# LAHORE MEDICAL AND DENTAL COLLEGE



## **OPERATIVE DENTISTRY STUDY**

## GUIDE

## 2<sup>ND</sup>, 3<sup>RD</sup>, FINAL YEAR BDS

## 2024



#### **COURSE DIRECTOR:**

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CO-CONTRIBUTORS:		

#### **CO-CONTRIBUTORS:**

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## **Table of Contents**

- I. Introduction
- II. Study guide objectives
- III. Course duration, table of specifications (TOS), examination rules and regulations
- IV. Curriculum
- V. Academic calendar
- VI. Clinical learning objectives
- **VII.** Departmental time table
- VIII. Learning and teaching methodologies
  - **IX.** Learning resources
  - **X.** Assessment formats
  - XI. Robust feedback system
- XII. Remedial

# I. INTRODUCTION:

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 rootsof 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 2<sup>nd</sup> 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 3<sup>rd</sup> year, 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 4<sup>th</sup> 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. <u>STUDY GUIDE OBJECTIVES:</u>

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,</u> EXAMINATION RULES AND REGULATIONS

#### 2<sup>ND</sup> year BDS

According to 2019 =135hours According to current time table

LECTURES	COURSE DURATION: <u>6 MONTHS</u> CURRENTLY BEING FOLLOWED Total no. of lectures:26		
	45 min * 26 = 1170min/ 19 hours		
PRACTICALS	Total no of practicals=51 2 hours/week per batch 6* 8= 48hours		

Total hours=67

	COURSE DURATION: 9 MONTHS CURRENTLY BEING FOLLOWED
LECTURES	Total no. of lectures: 36
	45 min * 36 = 1620 min/ 27 hours
PRACTICALS	2 hours/week per batch
	36 * 2 = 72 hours
	4 hours/week per batch
	36 * 4 = 144 hours

Total hours if 2 hours = 99 hours Total hours if 4 hours = 171 hours

#### HOURS ACCORDING TO UHS: TOTAL HOURS REQUIRED= 135 HOURS

	COURSE DURATION: 9 MONTHS		
LECTURE	Total no. of lectures: 36		
	60 min * 36 = 36 hours		
PRACTICAL	2 hours/week per batch		
	36 * 2 = 72 hours		
	4 hours of teaching/week		
	36 * 4 = 144 hours		

Total hours if 2 hours = 108 hours Total hours if 4 hours = 180 hour

## 3rd YEAR BDS

## COURSE DURATION: <u>6 MONTHS</u> CURRENTLY BEING FOLLOWED Total no. of lectures:26 45 min \* 26 = 1170min/ 19 hours

#### <u>3<sup>rd</sup> year practicals</u> Monday: 5 hrs

Monday: 5 hrs Tuesday:3 hrs Friday: 3.5 hrs Per week: 11.5 hrs

Per month 46 hrs

10 months 460 hrs

460+19=479hours According to 2019 =100 hours required

#### **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	38	
C&B	Dr Moeen	27	
Endo	Dr Anam	26	
		Total 91	

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

			Rotation 1	Rotation 2	Rotation 3	Rotation 4	
							<u>hours</u>
<b>Clinical Rotation:</b>	Subject	Faculty	No. (days)	No. (days)	No. (days)	No. (days)	
Demonstration and	Resto	Dr Saima	18	18	18	18	85.30
<b>clinical work</b> 10:30-12:30pm	Endo	Dr Anam	09	09	09	09	38.15
<b>Tutorials:</b> 12:30- 3:00pm	C&B	Dr Moeen	09	09	09	09	42.45
							Total 166.5

Operative credit hours:	257.5 (without assessments)
Assessment credit hours:	08
Grand total Credit hours:	257.5 + 8 Class tests = 265.5

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

## Table Of Specifications For Operative Dentistry Theory & Practical

## **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	
Operative Dentistry	Internal assessment	10 Marks			200 Marks
		100		100	

## Table Of Specifications For Operative Dentistry Theory & Practical

## **Final Professional Examination BDS**

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

# I. <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 $2^{nd}$ , $3^{rd}$ and $4^{th}$ 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 3<sup>rd</sup>, 4<sup>th</sup> year BDS

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 er	nd of this course, the student will be able to:	
1.	Identification of dental caries	
2.	Plan management protocols	

#### AMALGAM RESTORATIONS

## Taught in 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year BDS

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; 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.	Dr. Saima, Dr. Aisha
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	d 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 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year BDS

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 4<sup>th</sup> year BDS

#### Course director: Prof. Dr. Saima Razaq Khan

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Enlist Indications/contraindications, advantages/disadvantages of complex amalgamrestorations	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 forendodontically 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 en	d 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 3<sup>rd</sup>, 4<sup>th</sup> year BDS

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 4<sup>th</sup> 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 4<sup>th</sup> 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 2<sup>nd</sup> year BDS

#### Course director: Dr. Aisha Arshad

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

#### INTRODUCTION TO ENDODONTICS

## Taught in 3<sup>rd</sup>, 4<sup>th</sup> 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 4<sup>th</sup> year BDS Course director: Dr. Anam Fayyaz

Sr. No.	Learning	Facilitator
	Outcomes	
	(LO)	
1.	Discuss endodontic instruments. Discuss and appraise rubber dam	Dr. Anam
	isolation. Name and explain instruments for access cavity preparation, root	
	canal preparation, and forfilling root canals	
2.	Explain pulp space anatomy and access cavities. Identify the components	Dr. Anam
	of root canalsystem; 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.	
3.	Discuss isolation, goals and methods of isolation. Define and explain	Dr. Anam
	working lengthdetermination, discuss the methods of working length	
	determination and classification of Apex Locators	
4.	Define cleaning and shaping of the root canals. Enlist the principles of	Dr. Anam
	cleaning, principles of shaping, describe and illustrate apical canal	
	preparation, pretreatmentevaluation. Discuss the different root canal	
	preparation techniques and hand	
	instrumentation.	
5.	Discuss and explain endodontic irrigants, the objectives of irrigation,	Dr. Anam
	irrigationhydrodynamics, properties of an ideal irrigants and the types of	
	irrigants used.	

