



Institute of Dentistry,

CMH Lahore Medical College

Study Guide

Department of Pre-Clinical Operative Dentistry

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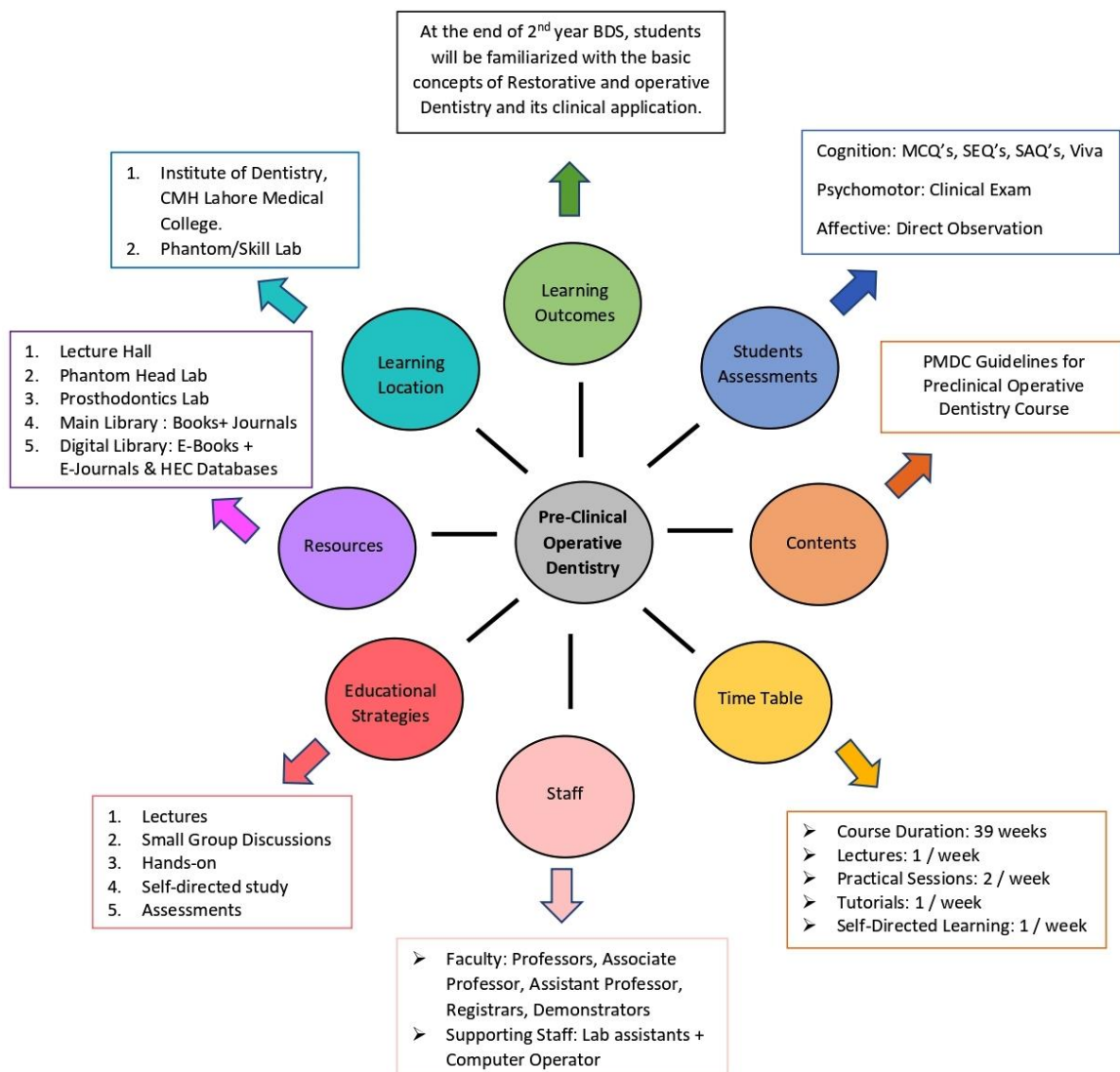
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INTRODUCTION TO PRE-CLINICAL OPERATIVE DENTISTRY

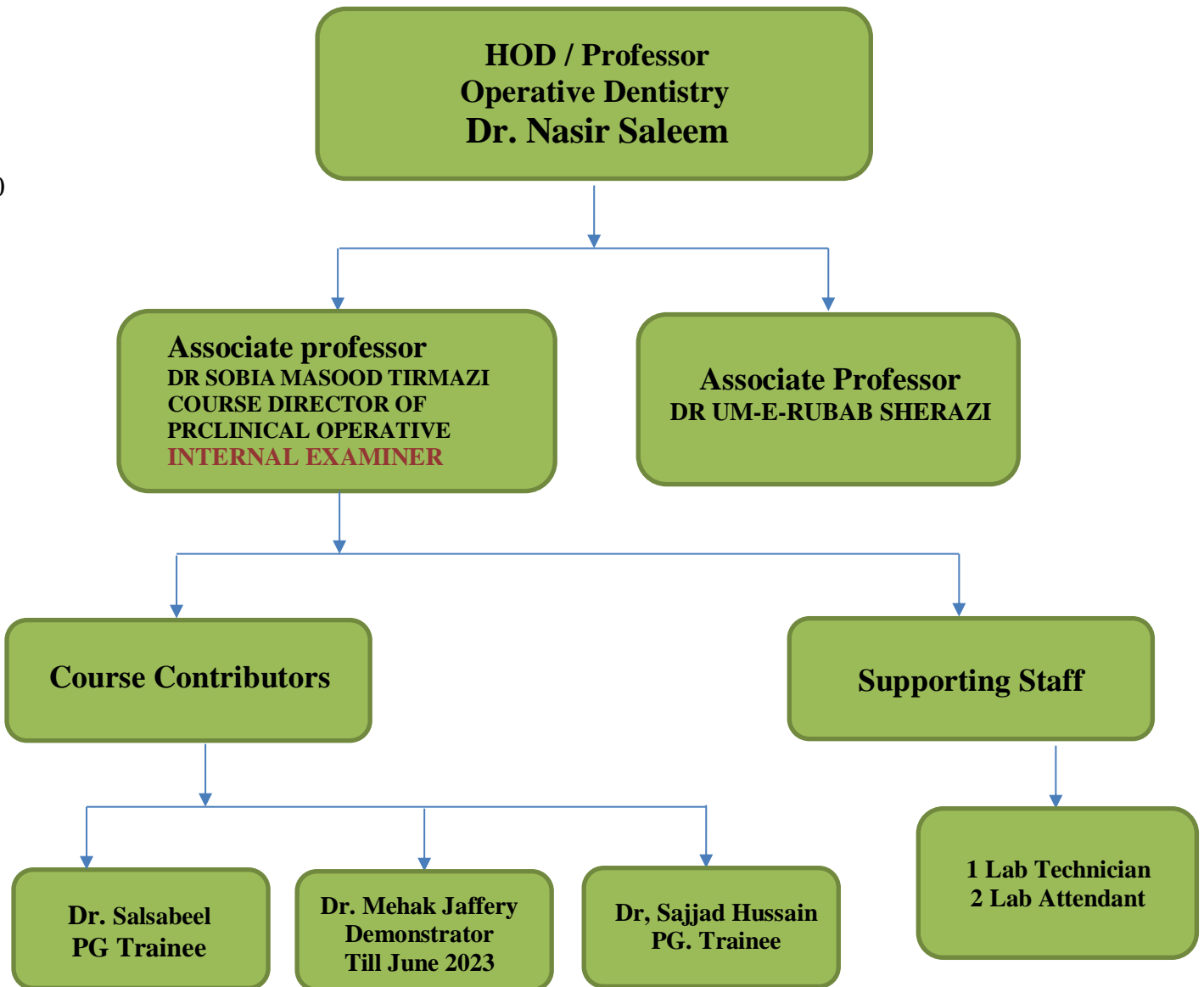
This is a subject which includes the knowledge of Etiology, diagnosis, prevention and treatment of the problems and conditions of natural teeth vital or non-vital so as to preserve natural dentition and to restore them to the best state of health, function and aesthetics. It has been recognized as the foundation of dentistry and base from which most other aspects of dentistry evolved. This is one year course made up of Didactic and preclinical skills as an introduction to Operative Dentistry.

