

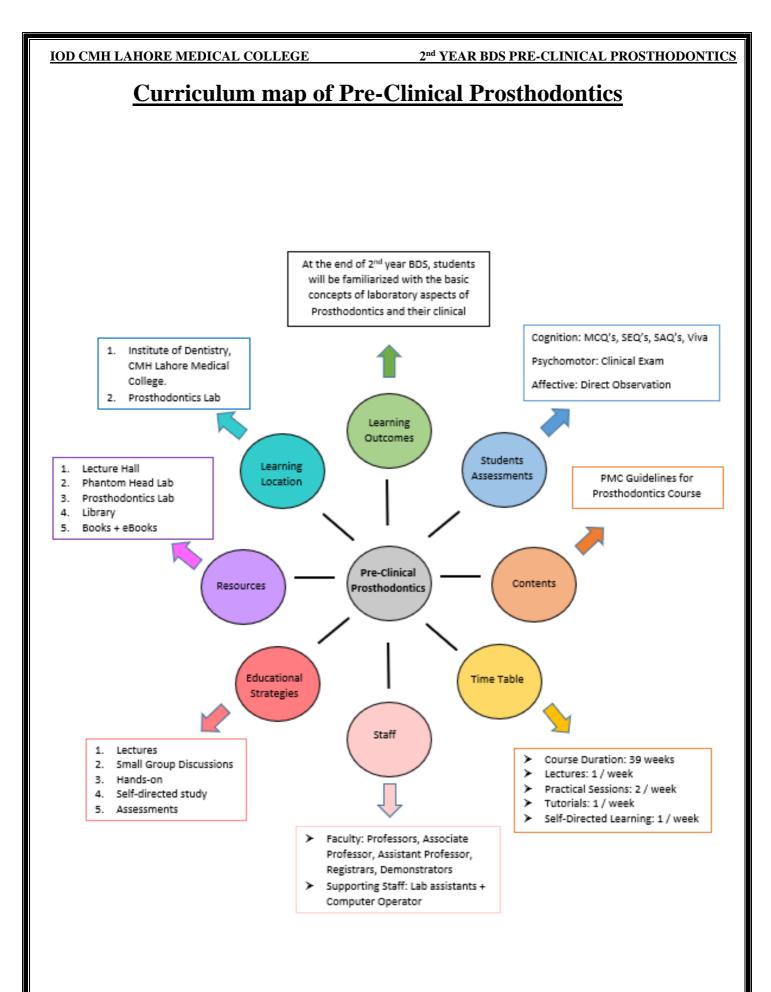
Institute of Dentistry,

CMH Lahore Medical College

Study Guide

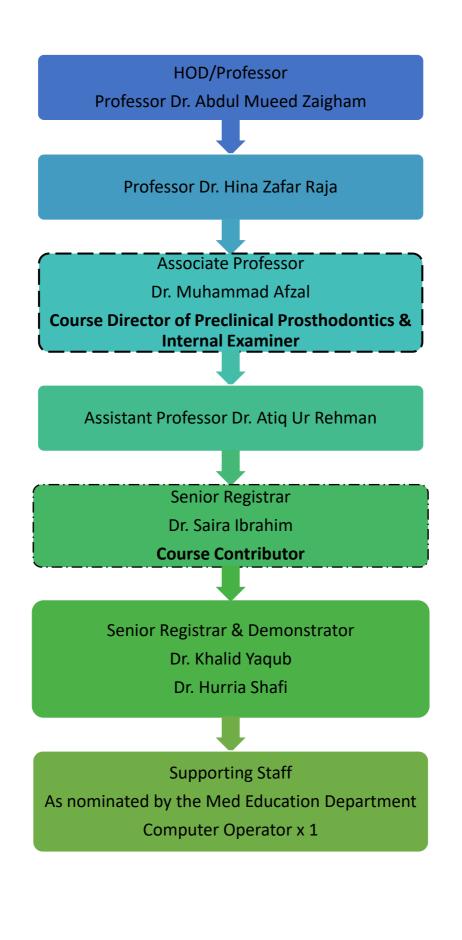
Department of Pre-clinical Prosthodontics

(Correspondence: deaniod@cmhlahore.edu.pk)



2nd YEAR BDS PRE-CLINICAL PROSTHODONTICS

ORGANOGRAM OF PRECLINICAL PROSTHODONTICS



 IOD CMH LAHORE MEDICAL COLLEGE
 2nd YEAR BDS PRE-CLINICAL PROSTHODONTICS

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INTRODUCTION TO PRE-CLINICAL PROSTHODONTICS

Preclinical Prosthodontics is an introductory course for the students of 2nd year BDS to familiarize them about the concepts of laboratory aspects of Prosthodontics and their clinical application. This course aims to teach didactic and practical skills leading to competency in the field of prosthodontics. The program provides a basic science foundation for understanding of the subject for the preclinical students, so that they are trained to do procedures which will be a part of the clinical sessions in the third and final year of the course.