6.	Explain intra-canal medicaments, benefits of intra-canal medicaments,	Dr. Anam
	commonlyused intra-canal medicaments, temporary restorations,	
	objectives of temporary restorations and the materials used for	
	temporary restorations.	
7.	Define and explain obturation, objectives of obturation, materials used for	Dr. Anam
	obturation, ideal properties of obturation materials, obturation techniques	
	with gutta-percha and the evaluation of obturation.	
At the er	nd 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 4<sup>th</sup> year BDS

#### Course director: Dr. Anam Fayyaz

Sr. No.	Learning	Facilitator
	Outcomes	
	(LO)	
1.	Diagnosis and treatment planning of endodontic emergencies and	Dr. Anam
	flare-ups, 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	Dr. Anam
	access preparation, accidents during cleaning and shaping and	
	accidents during obturation.	
3.	Indications and contra-indications for non-surgical retreatment, risks	Dr. Anam
	and benefits	
	of re-treatment, endodontic retreatment procedures, and discuss the	
	prognosis.	

# ENDODONTIC SURGERY, ENDODONTIC AND PERIODONTAL INTERRELATIONSHIP

Taught in 4<sup>th</sup> year BDS

#### Course director: Dr. Anam Fayyaz

Sr. No.	Learning Outcomes (LO)	Facilitator
1.	Discuss endodontic surgery, incision for drainage, periapical surgery, correctivesurgery, 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.	Dr. Anam

#### The role of endodontics after dental trauma

#### Taught in 4<sup>th</sup> year BDS

#### Course director: Dr. Anam Fayyaz

Sr.	Learning Outcomes (LO)	Facilitator
No.		
1.	Describe the clinical and radiographic features of enamel fractures, uncomplicated crown fractures, complicated crow fractures, crown-root fractures, root fractures, concussion, subluxation, luxations (lateral, extrusive, and intrusive), avulsions, and alveolar fractures.	Dr. Anam
2.	Most common types of Dental Trauma.	Dr. Anam
3.	Traumatic emergencies: Crown fractures - Root fractures - Displacement - Avulsion Diagnose different dental traumatic injuries and to enlist different steps or guidelines for managing such injuries	Dr. Anam
4.	Vital pulp therapy.	Dr. Anam
5.	Treatment method.	Dr. Anam
6.	Follow-up after Dental trauma	Dr. Anam
7.	Sequelae of Dental traumatic injuries	Dr. Anam
8.	Follow-up after dental trauma	Dr. Anam

#### INTRODUCTION TO CROWN AND BRIDGE, INDICATIONS OF CROWNS

#### Taught in 4<sup>th</sup> year BDS

#### Course director: Dr. Moeen ud Din

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

#### **GENERAL PRINCIPLES OF CROWN PREPARATION**

#### Taught in 4<sup>th</sup> year BDS

#### Course director: Dr. Moeen ud Din

Sr. No.	Learning	Facilitator
	Outcomes (LO)	
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 4<sup>th</sup> year BDS

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

#### **TYPES OF CROWNS**

#### Taught in 4<sup>th</sup> year BDS

#### Course director: Dr. Moeen ud Din

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

#### **PORCELAIN JACKET CROWN**

#### Taught in 4<sup>th</sup> 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 en	d of this course, the student will be able to:	
1.	Prepare Porcelain Jacket crown	

## PORCELAIN FUSED TO METAL CROWNTaught in 4<sup>th</sup> year BDS

#### Course director: Dr. Moeen ud Din

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

#### POST AND CORE CROWNS

Taught in 4<sup>th</sup> year BDS

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

#### **CAST METAL CROWN**

## Taught in 4<sup>th</sup> year BDS

#### Course director: Dr. Moeen ud Din

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

#### PARTIAL VENEER CROWNS

Taught in 4<sup>th</sup> year BDS

#### Course director: Dr. Moeen ud Din

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

#### TISSUE MANAGEMENT AND IMPRESSION TAKING

#### Taught in 4<sup>th</sup> year BDS

Sr.	Learning Outcomes (LO)	Facilitator
No.		
1.	Manage Soft tissues before impression taking	Dr. Moeen ud Din
	Select impression technique for crown and bridge work	
At the en		
1.	Prepare Impression techniques	

# OCCLUSAL RECORD, TRYING IN, TEMPORARY CROWNS AND CEMENTATION

#### Taught in 4<sup>th</sup> year BDS

#### Course director: Dr. Moeen ud Din

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

#### **BRIDGE RESTORATIONS**

## Taught in 4<sup>th</sup> year BDS

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

#### **ABUTMENT SELECTION**

#### Taught in 4<sup>th</sup> year BDS

#### Course director: Dr. Moeen ud Din

Sr. No.	Learning Outcomes (LO)	Facilitator			
1.	<b>1.</b> Evaluate and select abutments for a bridge				
	Select a suitable bridge design				

#### **PONTIC SELECTION**

#### Taught in 4<sup>th</sup> 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 4<sup>th</sup> year BDS

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 4<sup>th</sup> 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 4<sup>th</sup> year BDS

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

## II. ACADEMIC CALENDERS

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

## 2ND YEAR BDS LECTURES AND PRACTICALS SCHEDULE

<b>Sr.</b> #	Date	Day	Time	Topics
	11	Monday	12;40 to 2;00	Introduction & Orientation to preclinical Operative Dentistry (B)
1	14 <sup>th</sup> march	Thursday	10:10 to10:50	Introduction to Operative Dentistry
		Thursday	1:30 to 2:15PM	Introduction & Orientation to preclinical Operative Dentistry(A)
	18 <sup>th</sup>	Monday	2:15 to 3:00PM	
2	21 <sup>st</sup> march	Thursday	10:10 to10:50	Instruments and Equipment for Tooth Preparation
		Thursday	1:30 to 2:15PM	Class I ANDCLASS II AMALGAM RESTOR
		Monday	2:15 to 3:00PM	
3	28 <sup>th</sup> march	Thursday	10:10 to10:50	Instruments and Equipment for Tooth Preparation
		Thursday	12:30 to 2:30PM	
	3 <sup>rd</sup> April	Monday	12:30 to 2:30PM	
4	4 <sup>th</sup> April	Thursday	10:10to10:50	Introduction to Silver
	6TH	Thursday	12:30 to 2:30PM	
	<u>10th</u>	Monday	11:50 to 1:00PM	10,11,12 april eid holidays
5	11 <sup>TH</sup> April	Thursday	10:10 to10:50	Introduction to Silver Amalgam
		Thursday	11:00 to 1:00PM	
	17th	Monday	11:00 to 1:00PM	
6	18 <sup>th</sup> April	Thursday	9:40 to	Introduction to Silver Amalgam
			10:20AM	
		Thursday	11:00 to 1:00PM	
		Monday	11:00 to 1:00PM	
7	25 <sup>th</sup> Aril	Thursday	9:40 to	GIC
			10:20AM	
		Thursday	12:30 to 2:30PM	
	1 <sup>st</sup> MAY	Monday	11:00 to 1:00PM	LABOUR DAY
8	2 <sup>nd</sup> MAY	Thursday	9:40 to	GIC
			10:20AM	
		Thursday	11:00 to 1:00PM	
		Monday	12:30 to 2:30PM	
9	9 <sup>TH</sup> MAY	Thursday	10:45 to	COMPOSITE
			11:30AM	
		Thursday	12:30 to 2:30PM	
	15 <sup>th</sup>	Monday	12:30 to 2:30PM	
10	16 <sup>TH</sup> MAY	Thursday	10:45 to	COMPOSITE
			11:30AM	
		Thursday	12:30 to 2:30PM	
		Monday	12:30 to 2:30PM	
11	23 <sup>TH</sup> MAY	Thursday	10:45 to	LINERS AND BASES( CALCIUM
		Thursday	11:30AM	HYDROXIDE)
	29 <sup>th</sup>	Thursday Monday	12:30 to 2:30PM	
10	-	Monday Thursday	12:30 to 2:30PM	I INEDS AND DASES (CALCHING INDOVIDE)
12	30 MAY	Thursday	10:45 to 11:30AM	LINERS AND BASES( CALCIUM HYDROXIDE)
		Thursday	12:30 to 2:30PM	