Curricular Map of Pre-clinical Operative Dentistry



ORGANOGRAM

DEPARTMENT OF PRECLINICAL OPERATIVE DENTISTRY



RESOURCES

1. Teaching resources
2. Supporting staff
3. Infrastructure resources

Teaching resources

Sr. #.	Faculty Name	Designation as per PM & DC certificate	Qualification
1	Prof. Dr. Nasir Saleem	Professor	BDS, FCPS, MSc
2	Dr. Umm e Rubab Sherazi	Associate professor	BDS, FCPS
3	Dr. Sobia Masood Tirmazi	Associate professor	BDS, FCPS
4	Dr. Mahak Jaffery	Demonstrator	BDS
5	Dr. Sajjad Hussain	PG Trainee	BDS
6	Dr. Salsabeel Amjad	PG Trainee	BDS

Supporting Staff

Pre-Clinical Operative Dentistry		
1	Waqas	Computer operator
2	Zulfiqar Ali	Lab attendant
3	Muhammad Asif	Lab attendant

Labortary Technician Staff:

Pre- Clinical Operative Dentistry		
1	<u>Shakeel</u>	Lab Technician

Infrastructure resources

Sr. #.	Infrastructure Resources	Quantity
1	Lecture hall	1
2	Phantom Head Labs <ul style="list-style-type: none">• Lab A- Phantom heads• Lab B- Phantom heads	2 <ul style="list-style-type: none">• 20• 20
3	Reception	1
4	Mini Library	1
5	Staff Room	1
6	Dental stores	1

TEACHING AND LEARNING STRATEGIES

Multiple educational methods will be used comprising of self-study, interactive lectures, group discussions, and practical skill sessions.

(i) **Methods for achieving cognitive objectives.**

- Interactive lectures using audio visual aids on power point presentation
- Group discussions in form of large group and small group
- Hands on demonstrations
- Tutorials
- Collaborative learning
- Self-study and reading from learning resources

(ii) **Methods for achieving psychomotor objectives.**

- Phantom Lab Training Sessions

(iii) **Methods for achieving affective objectives.**

- Interaction with peers, group members, teachers, support staff etc.
- Group discussions (small and large)
- Oral presentations by students

LEARNING METHODOLOGIES

The following teaching / learning methods are used to promote better understanding:

- Interactive Lectures
- Small Group Discussion
- Case- Based Learning
- Skills session
- E- Learning
- Self- Directed Study

INTERACTIVE LECTURES

In large group, the lecturer introduces a topic or common clinical conditions and explains the underlying phenomena through questions, pictures, videos of patients, interviews, exercise etc. students are actively involved in the learning process.

SMALL GROUP DISCUSSION (SGD)

This format helps students to clarify concepts acquire skills or attitudes. Sessions are structured with the help of specific exercise such as patient case, interviews or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials and self- study. The facilitator role is to ask probing questions, summarize, or rephrase to help clarify concepts.

CASE- BASED LEARNING

A small group discussion format where learning is focused around a series of questions based on a clinical scenario. Students' discuss and answer the questions applying relevant knowledge gained in clinical and basic health sciences during the module.

SKILL LAB SESSION

Skills relevant to respective module are observed and practiced where applicable in skills laboratory.

SELF DIRECTED STUDY

Students' assume responsibilities of their own learning through individual study, sharing and discussing with peer, seeking information from Learning Resource center, teachers and resource persons within and outside the college. Students can utilize the time within the college scheduled hours of self- study.

E- LEARNING

E-Learning is a strategy by which learning occurs through the utilization of electronic media, typically the Internet and Digital Library Recourses. The basic aspects of medical professionalism and ethics will be addressed through E- Learning courses.

CURRICULUM IMPLEMENTATION

Curriculum implementation refers to putting into practice the official document including course content, objectives, learning and teaching strategies. Implementation process helps the learner to achieve knowledge, skills and attitudes required of the learning tasks. Learners are a pertinent component of the implementation process. Implementation occurs when the learner achieves the intended learning experiences, knowledge, ideas, skills and attitudes which are aimed to make the learner an effective part of the society. Curriculum implementation also refers to the stage at which curriculum is put into effect. There has to be an implementing agent as well. Teacher is an important part of this process and implementation of the curriculum is the way the teacher selects and utilizes various components of the curriculum. Implementation occurs when the teacher's formulated course content, teacher's personality and teaching and learning environment interact with the learners. Therefore, curriculum implementation is how the officially planned course of study is translated and reflected by the teacher into schemes of work, lesson plans, syllabus and resources are effectively transferred to the learners. Curriculum implementation can be affected by certain factors such as teachers, learners, learning environment, resource materials and facilities, culture and ideology, instructional supervision and assessments.

a. Lectures Delivered by:

- Prof. Dr. Muhammad Nasir Saleem (Professor)
- Dr. Sobia Masood Tirmazi (Associate Professor)
- Dr. Umm E Rubab Sherazi (Associate professor)

b. Contributors for practicals and small group discussion sessions:

- Dr. Mehak Jaffery
- Dr. Sajjad Hussain
- Dr. Salsabeel

c. Lecture hall Attendant: one attendant is nominated by Medical Education Department

d. Computer assistant: one computer assistant nominated by the Medical Education Department

Course Outline

Time frame

Course duration: 38 weeks

Lectures: **Thursday:** (8:00 am to 8:50 am)

Practical: **Wednesday:** (8:50 am to 11:25 am)

Thursday: (8:50 am to 11:25 am)

Study hours of lecture/week → **50 min**

Study hours practicals → **155 min/week**

Tutorial → **60 mins/week**

Self-directed study → 1 hour per week from 1400hrs to 1500 hrs on every Friday

Total study time → **265 mins/week**

Total Contact weeks according to curriculum → **38 weeks**

In 38 weeks → **38x265=10,070 min**

Contact Time in Hours → **10,070/60= 167.8**

In hours = 168 hours/38 weeks

- According to Latest 2nd year BDS Curriculum (2020-2021)

Required contact hours for Pre-clinical Operative Dentistry = 135 hours

Required contact hours for Pre-clinical Prosthodontics = 135 hours

Table of specification for teaching, learning objectives and assessment

At the end of 2nd year BDS the students will be able to:

TOPIC	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT METHOD				
				Practicals	OSPE	NUMS MCQs	NUM S SEQs	WEIGH TAGE %
PRE-CLINICAL OPERATIVE DENTISTRY								
1. Introduction to Operative dentistry Time allocation: lecture: (50 min.)					X	X		
Definition of operative dentistry	Dr. Sobia Masood	C	Interactive lecture					
Discuss the factors affecting operative treatment		C	Interactive lecture/ Case-based discussion					
Explain the future demand of operative dentistry		C	Interactive lecture/ Case-based discussion					
2. Introduction to armamentarium Time allocation: lecture: (2hrs 30 min.) Practical: (X	X	X	
Identify various hand instruments for cutting	Dr. Sobia Masood	CPA	Interactive lecture/ practical/ Small group discussion					
Discuss advantages of various hand cutting instruments		CPA	Interactive lecture / practical/ Small group discussion					
Discuss disadvantages of various hand cutting instruments		CPA	Interactive lecture/ practical/ Small group Discussion					
Define a basic set of instruments appropriate for diagnosis		CPA	Interactive lecture/ Small group discussion/ practical					

Identify powered cutting instruments		CPA	Interactive lecture/ Case-based discussion/ practical					
Discuss advantages of powered cutting instruments		C	Interactive lecture/ Case-based discussion					
Discuss disadvantages of powered cutting instruments		C	Interactive lecture/ Case-based discussion					
Discuss different cutting mechanics		C	Interactive lecture					
Explain various techniques of handling instruments		CPA	Interactive lecture/ Case-based discussion/ practical					
Discuss hazards with cutting instruments and their prevention		C	Interactive lecture/ Case-based discussion					
Rubber dam and its application					X	X	X	
Introduction to isolation methods		CPA	Interactive lecture / practical					
Enlist goals of isolation		C	Interactive lecture					
Enlist advantages of rubber dam	Dr. Sobia Masood	C	Interactive lecture					
Enlist disadvantages of rubber dam		C	Interactive lecture					
Explain the components of rubber dam kit		C	Interactive lecture/ practical/ Small group Discussion					

Explain the procedure to apply rubber dam		CPA	Interactive lecture/ Small group discussion / practical					
Explain different techniques to apply rubber dam		CPA	Interactive lecture/ Small group discussion / practical					
Identify different types of rubber dam sheet		CPA	Interactive lecture/ practical					
demonstrate methods of isolation other than rubber dam		CPA	Interactive lecture/ Small group discussion/ practical					
3. Dental Cariology								
Time allocation: lecture: (5hrs.) Practical: (10)					X	X	X	
Define dental caries	Dr. Sobia Masood Tirmazi	C	Interactive lecture/ case-based discussion					
Discuss different etiological factors of dental caries		C	Interactive lecture/ case-based discussion					
Discuss the classification of dental caries		C	Interactive lecture/ Small group discussion					
Discuss clinical characteristics of normal and altered enamel		C	Interactive lecture/ Small group discussion					
Discuss different zones of enamel caries		C	Interactive lecture					
Discuss different zones of dentinal caries		C	Interactive lecture					
Describe different dentinal reactions to caries		C	Interactive lecture					

Identification of risk factors		C	Interactive lecture					
Enlist the methods of caries treatment by medical model		CPA	Interactive lecture/ Small group discussion/ practical					
Discuss different treatment strategies		C	Interactive lecture/ Small group Discussion					
Discuss clinical considerations in caries prevention		CPA	Interactive lecture/ Small group discussion					
4. Principles of cavity preparation Time allocation: lecture: (12hrs.) Practical: (30hrs.)					X	X	X	
Define tooth preparation	Dr. Sobia Masood	C	Interactive lecture/ case-based discussion					
Discuss the need for a restoration		CPA	Interactive lecture/s Small group discussion/ practical					
Enlist the classification of tooth preparation		CPA	Interactive lecture/ Small group discussion/ practical					
Discuss the objectives of tooth preparation		C	Interactive lecture					
Enlist and explain the stages and steps of tooth preparation		CPA	Interactive lecture/ Small group discussion/ practical					
Enlist the factors to be considered before tooth preparation		CPA	Interactive lecture/ Small group discussion/ practical					

<p>Explain following terminologies</p> <ol style="list-style-type: none"> a. Simple, compound and complex tooth preparation b. Tooth preparation walls c. Tooth preparation angles d. Dentinoenamel junction e. Cementoenamel junction f. Enamel margin strength 		CPA	Interactive lecture/ case-based discussion/ Small group Discussion / practical					
<p>Class I cavity preparation for Amalgam restoration</p>				X	X	X	X	
<ul style="list-style-type: none"> • Simple class I cavity preparation <ol style="list-style-type: none"> a. Enlist steps of cavity preparation b. Write down different dimensions of cavity preparation <p>Explain the restorative techniques</p>	Dr. Sobia Masood.		Interactive lecture/ small group discussion/ practical					

<ul style="list-style-type: none"> Class I occluso-lingual preparation a. Enlist steps of cavity preparation b. Write down different dimensions of cavity preparation <p>Explain the restorative techniques</p>			Interactive lecture/ small group discussion/ practical					
Class II cavity preparation for Amalgam restoration				X	X	X	X	
Enlist steps of cavity preparation	Prof. Dr. Nasir Saleem	CPA	Interactive lecture/ Small group discussion/ practical					
Write down different dimensions of cavity preparation		CPA	Interactive lecture/ Small group discussion/ practical					
Explain the restorative techniques		CPA	Interactive lecture/ Small group discussion/ practical					
Explain the importance of bevel		CPA	Interactive lecture/ Small group discussion/ practical					
Explain the importance of reverse S curve		CPA	Interactive lecture/ Small group discussion/ practical					

