr. Omer Yousaf

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Describe pathophysiology of dental caries, diagnosis, preventive measures. Demonstrate instructions for parents counseling, importance of first permanent molars	Dr. Omer Yousaf
2.	Discuss dental caries in the preschool child. Recognize role of fluoride, chlorhexidine gels, fissure sealants, tooth brushing, role of diet. List of measures for management of child behavior.	Dr. Omer Yousaf
3.	Discuss treatment of dental caries in the primary dentition Identify role of pit and fissure sealants List of indications of stainless-steel crown Outline indications of direct and indirect pulp capping	Dr. Omer Yousaf
4.	Discuss treatment of dental caries in young permanent dentition Identify role of pit and fissure sealants Recognition of MIH cases and management. Discuss and describe treatment options for anterior, occlusal, approximal and extensive/deep caries. Treatment options for hypomineralized, hypomature or hypoplastic first permanent molars Management options of rampant caries	Dr. Omer Yousaf

RESTORATIVE MATERIALS IN PAEDODONTICS, MODIFICATION OF RESTORATIVE CAVITY IN CHILDREN & PIT AND FISSURE SEALANTS, ROLE OF FLUORIDE IN TOOTH DEVELOPMENT

Taught in 4th year BDS

Course director: Dr. Omer Yousaf

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Discuss and identify the indications and uses of restorative materials-Amalgam,	Dr. Omer Yousaf
	Composite resin, GIC, Stainless steel crowns. Practice these materials in clinics	

2.	Describe modification of restorative cavity in children				
	Define MID, and demonstrate new techniques for tooth preparation				
3.	Discuss pit and fissure sealants, role of fluoride in caries development, indications of	Dr. Omer Yousaf			
	pit and fissure sealants, mechanism of action of fluoride and dental fluorosis				
At the end	of this course, the student will be able to:				
1.	Practice the restorative materials in clinics-amalgam, composite, GIC and stainless-				
	steel crowns				

ENDODONTICS IN CHILDREN, MANAGEMENT OF IMMATURE ROOT APEX & TRAUMATIC INJURIES TO TEETH

Taught in 4th year BDS

Course director: Dr. Omer Yousaf

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Define pulpotomy, pulpectomy	Dr. Omer Yousaf
	Describe the procedure	
	List of indications and contraindications of pulpotomy and pulpectomy	
2.	Define apexification, apexogenesis	Dr. Omer Yousaf
	Describe the procedure	
	Describe MTA and its properties	
3.	Discuss the endodontic aspects of traumatic injuries, classification of tooth	Dr. Omer Yousaf
	fractures, diagnosis, endodontic management of tooth fractures, longitudinal tooth	
	fractures	
At the en	d of this course, the student will be able to:	
1.	Assist the procedure of pulpotomy in the clinics	

ANOMALIES OF TOOTH FORMATION AND ERUPTION, HEREDITARY DISORDERS, MEDICAL CONDITIONS SPECIFIC TO CHILDREN, MANAGEMENT OF HANDICAPPED CHILDREN

Taught in 4th year BDS

Course director: Dr. Omer Yousaf

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Identification of missing teeth, extra teeth, abnormality of tooth size, tooth form, root form, tooth structure. Describe disturbance of eruption and exfoliation. Describe dental effects of prematurity and low weight birth	Dr. Omer Yousaf
2.	Discuss hereditary disorders and medical conditions specific to the children Define syndrome Recognize different syndromes with specific features	Dr. Omer Yousaf

	List of syndromes and their dental management	
3.	Identify medical conditions in children Names of diseases and their management	Dr. Omer Yousaf
4.	Outline the management of handicapped children, techniques of oral care and home	Dr. Omer Yousaf
	care remedies	

V. ACADEMIC CALENDERS

- I. 2nd Year BDS
- II. 3rd Year BDS
- **III. Final Year BDS**

2nd YEAR BDS

LECTURES AND PRACTICALS SCHEDULE

Sr. #	Date	Day	Time	Topics
1	2 nd march	Thursday	10:45 to 11:30AM	Introduction to Operative Dentistry
		Thursday	12:30 to 2:30PM	Introduction & Orientation to preclinical Operative Dentistry(A)
	6 th march	Monday	12:30 to 2:30PM	Introduction & Orientation to preclinical Operative Dentistry BATCH (B)
	8 th			SAHABEBARAT
2	9 th march	Thursday	10:45 to 11:30AM	Patient assessment and management
		Thursday	12:30 to 2:30PM	History taking & informed consent(A)
	13 th march	Monday	12:30 to 2:30PM	History taking & informed consent(b)
3	16 th march	Thursday	10:45 to11:30AM	Patient Assessment, Examination , Diagnosis , and
				Treatment Planning
		Thursday	12:30 to 2:30PM	Diagnosis and treatment planning(A)
	20 th march	Monday	12:30 to 2:30PM	Diagnosis and treatment planning(B)
4	23 rd march	thursday		PAKISTAN RESOLUTION DAY
	27	Monday		
5	30 th	Thursday	10:45 to 11:30AM	Patient Assessment, Examination ,Diagnosis ,and
	march			Treatment Planning
			12:30 to 2:30PM	Clinical examination(A)
		Monday	12:30 to 2:30PM	Clinical examination (B)
6	6 th April	Thursday	10:45 to 11:30AM	Patient Assessment, Examination ,Diagnosis ,and
				Treatment Planning
		Thursday	12:30 to 2:30PM	Radiographic interpretation
		Monday	11:50 to 1:00PM	Radiographic interpretation
7	13 TH April	Thursday	9:40 to 10:20AM	Infection Control
		Thursday	11:00 to 1:00PM	Hand Hygiene / Hand washing technique
		Monday	11:00 to 1:00PM	Hand Hygiene / Hand washing technique
8	20 th April	Thursday	9:40 to 10:20AM	Infection Control
		Thursday	11:00 to 1:00PM	Putting on and Removing PPE (Personal Protective Equipment): Masks, Protective Eyewear, Face shields, Protective clothing, Gowns, Gloves A
		Monday	11:00 to 1:00PM	Putting on and Removing PPE (Personal Protective Equipment): Masks, Protective Eyewear, Face shields, Protective clothing, Gowns, Gloves B
				23,24, 25 EID UL FITAR
9	27 th Aril	Thursday	9:40 to 10:20AM	Instruments and Equipment for Tooth Preparation
		Thursday	11:00 to 1:00PM	Transport of instruments to the processing area Cleaning/ Washing of instruments Packaging of instruments A
	1 ST MAY			1 ST MAY LABOUR DAY
		Monday	11:00 to 1:00PM	Transport of instruments to the processing area Cleaning/ Washing of instruments Packaging of instruments
10	4 TH MAY	Thursday	9:40 to 10:20AM	Instruments and Equipment for ToothPreparation