		Monday	12:30 to 2:30PM	
13	6 JUNE	Thursday	10:45 to 11:30AM	CERAMIC
		Thursday	12:30 to 2:30PM	
		Monday	12:30 to 2:30PM	
14	13 JUNE	Thursday	10:45 to	CERAMIC
			11:30AM	
		Thursday	12:30 to 2:30PM	
		Monday	12:30 to 2:30PM	20 <sup>TH</sup> JUNE TILL 19 <sup>TH</sup> JULY SUMMER HOLIDAYS
15	20 JUNE	Thursday	10:45 to 11:30AM	20 JUNE HEL 19 JULY SUMMER HOLIDAYS
		Thursday	12:30 to 2:30PM	
		Monday	12:30 to 2:30PM	
16	27 JUNE	Thursday	10:45 to 11:30AM	
		Thursday	12:30 to 2:30PM	
		Monday	12:30 to 2:30PM	
17	4 JULY	Thursday	10:45 to	
			11:30AM	
		Thursday	12:30 to 2:30PM	
		Monday	12:30 to 2:30PM	
18	11 JULY	Thursday	12:30 to 2:301 M	
10	II JULI	Thursday	to11:30AM	
		Thursday	12:30 to 2:30PM	
		Monday		
19	18 JULY	Thursday	10:45 to 11:30AM	
		Thursday	12:30 to 2:30PM	
		•		20 <sup>TH</sup> JUNE TILL 19 <sup>TH</sup> JULY SUMMER HOLIDAYS
		Monday	12:30 to 2:30PM	
20	25 JULY	Thursday	10:45 to	GUTTA PERCHA
		T1	11:30AM	
		Thursday	12:30 to 2:30PM	
21	1 <sup>ST</sup>	Monday Thursday	12:30 to 2:30PM 10:45 to	IRRIGATION MATERIALS
<b>41</b>	AUGUST	Thursday	10:45 to 11:30AM	IRRIGATION MATERIALS
		Thursday	12:30 to 2:30PM	
	TH	Monday		
22	8 <sup>TH</sup> AUGUST	Thursday		IRRIGATION MATERIALS
23	15 <sup>TH</sup> AUGUST	Thursday		INTRACANAL MEDICAMENT
<u></u>				
24	$22^{\text{ND}}$	Thursday		INTRACANAL MEDICAMENT

	AUGUST	
25	29 <sup>TH</sup> AUGUST	THEORY TEST
26	5 SEPT	INTRACANAL MEDICAMENT
20		After 6 months(w.e.f 01-09-23) lec ,pract will be switched with examinable subjects.
		Session closed

## 3<sup>RD</sup> YEAR BDS

## LECTURES AND PRACTICALS SCHEDULE

			<u> </u>		
Sr#	Date	Day	Time	Торіс	Faculty
	11 <sup>TH</sup>	Monday	9:30 to 3:00pm	Introduction to Operative Dentistry	Dr.Aisha
	12 <sup>TH</sup>	Tuesday	11:20 to 2:00pm	Instruments (hand & rotary instruments)	Dr.Aisha
1	14 <sup>th</sup> MARCH	THURSDAY	8:00 to 8:50am	INTRODUCTION TO OPERATIVE DENTISTRY	Dr. Anam
		Friday	9:30 to 12:30pm	Tooth morphology	Dr.Aisha
		Monday	9:40 to 2:00pm	Ergonomics in dentistry	Dr.Aisha
		Tuesday	11:20 to 2:00pm	Ergonomics in dentistry / ISOLATION TECHNIQUES RUBBER Dam	Dr.Aisha
2	21 <sup>TH</sup> MARCH	THURSDAY	8:00 to 9:00am	PATIENT ASSESMENT, EXAMINATION	Dr. Anam
	22 <sup>nd</sup>	Friday	9:30 to 12:30pm		Dr.Aisha
	23			Pakistan day	
	25th	Monday	9:40 to 2:00pm		Dr.Aisha
		Tuesday	11:20 to 2:00pm		Dr.Aisha
3	28 <sup>TH</sup> MARCH	THURSDAY	8:00 to 9:00am	PATIENT ASSESMENT, EXAMINATION	Dr. Anam
	29 <sup>TH</sup> TEST	Friday	9:30 to 12:30pm		Dr.Aisha
	1st april	Monday	9:40 to 2:00pm		Dr.Aisha
		Tuesday	11:20 to 2:00pm		Dr.Aisha
4	4 <sup>TH</sup> APRIL	Thursday	8:00 to 9:00am	DENTAL CARIES	Dr. Anam
	5 <sup>th</sup>	Friday	9:30 to 12:30pm		Dr.Aisha
		Monday	·		
	9	Tuesday			Dr.Aisha
	10 to 12 <sup>th</sup> april			Eid ul fitr	
5	11 <sup>TH</sup> APRIL	THURSDAY			Dr. Anam
		Friday	9:40 to 1:00pm		Dr.Aisha
		Monday	9:55 to 3:00pm		Dr.Aisha
		Tuesday	11:35 to 3:00pm		Dr.Aisha
6	18 <sup>TH</sup> APRIL	THURSDAY	8:00 to 8:50am	DENTAL CARIES	Dr. Anam
		Friday	9:40 to 1:00pm		Dr.Aisha
		Monday	9:55 to 3:00pm		Dr.Aisha
		Tuesday	11:35 to 3:00pm		Dr.Aisha
7	25 <sup>™</sup> APRIL	Thursday		Infection Control	Dr. Anam
	26 <sup>th</sup> TEST	Friday	9:40 to 1:00pm		Dr.Aisha
		Monday	9:55 to 3:00pm		Dr.Aisha
		Tuesday	11:35 to 3:00pm		Dr.Aisha
	1 <sup>st</sup>			Labour day	
8	2 <sup>ND</sup> MAY	Thursday		Infection Control	Dr. Anam
		Friday	9:30 to 1:00pm		Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha
		Tuesday	11:30 to 2:30pm		Dr.Aisha
9	9 MAY	Thursday		Instrument and equipment	Dr. Anam
		Friday	9:30 to 1:00pm		Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha
		Tuesday	11:30 to 2:30pm		Dr.Aisha
10	16 MAY	Thursday		Instrument and equipment	Dr. Anam
		Friday	9:30 to 1:00pm		Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha

		Tuesday	11:30 to 2:30pm		Dr.Aisha
11	23 MAY	Thursday	11.50 to 2.50pm	Fundamentals of Tooth Preparation(LECTURE	Dr. Anam
	25 11141	Friday	9:30 to 1:00pm		Dr.Aisha
	27 <sup>TH</sup> TEST	Monday	9:30 to 2:30pm		Dr.Aisha
		Tuesday	11:30 to 2:30pm		Dr.Aisha
12	30 MAY	Thursday	11.00 to 2.00pm	Fundamentals of Tooth Preparation(LECTURE	Dr.Anam
		Friday	9:30 to 1:00pm		Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha
		Tuesday	11:30 to 2:30pm		Dr.Aisha
13	6 JUNE	Thursday	11.50 to 2.50pm	CLASS I AMALGAM RESTORATION	Dr.Anam
		Friday	9:30 to 1:00pm		Dr.Aisha
	TH	monday	9:30 to 2:30pm		Dr.Aisha
	11 <sup>™</sup> test	tuesday	11:30 to 2:30pm		Dr.Aisha
13	13 JUNE	Thursday	9:30 to 2:30pm	CLASS I AMALGAM RESTORATION	Dr. Anam
		Friday			
				17 18 19EID UL AZHA 15 <sup>TH</sup> JUNE TILL 30 <sup>TH</sup> JUNE VACATIONS	
	1 <sup>ST</sup> JULY	Monday			
	2 <sup>ND</sup> JULY	Tuesday			
14	4 <sup>™</sup> JULY	Thursday		CLASS I I AMALGAM RESTORATION	Dr. Anam
	5 <sup>th</sup> test	Friday	9:30 to 1:00pm	TEST	Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha
		Tuesday	11:30 to 2:30pm		Dr.Aisha
15	11 <sup>TH</sup> JULY	Thursday		CLASS I I AMALGAM RESTORATION	Dr. Anam
		Friday			
		Monday			Dr.Aisha
		Tuesday		16 ,17 JULY ASHURA	Dr.Aisha
16	18TH JULY	Thursday		THEORY TEST	Dr.Anam
		Friday	9:30 to 1:00pm		
		Monday	9:30 to 2:30pm		Dr.Aisha
		Tuesday	11:30 to 2:30pm		Dr.Aisha
17	25 <sup>™</sup> JULY	Thursday	11.50 to 2.50pm	Introduction to ENDODONTICS PULPAL PATHOSIS	Dr. Anam
1,	25 5021	marsuay			Bri Anum
	26 <sup>TH</sup> TEST	Friday	9:30 to 1:00pm		Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha
		Tuesday	11:30 to 2:30pm		Dr.Aisha
18	1 <sup>ST</sup> AUGUST	Thursday		PULPAL PATHOSIS PERIAPICAL PATHOSIS	Dr. Anam
	1	1			1
		Friday	9:30 to 1:00pm		Dr.Aisha
		Friday Monday	9:30 to 1:00pm 9:30 to 2:30pm		Dr.Aisha Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha
19	8 <sup>TH</sup> AUGUST		-	PERIAPICAL PATHOSIS	
19	8 <sup>TH</sup> AUGUST	Monday Tuesday Thursday	9:30 to 2:30pm 11:30 to 2:30pm	PERIAPICAL PATHOSIS	Dr.Aisha Dr.Aisha
19	8 <sup>TH</sup> AUGUST	Monday Tuesday Thursday Friday	9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 1:00pm	PERIAPICAL PATHOSIS	Dr.Aisha Dr.Aisha Dr.Aisha
19	8 <sup>TH</sup> AUGUST	Monday Tuesday Thursday Friday Monday	9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 1:00pm 9:30 to 2:30pm	PERIAPICAL PATHOSIS	Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha
19	8 <sup>TH</sup> AUGUST	Monday Tuesday Thursday Friday	9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 1:00pm	PERIAPICAL PATHOSIS	Dr.Aisha Dr.Aisha Dr.Aisha
	8 <sup>TH</sup> AUGUST	Monday Tuesday Thursday Friday Monday	9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 1:00pm 9:30 to 2:30pm	PERIAPICAL PATHOSIS  ENDODONTIC INSTRUMENTS	Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha
		Monday Tuesday Thursday Friday Monday Tuesday	9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 1:00pm 9:30 to 2:30pm		Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha
		Monday Tuesday Thursday Friday Monday Tuesday Thursday Friday	9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 1:00pm 9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 1:00pm		Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr. Aisha
		Monday Tuesday Thursday Friday Monday Tuesday Thursday	9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 1:00pm 9:30 to 2:30pm 11:30 to 2:30pm		Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha <b>Dr.Aisha</b> Dr.Aisha
19 20		Monday Tuesday Thursday Friday Monday Tuesday Thursday Friday Monday	9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 1:00pm 9:30 to 2:30pm 11:30 to 2:30pm 9:30 to 2:30pm 9:30 to 1:00pm 9:30 to 2:30pm		Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha Dr.Aisha