Since proficiency in all elements of prosthodontics is required, equal emphasis is placed on partial and complete denture prosthodontics. This will provide the students with an opportunity to develop their knowledge and skills.

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Resources:

- A. Teaching faculty
- B. Infrastructure resources

A. <u>Teaching faculty:</u>

Sr. #.	Faculty Name	Designation as per PMC Certificate	Qualification
1.	Prof. Dr. Abdul Mueed Zaigham	Professor	BDS, FCPS Prosthodontics
2.	Prof. Dr. Hina Zafar Raja	Professor	BDS, FCPS Prosthodontics
3.	Dr. Muhammad Afzal	Associate Professor	BDS, FCPS Prosthodontics
4.	Dr. Atiq Ur Rehman	Assistant Professor	BDS, FCPS Prosthodontics
5.	Dr. Saira Ibrahim	Senior Registrar	BDS, FCPS Prosthodontics
6.	Dr. Khalid Yaqub	Senior Registrar	BDS, FCPS Prosthodontics
7.	Dr. Hurria Shafi	Demonstrator	BDS

B. Infrastructure resources:

Sr. No.	Infrastructure Resources	Quantity
1.	Phantom Head Labs	02
	• Lab A- Phantom heads	• 20
	• Lab B- Phantom heads	• 20
2.	Prosthodontics lab	• 01
3.	Ceramic lab	• 01
4.	Plaster room	• 01

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
- Journal club
- Collaborative learning
- Self-study and reading from learning resources

(ii) Methods for achieving psychomotor objectives

• Lab skills

(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
- Practical

- Skills session
- E- Learning
- Self-Directed Study

INTERACTIVE LECTURES

In large group, the lecturer introduces a topic or common clinical condition and explains the underlying phenomena through questions, pictures, exercises, etc. Students are actively involved in the learning process.

SMALL GROUP DISCUSSION (SGD): This format helps students to clarify concepts and to acquire skills or attitudes. Sessions are structured with the help of specific exercises 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 question based on a clinical scenario. Students discuss and answer the questions applying relevant knowledge gained in clinical and basic health sciences during the module.

TEAM – BASED LEARNING: Team – Based Learning is an evidence based collaborative learning teaching strategy designed around units of instruction, known as "modules," that are taught in a three-step cycle: (a) Preparation, (b) in-class readiness assurance testing and (c) application-focused exercise.

- a) **Preparation before class:** Students must complete preparatory materials before a class or the start of the module. Materials may be text, visual or other, and set at a level that is appropriate to the students and the course.
- b) **In-class Reading Assurance Testing:** Students complete an individual readiness assurance test (IRAT), consisting of 5 to 20 multiple choice questions. After submitting their individual answers, they take the same test, the team RAT (TRAT), with their team. All members of each team share the same TRAT score, and both IRAR and TRAT source count toward the students' grades.
- c) Instructor Feedback: The instructor reviews materials from the RAT that seems to be difficult for students.
- d) **In-class application focused exercise**: the remainder of the session is taken up with exercises that help students learn how to apply and extent the knowledge that they have

pre-learned and tested. Teams are given an appropriate problem or challenges, and must arrive at a consensus to choose a "best" solution out of options provided. Terms then display their answer choice, and the educator facilitates a classroom discussion between teams to explore the topic and the possible answer to the problem.

PRACTICAL: Practicals related to laboratory based prosthodontic procedure are scheduled for student learning.

SELF DIRECTED STUDY: Students' assume responsibilities of their own learning through individual study, sharing and discussing with peers, 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. The basic aspects of medical professionalism and ethics will be addressed through and e-learning course.

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. Learners, le

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environment, resource materials and facilities, culture and ideology, instructional supervision and assessments.

a) Personnel involved in teaching and facilitation

(i) Lectures delivery by:
 Prof. Dr. Abdul Mueed Zaigham (Professor)
 Prof. Dr. Hina Zafar Raja (Professor)
 Dr. Muhammad Afzal (Associate professor)
 Dr. Atiq Ur Rehaman (Assistant Professor)
 Dr. Saira Ibrahim (Senior Registrar)
 Dr. Khalid Yaqub (Senior Registrar)

(ii) Senior Registrar/Demonstrators for clinics/practical and small group discussion sessions:

Dr. Saira Ibrahim

Dr. Khalid Yaqub

Dr. Hurria Shafi

(iii) Support staff: As nominated by the medical education department.

(iv) Computer assistant: 1 as nominated by the college

b) Time frame

Course duration: 38 weeks

Lectures:	Wednesday: (8:00 to 8:50am)
Practical visits:	Monday – Wednesday (8:55am to 11:30 am)
	Thursday (8:55am to 11:30 am)

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

c) Time Duration / Year

Practical's/week = 2hrs 35min — Total 155min

Lectures/week = 50 min — Total 50 min

Self-Directed Learning = 60 min \longrightarrow Total 60 min

Total Contact weeks according to curriculum — 38 weeks

Contact Time in minutes \longrightarrow 38 x 265 = 10070 min

Contact Time in hours \longrightarrow 10070/60 = **167.8 hours**

Total contact hours = 168 hours

According to latest 2nd Year BDS Curriculum (2023-onwards) by NUMS,

Required contact hours

Preclinical Prosthodontics **135 hours.**

Preclinical Operative — 135 hours.