Class III cavity preparation for composite restoration				X	X	X	X	
Give classification of class III cavity design	Dr. Rubab Sherazi	CA	Interactive lecture/ case-based discussion					
Explain different approaches for cavity preparation		C	Interactive lecture/ Small group Discussion					
Enlist indications of each approach		C	Interactive lecture/ case-based discussion					
Enlist contraindications of each approach		C	Interactive lecture/ case-based discussion					
Explain the importance of conventional class III type		C	Interactive lecture/ Small group Discussion					
Explain the importance of Beveled class III type		CA	Interactive lecture/ Small group Discussion					
Explain the importance of modifies class III type		CA	Interactive lecture/ Small group Discussion					
Class IV cavity preparation for composite restoration				X	X	X	X	
Give classification of class IV cavity design		CA	Interactive lecture/ Small group Discussion					
Explain different approaches for cavity preparation		CPA	Interactive lecture/ Small group Discussion					

Enlist contraindications of each approach	Dr. Rubab Sherazi	C	Interactive lecture/ case-based discussion					
Enlist indications of each approach		C	Interactive lecture/ case-based discussion					
Explain the importance of conventional class IV type		C	Interactive lecture/ Small group Discussion					
Explain the importance of Beveled class IV type		CPA	Interactive lecture/ Small group Discussion					
Explain the importance of modified class IV type		CPA	Interactive lecture/ Small group discussion					
Class V cavity preparation for composite	Dr. Sobia Masood							
Explain the importance of conventional class V type		C	Interactive lecture/ case-based discussion					
Explain the importance of Beveled class V type		CPA	Interactive lecture/ case-based discussion					
Explain the importance of modified class V type		CPA	Interactive lecture/ Small group discussion					
Enlist secondary retentive features of class V cavity design		CPA	Interactive lecture/ Small group discussion					
Explain the restorative techniques		CPA	Interactive lecture/ Small group discussion					

5. Matrix and Retainer Systems Time allocation: lecture: (5hrs.) Practical: (10hrs.)					X	X	X	
Define retainer	Dr. Sobia Masood	C	Interactive lecture					
Give classification of matrix and retainer systems		CPA	Interactive lecture/ case-based discussion/ practical					
Explain different designs of matrix and retainer systems		CPA	Interactive lecture/ Small group discussion/ practical					
Enlist indications of each system		C	Interactive lecture/ case-based discussion					
Enlist advantages of each system		C	Interactive lecture/ case-based discussion					
Enlist disadvantages of each system		C	Interactive lecture/ case-based discussion					
6. Liners and bases Time allocation: lecture: (2hrs.) Practical: (15hrs.)					X	X	X	
Define liners	Dr. Rubab Sherazi	C	Interactive lecture					
Define bases		C	Interactive lecture					
Differentiate between liners and bases		C	Interactive lecture/ Small group Discussion					
State the objectives of liners and bases		C	Interactive lecture					
Enlist different types of liners and bases		C	Interactive lecture/ Small group Discussion					

Enlist advantages of each type of liners and bases		C	Interactive lecture/ case-based discussion					
Discuss clinical considerations of all types of liners and bases		CPA	Interactive lecture/ Small group discussion / practical					
Demonstrate application of liner and base in a cavity design		CPA	Interactive lecture/ Small group discussion/ practical					

7. Introduction to restorative materials					X	X	X	
Time allocation: lecture (4hrs.) Practical (10hrs.)								
Define terminologies Amalgam, Composites, GIC	Dr. Rubab Sherazi	C	Interactive lecture/ case-based discussion					
Explain classification of amalgam, composite		CPA	Interactive lecture/ Small group discussion / practical					
Explain their composition, structure and properties		C	Interactive lecture					
Give clinical considerations of different materials		CPA	Interactive lecture/ case-based discussion/ practical					
Enlist indications of amalgam, composites and GIC		C	Interactive lecture/ case-based discussion/ practical					
Enlist contraindications of amalgam, composite and GIC		C	Interactive lecture/ case-based discussion/ practical					
Enlist advantages of amalgam, composite and GIC		C	Interactive lecture/ case-based discussion					



Pre-Clinical Operative Dentistry
2nd Year BDS
Lecture Schedule 2023
Venue: Lecture Hall J

Sr. #	Date	TOPIC	NO OF LECTURES	INSTRUCTOR
BLOCK I (1- 13 Weeks) 23/1/2023 to 20/04/2023				
1	26/1/2023	Introduction to Operative Dentistry / Pre-Clinical	1	Dr. Sobia Masood
2	2/2/2023	Introduction to dental Instruments and equipment	1	Dr. Sobia Masood
3	9/2/2023	Sterilization & Disinfection of dental instruments	1	Dr. Rubab Shirazi
4	16/2/2023	Role of Isolation in Dentistry	1	Dr. Sobia Masood
5	23/2/2023	Components of rubber dam and its application	1	Dr. Sobia Masood
6	27/2/2023 to 3/3/2023	SPORTS WEEK		
7	2/3/2023	1ST CLASS TEST	Dr. Sobia Masood	
8	9/3/2023	Dental Caries etiology, Classification, Radiographic appearance, histologic features (Part I)	1	Dr. Sobia Masood
9	16/3/2023	Dental Caries etiology, Classification, Radiographic appearance, histologic features (Part II)	1	Dr. Sobia Masood
10	20/3/2023 to 26/3/2023	SPRING HOLIDAYS		
11	30/3/2023	Diagnosis of Dental Caries	1	Dr. Sobia Masood
12	6/4/2023	Dental Caries, Management - Part I (Prevention)	1	Dr. Sobia Masood
13	13/4/2023	Dental Caries, Management - Part II (Treatment)	1	Dr. Sobia Masood
14	14/4/2023 to 20/4/2023	BLOCK I EXAMS		
15	20/4/2023	Exam Pre-Clinical Operative / Pre-Clinical Prosthodontics	Dr. Sobia Masood	
BLOCK II (14- 30 Weeks) 21/4/2023 to 21/8/2023				
16	24/4/2023 to 26/4/2023	EID UL FITR		
17	27/4/2023	Pits & Fissure sealants	1	Dr. Sobia Masood
18	4/5/2023	Principles of Cavity Preparation Part I	1	Dr. Rubab Shirazi
19	11/5/2023	Principles of Cavity Preparation Part II	1	Dr. Sobia Masood