	31 OCT	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	
	24.027				
		rucsuay	11.50 to 2.50pm		
		Monday Tuesday	9:30 to 2:30pm 11:30 to 2:30pm		DI.AISNa
		Friday	9:30 to 1:00pm		Dr.Aisha Dr.Aisha
	24 OCT	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	
	24 007	Tuesday	11:30 to 2:30pm		Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha
	18 <sup>TH</sup> TEST	Friday	9:30 to 1:00pm		Dr.Aisha
	17 OCT	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	Du At 1
	9 17 OCT	Thursday			
	_	Tuesday	11:30 to 2:30pm		
		Monday	9:30 to 2:30pm		Dr.Aisha
		Friday	9:30 to 1:00pm		Dr.Aisha
	-			LECTURE	
	10 OCT	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO	
		Tuesday	11:30 to 2:30pm		Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha
$\dashv$		Friday	9:30 to 1:00pm	LECTURE	Dr.Aisha
	3 <sup>RD</sup> OCT	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO	21.7 (31)
$\dashv$		Tuesday	11.50 to 2.50pm		Dr.Aisha Dr.Aisha
-		Monday	9:30 to 2:30pm 11:30 to 2:30pm		Dr.Aisha Dr.Aisha
-	27 <sup>th</sup> test	Friday	9:30 to 1:00pm		Dr.Aisha
6	26 <sup>th</sup> SEPT	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	
		Tuesday			Dr.Aisha
		Monday			Dr.Aisha
	16			Eid mila-dun-NABI	Du Al I
		Friday			Dr.Aisha
5	19th SEPT	Thursday			Dr. Aisha
	26	Tuesday	11:30 to 2:30pm		Dr.Aisha
	25	Monday	9:30 to 2:30pm		Dr.Aisha
1	22	Friday	9:30 to 1:00pm		Dr.Aisha
4	<mark>12TH SEPT</mark>	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	Dr. Aisha
-		Tuesday	11:30 to 2:30pm		Dr.Aisha
$\downarrow$		Monday	9:30 to 2:30pm		Dr.Aisha
		Friday	9:30 to 1:00pm		Dr.Aisha
				after 6 months operative classes will be switched to periodontology lectures	
3	5 <sup>™</sup> SEPT	Thursday			Dr. Aisha
		Tuesday	11:30 to 2:30pm		Dr.Aisha
		Monday	9:30 to 2:30pm		Dr.Aisha
		Friday	9:30 to 1:00pm		Dr.Aisha
2	29 AUGUST	Thursday		INTRODUCTION TO CROWN AND BRIDGE	
-		Tuesuay	11:30 to 2:30pm		Dr.Aisha
		Tuesday			

	Friday	9:30 to 1:00pm		Dr.Aisha
	Monday	9:30 to 2:30pm		Dr.Aisha/
				Maham
	Tuesday	11:30 to 2:30pm		Dr.Aisha/I
				ira
7 NOV	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO	
			LECTURE	
	Friday	9:30 to 1:00pm		Dr.Aisha/
				Maham
	Monday	9:30 to 2:30pm		Dr.Aisha
	Tuesday	11:30 to 2:30pm		Dr.Aisha
14 NOV	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	
	Friday	9:30 to 1:00pm		Dr.Aisha
	Monday	9:30 to 2:30pm		Dr.Aisha
	Tuesday	11:30 to 2:30pm		Dr.Aisha
21 NOV	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	
	Friday	9:30 to 1:00pm		Dr.Aisha
25 <sup>th</sup> test	Monday	9:30 to 2:30pm		Dr.Aisha
	Tuesday	11:30 to 2:30pm		Dr.Aisha
28 NOV	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	
	Friday	9:30 to 1:00pm		Dr.Aisha
	Monday	9:30 to 2:30pm		Dr.Aisha
	Tuesday	11:30 to 2:30pm		Dr.Aisha
25			QUAID DAY	
5 DEC	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	
	friday	9:30 to 1:00pm		Dr.Aisha
	monday	9:30 to 2:30pm		Dr.Aisha
	tuesday	11:30 to 2:30pm		Dr.Aisha
12 DEC	Thursday		OPERATIVE LECTURES WILL BE SWITCHED WITH PERIO LECTURE	Dr.Aisha
13 <sup>th</sup> dec	friday			Dr.Aisha
	-		Session end	

## **FINAL YEAR BDS**

## LECTURES & TEST SCHEDULE

Sr No.	Date	Day	Торіс	Faculty
1.	15.04.24	Mon	Introduction to Operative Dentistry	Dr. Saima
2.	17.04.24	Wed	Introduction to Endodontics	Dr. Anam
3.	18.04.24	Thurs	Introduction to Crown & Bridge	Dr. Moeen
4.	22.04.24	Mon	Principles of Cavity Preparation	Dr. Saima
5.	24.04.24	Wed	Pathogenesis of Pulp and Periapical diseases	Dr. Anam
6.	25.04.24	Thurs	Indications of crown	Dr. Moeen
7.	29.04.24	Mon	Principles of Cavity Preparation	Dr. Saima
	01.05.24	Wed	LABOUR DAY	
8.	02.05.24	Thurs	General principles of crown preparation	Dr. Moeen
9.	06.05.24	Mon	Principles of Cavity Preparation	Dr. Saima
10	08.05.24	Wed	Pathogenesis of Pulp and Periapical diseases	Dr. Anam
11	09.05.24	Thurs	General principles of crown preparation	Dr. Moeen
12	13.05.24	Mon	Class test 1	Dr. Saima
13	15.05.24	Wed	Endodontic Diagnosis and Treatment Planning	Dr. Anam
14	16.05.24	Thurs	Types of crowns, Porcelain Jacket crown	Dr. Moeen
15	20.05.24	Mon	Clinical technique of Amalgam	Dr. Saima
16	22.05.24	Wed	Endodontic Diagnosis and Treatment Planning	Dr. Anam
17	23.05.24	Thurs	Porcelain fused to metal crown	Dr. Moeen
18	27.05.24	Mon	Fundamentals of Adhesion	Dr. Saima
19	29.05.24	Wed	Endodontic Instruments	Dr. Anam
20	30.05.24	Thurs	Metal crown	Dr. Moeen
21	03.06.24	Mon	Clinical technique of composite	Dr. Saima
22	05.06.24	Wed	Pulp space Anatomy	Dr. Anam
23	06.06.24	Thurs	Partial veneer crown	Dr. Moeen
24	10.06.24	Mon	Class test 2	Dr. Saima
25	12.06.24	Wed	Access cavities (Anterior)	Dr. Anam
26	13.06.24	Thurs	Post & core crown	Dr. Moeen
	17.6.24-19.6.24	Mon-Wed	EID HOLIDAYS	
	20.6.24- 30.6.24	Thurs- Sunday	SUMMER BREAK	
27	01.07.24	Mon	Class I Amalgam	Dr. Saima
28	03.07.24	Wed	Cleaning & shaping	Dr. Anam
29	04.07.24	Thurs	Post & core crown	Dr. Moeen
30	08.07.24	Mon	Class test 3	Dr. Saima
31	10.07.24	Wed	Cleaning & shaping	Dr. Anam
32	11.07.24	Thurs	Impression material & techniques	Dr. Moeen
33	15.07.24	Mon	Class I composite	Dr. Saima
	17.07.24	Wed	Ashura	
34	18.07.24	Thurs	Occlusal record & temporary crown	Dr. Moeen