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COURSE OBJECTIVES AND STRATEGIES:

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

	TOPICS AND	FACULTY	Learning Domain	LEARNING STRATEGY		ASS	SESSME	NT	
	OBJECTIVES		(CPA)	~	Clinical	VIVA	OSPE	NUMS MCQs	NUMS SEQs
			Com	plete denture P	rosthodor	ntics			
1. • •	Introduction to Prosthodontics Define Prosthodontics? Describe branches of Prosthodontics? Name the different types	Dr. Muhammad Afzal	С	Interactive lecture / Small Group Discussion		х	х	Х	Х
•	of Prosthesis? Parts and Surfaces of a Complete Denture Describe surfaces of the Denture? Describe parts of the Denture?	Dr. Muhammad Afzal	С	Interactive lecture / small group discussion / Lab Demonstration		X	X	X	X
•	Anatomical Landmarks of Maxillary Arch and Mandibular Arch Describe Anatomical Landmarks of Maxillary Arch? Describe Anatomical Landmarks of Mandibular Arch?	Professor Dr. Abdul Mueed Zaigham	С	Interactive lecture / small group discussion / Lab Demonstration	Х	Х	Х	Х	Х
4. •	ImpressionTraysDefineimpression tray?What are therequirements ofImpressionTray?	Dr. Muhammad Afzal	С	Interactive lecture / Small Group Discussion / Lab Demonstration	Х	Х	Х	Х	X

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•	Describe types of									
	Impression									
	Trays?									
5.	Impressions in			Interactive						
	Complete	Dr.	С	lecture / Small						
	Denture	Muhammad								
•	Define	Afzal		Group						
	impression?			Discussion /		Х	Х	Х	Х	
•	What are the			Lab						
	Objectives of			Demonstration						
	impression									
	making?									_
6.	Dental Casts									
•	Define dental			Interactive						
	Cast?	Dr. Saira		lecture / Small						
•	What are the	Ibrahim	С	Group						
	types of Cast?			Discussion /	Х	Х	Х	Х	Х	
•	Describe the			Lab						
	requirements of			Demonstration						
	the Cast?									
•	Describe parts of a Cast?									
7.	Record Bases			Interactive						
•	Define record	Dr.		lecture / Small						
	bases?	Muhammad	С	Group						
•	What are the	Afzal		Discussion /	Х	Х	Х	Х	Х	
	requirements of			Lab						
-	record bases?			Demonstration						
•	What types are			Demonstration						
	of record Bases?									_
8.	Occlusion Rim			Interactive						
•	Define occlusal	Professor	С	lecture / Small						
	rims?	Dr. Hina		Group						
•	What are the	Zafar Raja			v	v	v	v	\mathbf{v}	
	uses of			Discussion /	Х	Х	Х	Х	Х	
⊪—	Occlusion rims?			Lab						
•	Describe			Demonstration						
	dimension of Occlusion rims?									
9.	Articulators			Trade use of '						-
<i>7</i> .	Define	D.,		Interactive						
	articulators?	Dr.	~	lecture / Small						
•	Classify	Muhammad	С	Group						
║╹	articulators?	Afzal		Discussion /	Х	Х	Х	Х	Х	
•	What are the			Lab						
∥ ¯	requirements of			Demonstration						
	articulator?									
10.	Artificial Teeth									1
•	Describe			Interactive						
	artificial teeth	Dr. Khalid	С	lecture / Small		v	v	v	V	
	based on the		C	Group		Х	X	Х	Х	
	Type of	Yaqub		Discussion /						
	Material used?									
		·I		•	I		•	•		

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Describe artificial teeth based on the Occlusal Form of Teeth?			Lab Demonstration					
11. Occlusion in Complete Denture • Describe occlusion in complete denture?	Dr. Muhammad Afzal	С	Interactive lecture / Small Group Discussion / Lab Demonstration			X	X	X
 12. Teeth setup Describe the setup of anterior teeth? Describe the setup of posterior teeth? 	Dr. Muhammad Afzal	С	Interactive lecture / Small Group Discussion / Lab Demonstration	X	X	X	X	X
13. Denture processing	Dr. Muhammad Afzal	С	Interactive lecture / Small Group Discussion / Lab Demonstration	х	х	X	Х	х
14. Finishing and polishing of denture	Dr. Saira Ibrahim	С	Interactive lecture / Small Group Discussion / Lab Demonstration	X	X	Х	X	X
15. Spot grinding	Dr. Muhammad Afzal		Interactive lecture	X		Х	Х	X
	A. REI	MOVABLI	E PARTIAL DEN	TURES (RPDs)			
 16. Classification of Partially Edentulous Arch and Applegate's Rules Define Removable partial denture? Describe Components of Removable partial denture? Describe Kennedy's Classification? 	Dr. Saira Ibrahim	С	Interactive lecture / Small Group Discussion / Lab Demonstration		X	X	X	x
								14

