



Institute of Dentistry,

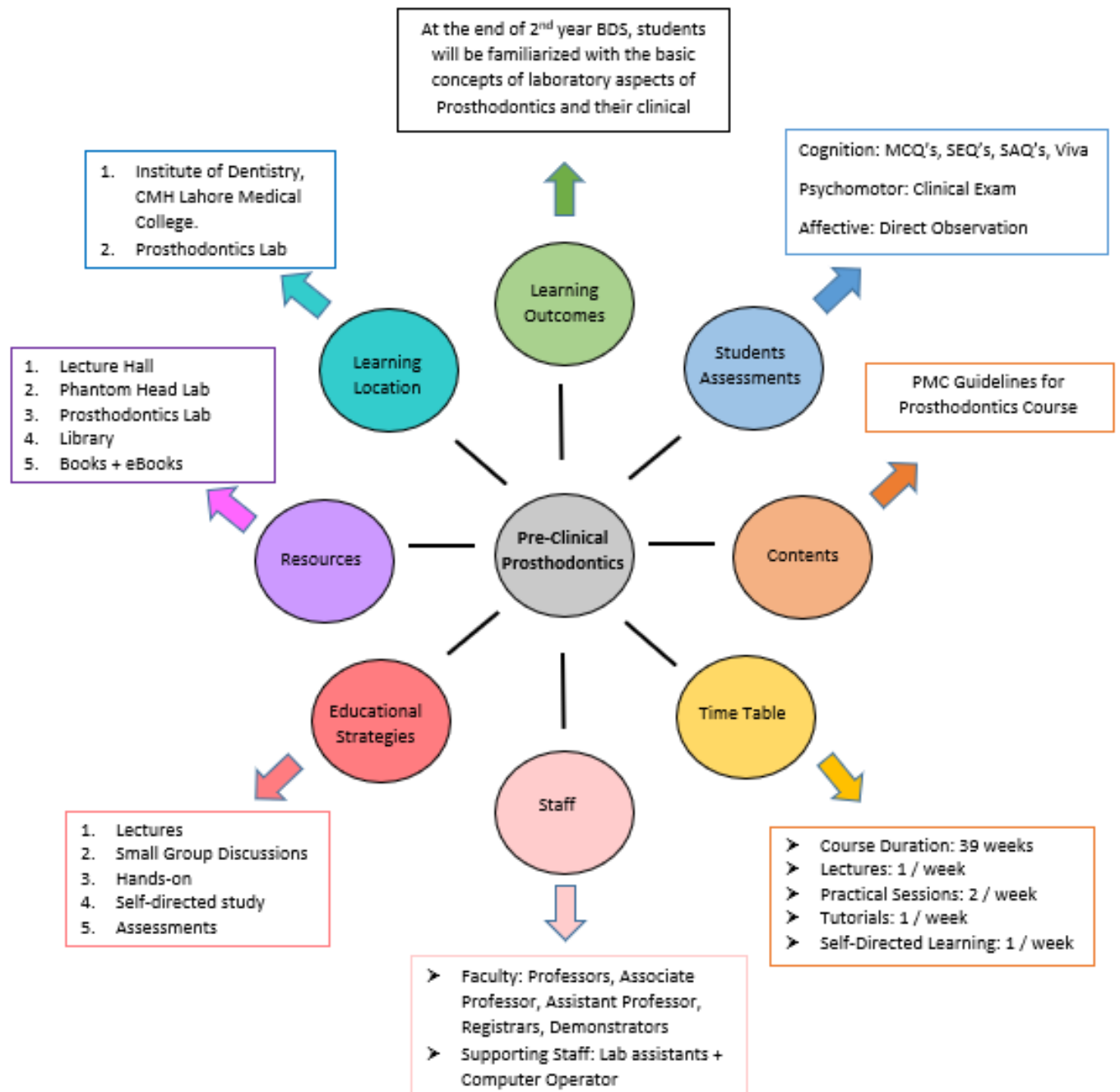
CMH Lahore Medical College

Study Guide

Department of Pre-clinical Prosthodontics

(Correspondence: deaniod@cmhlahore.edu.pk)