	Thursday	11:00 to 1:00PM	Sterilization monitoring (Verification of sterility using physical, chemical, and biological indicators)
	Monday	12:30 to 2:30PM	Sterilization monitoring (Verification of sterility using physical, chemical, and biological indicators)
11 TH MAY	Thursday	10:45 to 11:30AM	Introduction to Silver Amalgam
	Thursday	12:30 to 2:30PM	Sterilization of dental handpieces, burs, and other restorative materials
	Monday	12:30 to 2:30PM	Sterilization of dental handpieces, burs, and other restorative materials
18 TH MAY	Thursday	10:45 to 11:30AM	Introduction to Silver Amalgam
	Thursday	12:30 to 2:30PM	Needle stick injury prevention and immediate management
	Monday	12:30 to 2:30PM	Needle stick injury prevention and immediate management
25 TH MAY	Thursday	10:45 to 11:30AM	Introduction to Silver Amalgam
	Thursday	12:30 to 2:30PM	Identification of hand instruments (cutting, non- cutting)
	Monday	12:30 to 2:30PM	Identification of hand instruments (cutting, non- cutting)
1 JUNE	Thursday	10:45 to 11:30AM	GIC
	Thursday	12:30 to 2:30PM	Dental control unit water systems and handpiece asepsis(online chapter downloads)124e
	Monday	12:30 to 2:30PM	Dental control unit water systems and handpiece asepsis(downloads)124e
8 TH JUNE	Thursday	10:45 to 11:30AM	GIC
	Thursday	12:30 to 2:30PM	Identification and manipulation of dental materials GIC
	Monday	12:30 to 2:30PM	Identification and manipulation of dental materials GIC
15 TH JUNE	Thursday	10:45 to 11:30AM	COMPOSITE
15 th june	Thursday	12:30 to 2:30PM	Identification of powered/rotary cutting equipment Hazards with cutting instruments and their prevention
			16 th june till 15 th july summer vacations
17 th JULY	Monday	12:30 to 2:30PM	Identification of powered/rotary cutting equipment
20 TH JULY	Thursday	10:45 to 11:30AM	COMPOSITE
	Thursday	12:30 to 2:30PM	manipulation of dental materials COMPOSITE
	Monday	12:30 to 2:30PM	manipulation of dental materials COMPOSITE Identification and manipulation of dental materials
	18 TH MAY 18 TH MAY 25 TH MAY 1 JUNE 8 TH JUNE 8 TH JUNE 15 TH JUNE 15 th june 17 th JULY	Monday II TH MAY IThursday II TH MAY IThursday IST ^H MAY IST ^H MAY ISS ISS ISS ISS ISS ISS ISS ISS ISS IS	Monday 12:30 to 2:30PM I1 TH MAY Thursday 10:45 to 11:30AM I1 TH MAY Thursday 12:30 to 2:30PM Monday 12:30 to 2:30PM 18 TH MAY Monday 12:30 to 2:30PM 18 TH MAY Thursday 10:45 to 11:30AM 18 TH MAY Thursday 10:45 to 11:30AM 25 TH MAY Thursday 12:30 to 2:30PM Z5 TH MAY Thursday 10:45 to 11:30AM Z5 TH MAY Thursday 12:30 to 2:30PM Monday 12:30 to 2:30PM Monday 12:30 to 2:30PM 8 TH JUNE Thursday 10:45 to 11:30AM Thursday 12:30 to 2:30PM 8 TH JUNE Thursday 12:30 to 2:30PM 15 th june Thursday 12:30 to 2:30PM 15 th june Thursday 12:30 to 2:30PM 17 th JULY Monday

18	27 TH JULY	Thursday	10:45 to 11:30AM	COMPOSITE
		Thursday	12:30 to 2:30PM	Identification and manipulation of dental materials
				Amalgam
		Monday	12:30 to 2:30PM	Identification and manipulation of dental materials
				Amalgam
19	3 rd	Thursday	10:45 to 11:30AM	LINERS AND BASES(CALCIUM
	AUGUST			HYDROXIDE)
		Thursday	12:30 to 2:30PM	Disposal of amalgam waste
		Monday	12:30 to 2:30PM	Disposal of amalgam waste
20	10 TH	Thursday	10:45 to11:30AM	LINERS AND BASES(CALCIUM
	AUGUST			HYDROXIDE)
		Thursday	12:30 to 2:30PM	Ceramics ,metal copings ,PFMS CROWN
		Monday	12:30 to 2:30PM	14 th august
21	17 TH	Thursday	10:45 to 11:30AM	CERAMIC
	AUGUST			
		Thursday	12:30 to 2:30PM	Amalgam waste disposal
		Monday	12:30 to 2:30PM	Amalgam waste disposal
22	24 TH	Thursday	10:45 to 11:30AM	CERAMIC
	AUGUST			
		Thursday	12:30 to 2:30PM	Rubber Dam application
		Monday	12:30 to 2:30PM	Rubber Dam application
23	31 st	Thursday	10:45 to 11:30AM	RUBBER DAM/ISOLATION
	AUGUST			
		Thursday	12:30 to 2:30PM	Placement of tofflemire retainer
		Monday	12:30 to 2:30PM	Placement of tofflemire retainer
24	7 th SEPT	Thursday	10:45 to 11:30AM	RUBBER DAM/ISOLATION
		*		