• Describe Appique's Relia governing Kennedy's classification? Dr. C Interactive lecture / Small Group Discussion / Lab • Define Major connectors? Dr. C Interactive lecture / Small Group Discussion / Lab X X X X • Classify Maxillary Major connectors? Dr. C Interactive lecture / Small Group Discussion / Lab X X X X • Classify Maxillary Major connectors? Dr. C Interactive lecture / Small Group Discussion / Lab X X X X • Define finant connectors? Dr. Saira Brahim C Interactive lecture / Small Group Discussion / Lab X X X X • Define finant connectors Dr. C Interactive lecture / Small Group Discussion / Lab X X X X • Define finant calsap Pasing Dr. C Interactive lecture / Small Group Discussion / Lab X X X X • Describe Patts of a Clasp Pasing Dr. C Interactive lecture / Small Group Discussion / Lab X X X X • Describe Patts of a Clasp Pasing Aizal C Interactive lecture / Small Group Discussion / Lab	IOD CMH LAHOR	E MEDICAL C	OLLEGE	2 ^r	^{ad} YEAR B	DS PRE-	CLINICA	AL PROS'	THODON	TICS
17. Components of Cast Partial Denture Dr. Muhammad Afzal C Interactive lecture / Small Group Discussion / Lab • Describe requirements of Major connectors? Dr. Afzal C Interactive lecture / Small Group Discussion / Lab X X X X • Classify Mandibular Major Connectors? C Interactive lecture / Small Group Discussion / Lab X X X X X • Define minor connector? Pr. Saira Ibrahim Dr. Saira Ibrahim C Interactive lecture / Small Group Discussion / Lab X X X X X • Define rest? Dr. Saira Ibrahim Dr. Saira Ibrahim C Interactive lecture / Small Group Discussion / Lab X X X X X 19. Direct Retainers? Dr. Describe Retainers Dr. Muhammad Afzal Dr. Muhammad Afzal C Interactive lecture / Small Group Discussion / Lab X X X X 19. Direct Retainers? Dr. Muhammad Afzal Dr. Muhammad Afzal C Interactive lecture / Small Group Discussion / Lab X X X X X • Describe Circumferential or Alers Clasp or Occlusally Approaching Dr. C Interactive lecture / Small	Applegate's Rules governing Kennedy's									
 Classify Maxillary Major Connectors? Classify Mandibular Major Connectors? Review the Indications for Maxillary Major Connectors? Review the Indications for Maxillary Major Connectors? Define minor connectors? Define minor connectors? Define minor connectors Define finor Connectors Dr. Saira Define trading Dr. Saira C Interactive lecture / Small Group Discussion / Lab Demonstration Direct Retainers? Describe Parts of a Clasp? Describe Parts of a Clasp Design? Describe Requirements of a Clasp Design? Describe Requirements of a Clasp Design? Describe Constration X X X X X X X X X X 	 Cast Partial Denture Define Major connector? Describe requirements of Major 	Muhammad	С	lecture / Small Group Discussion /						
Maxillary Major Connectors? Describe Minor Connector? • Define minor connectors joining the denture base? Dr. Saira Ibrahim C Interactive lecture / Small Group • Define rest? Dr. Saira Ibrahim C Interactive lecture / Small Group X X X X • Describe Functions of Rest? Dr. Saira Ibrahim C Interactive lecture / Small Group X X X X • Describe Functions of Rest? Dr. C Interactive lecture / Small Group X X X X • Describe Partis of a Clasp? Dr. C Interactive lecture / Small Group X X X X • Describe Parts of a Clasp? Dr. C Interactive lecture / Small Group X X X X • Describe Requirements of a Clasp Design? Demonstration X X X X • Describe Group Discussion / a Clasp Design? Lab Demonstration X X X X	 Classify Maxillary Major Connectors? Classify Mandibular Major Connectors? 					Х	Х	Х	Х	
18. Rests• Define rest?• Describe Functions of Rest?• Classify Rest?• Classify Rest?Dr. Saira IbrahimC Classify Rest?• Classify Rest?• Classify Rest?• Define direct retainers?• Define direct retainers?• Describe Parts of a Clasp?• Describe Requirements of a Clasp Design?• Describe Circumferential or Akers Clasp or Occlusally Approaching• Describe Circumferential or Akers Clasp or Occlusally Approaching	 Maxillary Major Connectors? Describe Minor Connector? Define minor connectors joining the 									
Retainers• Define direct retainers?• Describe Parts of a Clasp?• Describe Requirements of a Clasp Design?• Describe retainers• Describe Circumferential or Akers Clasp or Occlusally Approaching• Describe Circumferential or Akers Clasp• Describe Circumferential or Occlusally Approaching• Describe Circumferential or Akers Clasp or Occlusally Approaching• Describe Or Occlusally Approaching• Describe Occlusally Approaching• Describe Occlusally Approaching• Describe Occlusally Approaching• Describe Occlusally Approaching• Describe Occlusally Occlusally Approaching• Describe Occlusall	 18. Rests Define rest? Describe Functions of Rest? 		С	lecture / Small Group Discussion / Lab		х	Х	Х	Х	
Clasp?	 Retainers Define direct retainers? Describe Parts of a Clasp? Describe Requirements of a Clasp Design? Describe Circumferential or Akers Clasp or Occlusally 	Muhammad	С	lecture / Small Group Discussion / Lab		Х	Х	X	Х	