35	22.07.24	Mon	Class II Amalgam	Dr. Saima
36	24.07.24	Wed	Endodontic irrigants	Dr. Anam
37	25.07.24	Thurs	Try in & cementation	Dr. Moeen
38	29.07.24	Mon	Class II Composite	Dr. Saima
39	31.07.24	Wed	Intracanal medicaments	Dr. Anam
40	01.08.24	Thurs	Types & indication of bridges	Dr. Moeen
41	05.08.24	Mon	Class III Amalgam	Dr. Saima
42	07.08.24	Wed	Obturation	Dr. Anam
43	08.08.24	Thurs	Abutment selection	Dr. Moeen
44	12.08.24	Mon	Grand Class test	Dr. Saima
	14.08.24	Wed	Independence day	
45	15.08.24	Thurs	Pontic design & selection	Dr. Moeen
46	19.08.24	Mon	Class III & IV Composite	Dr. Saima
47	21.08.24	Wed	Obturation	Dr. Anam
48	22.08.24	Thurs	Retainer selection	Dr. Moeen
49	26.08.24	Mon	Class V Composite	Dr. Saima
50	28.08.24	Wed	Procedural Accidents	Dr. Anam
51	29.08.24	Thurs	Connector selection	Dr. Moeen
52	02.09.24	Mon	Dental caries	Dr. Saima
53	04.09.24	Wed	Endodontic Emergencies and Flare ups	Dr. Anam
54	05.09.24	Thurs	Resin bonded bridges	Dr. Moeen
55	09.09.24	Mon	Class test 4	Dr. Saima
56	11.09.24	Wed	Non-surgical Retreatment	Dr. Anam
57	12.09.24	Thurs	Resin bonded bridges	Dr. Moeen
	16.09.24	Mon	Eid milad un nabi	
58	18.09.24	Wed	Endodontic surgery	Dr. Anam
59	19.09.24	Thurs	Post-op care and Reasons for failure of crown	Dr. Moeen
60	23.09.24	Mon	Dental caries	Dr. Saima
61	25.09.24	Wed	Endodontic surgery	Dr. Anam
62	26.09.24	Thurs	Metal Inlays and Onlays	Dr. Moeen
63	30.09.24	Mon	Dental caries	Dr. Saima
64	02.10.24	Wed	Dental trauma	Dr. Anam
65	03.10.24	Thurs	Tooth coloured Inlays and Onlays	Dr. Moeen
66	07.10.24	Mon	Class test 5	Dr. Saima
67	09.10.24	Wed	Dental trauma	Dr. Anam
68	10.10.24	Thurs	NCCL Restoration	Dr. Saima
69	14.10.24	Mon	Macro Vs Micro Abrasion Resin Infiltration	Dr. Saima
70	16.10.24	Wed	Differential Diagnosis of non-pulpal origin	Dr. Anam
71	17.10.24	Thurs	Vital Tooth Bleaching	Dr. Saima
72	21.10.24	Mon	Non-Vital Tooth bleaching	Dr. Saima
73	23.10.24	Wed	Direct Composite Veneers	Dr. Saima
, 0	2012012		Direct composite veneers	Diribumu

74	24.10.24	Thurs	Indirect Veneers	Dr. Saima
75	28.10.24	Mon	Complex Amalgam Restoration	Dr. Saima
76	30.10.24	Wed	Restoration of Endodontically treated teeth	Dr. Saima
77	31.10.24	Thurs	Restorative Periodontology Interface	Dr. Saima
78	4.11.24	Mon	Dentin hypersensitivity	Dr. Saima
79	06.11.24	Wed	Revision class	Dr. Anam
80	07.11.24	Thurs	Revision class	Dr. Moeen
81	11.11.24	Mon	Class test 6	Dr. Saima
82	13.11.24	Wed	Revision class	Dr. Anam
83	14.11.24	Thurs	Revision class	Dr. Moeen
84	18.11.24	Mon	Revision class	Dr. Saima
85	20.11.24	Wed	Revision class	Dr. Saima
86	21.11.24	Thurs	Quiz	Dr. Saima
87	25.11.24	Mon	Quiz	Dr. Saima
88	27.11.24	Wed	Quiz	Dr. Saima
89	28.11.24	Thurs	Quiz	Dr. Saima
90	02.12.24	Mon	Quiz	Dr. Saima
91	04.12.24	Wed	Quiz	Dr. Saima
92	05.12.24	Thurs	Quiz	Dr. Saima
93	09.12.24	Mon	Class test 7 (Quiz Finale)	Dr. Saima
94	11.12.24	Wed	Revision class	Dr. Anam
95	12.12.24	Thurs	Revision class	Dr. Moeen
96	16.12.24	Mon	Revision class	Dr. Saima
97	18.12.24	Wed	Revision class	Dr. Anam
98	19.12.24	Thurs	Revision class	Dr. Moeen
99	23.12.24	Mon	Revision class	Dr. Saima
10	25.12.24	Wed	Holiday	