<u>3rd YEAR BDS</u>

LECTURES AND PRACTICALS SCHEDULE

Sr. #	Date	Day	Time	Торіс
	3 RD APRIL	Monday	9:30 to 2:30pm	Introduction to Operative Dentistry Instruments (hand & rotary instruments)
	4 TH APRIL	Tuesday	11:30 to 2:30pm	Instruments (hand & rotary instruments)
1	6 th APRIL	THURSDA Y	8:00 to 8:45am	INTRODUCTION TO OPERATIVE DENTISTRY
	TH			
	7 TH APRIL	Friday	9:30 to 12:00pm	Ergonomics in dentistry/
	10	Monday	9:30 to 1:00pm	Isolation/Rubber Dam Tooth morphology
	11	Tuesday	11:30 to 1:00pm	Fundamentals of tooth preparation
2	13 THAPRIL	THURSDA Y		DENTAL CARIES
	14th	Friday	9:30 to 12:00pm	Fundamentals of Tooth Preparation(Practical)
	17	Monday	9:30 to 1:00pm	class I Amalgam Restoration(Design and Principles
	18	Tuesday	11:00 to 1:00pm	class I Amalgam Restoration(Design and Principles
3	20 TH APRIL	THURSDA	8:00 to 8:45am	DENTAL CARIES
		Y		
	21st	Friday		class I Amalgam Restoration(condensation and carving)
				22,23,24,25(ed ul fitar)calender
	24	Monday		class I Amalgam Restoration Finishing & polishing
	25	Tuesday		class II Amalgam Restoration Design and Principles
4	27 TH APRIL	Thursday		DENTAL CARIES
	28TH	Friday	9:30 to 1:00pm	class I IAmalgam Restoration((Design and Principles
		Monday	9:30 to 2:30pm	class II Amalgam Restoration(Liners & Bases
		Tuesday	11:30 to 2:30pm	Matrix band placement
5	4 TH MAY	THURSDA Y	8:00 to 8:45am	PATIENT ASSESMENT, EXAMINATION((LECTURE
	5TH	Friday	9:30 to 1:00pm	class II Amalgam Restoration(Condensation, Carving)
		Monday	9:30 to 2:30pm	class II Amalgam Restoration(finishing and polishing)
		Tuesday	11:30 to 2:30pm	
6	11 TH MAY	THURSDA Y	8:00 to 8:45am	PATIENT ASSESMENT, EXAMINATION((LECTURE)
	12TH	Friday	9:30 to 1:00pm	Class II Amalgam Restoration(Condensation, Carving)
			0.20 / 0.20	
		Monday	9:30 to 2:30pm	Class IIAmalgam Restoration(Finishing & polishing) Clinical Technique for ClassV Amalgam Restoration
	10TH NGANG	Tuesday	11:30 to 2:30pm	* 0
7	18 TH MAY	Thursday		Patient Assesment, Examination((LECTURE)
	19TH	Friday	9:30 to 1:00pm	TEST
		Monday	9:30 to 2:30pm	Clinical Technique for ClassII Amalgam Restoration
		Tuesday	11:30 to 2:30pm	Clinical Technique for ClassII Amalgam Restoration
8	25 TH MAY	Thursday		Infection Control ((LECTURE)

	26TH	Friday	9:30 to 1:00pm	Composite restoration
		Monday	9:30 to 2:30pm	Composite restoration
		Tuesday	11:30 to 2:30pm	Composite restoration
9	1 ST JUNE	Thursday		Infection Control
-	2ND	Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30pm	
10	8 TH JUNE	Thursday		Infection Control
	9TH	Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30pm	
11	15 TH JUNE	Thursday		Fundamentals of Tooth Preparation
	16TH	Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30pm	
12	22 ND JUNE	Thursday		Fundamentals of Tooth Preparation
	23^{rd} june	Friday	9:30 to 1:00pm	PRACTICAL
	25 Juire	Titudy	, sie te noopin	24 th june till 30 th june summer vacations
		Monday	9:30 to 2:30pm	summer vacations
		Tuesday	11:30 to 2:30pm	summer vacations (TILL SUNDAY)
		Tuesday	11.50 to 2.50pm	EID UL ADHA
	3 july	monday		practical
	4 th july	tuesday		practical
13	6 TH JULY	Thursday	9:30 to 2:30pm	Fundamentals of Tooth Preparation
15	0 JULI	Friday	9:30 to 1:00pm	Fundamentals of Footh Freparation
		Monday	9:30 to 2:30pm	
		2	·	
14	13 TH JULY	Tuesday Thursday	11:30 to 2:30pm	Introduction To Silver Amalgam
14	IS JULY	•	0.20 to 1.00mm	Introduction 10 Silver Amaigam
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
1.5	20 TH JULY	Tuesday	11:30 to 2:30pm	
15	20 ^m JULY	Thursday	0.00 / 1.00	Introduction To Silver Amalgam
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
1.5	ARTH TTT	Tuesday	11:30 to 2:30pm	
16	27 TH JULY	Thursday		Instrument and equipment
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30pm	
17	3 RD AUGUST	Thursday		Instrument and equipment
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30pm	
18	10 TH AUGUST	Thursday		Instrument and equipment

		Friday	9:30 to 1:00pm	
			*	
		Monday Tuesday	9:30 to 2:30pm 11:30 to 2:30pm	
19	17 TH	Thursday	11.50 to 2.50pm	CLASS I AMALGAM RESTORATION
19	AUGUST	1 nui suay		CLASS I AMALGAM RESTORATION
	Recest	Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
	25 TH	Tuesday	11:30 to 2:30pm	
	23	Tuesduy	11.50 to 2.50pm	
20	24 TH	Thursday		CLASS I AMALGAM RESTORATION
	AUGUST	J		
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30pm	
21	3 ^{1ST} August	Thursday		CLASS II AMALGAM RESTORATION
		Da : 1	0.20 to 1.00 m	
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
22	7 TH	Tuesday	11:30 to 2:30pm	CLASS II AMALGAM RESTORATION
22	SEPTEMBE R	Thursday		ULAƏƏ 11 AMALGAM KEƏTUKATIUN
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30pm	
23	14 TH SEPTEMBE R	Thursday		PULP AND PERIAPICAL PATHOSIS
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30pm	
24	21 st SEPT	Thursday		PULP AND PERIAPICAL PATHOSIS
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30	
25	28 TH SEPT			MAILAD UN NABI
		Thursday		
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday		
				6 MONTHS THEORY LECTURES completion
26	5 TH OCTOBER	Thursday		GENERAL SURGERY CLASS
		Friday	9:30 to 1:00pm	
		Monday	9:30 to 2:30pm	
		Tuesday	11:30 to 2:30	

12 OCT	Thursday		GENERAL SURGERY CLASS
	Friday	9:30 to 1:00pm	
	Monday	9:30 to 2:30pm	
	Tuesday	11:30 to 2:30	
19 OCT	Thursday		G.S Class
	Friday	9:30 to 1:00pm	
	Monday	9:30 to 2:30pm	
	Tuesday	11:30 to 2:30	
26 OCT	Thursday		G.S Class
	Friday	9:30 to 1:00pm	
	Monday	9:30 to 2:30pm	
	Tuesday	11:30 to 2:30	
2 NOV	Thursday		G.S Class
	Friday	9:30 to 1:00pm	
	Monday	l l l l l l l l l l l l l l l l l l l	
	Tuesday	11:30 to 2:30	
9 NOV	Thursday		IQBAL DAY(HOLIDAY)
	Friday	9:30 to 1:00pm	
	Monday	9:30 to 2:30pm	
	Tuesday	11:30 to 2:30	
16 NOV	Thursday	11.50 to 2.50	G.S Class
101107	Friday	9:30 to 1:00pm	
	Monday	9:30 to 2:30pm	
	Tuesday	11:30 to 2:30	
23 NOV	Thursday	11.50 to 2.50	G.S Class
25 110 1	Friday	9:30 to 1:00pm	
	Monday	9:30 to 2:30pm	
	Tuesday	11:30 to 2:30	
30 NOV	Thursday	11.50 to 2.50	G.S Class
30 110 1	Friday	9:30 to 1:00pm	
	Monday	9:30 to 2:30pm	
	Tuesday	11:30 to 2:30	
7 DEC	Thursday	11.30 10 2.30	G.S Class
/ DEC	Friday	9:30 to 1:00pm	
	Monday	9:30 to 1:00pm	
	Tuesday	^	
14 DEC	~	11:30 to 2:30pm	G.S Class
14 DEC	Thursday	9:30 to 1:00pm	G.5 Class
		· ·	
		9:30 to 2:30pm	
		11:30 to 2:30pm	
21 DEC	Thursday	0.20 / 1.00	G.S Class
		9:30 to 1:00pm	
		9:30 to 2:30pm	
		11:30 to 2:30pm	
28 DEC	Thursday		G.S Class
		9:30 to 1:00pm	