Curriculum map of Pre-Clinical Prosthodontics



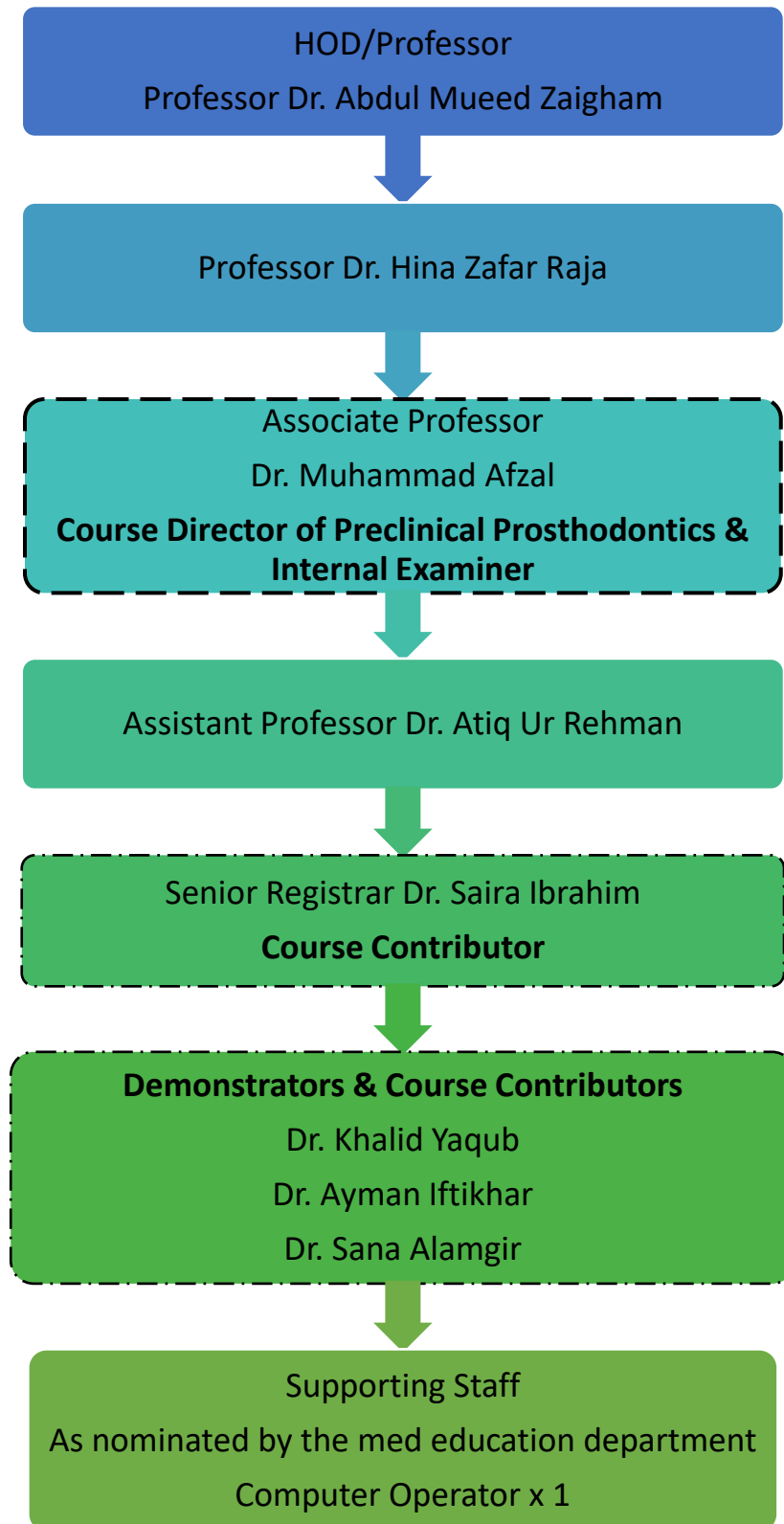
ORGANOGRAM OF PRECLINICAL PROSTHODONTICS

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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.

Resources:

- A. Teaching faculty
B. Infrastructure resources

A. Teaching faculty:

| 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 | Demonstrator | BDS, FCPS Prosthodontics |
| 7. | Dr. Ayman Iftikhar | Demonstrator | BDS |
| 8. | Dr. Sana Alamgir | Demonstrator | BDS |

B. Infrastructure resources:

| Sr. No. | Infrastructure Resources | Quantity |
|---------|--|---|
| 1. | Phantom Head Labs <ul style="list-style-type: none"> • Lab A- Phantom heads • Lab B- Phantom heads | 02 <ul style="list-style-type: none"> • 20 • 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.

- 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.
- 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.
- 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 extend 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. Teams 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 an 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. 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) 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)

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

Dr. Saira Ibrahim
Dr. Khalid Yaqub
Dr. Ayman Iftikhar
Dr. Sana Alamgir.