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Describe Vertical Projection or Bar or Roach Clasp or Gingivally Approaching Clasp?									
20. Surveying			Interactive						
• Define dental surveyor?	Dr. Atiq Ur Rehman	С	lecture / Small Group						
 Define dental surveyor? What are the types of surveyors? What are the Uses of surveyors? 			Discussion X		Х	Х	Х	Х	
• What are the Uses of surveyors?									



Pre-Clinical Prosthodontics Dentistry 2nd Year BDS Lecture Schedule 2023

		Every W	/ednesday 8:00 am to 8:50 am
Date	ΤΟΡΙϹ	NO OF LECTU RES	INSTRUCTOR
	BLOCK I (1- 13 Weeks))	
25-01-23	Introduction to Prosthodontics	1	Dr. Muhammad Afzal
01-02-23	Introduction to Partial dentures and Parts of removable partial dentures	1	Dr. Muhammad Afzal
08-02-23	Classification of Partially edentulous arches	1	Dr. Saira Ibrahim
15-02-23	Surveying	1	Dr Atiq Ur Rehman
22-02-23	Means of Retention – Types of clasp	1	Dr. Muhammad Afzal
27/2/2023 to 02/3/2023	SPORTS WI	EEK	
01-03-23	1ST CLASS TEST	Dr. M	luhammad Afzal / Dr. Saira Ibrahim
08-03-23	Means of support – Rest	1	Dr. Saira Ibrahim
15-03-23	Connectors - Maxilla	1	Dr. Saira Ibrahim
20/3/2023 to 26/3/2023	SPRING HOL	IDAYS	
23/3/2023	PAKISTAN	DAY	
29-03-23	Connectors - Mandible	1	Dr. Saira Ibrahim
05-04-23	Artificial Teeth	1	Dr. Khalid Yaqub
12/4/2023 to 18/4/2023	BLOCK I EX	AMS	

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14-04-23	Exam Pre-Clinical Operative / Pre-Clinical Prosthodontics	Dr. M	Iuhammad Afzal / Dr. Saira Ibrahim
	BLOCK II (17x Weeks)		
19-04-23	Setup of teeth	1	Dr. Saira Ibrahim
21/04/23 to 25/04/23	EID UL FII	R	
26-04-23	Setup of teeth	1	Dr. Saira Ibrahim
01-05-23	LABOUR DA	AY	
03-05-23	Processing & finishing partial dentures	1	Dr. Muhammad Afzal
10-05-23	Anatomical landmarks – Maxilla	1	Dr. Abdul Mueed Zaigham
17-05-23	Anatomical landmarks – Mandible	1	Dr. Abdul Mueed Zaigham
24-05-23	Impression trays and construction of special trays	1	Dr. Muhammad Afzal
31-05-23	Types of Dental casts and wax up for maxilla and mandible	1	Dr. Saira Ibrahim
07-06-23	2nd CLASS TEST	Dr. M	Iuhammad Afzal / Dr. Saira Ibrahim
14-06-23	Record bases and Flasking process	1	Dr. Muhammad Afzal
21-06-23	Dewaxing, packing and finishing of acrylic base plates	1	Dr. Muhammad Afzal
28/6/2023 to 30/6/2023	EID UL ADI	HA	
05-07-23	Dewaxing, packing and finishing of acrylic base plates	1	Dr. Muhammad Afzal
12-07-23	Occlusal rims	1	Dr. Hina Zafar Raja
19-07-23	Introduction to Articulators	1	Dr. Muhammad Afzal
24/7/2023 to 18/8/2023	SUMMER VACA	TIONS	
21/8/2023 to 1/9/2023	BLOCK II EX	AMS	
25-08-23	Exam Pre-Clinical Operative / Pre-Clinical Prosthodontics	Dr. M	Iuhammad Afzal / Dr. Saira Ibrahim
	BLOCK III (15x Weeks)		
30-08-23	OSCE for Block Exam II	1	Dr. Muhammad Afzal
06-09-23	Classification of articulators and process of articulation	1	Dr. Muhammad Afzal
13-09-23	Tooth setup – Upper and lower anteriors	1	Dr. Muhammad Afzal
20-09-23	Tooth setup – Upper and lower posteriors	1	Dr. Muhammad Afzal
27-09-23	Occlusion in complete dentures	1	Dr. Muhammad Afzal
04-10-23	3RD CLASS TEST	Dr. M	Iuhammad Afzal / Dr. Saira Ibrahim
11-10-23	Occlusion in complete dentures	1	Dr. Muhammad Afzal
18-10-23	Wax up, processing of dentures, Finishing of	1	Dr. Muhammad Afzal