		9:30 to 2:30pm	
		11:30 to 2:30pm	
4 JAN	Thursday		G.S Class
		9:30 to 1:00pm	
		9:30 to 2:30pm	
		11:30 to 2:30pm	
11 JAN	Thursday		G.S Class
		9:30 to 1:00pm	
		9:30 to 2:30pm	
		11:30 to 2:30pm	

FINAL YEAR BDS

LECTURES & TEST SCHEDULE

Sr#	Day/Date	Торіс	Faculty
1.	03.04.23 Mon	Introduction to Operative Dentistry	Dr Saima
2.	05.04.23 Wed	Principles of Cavity Preparation	Dr Saima
3.	06.04.23 Thurs	Principles of Cavity Preparation	Dr Saima
4.	10.04.23 Mon	Principles of Cavity Preparation	Dr Saima
5.	12.04.23 Wed	Clinical technique of Amalgam	Dr Saima
6.	13.04.23 Thurs	Fundamentals of Adhesion	Dr Saima
7.	17.04.23 Mon	Clinical techniques of Composite	Dr Saima
8.	19.04.23 Wed	Class I Amalgam	Dr Saima
9.	20.04.23 Thurs	Introduction to Endodontics	Dr Anam
	24.04.23 Mon	Eid Holiday	
10.	26.04.23 Wed	Pathogenesis of Pulp and Periapical diseases	Dr Anam
11.	27.04.23 Thurs	Pathogenesis of Pulp and Periapical diseases	Dr Anam
	01.05.23 Mon	Holiday	
12.	03.05.23 Wed	Class Test 1	
13.	04.05.23 Thurs	Endodontic Diagnosis and Treatment Planning	Dr Anam
14.	08.05.23 Mon	Endodontic Diagnosis and Treatment Planning	Dr Anam
15.	10.05.23 Wed	Endodontic Instruments	Dr Anam
16.	11.05.23 Thurs	Pulp space Anatomy	Dr Anam
17.	15.05.23 Mon	Access cavities	Dr Anam
18.	17.05.23 Wed	Introduction to Crown & Bridge, Indications of crown	Dr Moeen
19.	18.05.23 Thurs	General principles of crown preparation	Dr Moeen
20.	22.05.23 Mon	General principles of crown preparation	Dr Moeen
21.	24.05.23 Wed	Types of crowns, Porcelain Jacket crown	Dr Moeen
22.	25.05.23 Thurs	Porcelain fused to metal crown	Dr Moeen
23.	29.05.23 Mon	Metal crown	Dr Moeen

24.	31.05.23 Wed	Partial veneer crown	Dr Moeen
25.	01.06.23 Thurs	Paeds	Dr Omer
26.	05.06.23 Mon	Class test 2	
27.	07.06.23 Wed	Paeds	Dr Omer
28.	08.06.23 Thurs	Paeds	Dr Omer
29.	12.06.23 Mon	Paeds	Dr Omer
30.	14.06.23 Wed	Class I Composite	Dr Saima
31.	15.06.23 Thurs	Class II Amalgam	Dr Saima
32.	19.06.23 Mon	Class II Composite	Dr Saima
33.	21.06.23 Wed	Class III Amalgam	Dr Saima
34.	22.06.23 Thurs	Class III and Class IV Composite	Dr Saima
35.	26.06.23 Mon	Class V Composite	Dr Saima
	28-29.06.23 Wed Thurs	Holiday	
36.	03.07.23 Mon	Class Test 3	
37.	05.07.23 Wed	Dental Caries	Dr Saima
38.	06.07.23 Thurs	Dental Caries	Dr Saima
39.	10.07.23 Mon	Dental Caries	Dr Saima
40.	12.07.23 Wed	NCCL Restorations	Dr Saima
41.	13.07.23 Thurs	Macro Vs Micro Abrasion Resin Infiltration	Dr Saima
42.	17.07.23 Mon	Cleaning and shaping	Dr Anam
43.	19.07.21 Wed	Endodontic Irrigants	Dr Anam
44.	20.07.23 Thurs	Intracanal medicaments	Dr Anam
45.	24.07.23 Mon	Obturation	Dr Anam
46.	26.07.23 Wed	Obturation	Dr Anam
47.	27.07.23 Thurs	Procedural Accidents	Dr Anam
48.	31.07.23 Mon	Endodontic Emergencies and Flare ups	Dr Anam
49.	02.08.23 Wed	Post & core crown	Dr Moeen
50.	03.08.23 Thurs	Post & core crown	Dr Moeen
51.	07.08.23 Mon	Class Test 4	

52.	09.08.23 Wed	Impression material & techniques	Dr Moeen
53.	10.08.23 Thurs	Occlusal record & temporary crown	Dr Moeen
	14.08.23 Mon	Holiday	
54.	16.08.23 Wed	Try in & cementation	Dr Moeen
55.	17.08.23 Thurs	Types & indication of bridges	Dr Moeen
56.	21.08.23 Mon	Abutment selection	Dr Moeen
57.	23.08.23 Wed	Paeds	Dr Omer
58.	24.08.23 Thurs	Paeds	Dr Omer
59.	28.08.23 Mon	Paeds	Dr Omer
60.	30.08.23 Wed	Paeds	Dr Omer
61.	31.08.23 Thurs	Paeds	Dr Omer
62.	04.09.23 Mon	Class Test 5	
63.	06.09.23 Wed	Paeds	Dr Omer
64.	07.09.23 Thurs	Paeds	Dr Omer
65.	11.09.23 Mon	Paeds	Dr Omer
66.	13.09.23 Wed	Vital Tooth Bleaching	Dr Saima
67.	14.09.23 Thurs	Non-Vital Tooth bleaching	Dr Saima
68.	18.09.23 Mon	Direct Composite Veneers	Dr Saima
69.	20.09.23 Wed	Indirect Veneers	Dr Saima
70.	21.09.23 Thurs	Inlays and Onlays	Dr Saima
71.	25.09.23 Mon	Complex Amalgam Restoration	Dr Saima
72.	27.09.23 Wed	Restoration of Endodontically treated teeth	Dr Saima
73.	28.09.23 Thurs	Non-surgical Retreatment	Dr Anam
74.	02.10.23 Mon	Class Test 6	
75.	04.10.23 Wed	Endodontic Surgery	Dr Anam
76.	05.10.23 Thurs	Endodontic Surgery	Dr Anam
77.	09.10.23 Mon	Dental Trauma	Dr Anam
78.	11.10.23 Wed	Dental Trauma	Dr Anam
79.	12.10.23 Thurs	Differential Diagnosis of non-pulpal origin	Dr Anam