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

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

b) Time frame

Course duration: 39 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 → Total 60 min

Tutorial/week = 30 min → 30 min

Total Contact weeks according to curriculum → 39 weeks

Contact Time in minutes → $39 \times 295 = 11505$ min

Contact Time in hours → $11505/60 = 191$ hours

Total contact hours = 191 hours

According to latest 2nd Year BDS Curriculum (2020-2021) by NUMS, Required contact hours

Preclinical Prosthodontics → **135 hours.**

Preclinical Operative → 135 hours.

COURSE OBJECTIVES AND STRATEGIES:

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

| TOPICS AND OBJECTIVES | FACULTY | Learning Domain (CPA) | LEARNING STRATEGY | ASSESSMENT | | | | |
|--|-----------------------------------|-----------------------|--|------------|------|------|-----------|-----------|
| | | | | Clinical | VIVA | OSPE | NUMS MCQs | NUMS SEQs |
| Complete denture Prosthodontics | | | | | | | | |
| 1. Introduction to Prosthodontics <ul style="list-style-type: none"> Define Prosthodontics? Describe branches of Prosthodontics? Name the different types of Prosthesis? | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| | | | | | | | | |
| | | | | | | | | |
| 2. Parts and Surfaces of a Complete Denture <ul style="list-style-type: none"> Describe surfaces of the Denture? Describe parts of the Denture? | Dr. Atiq Ur Rehman | C | Interactive lecture | | | X | | |
| | | | | | | | | |
| 3. Anatomical Landmarks of Maxillary Arch and Mandibular Arch <ul style="list-style-type: none"> Describe Anatomical Landmarks of Maxillary Arch? Describe Anatomical Landmarks of Mandibular Arch? | Professor Dr. Abdul Mueed Zaigham | C | Interactive lecture / small group discussion | | | X | | |
| | | | | | | | | |
| 4. Impression Trays <ul style="list-style-type: none"> Define impression tray? What are the requirements of Impression Tray? Describe types of Impression Trays? | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| | | | | | | | | |
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|---|-------------------------------|---|---------------------|--|--|---|--|--|--------------------|---|---------------------|--|--|---|--|--|
| 5. Impressions in Complete Denture | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | | | | | | | | | |
| <ul style="list-style-type: none"> Define impression? What are the Objectives of impression making? | | | | | | | | | | | | | | | | |
| 6. Dental Casts | Dr. Saira Ibrahim | C | Interactive lecture | | | X | | | | | | | | | | |
| <ul style="list-style-type: none"> Define dental Cast? What are the types of Cast? Describe the requirements of the Cast? Describe parts of a Cast? | | | | | | | | | | | | | | | | |
| 7. Record Bases | | | | | | | | | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| <ul style="list-style-type: none"> Define record bases? What are the requirements of record bases? What types are of record Bases? | | | | | | | | | | | | | | | | |
| 8. Occlusion Rim | Professor Dr. Hina Zafar Raja | C | Interactive lecture | | | X | | | | | | | | | | |
| <ul style="list-style-type: none"> Define occlusal rims? What are the uses of Occlusion rims? Describe dimension of Occlusion rims? | | | | | | | | | | | | | | | | |
| 9. Articulators | | | | | | | | | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| <ul style="list-style-type: none"> Define articulators? Classify articulators? What are the requirements of articulator? | | | | | | | | | | | | | | | | |
| 10. Artificial Teeth | Dr. Saira Ibrahim | C | Interactive lecture | | | X | | | | | | | | | | |
| <ul style="list-style-type: none"> Describe artificial teeth based on the Type of Material used? Describe artificial teeth based on the Occlusal Form of Teeth? | | | | | | | | | | | | | | | | |

| | | | | | | | | |
|---|--------------------|---|---------------------|--|--|---|--|--|
| 11. Occlusion in Complete Denture | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| <ul style="list-style-type: none"> Describe occlusion in complete denture? | | | | | | | | |
| 12. Teeth setup | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| <ul style="list-style-type: none"> Describe the setup of anterior teeth? Describe the setup of posterior teeth? | | | | | | | | |
| 13. Denture processing | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| 14. Finishing and polishing of denture | Dr. Saira Ibrahim | C | Interactive lecture | | | X | | |
| 15. Spot grinding | Dr. Muhammad Afzal | | Interactive lecture | | | X | | |