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25-10-23	Finishing of dentures, spot grinding/parts and surfaces of denture	1	Dr. Muhammad Afzal
01-11-23	Revision Lecture	1	Dr. Muhammad Afzal / Dr. Saira Ibrahim
08-11-23	Revision Lecture	1	Dr. Muhammad Afzal / Dr. Saira Ibrahim
13/11/2023 to 19/11/2023	Prep Leave for Pre-A	nnual Exa	ım
20/11/2023 to 3/12/2023	Pre-Annual Exam		
24/11/2023	Pre-clinical Operative/ Pre-clinicalDr. Muhammad Afzal / Dr. SairaProsthodontics Written ExamIbrahim		
27/11/23 to 01/12/23	Pre-clinical Operative/ Pre-clinicalDr. Muhammad Afzal / Dr. SairaProsthodontics Practical ExamIbrahim		
4/12/2023 to			
25/12/2023	Prep Leave for An	nual Exam	l

Pre-Clinical Prosthodontics Dentistry 2nd Year BDS (2023)



Venue: Pre Clinical Prosthodontics Lab

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

Date	Торіс	Instructor	Contributors	Batche s
	BLOCK I 23-01-23 to	o 20-04-23 (13 x weeks)		
25-01-23	Introduction to laboratory instruments	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
26-01-23	Introduction to laboratory instruments	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
01-02-23	Pouring of dentate and edentate molds - Cast Making	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
02-02-23	Pouring of dentate and edentate molds - Cast Making	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
08-02-23	Identification of Anatomical landmarks Maxilla and Mandible	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
09-02-23	Identification of anatomical landmarks Maxilla and Mandible	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
15-02-23	Clasp fabrication	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
16-02-23	Clasp fabrication	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A

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22-02-23	Waxup and occlusal rim fabrication of P/DDr. Muhammad Afzal		Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B	
23-02-23	Waxup and occlusal rim fabrication of P/D	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A	
27-02-23 to 02-03- 23		Sports week			
01-03-23	Occlusal Rim Fabrication of P/D	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B	
02-03-23	Occlusal Rim Fabrication of P/D	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A	
08-03-23	Articulation of P/D	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B	
09-03-23	Articulation of P/D	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A	
15-03-23	Revision - Articulation	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B	
16-03-23	Revision - Articulation	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A	
20-03-23 to 26-03- 23	Spring Holidays				
23-03-23		23rd March Holiday			
29-03-23	Tooth setup for P/D Upper and Lower Anterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B	
30-03-23	Tooth setup for P/D Upper and Lower Anterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A	
05-04-23	Revision - Tooth Setup Anterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B	
06-04-23	Revision - Tooth Setup Anterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A	
12-04-23 to 18-04- 23		BLOCK - I EXAM			
	BLOCK II (17x weeks	s) (19 April - 21 August)		
19-04-23	Tooth setup for P/D Upper and Lower Posterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B	
20-04-23	Tooth setup for P/D Upper and Lower Posterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A	
21-04-23 to 25-04- 23		EID UL FITAR			
26-04-23	Revision - Tooth Setup Posterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B	

IOD CMH LAHORE M	IEDICAL COLLEGE	2 nd YEAR BDS	PRE-CLINICAL PRO	STHODONTIC
27-04-23	Revision - Tooth Setup Posterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
01-05-23		LABOUR DAY		
03-05-23	Flasking and Dewaxing of P/D (4 flasks)	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
04-05-23	Flasking and Dewaxing of P/D (4 flasks)	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
10-05-23	Acrylic Paking of P/D (4 flasks)	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
11-05-23	Acrylic Paking of P/D (4 flasks)	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
17-05-23	Finishing of partial denture	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
18-05-23	Finishing of partial denture	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
24-05-23	Custom tray in autopolymerizing acrylic with spacer for edentulous arches	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
25-05-23	Custom tray in autopolymerizing acrylic with spacer for edentulous arches	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
31-05-23	Wax-up of upper and lower casts	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
01-06-23	Wax-up of upper and lower casts	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
07-06-23	Flasking and Dewaxing	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
08-06-23	Flasking and Dewaxing	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
14-06-23	Packing and curing	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
15-06-23	Packing and curing	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
21-06-23	Finishing of base plates	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch B
22-06-23	Finishing of base plates	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma	Batch A
28-06-23 to 30-06- 23		EID UL ADHA		
05-07-23	Occlusal Rims	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan	Batch B