16.10.23 Mon	Pontic design & selection	Dr Moeen
18.10.23 Wed	Retainer selection	Dr Moeen
19.10.23 Thurs	Connector selection	Dr Moeen
23.10.23 Mon	Resin bonded bridges	Dr Moeen
25.10.23 Wed	Resin bonded bridges	Dr Moeen
26.10.23 Thurs	Post-op care and Reasons for failure of crown	Dr Moeen
30.10.23 Mon	Class Test 7	
01.11.23 Wed	Paeds	Dr Omer
02.11.23 Thurs	Paeds	Dr Omer
06.11.23 Mon	Paeds	Dr Omer
08.11.23 Wed	Paeds	Dr Omer
09.11.23 Thurs	Holiday	
13.11.23 Mon	Paeds	Dr Omer
15.11.23 Wed	Paeds	Dr Omer
16.11.23Thurs	Dentin hypersensitivity	Dr Saima
20.11.23Mon	Restorative Periodontology	Dr Saima
22.11.23 Wed	Restorative Periodontology	Dr Saima
23.11.23 Thurs	Tooth resorption	Dr Anam
27.11.23 Mon	Tooth fractures	Dr Anam
29.11.23 Wed	Metal Inlays and Onlays	Dr Moeen
30.11.23 Thurs	Tooth coloured Inlays and Onlays	Dr Moeen
04.12.23 Mon	Class test 8	
06.12.23 Wed	Paeds	Dr Omer
07.12.23 Thurs	Paeds	Dr Omer
	18.10.23 Wed 19.10.23 Thurs 23.10.23 Mon 25.10.23 Wed 26.10.23 Thurs 30.10.23 Mon 01.11.23 Wed 02.11.23 Thurs 06.11.23 Mon 08.11.23 Wed 09.11.23 Thurs 13.11.23 Mon 15.11.23 Wed 16.11.23 Thurs 20.11.23 Mon 15.11.23 Wed 16.11.23 Thurs 20.11.23 Mon 21.123 Wed 23.11.23 Thurs 20.11.23 Wed 30.11.23 Thurs 04.12.3 Wed 30.11.23 Wed 04.12.3 Wed	18.10.23 WedRetainer selection19.10.23 ThursConnector selection23.10.23 MonResin bonded bridges25.10.23 WedResin bonded bridges26.10.23 ThursPost-op care and Reasons for failure of crown30.10.23 MonClass Test 701.11.23 WedPaeds02.11.23 ThursPaeds06.11.23 MonPaeds08.11.23 WedPaeds09.11.23 ThursHoliday13.11.23 MonPaeds15.11.23 WedPaeds15.11.23 WedPaeds15.11.23 WedPaeds15.11.23 MonRestorative Periodontology22.11.23 WedRestorative Periodontology23.11.23 ThursTooth resorption27.11.23 MonTooth resorption27.11.23 MonTooth search resorption27.11.23 MonClass test 804.12.23 MonPaeds04.12.23 WedPaeds04.12.23 WedPaeds10.11.23 ThursTooth coloured Inlays and Onlays13.11.23 ThursTooth coloured Inlays and Onlays13.11.23 ThursTooth coloured Inlays and Onlays

VI. <u>CLINICAL LEARNING OBJECTIVES</u>

FINAL YEAR BDS

CLINICAL DEMONSTRATIONS

SR. NO.	SUBJECT	ΤΟΡΙϹ
	RESTORATIVE	Clinical Demonstration;
		History taking and treatment planning, Cross infection Protocol Demonstration,
1		Instruments and Materials, Rubber Dam Application, Matrix systems & Pulp
		protection Book reading; Principles of Cavity Preparations
		Book reading & Clinical Demonstration;
2		Class I Cavity Preparation for Amalgam
		Book reading;
3		Class II Cavity Preparation for Amalgam
		Clinical Demonstration;
4		Class II Cavity Preparation for Amalgam
5		Book reading;
5		Class I Cavity Preparation for Composite
6		Clinical Demonstration;
0		Class I Cavity Preparation for Composite
7		Book reading;
		Class II Cavity Preparation for Composite
8		Clinical Demonstration;
		Class II Cavity Preparation for Composite
9		Book reading;
		Class III Cavity Preparation for Composite
10		Clinical Demonstration; Class III Cavity Preparation for Composite
		Book reading;
11		Class IV Cavity Preparation for Composite
		Clinical Demonstration;
12		Class IV Cavity Preparation for Composite

CLINICAL DEMONSTRATIONS SCHEDULE FOR ROTATIONAL BATCH FINAL YEAR BDS

Sr #	LEARNING OBJECTIVES	DAYS	
	History taking and treatment planning		
1.	History taking and informed consent		PG: Dr Ahmad
2.	Clinical examination		Shah
3.	Radiographic interpretation		
4.	Diagnosis and treatment planning for dental carious lesions		
	Cross infection Protocol		
5.	Hand Hygiene / Hand washing technique		PG: Dr Ayesha
6.	Putting on and Removing PPE, Masks, Protective Eyewear, Face shields, Protective		Shafique
	clothing, Gowns, Gloves		
7.	Transport of instruments to the processing area		
8.	Cleaning/ Washing of instruments		
9.	Packaging of instruments		
10.	Sterilization monitoring (Verification of sterility using physical, chemical, and		
11.	biological indicators) Sterilization of dental handpieces, burs, and other restorative materials	-	
11.	Needle stick injury prevention and immediate management		
13.	Disinfection of dental units	01	
15.	Instruments and Materials	-	
14.	Identification of hand instruments (cutting, non-cutting)	-	PG: Dr Sara
15.	Identification of powered/rotary cutting equipment	-	Tahir
16.	Hazards with cutting instruments and their prevention	-	
17.	Identification and manipulation of dental materials (Amalgam, Composite, GIC,	-	
1/.	Calcium hydroxide, Etchant, Bonding agent)		
18.	Amalgam waste disposal	-	
10.	Rubber Dam Application		
19.	Patient counselling for rubber dam application	_	PG: Dr Ifra
20.	Anterior segment isolation	-	Ikhlaq
21.	Premolar isolation	-	
22.	Fractured tooth isolation	-	
23.	Molar isolation	1	
24.	Single tooth isolation	1	
25.	Rubber Dam application	1	
	Matrix System		
26.	Placement of tofflemire retainer according to clinical situation		Demonstrator:
27.	Placement of palodent retainer according to clinical situation	01	