20	18/5/2023	Class I Cavity Preparation for Amalgam (Mandibular Premolar)	1	Dr. Sobia Masood
21	25/5/2023	Class I Cavity Preparation for Amalgam (Mandibular Molars)	1	Dr. Sobia Masood
22	1/6/2023	Class I Cavity Preparation for Amalgam (Max. Molars)	1	Dr. Sobia Masood
23	8/6/2023	2nd CLASS TEST		Dr. Sobia Masood
24	15/6/2023	Liners and bases application	1	Dr. Rubab Shirazi
25	22/6/2023	Class II Cavity Preparation for Amalgam (Part I) Pre-Molar	1	Dr. Nasir Saleem
26	28/6/2023 to 30/6/2023	EID UL ADHA		
27	6/7/2023	Class II Cavity Preparation for Amalgam (Part II) Mand. Molar	1	Dr. Nasir Saleem
28	13/7/2023	Class II Cavity Preparation for Amalgam (Part III) Max. Molar	1	Dr. Nasir Saleem
29	20/7/2023	Matrix bands & Retainer System	1	Dr. Rubab Shirazi
30	24/7/2023 to 18/8/2023	SUMMER VACATIONS		
32	21/8/2023 to 25/8/2023	BLOCK II EXAMS		
33	24/8/2023	Exam Preclinical operative & Prosthodontics (Theory)	Dr. Sobia Masood	
34	31/8/2023	Exam Preclinical operative & Prosthodontics (Practical & Viva)	Dr. Sobia Masood	
BLOCK III (31-46 Weeks) 4/9/2023 to 3/12/2023				
35	7/9/2023	Class III Cavity Preparation for Composite	1	Dr. Rubab Shirazi
36	14/9/2023	Class IV Cavity Preparation for Composite	1	Dr. Rubab Shirazi
37	21/9/2023	Class V Cavity Preparation for Composite	1	Dr. Rubab Shirazi
38	28/9/2023	Class VI Cavity Preparation for Composite	1	Dr. Rubab Shirazi
39	5/10/2023	Restorative Materials (Dental Amalgam)	1	Dr. Rubab Shirazi
40	12/10/2023	Restorative Materials (Glass Ionomers)	1	Dr. Sobia Msood
41	19/10/2023	Restorative Materials (Dental Composite)	1	Dr. Sobia Msood
42	26/10/2023	3RD CLASS TEST		Dr. Sobia Masood
43	2/11/2023	REVISION LECTURE CARIOLOGY		Dr. Sobia Masood
44	9/11/2023	REVISION LECTURE PRINCIPLES OF CAVITY PREP.		Dr. Sobia Masood

45	13/11/2023 to 19/11/2023	Prep Leave for Pre-Annual Exam
46	20/11/2023 to 3/12/2023	Pre-Annual Exam
47	24/11/2023	Pre-clinical Operative/ Pre-clinical Prosthodontics Theory Exam
48	27, 28, 29, 30 Nov 01 Dec 2023	Pre-clinical Operative/ Pre-clinical Prosthodontics Practical Exam
49	4/12/2023 to 25/12/2023	Prep Leave for Annual Exam
50	26/12/2023 Onward	NUMS University 2nd Annual Exams



**Pre-Clinical Operative Dentistry
2nd Year BDS (2023)
Phantom Head Lab Demonstration Schedule**

Venue: Phantom Head Lab

Days and Timing: Wednesday (08:50 am to 11:25 am)

Thursday (08:50 am to 11:25 am)

Date	Topic	Instructor	Contributors	Batches
BLOCK I 23-01-2023 to 20-04-2023 (13 x Weeks)				
25/1/2023	Introduction to Instruments & Pt. Positioning	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
26/1/2023	Introduction to Instruments & Pt. Positioning	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
1/2/2023	Practice Session (Introduction to Instruments & Pt. Positioning)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
2/2/2023	Practice Session (Introduction to Instruments & Pt. Positioning)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
8/2/2023	Test (Introduction to Instruments & Pt. Positioning)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
9/2/2023	Test (Introduction to Instruments & Pt. Positioning)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
15/2/2023	Isolation Methods (Rubber Dam)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
16/2/2023	Isolation Methods (Rubber Dam)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
22/2/2023	Rubber dam Application in Maxillary arch	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
23/2/2023	Rubber dam Application in Maxillary arch	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
27/2/2023 to 2/3/2023	SPORTS WEEK			
8/3/2023	Rubber dam Application in Maxillary arch	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
9/3/2023	Rubber dam Application in Mandibular arch	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B

15/3/2023	Rubber dam Application in Mandibular arch	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
16/3/2023	Rubber dam Application in Mandibular arch	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
20/3/2023 to 26/3/2023	SPRING HOLIDAY			
22/3/2023	Rubber dam Application in Maxillary arch	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
23/3/2023	PAKISTAN DAY			
29/3/2023	Rubber dam Application in Maxillary arch	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
30/3/2023	Rubber dam Application	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
5/4/2023	Rubber dam Application	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
6/4/2023	Rubber dam Application	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
12/4/2023	Lab Test (Rubber Dam Application)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
13/4/2023	Lab Test (Rubber Dam Application)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
14/4/2023 to 20/4/2023	BLOCK I EXAMS			
BLOCK II 21-04-2023 to 21-08-2023				
24/4/2023 to 26/4/2023	EID UL FITAR			
27/4/2023	Class I Cavity Preparation in Mandibular Premolars and molars	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
3/5/2023	Class I Cavity Preparation in Mandibular Premolars and molars	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
4/5/2023	Pits & Fissure Sealant	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
10/5/2023	Pits & Fissure Sealant	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
11/5/2023	Class I Cavity Preparation in maxillary molars (simple)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B

17/5/2023	Class I Cavity Preparation in maxillary molars(simple)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
18/5/2023	Class I Cavity Preparation in maxillary molars(occlusolingual)	Dr. Rubab	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
24/5/2023	Class I Cavity Preparation in maxillary molars(occlusolingual)	Dr. Rubab	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
25/5/2023	Class I Cavity Preparation Practice	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
31/5/2023	Test Class I Cavity Preparation	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
1/6/2023	Test Class I Cavity Preparation	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
7/6/2023	Liner & Bases	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
8/6/2023	Liner & Bases	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
14/6/2023	Lab Test (Liner & Bases + Class I cavity preparation in Mandibular molar and Amalgam restoration)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
15/6/2023	Lab Test (Liner & Bases + Class I cavity preparation in Mandibular molar and Amalgam restoration)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
21/6/2023	Class I dental Amalgam restoration in Mandibular Premolar and molars	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch A
22/6/2023	Class I dental Amalgam restoration in Mandibular Premolar and molars	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain	Batch B
28/6/2023 to 30/6/2023	EID UL ADHA			
5/7/2023	Class II Cavity Preparation	Dr. Nasir	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
6/7/2023	Class II Cavity Preparation	Dr. Nasir	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
12/7/2023	Practice Session (Class II Cavity Preparation)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
13/7/2023	Practice Session (Class II Cavity Preparation)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
19/7/2023	Matrix band & Retainer	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
20/7/2023	Class II Amalgam restoration with retainer	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B