IOD CMH LAHORE M	IEDICAL COLLEGE	2 nd YEAR BDS	PRE-CLINICAL PRO	STHODONTI
06-07-23	Occlusal Rims	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan	Batch A
12-07-23	Revision - Occlusal Rims	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan	Batch B
13-07-23	Revision - Occlusal Rims	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan	Batch A
19-07-23	Articulation	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan	Batch B
20-07-23	Articulation	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan	Batch A
24-07-23 to 18-08- 23	S	SUMMER VACATION	٧S	
14-08-23 to 21-08- 23		Block Exam II		
	BLOCK III	(15 x weeks)		
30-08-23	OSCE for Block Exam II	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
31-08-23	OSCE for Block Exam II	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
06-09-23	Setup of upper anterior teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
07-09-23	Setup of upper anterior teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
13-09-23	Setup of lower anterior teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
14-09-23	Setup of lower anterior teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
20-09-23	Revision Setup of Anterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
21-09-23	Revision Setup of Anterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
27-09-23	Setup of upper posterior teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
28-09-23	Setup of upper posterior teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
04-10-23	Setup of lower posterior teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
05-10-23	Setup of lower posterior teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
11-10-23	Revision - Setup of Posterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
12-10-23	Revision - Setup of Posterior Teeth	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
18-10-23	Waxup, carving and festooning	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
19-10-23	Waxup, carving and festooning	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
25-10-23	Flasking & dewaxing of C/D (4 flasks)	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
26-10-23	Flasking & dewaxing of C/D (4 flasks)	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
01-11-23	Acrylic Packing of C/D (4 flasks)	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B
02-11-23	Acrylic Packing of C/D (4 flasks)	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
08-11-23	Finishing of denture & Spot grinding	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch B

IOD CMH LAHORE MEDICAL COLLEGE		2 nd YEAR BDS I	^d YEAR BDS PRE-CLINICAL PROSTHODON	
09-11-23	Finishing of denture & Spot grinding	Dr. Muhammad Afzal	Dr. Saira Ibrahim	Batch A
13-11-23 to 19-11- 23	Prep Leave for Pre-Annual Exam			
20-11-23 to 03-12- 23	Pre-Annual Exam			
24-12-23	Pre-clinical Operative/ Pre-clinical Prosthodontics Written Exam			l
27-11-23 to 01-12- 23	Pre-clinical Operative/ Pre-clinical Prosthodontics Practical Exam			ı
04-12-23 to 25-12- 23	Prep Leave for Annual Exam			
26-12-23 onwards	NUMS University Annual Exam			

2nd Year BDS (2023) Tutorial Schedule

Venue: Lecture Hall J / Conference Hall, 1st Floor Days and Timing: Monday (1400hrs to 1500hrs)

Date	Торіс	Instructor	Contrib	butors	
	BLOCK I 23-01-23 to 20-04-23 (13 x weeks)				
30-01-23	Introduction to laboratory instruments + Cast Making	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Asn		
13-02-23	Identification of Anatomical landmarks + Clasp Fabrication	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Asn		
27-02-23 to 02-03- 23		Sp	orts week		
06-03-23	Waxup and occlusal rim fabrication of P/D	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Asn		
20-03-23 to 26-03- 23	Spring Holidays				
23-03-23		23rd N	larch Holiday		
27-03-23	Articulation of P/D	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Asn		
10-04-23	Tooth setup for P/D	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Asn		
12-04-23 to 18-04- 23	BLOCK - I EXAM				
BLOCK II (17x weeks) (20 April - 21 August)					
21-04-23 to 25-04- 23	EID UL FITAR				
15-05-23	Finishing of partial denture	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Asn		

IOD CMH LAHORE	MEDICAL COLLE	GE 2	2 nd YEAR BDS PRE-CLINICAL PROSTHODONTICS		
29-05-23	Custom tray in autopolymerizin g acrylic with spacer for edentulous arches	Dr. Muhammad Afzal	Dr. Saira Ibrahim, Dr. Abdullah Ehsan, Dr. Asma		
13-11-23 to 19-11- 23		Prep Leave for Pre-Annual Exam			
20-11-23 to 03-12- 23	Pre-Annual Exam				
24-12-23	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:

Resource		
 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition 		
 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition 		
 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition 		
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 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition 		
 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition 		