# III. <u>CLINICAL LEARNING OBJECTIVES</u> <u>FINAL YEAR BDS</u>

## **CLINICAL DEMONSTRATIONS**

Day	TOPIC/ LEARNING OBJECTIVES	Faculty
01	History taking and treatment planning	Dr Anam
	1. History taking and informed consent	
	2. Clinical examination	
	3. Radiographic interpretation	
]	4. Diagnosis and treatment planning for dental carious	
	lesions	
]	Cross infection Protocol	Dr Moeen
	1. Hand Hygiene / Hand washing technique	
	2. Putting on and Removing PPE, Masks, Protective	
	Eyewear, Face shields, Protective clothing, Gowns,	
	Gloves	
	3. Transport of instruments to the processing area	
]	4. Cleaning/ Washing of instruments	
]	5. Packaging of instruments	
1	6. Sterilization monitoring (Verification of sterility using	
	physical, chemical, and biological indicators)	
	7. Sterilization of dental handpieces, burs, and other	
	restorative materials	
	8. Needle stick injury prevention and immediate	
	management	
	9. Disinfection of dental units	-
01	Instruments and Materials	Dr Moeen
	1. Identification of hand instruments (cutting, non-	
	cutting)	
	2. Identification of powered/rotary cutting equipment	
	3. Hazards with cutting instruments and their prevention	
	4. Identification and manipulation of dental materials	-
	(Amalgam, Composite, GIC, Calcium hydroxide, Etchant,	
	Bonding agent)	
1	5. Amalgam waste disposal	
1	Rubber Dam Application	Dr Moeen
	1. Patient counselling for rubber dam application	
1	2. Anterior segment isolation	1
-	3. Premolar isolation	1
-	4. Fractured tooth isolation	1
-	5. Molar isolation	1
		01       History taking and treatment planning         1. History taking and informed consent         2. Clinical examination         3. Radiographic interpretation         4. Diagnosis and treatment planning for dental carious lesions         Corss infection Protocol         1. Hand Hygiene / Hand washing technique         2. Putting on and Removing PPE, Masks, Protective Eyewear, Face shields, Protective clothing, Gowns, Gloves         3. Transport of instruments to the processing area         4. Cleaning/ Washing of instruments         5. Packaging of instruments         6. Sterilization monitoring (Verification of sterility using physical, chemical, and biological indicators)         7. Sterilization of dental handpieces, burs, and other restorative materials         8. Needle stick injury prevention and immediate management         9. Disinfection of dental units         01         1. Identification of powered/rotary cutting equipment         3. Hazards with cutting instruments and their prevention         4. Identification and manipulation of dental materials (Amalgam, Composite, GIC, Calcium hydroxide, Etchant, Bonding agent)         5. Amalgam waste disposal         Rubber Dam Application         1. Patient counselling for rubber dam application         2. Anterior segment isolation         3. Premolar isolation

		6. Single tooth isolation	
		7. Rubber Dam application	
5	01	Matrix systems	Dr Anam
		Placement of tofflemire retainer according to clinical situation	
		Placement of palodent retainer according to clinical situation	
		Placement of mylar strip matrix for Anterior Composite	
		Restoration; identification of other matrix systems available	
6		Pulp Protection	Dr Anam
		Vital pulp therapy procedures	
		Application of liner/ base before restoration (according to	
		clinical situation)	
7	01	Class I Cavity Preparation for Amalgam and Composite	Dr Moeen
8	01	<b>Class II Cavity Preparation for Amalgam and Composite</b>	Dr Anam
9		Class III and IV Cavity Preparation	Dr Anam

# Endodontic clinical schedule

Sr	Week	Торіс	Teacher
1.	Week 1	Identification of Endodontic Instruments	
		1. Burs (Round diamond bur, tapered	
		diamond bur, Endo Z bur)	
		2. Reamers	
		3. Files (K&H)	
		4. Barbed broaches	
		5. DG16 Explorer	
		6. Endodontic Explorer	
		7. Pluggers	
		8. Spreaders	
		9. Lentulospiral	
		10. Electric pulp tester	
		11. Apex locator	
		12. Rotary files	
		13. Endomotor	
		14. Obtura	
2.	Week 2	Radiographic Interpretation	-
		Internal & External resorption	
		Apical Periodontitis	
		Pulp stone	Dr. Anam
		Dental Trauma/VRF	
3.	Week 3	Access opening	
		Pulp space Anatomy	
		Prepare access	
		cavity	
		Determination of working length	
4.	Week 4	Cleaning and shaping of the root canal	
5.	Week 5	Cleaning and shaping of the root canal	
6.	Week 6	Root canal Obturation	
7.	Week 7	Root canal Obturation	
8.	Week 8	Patient Counselling & Management	
		Fractured File	
		Ledge Formation	
		Perforations	
		Over & Under obturated canal	
		Instrument aspiration/Ingestion	
		Vertical root fracture	
		Extraction of tooth	
_		undergoing Root canal treatment	
9.	Week 9	Clinical test and viva	

# Crown and Bridge Clinical Training

Day 1.	General Principles of crown preparation
	Demonstration of Porcelain Jacket crown
	Preparation on Phantom teeth
Day 2.	Demonstration of Porcelain fused to metal crown
	Preparation on Phantom teeth
Day 3.	Demonstration of Cast Metal crown
	Preparation on Phantom teeth
Day 4.	Demonstration of Post and core build up
	Post and core build up on Phantom teeth
Day 5.	History taking, clinical examination and radiographic Assessment
	Tissue management and impression taking
Day 6.	Temporization
	Lab. Procedure for metal ceramic crown
Day 7.	Try in of crown, occlusal adjustment
	Cementation of crowns
Day 8.	Crown Preparation on Phantom teeth- test
	Viva
Day 9.	Crown Preparation on Patients
-	Impression taking and temporization
Day 10.	Identification of types of Bridges
-	Identification of component of a bridge
	· · ·

# **RESTORATIVE CLINICAL LEARNING OBJECTIVES (FINAL YEAR)**

Sr #	LEARNING OBJECTIVES	PERFORMED	NOT PERFORM ED	DAYS	MODE ASSESSM		EVALUATION	EVA	LUATE	CAN PERFORM CONFIDENTLY	CANNOT PERFORM CONFIDENTLY
	History taking and treatment planning		Clinical test	Viva	Test result & student feedback		Teaching Assistant				
1.	History taking and informed consent										
2.	Clinical examination										
3.	Radiogra phic interpret ation										
4.	Diagnosis and treatment planning for dental										

	carious				
	lesions				
	Cross infection Protocol				
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				
8.	Cleaning/ Washing				
	of instruments	 			
9.	Packaging of				
	instruments	 			
10.	Sterilization				
	monitoring Overification of				
	(Verification of sterility using				
	physical,				
	chemical, and				
	biological				
	indicators)				
11.	Sterilization of	 			
<b>* * * *</b>	dental handpieces,				
	burs, and other				
	restorative				
	materials				
12.	Needle stick injury				
	prevention and				

1	Immediate	1		1	1	I		
	Management							
13.	Disinfection of							
10.	dental units							
		s and Materials						
14.	Identification of							
	hand instruments							
	(cutting, non-							
45	cutting)							
15.	Identification of							
	powered/rotary							
16.	cutting equipment Hazards with							
10.	cutting instruments							
	and their							
	Prevention							
17.	Identification and							
17.	manipulation of							
	dental materials							
	(Amalgam,							
	Composite, GIC,							
	Calcium hydroxide,							
	Etchant, Bonding							
	agent)							
18.	Amalgam waste							
	disposal							
	Rubber Da	m Application						
19.	Patient counselling							
	for rubber dam							
	Application						 	
20.	Anterior segment							
	isolation							
21.	Premolar isolation		04					
22.	Fractured tooth		01					
	isolation							
23.	Molar isolation							