24/7/2023 to 18/8/2023	SUMMER VACATIONS			
28/8/2023 to 01/9/2023	BLOCK II EXAMS			
31/8/2023	Exam Preclinical Operative & Prosthodontics (Practical & Viva)			
BLOCK III 04-09-2023 to 03-12-2023				
6/9/2023	Class III cavity preparation with Composite Restoration	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
7/9/2023	Class III cavity preparation with Composite Restoration	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
13/9/2023	Class IV cavity preparation with composite Restoration	Dr. Nasir	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
14/9/2023	Class IV cavity preparation with composite Restoration	Dr. Nasir	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
20/9/2023	Practice Session (Class III & Class IV composite restoration)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
21/9/2023	Practice Session (Class III & Class IV composite restoration)	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
27/9/2023	Class V cavity preparation with restoration	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
28/9/2023	Class V cavity preparation with restoration	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
4/10/2023	Lab Test	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
5/10/2023	Lab Test	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
11/10/2023	Class VI cavity Preparation and restoration	Dr. Rubab	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
12/10/2023	Class VI cavity Preparation and restoration	Dr. Rubab	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
18/10/2023	Dental Amalgam restoration of Occlusolingual cavity in Maxillary molar with barton matrix	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
19/10/2023	Dental Amalgam restoration of Occlusolingual cavity in Maxillary molar with barton matrix	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
25/10/2023	Pits & Fissure Sealant	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
26/10/2023	Pits & Fissure Sealant	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
1/11/2023	Polishing of Dental Amalgam restorations	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
2/11/2023	Polishing of Dental Amalgam restorations	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B

8/11/2023	Revision	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch A
9/11/2023	Revision	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain	Batch B
13/11/2023 to 19/11/2023	Perp Leave for Pre-Annual Exam			
20/11/2023 to 3/12/2023	Pre-Annual Exam			
24/12/2023	Pre-Clinical Operative/ Pre-Clinical Prosthodontics Written Exam			
28,29,30 Nov to 1 Dec 2023	Pre-Clinical Operative/ Pre-Clinical Prosthodontics Practical Exam			
4/12/2023 to 25/12/2023	Perp Leave for Annual Exam			
26/12/2023 Onward	Professional Exam Pre-Clinical Operative Dentistry			



Pre-Clinical Operative Dentistry

2nd Year BDS (2023)

Tutorial Schedule

Venue: Phantom Head Lab

Days and Timing: Monday (1400hrs to 1500hrs)

Date	Topic	Instructor	Contributors
BLOCK I 23-01-23 to 20-04-23 (13 x weeks)			
23/1/2023	Introduction to Instruments	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain
6/2/2023	Isolation in Dentistry	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain
20/2/2023	Rubber Dam application	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain
27/2/2023 to 2/3/2023	Sports week		
13/3/2023	Rubber Dam application	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain
20/3/2023 to 26/3/2023	Spring Holidays		
23/3/2023	23rd March Holiday		
3/4/2023	Diagnosis of Dental caries	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain
14/4/23 to 20/4/23	BLOCK - I EXAM		
BLOCK II (17x weeks) (21 April - 21 August)			
24/4/23 to 26/4/23	EID UL FITAR		
8/5/2023	Management of Dental caries	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain
22/5/2023	Pits & Fissure Sealant	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain
5/6/2023	Principles of class I cavity preparation	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain
19/6/2023	Class I cavity preparation	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Mehak Jaffery Dr. Sajjad Hussain
26/6/23 to 30/6/23	EID UL ADHA		

10/7/2023	Liner & bases applications	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain
24/7/23 to 18/8/23	SUMMER VACATIONS		
21/8/23 to 25/8/23	Block Exam II		
BLOCK III (15 x weeks) 04-09-23 to 03-12-23			
4/9/2023	Dental Amalgam restorations	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain
18/9/2023	Class II cavity preparation	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain
2/10/2023	Class III cavity preparation	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain
16/10/2023	Class IV cavity preparation	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain
30/10/2023	Revision	Dr. Sobia Masood	Dr. Salsabeel Amjad Dr. Sajjad Hussain
13/11/23 to 19/11/23	Prep Leave for Pre-Annual Exam		
20-11-23 to 03-12-23	Pre-Annual Exam		
24/12/2023	Pre-clinical Operative/ Pre-clinical Prosthodontics Written Exam		
27/11/23 to 01/12/23	Pre-clinical Operative/ Pre-clinical Prosthodontics Practical Exam		
04/12/23 to 25/12/23	Prep Leave for Annual Exam		
26/12/23 onwards	NUMS University Annual Exam		

LEARNING RESOURCES

<u>Sr. #.</u>	<u>Topics</u>	<u>Resources</u>
<u>1</u>	Introduction to Operative dentistry	Sturdevant's Art and science
<u>2</u>	Introduction to armamentarium	Sturdevant's Art and science
<u>3</u>	Rubber dam and its application	Sturdevant's Art and science
<u>4</u>	Dental Cariology	Sturdevant's Art and science
<u>5</u>	Principles of cavity preparation	Sturdevant's Art and science
<u>6</u>	Introduction to restorative materials	Sturdevant's Art and science
<u>7</u>	Class I cavity preparation for Amalgam restoration	Sturdevant's Art and science
<u>8</u>	Class II cavity preparation for Amalgam restoration	Sturdevant's Art and science
<u>9</u>	Matrix and Retainer Systems	Sturdevant's Art and science
<u>10</u>	Class III cavity preparation for composite restoration	Sturdevant's Art and science
<u>11</u>	Class IV cavity preparation for composite restoration	Sturdevant's Art and science
<u>12</u>	Class V cavity preparation for composite	Sturdevant's Art and science
<u>13</u>	Class VI cavity preparation for composite	Sturdevant's Art and science

OTHER LEARNING RESOURCES

<u>Hands- on Activities / Practical</u>	Students will be involved in Practical sessions and hands-on activities that link with the blood module to enhance the learning
<u>Labs</u>	Utilize the lab provides the simulated learning to the specimens and models available.
<u>Skills Lab</u>	A skills lab provides the simulated learning experience to learn the basic skills and procedures.
<u>Videos</u>	Video familiarize the student with the procedures and protocols to assist patients
<u>Computer Lab/CSs/DVDs/ Internet Resources:</u>	To increase the knowledge, students should utilize the available internet resources and CDs/ DVDs. This will be an additional advantage to increase learning.
<u>Self-Directed Learning</u>	Self-Directed Learning is scheduled to search for information to solve cases, read through different resources and discuss among the peers and with the faculty to clarify the Concepts.