28.	Placement of mylar strip matrix for Anterior Composite Restoration; identification		Dr Maham/Dr
	of other matrix systems available		Nayaab
	Pulp Protection		
29.	Vital pulp therapy procedures		Demonstrator:
30.	Application of liner/ base before restoration (according to	01	Dr Maham/Dr
	clinical situation)		Nayaab

RESTORATIVE CLINICAL LEARNING OBJECTIVES (FINAL YEAR)

Sr #	LEARNING OBJECTIVES	PERFORMED	NOT PERFORMED	DAYS	MODE ASSESSI		EVALUATI ON	EVA	LUATE	CAN PERFORM CONFIDENTLY	CANNOT PERFORM CONFIDENTLY
	History taking and treatment planning				Clinical test	Viva	Test result & student feedback	Faculty	Teaching assistant		
1.	History taking and informed consent										
2.	Clinical examination										
3.	Radiographic interpretation										
4.	Diagnosis and treatment planning for dental carious lesions										
	Cro	oss infection Pro	otocol								
5.	Hand Hygiene / Hand washing technique										
6.	Putting on and Removing PPE (Personal Protective Equipment) Masks, Protective Eyewear, Face shields, Protective clothing, Gowns, Gloves										
7.	Transport of instruments to the processing area										

					1		r	
8.	Cleaning/ Washing of instruments							
				-				
9.	Packaging of instruments							
10.	Sterilization			-				
10.	monitoring							
	(Verification of							
	sterility using							
	physical,							
	chemical, and							
	biological							
	indicators)							
11.	Sterilization of			1				
	dental handpieces,							
	burs, and other							
	restorative							
	materials							
12.	Needle stick injury							
	prevention and							
	immediate							
	management							
13.	Disinfection of							
	dental units							
	Instr	ruments and Ma	iterials					
14.	Identification of							
	hand instruments							
	(cutting, non-							
	cutting)							
15.	Identification of							
1	powered/rotary							
	cutting equipment							
16.	Hazards with							
	cutting instruments							
	and their							
	prevention			-				
17.	Identification and							
	manipulation of							
	dental materials							
	(Amalgam,							
	Composite, GIC,							

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	Calcium hydroxide,		l					
	Etchant, Bonding		l					
	agent)		I					
18.	Amalgam waste		I					
	disposal		I					
	Rubber Dam A	Application						
19.	Patient counselling							
	for rubber dam		l					
	application		I					
20.	Anterior segment		l					
	isolation		I					
21.	Premolar isolation		I					
			01					
22.	Fractured tooth							
	isolation		I					
23.	Molar isolation							
24.	Single tooth		l					
	isolation		l		 			
25.	Rubber Dam		l					
	application				 			
	Matrix S	ystem						
26.	Placement of		i					
	tofflemire retainer		l					
	according to clinical		l					
	situation+		l					
27.	Placement of		l					
	palodent retainer		I					
	according to clinical		01					
	situation		I					
28.	Placement of mylar		l					
	strip matrix for		l					
	Anterior Composite		l					
	Restoration;		l					
	identification of		I					
	other matrix		l					
	systems available		l					
	Pulp Prot	tection						
	1							

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29.	Vital therapy					
	procedures					
30.	Application of liner/					
	base before	01				
	restoration	UI UI				
	(according to					
	clinical situation)					
	Amalgam Restorat	ions				
31.	Conservative Class I					
	Cavity Preparation					
	for Amalgam					
	Restoration					
32.	Extensive Class I					
	Amalgam					
	Restoration	08				
33.	Class Il Cavity					
	Preparation for					
	Amalgam					
	Restoration					
34.	Class V Cavity					
	Preparation for					
	Amalgam					
	Restoration					
	Composite Restorat	tions				
35.	Bonding protocol					
	before Composite					
	Restoration (Etch &					
	Rinse, Self-Etch)					
36.	Cavity preparation					
	and restoration for					
	Class I Composite				 	
37.	Cavity preparation					
	and restoration for					
	Class Il Composite	09				
38.	Cavity preparation					
	and restoration for					
	Class III Composite					

39.	Cavity preparation and restoration for Class IV Composite					
40.	Cavity preparation and restoration for Class V Composite					

ENDODONTIC CLINICAL LEARNING OBJECTIVES (FINAL YEAR)

Sr #	LEARNING OBJECTIVES	PERFORMED	NOT PERFORMED	DAYS	MODE ASSESSI		EVALUATI ON	EVA	LUATE	CAN PERFORM CONFIDENTLY	CANNOT PERFORM CONFIDENTLY
	Identificati	on of Endodonti	ic Instruments		Clinical test	Viva	Test result & student feedback	Faculty	Teaching assistant		
1. 2.	Burs (Round diamond bur, tapered diamond bur, Endo Z bur) Reamers			-							
3.	Files (K&H)			-							
4.	Barbed broaches										
5.	DG16 Explorer			-							
6.	Endodontic Explorer										
7.	Pluggers										
8.	Spreaders										
9.	Lentulospiral			2							
10.	Electric pulp tester										
11.	Apex locator										
12.	Rotary files										
13.	Endomotor										
14.	Obtura										
	Radiographic Interpretation										