IOD CMH LAHORE MEDICAL COLLE	GE 2 nd YEAR BDS PRE-CLINICAL PROSTHODONTICS
Articulators	• Preclinical Manual of Prosthodontics By: S Lakshmi 3 rd
	 edition Prosthodontic Treatment for Edentulous Patients By Zarb 13th Edition
Artificial Teeth	• Preclinical Manual of Prosthodontics By: S Lakshmi 3 rd
	 edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition
Teeth setup	• Preclinical Manual of Prosthodontics By: S Lakshmi 3 rd
	 edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition
Denture processing	• Preclinical Manual of Prosthodontics By: S Lakshmi 3 rd
	 edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition
Finishing and polishing of denture	 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition
denture	 Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition
Spot grinding	 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition
	 Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition
Classification of Partially edentulous Arches and	 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition
Applegate's Rules	 Removable Partial Prosthodontics By Mc 'Crackens 12th Edition
Components of Cast Partial Denture	Preclinical Manual of Prosthodontics By: S Lakshmi 3 rd edition
	 Removable Partial Prosthodontics By Mc 'Crackens 12th Edition
Rests	 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition
	 Removable Partial Prosthodontics By Mc 'Crackens 12th Edition
Direct Retainers	 Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition
	 Removable Partial Prosthodontics By Mc 'Crackens 12th Edition
Indirect Retainers	• Preclinical Manual of Prosthodontics By: S Lakshmi 3 rd edition
	 Removable Partial Prosthodontics By Mc 'Crackens 12th Edition
Surveying	• Preclinical Manual of Prosthodontics By: S Lakshmi 3 rd
	edition

2nd YEAR BDS PRE-CLINICAL PROSTHODONTICS

 Removable Partial Prosthodontics By Mc 'Crackens 12th Edition

OTHER LEARNING RESOURCES:

Hands- on Activities / Practical	Students will be involved in Practical sessions and hands-on activities that will link the laboratory procedures to clinical procedures.
Labs	Utilize the lab provides the simulated learning to the models available.
Skills Lab	A skills lab provides the simulated learning experience to learn the basic skills and procedures.
Videos	Video familiarize the student with the procedures and protocols to assist patients
Computer Lab/ CSs /DVDs/ Internet Resources:	To increase the knowledge, students should utilize the available internet resources. This will be an additional advantage to increase learning.
Self-Directed Learning	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 assessment methods and policies

ASSESSMENT METHODS:

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 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 PM&DC 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 Theory Paper shall be of 3-hours duration, held under the arrangements of the university. It shall have two parts; 60 MCQs (60 Marks) and 8 SAQs/SEQs (40 Marks) for the year 2023-onward. It may be changed after the approval of Academic Council.
- e. Allocated time for MCQs for 2023-onward shall be as under:

20 MCQs	-	20 Minutes
30 MCQs	-	30 Minutes
50 MCQs	-	50 Minutes
60 MCQs	-	60 Minutes

2nd YEAR BDS PRE-CLINICAL PROSTHODONTICS

- 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: -

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%)	= 20	(including MCQs)
Max Marks	= 100	(MCQs:40%+SEQs:40%+IA: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 is MCQs it will be rationalized as: (50/60*40=33.33)

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60 x MCQs (on separate sheet) (60 Marks) (Time: 60 min)
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08 x SEQs/SAQs (05 marks each)
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(40 Marks) (Time: 2hr)

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 – P	reclinical Operative	e Dentistry	
01	MCQ	30 (01 mark each)	30 Marks	50 Marks
02	SEQ/SAQ	04 (05 marks each)	20 Marks	

Practical / Viva Examination (80 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	tal 40 Marks		
Grand Tota	1		
Total	80 Marks		
Internal Assessment of both subjects	20 Mark	55	
Grand Total 100 Marks			

Theory: Internal Assessment calculation (20 Marks)

INTERNAL ASSESSMENT - THE	OBY
INTERNAL ASSESSMENT WEIGHTI	
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	20%
after every learning session during the academic year)	
Pre-Annual Exam	25%
Total	100%
INTERNAL ASSESSMENT STRUCTURE	PRACTICAL
INTERNAL ASSESSMENT WEIGHTI	NG: 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 SPECIFICATIONS DETAILED

12.

Preclinical Prosthodontic

Ser	Blocks	Topics	Number	Number of MCQs (30)	
			Recall: 18	Application:12	SEQs/SAQs (04)
1.	Complete Denture Prosthodontics - I	Anatomical landmarks Maxilla and Mandible	4	2	02
2.		 Impressions and Impression trays 			
3.		Dental Casts	2	2	
4.		Record Bases			
5.	$\Delta \mathcal{N}^{-1}$	Occlusion Rims		1	
6.	O.	Articulator	3		
7.		Occlusion in Complete Denture		2	
8.	Complete Denture	Artificial teeth			
9.	Prosthodontics -	Arrangement of teeth Maxilla and Mandible	1	1	01
10.		Laboratory procedures prior to	2	1	5
		insertion			
11.		 Parts & Surfaces of a Denture 			
12.		Spot grinding			
13.	Partial Denture Prosthodontics	 Classification of partially edentulous arches 	2	1	
14.	1	Rests and Rest seats			
15.		Major Connectors			
16.	•	Minor Connectors	1	6	01
17.		Indirect Retainers		100	
18.		Direct Retainers		V	
19.		Denture Base	3	1	
20.		Surveying	0	1	
	T	otal	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 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 / 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.

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

<u>Supplementary Examination</u>. 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.