0.4					1		
24.	Single tooth						
	Isolation						
25.	Rubber Dam						
	application						
	Matrix Sy	stem					
26.	Placement of tofflemire retainer according to clinical						
	situation+						
27.	Placement of palodent retainer according to clinical situation		01				
28.	Placement of mylar strip matrix for Anterior Composite Restoration;						
	identification of						
	other matrix						
	systems available						
	Pulp Prote	ection					
29.	Vital therapy						
	procedures						
30.	Application of liner/						
	base before		01				
	restoration		01				
	(according to						
	clinical situation)						
	Amalgam R	estorations					
31.	Conservative Class I						
1	Cavity Preparation						
	for Amalgam						
1	Restoration						
32.	Extensive Class I						
	Amalgam						
1	Restoration		08				

Class II Cavity								
Restoration								
Amalgam								
Composite Re	estorations							
Bonding protocol								
before Composite								
Restoration (Etch &								
Rinse, Self-Etch)								
Cavity preparation								
and restoration for								
Class I Composite								
Cavity preparation								
Class Il Composite		09						
Cavity preparation								
and restoration for								
Class III Composite								
and restoration for								
Class V Composite								
	Bonding protocol before Composite Restoration (Etch & Rinse, Self-Etch)Cavity preparation and restoration for Class I CompositeCavity preparation and restoration for Class II CompositeCavity preparation and restoration for Class II CompositeCavity preparation and restoration for Class II CompositeCavity preparation and restoration for Class III CompositeCavity preparation and restoration for Class III CompositeCavity preparation and restoration for Class IV compositeCavity preparation and restoration for Class IV CompositeCavity preparation and restoration for Class IV composite	Preparation for Amalgam RestorationImage: state of the state of	Preparation for Amalgam RestorationImage: constraint of the sector Amalgam and the sector of the sector o	Preparation for Amalgam RestorationImage: set of the se	Preparation for Amalgam Restoration       Image: Construct on the second	Preparation for Amalgam Restoration       Image: Construct on the second	Preparation for Amalgam Restoration       Image: Construct on the second	Preparation for Amalgam Restoration       Image: Constraint of the second

# **ENDODONTIC CLINICAL LEARNING OBJECTIVES (FINAL YEAR)**

Sr #	LEARNING OBJECTIVES	PERFORMED	NOT PERFORMED	DAYS	MODE ASSESSN		EVALUATI ON	EVA	LUATE	CAN PERFORM CONFIDENTLY	CANNOT PERFORM CONFIDENTLY
	Identificati		Clinical test	Viva	Test result & student feedback	Faculty	Teaching assistant				
1.	Burs (Round diamond bur, tapered diamond bur, Endo Z bur)										
2.	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			1							
11.	Apex locator			1							
12.	Rotary files	+		1							
13.	Endomotor	+		1							
14.	Obtura			-							
	Radiogra	aphic Interpretat									

15.	Internal & External							
101	resorption							
16.	Apical Periodontitis							
17.	Pulp stone							
18.	Dental Trauma/VRF							
	Steps o	f root canal pre	paration					
19.	Pulp space Anatomy							
20.	Prepare access Cavity			1				
21.	Determination of working length			-				
22.	Cleaning and			2				
	Shaping of the root Canal							
23.	Root canal			2				
	obturation Patient C	ouncolling 9 M	nagoment					
		ounselling & Ma	anagement					
24.	Fractured File							
25.	Ledge Formation							
26.	Perforations							
27.	Over & Under							
20	obturated canal							
28.	Instrument aspiration/			2				
	Ingestion							

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		
					test		feedback		ussistant		
			I	[			IEEUDACK				
1.	History taking										
	and informed Consent										
2.	Clinical										
۷.	examination										
3.	Radiographic										
0.	interpretation										
4.	Assess and										
	formulate a										
	treatment plan										
	for			2							
-	Crown/Bridge										
5.	Evaluation and selection of										
	abutments for a										
	Bridge										
6.	Communicatio										
	n with the										
	patient										
	according to										
	the clinical										
	scenarios										
	Clinical	procedures for	crown								
7.	Shade										
	matching										

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							
	management							
	and impression							
	Making							
		endodontically	treated tooth					
14.	Identification							
14.	and selection of							
	post							
15.	Preparation for			1				
15.	post			Ŧ				
16.	Cementation of							
10.	post							
		es for metal cer	amic crown					
17.	Wax up							 
18.	Investment							
19.	Casting			1				
20.	Porcelain							
_	layering and							
	baking							
	Steps in	n placement of (	Crown					
21.	Temporization							
21.	1 cmp of 12acion							

22.	Identification of temporary crown/bridge			1				
23.	Try-in and cementation of Crown							
		Bridges						
24.	Identification of components of a bridge							
25.	Identification of resin bonded bridge			1				
26.	Selection of bridge design							
27.		ical Test and Viv	<i>r</i> a	1				

## **CLINICAL DUTIES AND REQUIREMENTS**

- Each student will spend a total of 09 weeks approximately in final year in the Department of Operativedentistry
- Each student will be required to:

#### <u>Third Year BDS</u>

#### **Restorative Clinical**

#### **Exercises**

Sr No.	Pre-clinical performance	No of Practices
1	Amalgam class I (mandibular molars)	02
2	Amalgam class I (maxillary molars)	02
3	Amalgam class II (mandibular molars)	02
4	Amalgam class II maxillary molar	02
5	Composite restoration (Maxillary Anterior)	01
6	Composite restoration (Mandibular Molar)	01
7	GIC mixing	01
8	Rubber Dam Application	01

#### Final Year BDS

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

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

## PRESENTATIONS TOPICS FOR FINAL YEAR BDS

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) <sub>2</sub> & 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

# IV. DEPARTMENTAL TIME TABLE

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

# V. <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

# VI. <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 (latestedition)
- 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

# VII. ASSESSMENT FORMATS

### 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 formarks 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 4<sup>th</sup> 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.

## **INSTRUCITIONS**

#### <u>"ALL STUDENTS MUST FOLLOW THE STANDARD PROTOCOL REGARDING CROSS INFECTION</u> <u>CONTROL INTHE 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 theirrespective groups.
- Students should keep their working table clean and do not damage any parts of the table. If anydamage 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 collegeand the staff is not responsible.
- Attendance is compulsory. If anybody has shortage of attendance, appropriate action will be takenaccording to the college rules and regulations.
- Demonstrations will not be repeated for absent student regardless of reason of absence

# VIII. <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)

# IX. <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.