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Dental Trauma/VRF		1								
Steps o	of root canal pre	paration	۱ ۲	· · · · · · · · · · · · · · · · · · ·		+				
Pulp space Anatomy		·	[]		├ ──── [!]	<u>├</u> ───┦		'	'	
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Fractured File		1	'	1	'		1			
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	Dental Trauma/VRF Steps of Pulp space Anatomy Prepare access cavity Determination of working length Cleaning and Shaping of the root canal Root canal obturation Patient O Fractured File Ledge Formation Perforations Over & Under obturated canal Instrument aspiration/	resorptionApical PeriodontitisPulp stonePulp stoneImage: Pulp stoneDental Trauma/VRFDental Trauma/VRFPulp space AnatomyPrepare accesscavityDetermination of working lengthCleaning and Shaping of the root canalRoot canal obturationPatient Counselling & Main Fractured FileLedge FormationPerforationsOver & Under obturated canalInstrument aspiration/Instrument aspiration/	resorptionImage: selection of the cost of	resorptionImage: constraint of the second secon	resorption Apical Periodontitis Image: Constraint of the second seco	resorption Apical Periodontitis Pulp stone Pulp stone Dental Trauma/VRF Dental Trauma/VRF Dental Trauma/VRF Pulp space Anatomy Prepare access cavity Determination of working length Cleaning and Shaping of the root canal Root canal obturation Patient Counselling & Management Fractured File Ledge Formation Perforations Over & Under obturated canal Instrument aspiration/ I Contal Councelling & Contal Cont	resorption Apical Periodontitis Pulp stone Pulp stone Dental Trauma/VRF Dental Trauma/VRF Dental Trauma/VRF Pulp space Anatomy Prepare access cavity Prepare access cavity Determination of working length Cleaning and Shaping of the root canal Root canal obturation Patient Counselling & Management Fractured File Ledge Formation Perforations Over & Under obturated canal Instrument aspiration/ Appice the state of t	resorption Apical Periodontitis Pulp stone Pulp stone Dental Trauma/VRF Dental Trauma/VRF Dental Trauma/VRF Dental Trauma/VRF Prepare access cavity Determination of working length Cleaning and Shaping of the root canal Root canal Obturation Patient Counselling & Management Fractured File Ledge Formation Perforations Over & Under obturation National National National Patient Counselling & Management Patient Counselling & Management Perforations National National Patient Counselling & Management Patient Counselling	resorptionImage: constraint of the sector of th	resorption Image: second sec

29.	Vertical root					
	fracture					
30.	Extraction of tooth					
	undergoing Root					
	canal treatment					
31.	Clinical Test and Viva	1				

CROWN & BRIDGE CLINICAL LEARNING OBJECTIVES (FINAL YEAR)

Sr #	LEARNING OBJECTIVES	PERFORMED	NOT PERFORMED	DAYS	MODE ASSESSN		EVALUATION	EVA	LUATE	CAN PERFORM CONFIDENTLY	CANNOT PERFORM CONFIDENTLY
	History	taking and trea	tment planning		Clinical	Viva	Test result &	Faculty	Teaching		
					test		student		assistant		
							feedback				
1.	History taking and informed consent										
2.	Clinical examination										
3.	Radiographic interpretation										
4.	Assess and formulate a treatment plan for Crown/Bridge			2							
5.	Evaluation and selection of abutments for a bridge										
6.	Communicatio n with the patient according to the clinical scenarios	procedures for	Crown								
7.	Shade matching										

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8.	Putty index for								
	crown								
	preparation								
9.	Identification								
	of crown								
	cutting burs								
10.	Porcelain								
	jacket crown								
	preparation								
11.	Porcelain fused			3					
	to metal crown								
	preparation								
12.	Cast metal								
	crown								
	preparation								
13.	Tissue								
10.	management								
	and impression								
	making								
		endodontically	treated tooth						
		chuouonticany							
14.	Identification								
	and selection of								
	post								
15.	Preparation for			1					
	post								
16.	Cementation of								
	post								
		es for metal cer	amic crown						
4.5									
17.	Wax up								
18.	Investment								
19.	Casting			1					
20.	Porcelain								
	layering and								
	baking								
	Steps in placement of Crown								
21.	Temporization				+ +				
	- omportzation								

22.	Identification of temporary crown/bridge			1				
23.	Try-in and cementation of crown							
	Bridges		1					
24.	Identification of components of a bridge							
25.	Identification of resin bonded bridge			1				
26.	Selection of bridge design							
27.			1					

PAEDODONTICS CLINICAL LEARNING OBJECTIVES (FINAL YEAR)

Sr #	LEARNING OBJECTIVES	PERFORMED	NOT PERFORMED	DAYS		EVALUATE	CAN PERFORM CONFIDENTLY	CANNOT PERFORM CONFIDENTLY
	History taki	ing and treatme	nt planning		Faculty	Teaching assistant		
1.	Clinical Examination							
2.	Diagnosis & treatment planning for dental carious lesions; Radiology			2				
3.	Behaviour management			2				
4.	Patient counselling			1				
	Instru	iments and Mat	erials					
5. 6.	Stainless steel crown kits parts & use Stainless steel crown preparation			1				
	· · ·	tion/Preventive	procedures					
7.	Pulpotomy/ Pulpectomy Technique			2				
8.	Pit and fissure sealants			1				
9.	Fluoride application			1				

CLINICAL DUTIES AND REQUIREMENTS

- Each student will spend a total of 10 weeks approximately in final year in the Department of Operative dentistry
- Each student will be required to:

Third Year BDS

Restorative Clinical Exercises

S. No	Pre-Clinical Performance	No. of Practices
1	Amalgam Class I	04
2	Amalgam Class II	04
3	Observation Exercises	08

S. No	Clinical Quota	No. of Practices
1	Restorations	15 Amalgam15 Composite
2	Crown & Bridge	 1 Porcelain Jacket Crown Preparation, Impression taking, chair side temporary crowns 1 Porcelain fused to metal crown preparations 1 metal crown preparation Trail and cementation of crowns
3	Endodontics Instrument identification exercise Endodontic exercise – Endoblock	 Endodontic Access instruments Root canal preparation Instruments Root canal Obturation Instruments Access cavity Working length determination RC preparation RC obturation

Final Year BDS

Record of this clinical work will be maintained in the Pre-clinical and **Clinical Quota Book.**

PRESENTATIONS TOPICS FOR FINAL YEAR BDS

Every Friday

Sr.no	Торіс
1.	Liner & Bases, Pulp capping (direct & indirect)
2.	Preventive resin restoration & Fissure sealants
3.	Finishing & polishing of amalgam
4.	Types of bevel & retention of composite
5.	Types of $Ca(oH)_2$ & mechanism of action (setting reaction)
6.	Types of GICs & mechanism of action (setting reaction)
7.	Different Phases of Amalgam & Setting reaction, Delayed expansion of amalgam
8.	Finishing & polishing of composites
9.	Caries risk assessment
10.	Principles of cavity preparation
11.	Types of retainers(matrices)
12.	Class II amalgam cavity design
13.	Composition of different types of composites
14.	Micro leakage composites / amalgam
15.	Enamel adhesion
16.	Dentine adhesion & classification of dentinal adhesives
17.	Wet bonding / Dry bonding
18.	Common problems in composites restoration
19.	Dentine Hyper sensitivity
20.	Trauma