SUMMATIVE ASSESMENT METHODS AND POLICIES

Internal Assessment

- a. Weightage of internal assessment shall be 20 %, each for theory and practical, in BDS Professional Examination.
- b. The Internal Assessment shall comprise of monthly test / PBL / assignments / Clinical tests / clinical viva etc.
- c. The Internal Assessment record shall be kept in the respective department of the College / Institute and after approval of Principal, a summary as per University registration number shall be furnished to the Controller of Examinations, at least two weeks before the commencement of final examination.
- d. The result of all the class tests / tools which contribute towards IA will be displayed to the students during an academic year.
- e. The same internal assessment shall be counted both for annual and supplementary examinations. The students who are relegated, however, can improve the internal assessment during subsequent year
- f. Internal assessment tools of any subject may be changed after the approval of respective FBS

Annual Examination

- a. The weightage of Annual Examination shall be 80%, each for theory and practical, in BDS.
- b. The examination comprises of a theory paper and practical/clinical examinations as per PMC regulations and the Table of Specifications (TOS) of the University.
- c. The gap between two consecutive theory papers shall not be more than two days.
- d. The whole theory paper (Preclinical Operative & Prosthodontics) shall be of 3-hours duration, held under the arrangements of the university. It shall have two parts; 60 MCQs (60 marks) and 8 SEQs (40 marks each) for the year 2022-23. It may be changed after the approval of Academic Council.

e. Allocated time for MCQs for 2023 shall be as

20 MCQs - 20 Minutes

30 MCQs - 30 Minutes

40 MCQs - 40 Minutes

50 MCQs - 50 Minutes

f. Each MCQs shall have four distractors

g. The distribution of SAQs/SEQs as well as MCQ difficulty levels for BDS annual examinations is as under: -

Multiple Choice Question (MCQs)

- A multiple choice question (MCQ) consist of a stem that states the question or problem followed by a set of possible answers that contain an option that is best answer to the question.
- After reading the questions students should select the appropriate option from the given possible answers.
- The correct answer carries one mark and incorrect carries zero. There is no negative marking.

Internal Examiner

He/she shall be Professor and Head of Department who has been involved in teaching of the class being examined. Second preference shall be Associate/Assistant Professor who is involved in teaching of the class and posted there for one year. Third preference shall be a recognized Professor of the subject.

External Examiner

He/she shall be a Professor/Associate Professor of a recognized Medical/Dental College or at least an Assistant Professor with three years teaching experience in the relevant subject.

Conflict of Interest

No person shall serve as an examiner whose close relative (wife, husband, son, daughter, adopted son, adopted daughter, grand-son, grand-daughter, brother, sister, niece /nephew, son and daughter- in-law brother and sister- in-law, parental and maternal uncle and aunt etc.) is appearing in the examination. All examiners likely to serve as an examiner shall render a certificate in compliance to this para.

Paper Setting

- a. Each College / Institute shall forward a set of two question papers as per TOS along with the key for each subject to the Controller of Examinations, at least three months in advance of the annual examination. The question paper as a whole / a question without a comprehensive key shall not be considered towards final paper setting.
- b. The set of question papers shall be prepared by the respective Head of Department (HOD) and furnished to Controller of Examinations through Head of Institution (HOI)
- c. The Controller of Examinations shall approve the faculty for the final paper setting having fair representation of each college / institute.

Paper Assessment

- a. The Controller of Examinations shall approve the faculty for the theory paper marking, to be undertaken in the manner as deemed appropriate.
- b. The Examination Directorate shall coordinate directly with the faculty, earmarked for the paper marking
- c. A student who scores 85% and above marks in any subject shall qualify for distinction in that particular subject.
- d. A fraction in aggregate marks of a subject shall be rounded off to whole number. If it is less than 0.5 then it will be rounded off to the previous whole number while 0.5 or more will be rounded off to the next whole number.

Practical / Clinical Examinations

- a. The Controller of Examiners shall approve the faculty to serve as the internal & external examiners.
- b. The number of external and internal examiners shall be equal.
- c. One external & internal examiner each shall be marked for a group of 100 students.
- d. Candidates may be divided into groups in the clinical and practical examinations and be standardized by incorporating clinical exam
- e. Practical/clinical examination shall be held after the theory examination of the subject but in special cases, it may be held before the theory examination with the approval of

the Controller of Examinations. For the purpose of practical/clinical examination, the candidates may be divided into sub groups by the examiners.

- f. The assessment of the practical / clinical examination duly signed by internal & external examiner shall be furnished to the Controller of Examinations within one week of the conclusion of examination

Pass Marks

- a. Pass marks for all subjects less Islamic / Pakistan Studies, shall be 50 % in theory and practical, separately.
- b. Pass marks for Islamic / Pakistan Studies shall be 33 % which, however shall not be counted towards final scoring of the professional examination.
- c. No grace marks shall be allowed to any student in any examination.

Declaration of Result.

Every effort shall be made to declare the result of each examination within one month of the last practical examination or earlier.

Promotion.

No student shall be promoted to the higher classes unless he/she passes all the subjects of the previous class

Re-Totaling.

Any student may apply to the Controller of Examinations on a prescribed form along with the specified fee.

Supplementary Examination.

The interval between a supplementary examination and the previous professional examination shall not be more than two months. There shall be no special supplementary examination.

Table of Specification (TOS)***Table of specifications for Annual Professional Examination: Theory***

Marks of Written Paper	= 80	Total Time Allowed = 03 hrs
Marks of Int. Asses	=20	(including MCQs)
Max Marks	=100	(MCQs: 40%+SEQs: 40%+Internal Assessment: 20%)
Pass Marks	=50	

Paper-1: (*Marks of MCQ component shall be rationalized to 40% weightage) 60 x MCQs (1 mark each) (60 Marks) Time =60 min

Paper-2:

8x SEQs/SAQs (05 Marks Each) (40 Marks) Time = 120 min

*If a candidate obtains 50 marks in MCQs it will be rationalized as: $(50/60 \times 40 = 33.33)$

60 x MCQs (on separate sheet) (60 Marks) (Time: 60 min)

08 x SEQs/SAQs (05 marks each) (40 Marks) (Time: 2hrs)

Part A – Preclinical Prosthodontics				
01	MCQ	30 (01 mark each)	30 Marks	50 Marks
02	SEQ/SAQ	04 (05 marks each)	20 Marks	
Part B – Preclinical Operative Dentistry				
01	MCQ	30 (01 mark each)	30 Marks	50 Marks
02	SEQ/SAQ	04 (05 marks each)	20 Marks	

Practical / Viva Examination (90 Marks)

Part A – Preclinical Operative Dentistry		
01	Clinical / LAB	20 Marks
02	VIVA	20 Marks
Total		40 Marks

Part B- Pre Clinical Prosthodontics		
01	Clinical/Lab	20 Marks
02	VIVA	20 Marks
Total		40 Marks
Grand Total		
Total		80 Marks
Internal Assessment of both subjects		20 Marks
Grand total		100 Marks

Theory: Internal Assessment calculation (20 Marks)

INTERNAL ASSESSMENT - THEORY	
INTERNAL ASSESSMENT WEIGHTING: 20%	
Exams	Weightings
Attendance in Lectures:	10%
a. ≥90% = 10%	
b. 80-89% = 7%	
c. 70-79% = 5%	
End of Block/ clinical rotation (theory) Examination	45%
Continuous assessment (average score of all tests attempted after every learning session during the academic year)	20%
Pre-Annual Exam	25%
Total	100%
INTERNAL ASSESSMENT STRUCTURE - PRACTICAL	
INTERNAL ASSESSMENT WEIGHTING: 20%	
Exams	Weightings
Attendance in Practicals:	10%
a. ≥90% = 10%	
b. 80-89% = 7%	
c. 70-79% = 5%	
*End of Block/ clinical rotation (OSCE) Examination	45%
*Continuous assessment of practical/ clinical skills and attitude	20%
Pre-Annual Exam	25%
Total	100%

Table of Specification (Detailed)
BDS Curriculum Year II-2023 onward

Preclinical Operative Dentistry

Block s	Topics	Sub Topic	Number of MCQs (30)		Number of SEQs(04)
			Recall: 18	Application: 12	
I	• Fundamental of Tooth Preparation	Tooth preparation(Factors, nomenclature, classification, stages)	01		01
		Additional concepts in tooth prep			
	• Class I Cavity	Tooth prep, clinical technique, indications, contraindications, advantages, disadvantages, restorative technique		01	
		Dental Cariology	Definition, Demineralization Remineralization, Etiology of dental caries, clinical characteristics	02	
	Dental caries: Risk assessment and management, ICDAS classification		01		
	Armamentarium	Instruments(cutting and non- cutting),chair positioning	01	01	
		Isolation of operating field, Rubber Dam application/isolation, other isolation techniques	01		
	Amalgam	Introduction, setting reaction, dispensing, clinical considerations, role of every constituent of amalgam	02		01
		Mercury management, Clinical technique Class I and II amalgam restoration		01	
	Composite Restorative Material and GIC	Introduction, classification, polymerization, important properties	02		
		General considerations for composite restoration, clinical technique, common problems: causes and potential solutions, CLASS I,II,III,IV,V direct compositerestorations			

II	Class II Cavity	Tooth prep, clinical technique, indications, contraindications, advantages, disadvantages, restorative technique(According to Amalgam and posterior composites)	02	01	01
	Class III Class IV And V	Tooth prep, clinical technique, indications, contraindications, advantages, disadvantages, restorative technique, Class III,IV,V direct composite restoration	02	02	
II I	Liners and Bases	Classification, Application, Indications, contraindications, Advantages, Disadvantages	01	02	
	Pit & Fissure Sealants	Concept, Indications, Advantages, material employed, mechanism of action, clinical technique	01	02	
	Matrix and Retainer system	Definition, functions, types Matrix application for class II Universal matrix (Tofflemire matrix) Sectional matrix	02	01	
		Matrix application for composite and amalgam Mylar strip		01	
		Automatrix			
Total			30 (30 Marks)	04 (20 Marks)	

Internal Examiner

He/she shall be Professor and Head of Department who has been involved in teaching of the class being examined for at least six months and has delivered 50% of the total lectures. Second preference shall be Associate/Assistant Professor who is involved in teaching of the class and posted there for one year. Third preference shall be a recognized Professor of the subject.

External Examiner

He/she shall be a Professor/Associate Professor of a recognized Medical/Dental College or atleast an Assistant Professor with three years teaching experience in the relevant subject.

Conflict of Interest

No person shall serve as an examiner whose close relative (wife, husband, son, daughter, adopted son, adopted daughter, grand-son, grand-daughter, brother, sister, niece /nephew, son and daughter- in-law brother and sister- in-law, parental and maternal uncle and aunt etc) is appearing in the examination. All examiners likely to serve as an examiner shall render a certificate in compliance to this para.

Paper Setting

- a. Each College / Institute shall forward a set of two question papers as per TOS along with the key for each subject to the Controller of Examinations, at least three months in advance of the annual examination. The question paper as a whole / a question without a comprehensive key shall not be considered towards final paper setting.
- b. The set of question papers shall be prepared by the respective Head of Department (HOD) and furnished to Controller of Examinations through Head of Institution (HOI)
- c. The Controller of Examinations shall approve the faculty for the final paper setting having fair representation of each college / institute

Paper Assessment

- a. The Controller of Examinations shall approve the faculty for the theory paper marking, to be undertaken in the manner as deemed appropriate.
- b. The Examination Directorate shall coordinate directly with the faculty, earmarked for the paper marking

- c. A student who scores 85% and above marks in any subject shall qualify for distinction in that particular subject.
- d. A fraction in aggregate marks of a subject shall be rounded off to whole number. If it is less than 0.5 then it will be rounded off to the previous whole number while 0.5 or more will be rounded off to the next whole number.

Practical / Examinations

- a. The Controller of Examiners shall approve the faculty to serve as the internal & external examiners.
- b. The number of external and internal examiners shall be equal.
- c. One external & internal examiner each shall be marked for a group of 100 students.
- d. Candidates may be divided into groups in the practical examinations and be standardized by incorporating OSCE/OSPE stations.
- e. Practical/clinical examination shall be held after the theory examination of the subject but in special cases, it may be held before the theory examination with the approval of the Controller of Examinations. For the purpose of practical/clinical examination, the candidates may be divided into sub groups by the examiners.
- f. The assessment of the practical / clinical examination duly signed by internal & external examiner shall be furnished to the Controller of Examinations within one week of the conclusion of examination

Pass Marks

- a. Pass marks for all subjects shall be 50 % in theory and practical, separately.
- b. No grace marks shall be allowed to any student in any examination.

Declaration of Result. Every effort shall be made to declare the result of each examination within one month of the last practical examination or earlier.

Re-Totaling. Any student may apply to the Controller of Examinations on a prescribed form along with the specified fee.

Supplementary Examination. The interval between a supplementary examination and the previous professional examination shall not be more than two months. There shall be no special supplementary examination.