*Topics may be changed as per need

VII. DEPARTMENTAL TIME TABLE

DAYS	OUTDOOR		INDOOR		
	8:00am-2:30 pm	Clinical Registrar:	Dr Nayaab Gilani, Dr Saira Waheed	Academic Registrar: D	r Maham Anjum
	Supervision by on duty Post		Clinical Registrar (Endo):	Dr Hira Anjum	
	graduate trainee		Supervision by Post graduate Reside	nts as allotted to each HO	
		8:00-10:00 AM	10:15-12:30 PM	12:30-2:00 PM	2:00-4:00pm
Monday	HO/PG	 Final year BDS Lecture Clinical Registrar meeting Clinical procedures of appointed patients by HOs/PGs 	 Demo/ Clinical Supervision Final Year BDS (Restorative) Clinical procedures of appointed patients by HOs/PGs HO's Break (Half hour) 	 Final year Tutorial Clinical procedures of appointed patients by HOs/PGs 	- Clinical procedures of indoor in patients
Tuesday	HO/PG	 Departmental Meeting Journal Club seminar (PGs) Clinical procedures of appointed patients by HOs/PGs 	 Demo/ Clinical Supervision Final Year BDS (Restorative) Clinical procedures of appointed patients by HOs/PGs HO's Break (Half hour) 	 Final year Tutorial Clinical procedures of appointed patients by HOs/PGs 	- Clinical procedures of indoor patients
Wednesday	HO/PG	 Final year BDS Lecture Clinical procedures of appointed patients by HOs/PGs 	 Final Year BDS Crown & Bridge/Endo/Paeds Clinical procedures of appointed patients by HOs/PGs HO's Break (Half hour) 	 Final year Tutorial Clinical procedures of appointed patients by HOs/PGs 	- Clinical procedures of indoor patients
Thursday	HO/PG	 Final year BDS Lecture Synopsis Discussion/ Clinical case presentations (PGs) Endo clinic registrar meeting Clinical procedures of appointed patients by HOs/PGs 	 Final Year BDS Crown & Bridge/Endo/Paeds Clinical procedures of appointed patients by HOs/PGs HO's Break (Half hour) 	 Final year Tutorial Clinical procedures of appointed patients by HOs/PGs 	- Clinical procedures of indoor patients
Friday	HO/PG	 Operative House surgeon's Seminar Clinical procedures of appointed patients by HOs/PGs 	 Demo/ Clinical Supervision Final Year BDS (Restorative) Clinical procedures of appointed patients by HOs/PGs HO's Break (Half hour) 	 Final year Tutorial Clinical procedures of appointed patients by HOs/PGs 	- Clinical procedures of indoor patients

VIII. <u>TEACHING AND LEARNING METHODOLOGIES</u>

a. Large group teaching strategies:

- Lectures
- Interactive sessions

b. Small group teaching strategies:

- Employed during practicals (daily) and tutorials (daily)
- Interactive sessions
- Literature reading
- Video aids
- Small group discussions (SGDs)
- Viva voce
- Presentations by students
- Clinical demonstrations and practicals

IX. <u>LEARNING RESOURCES</u>

- Sturdevant's Art and Science of Operative Dentistry:vTheodore M. Roberson, Herald O. Heymann, Edward J. Swift. (Latest edition)
- 2. Summitt's Fundamentals of Operative Dentistry- A Contemporary Approach (latest edition)
- 3. Endodontics: Principles and practice by Torabinjad. Richard E Walton, Mahmoud Torabinjad. (Latest edition)
- 4. T.R Pitt Ford, FJ. Harty: Hartysendodontics in clinical practice. (latest edition)
- 5. Contemporary fixed prosthodontics by Stephan R. Rosenthal, Latest edition.
- 6. Schilingburg et al. Fundamentals of fixed prosthodontics, Latest edition.
- 7. Inlays, Crowns & Bridges by George Kantorowicz, Latest edition.
- 8. Smith BGN. Planning and making crowns and bridges, latest edition.
- 9. McDonald and Avery's Dentistry for the Child and Adolescent
- 10. Pediatric Dentistry-Infancy to Adolescent by Pinkham, Casamassimo
- 11. Handbook of Pediatric Dentistry by Angus C Cameron, Richard P Widmer
- 12. Paediatric Dentistry by Richard R. Welbury

X. ASSESSMENT FORMATS

Each week of the month is allotted to each final year subject as test week. One class test is conducted each month for Operative dentistry. Topics included in each test are notified and resources are identified.

a. Written tests

Written class tests include MCQs (one best type) and SEQs. University recommendations for marks distribution are strictly followed. Summative and formative assessment will be done.

b. Clinical Test

It is held for each student during rotation in the Operative Department during 4th year BDS duties. Every clinical test will be followed by formative/ feedback assessment session. Every student will perform one filling and will appear in chair side viva. Grading will be based on viva / oral examination, chair-side manners, cross infection control (aseptic technique), operator and patient positioning and clinical technique / proficiency, History, diagnosis and treatment planning.

Results with feedback will be posted immediately after the clinical test.

c. Oral examination

In order to prepare the students for oral component of university examination, viva voce examinations (by senior faculty members) are also conducted during the session.

d. Send up examination

Send up is a comprehensive examination including whole Operative dentistry course that is conducted at the end of academic session and final university examination pattern is followed in every respect (no. of questions, ToS, marks distribution, total time allowed etc.).

e. Internal Assessment

Will be based upon written test, clinical tests, presentations, and hands on exercises & assignments and no of credits.

INSTRUCTIONS

<u>"ALL STUDENTS MUST FOLLOW THE STANDARD PROTOCOL REGARDING CROSS INFECTION CONTROL IN</u> <u>THE CLINICS"</u>

- Students should wear lab coats with neat dress.
- Students should follow the instructions from the teaching faculty.
- Students should report to the lab/clinics as per the scheduled time and should attend only in their respective groups.
- Students should keep their working table clean and do not damage any parts of the table. If any damage occurs, the particular student is responsible for the replacement of the damaged parts.
- Student should always maintain silence in the lab/clinics.
- Student should not leave any of their belonging after their session and if anything is lost, the college and the staff is not responsible.
- Attendance is compulsory. If anybody has shortage of attendance, appropriate action will be taken according to the college rules and regulations.
- Demonstrations will not be repeated for absent student regardless of reason of absence

XI. <u>ROBUST FEEDBACK SYSTEMS</u>

a. Feedback on attendance

Attendance report is forwarded to students and parents on daily basis

b. Feedback on academic performance

Academic performance report is also regularly forwarded to students and parents. Moreover, individual students are given feedback on their academic performance during tutorials. MCQ and SEQ papers are also discussed with students in small groups.

c. Parents of weak students are regularly contacted (PTM sessions)

XII. <u>REMEDIAL CLASSES</u>

Remedial classes will be carried out as for students who:

- 1. Have poor attendance less than 75%
- 2. Less than 50% in test performance

They will be scheduled every Wednesday from 1:30-2:30 pm.