A. REMOVABLE PARTIAL DENTURES (RPDs)

| | | | | | | | | |
|--|--------------------|---|---------------------|--|--|---|--|--|
| 16. Classification of Partially Edentulous Arch and Applegate's Rules | Dr. Saira Ibrahim | C | Interactive lecture | | | X | | |
| <ul style="list-style-type: none"> Define Removable partial denture? | | | | | | | | |
| <ul style="list-style-type: none"> Describe Components of Removable partial denture? | | | | | | | | |
| <ul style="list-style-type: none"> Describe Kennedy's Classification? | | | | | | | | |
| <ul style="list-style-type: none"> Describe Applegate's Rules governing Kennedy's classification? | | | | | | | | |
| 17. Components of Cast Partial Denture | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| <ul style="list-style-type: none"> Define Major connector? | | | | | | | | |
| <ul style="list-style-type: none"> Describe requirements of Major connectors? | | | | | | | | |
| <ul style="list-style-type: none"> Classify Maxillary Major Connectors? | | | | | | | | |
| <ul style="list-style-type: none"> Classify Mandibular Major Connectors? | | | | | | | | |
| <ul style="list-style-type: none"> Review the Indications for | | | | | | | | |

| | | | | | | | | |
|---|--------------------|---|--|--|--|---|--|--|
| Maxillary Major Connectors? | | | | | | | | |
| • Describe Minor Connector? | | | | | | | | |
| • Define minor connectors joining the denture base? | | | | | | | | |
| 18. Rests | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| • Define rest? | | | | | | | | |
| • Describe Functions of Rest? | | | | | | | | |
| • Classify Rest? | | | | | | | | |
| 19. Direct Retainers | Dr. Muhammad Afzal | C | Interactive lecture | | | X | | |
| • Define direct retainers? | | | | | | | | |
| • Describe Parts of a Clasp? | | | | | | | | |
| • Describe Requirements of a Clasp Design? | | | | | | | | |
| • Describe Circumferential or Akers Clasp or Occlusally Approaching Clasp? | | | | | | | | |
| • Describe Vertical Projection or Bar or Roach Clasp or Gingivally Approaching Clasp? | | | | | | | | |
| 20. Surveying | Dr. Muhammad Afzal | C | Interactive lecture / small group discussion | | | X | | |
| • Define dental surveyor? | | | | | | | | |
| • What are the types of surveyors? | | | | | | | | |
| • What are the Uses of surveyors? | | | | | | | | |

Pre-Clinical Prosthodontics
2nd year BDS Lecture Schedule
(2022)

Lecture Timings:

Every Wednesday: 0800-0850hrs

| Sr. No. | Date | Topic | Delivered by |
|---------|--------------------------------|---|-------------------------|
| 1. | 05/01/2022 | Introduction to Prosthodontics | Dr. Muhammad Afzal |
| 2. | 12/01/2022 | Introduction to partial dentures and Parts of removable partial dentures | Dr. Muhammad Afzal |
| 3. | 19/01/2022 | Classification of partially edentulous arches | Dr. Saira Ibrahim |
| 4. | 26/01/2022 | Surveying | Dr. Muhammad Afzal |
| 5. | 02/02/2022 | Means of Retention – types of clasp | Dr. Muhammad Afzal |
| 6. | 09/02/2022 | Means of support – Rest | Dr. Saira Ibrahim |
| 7. | 16/02/2022 | Class Test 1 | |
| 8. | 23/02/2022 | Connectors - Maxilla | Dr. Saira Ibrahim |
| 9. | 02/03/2022 | Connectors - Mandible | Dr. Saira Ibrahim |
| 10. | 09/03/2022 | Artificial Teeth | Dr. Muhammad Afzal |
| 11. | 16/03/2022 | Setup of teeth | Dr. Muhammad Afzal |
| 12. | 23/03/2022 | Pakistan Day - Holiday | |
| 13. | 30/03/2022 | Block I - Preclinical Operative / Preclinical Prosthodontics exam | |
| 14. | 06/04/2022 | Processing & finishing partial dentures | Dr. Muhammad Afzal |
| 15. | 13/04/2022 | Anatomical landmarks – Maxilla | Dr. Abdul Mueed Zaigham |
| 16. | 20/04/2022 | Anatomical landmarks – Mandible | Dr. Abdul Mueed Zaigham |
| 17. | 27/04/2022 | Impression trays and construction of special trays | Dr. Muhammad Afzal |
| 18. | 03/05/2022 – 05/05/2022 | Eid Holidays | |
| 19. | 11/05/2022 | Types of Dental casts and wax up for maxilla and mandible | Dr. Saira Ibrahim |
| 20. | 18/05/2022 | Class Test 2 | |
| 21. | 25/05/2022 | Record bases and Flasking process | Dr. Muhammad Afzal |
| 22. | 01/06/2022 | Dewaxing, packing and finishing of acrylic base plates | Dr. Muhammad Afzal |
| 23. | 08/06/2022 | Occlusal rims | Dr. Hina Zafar Raja |
| 24. | 11/06/2022 – 17/07/2022 | Summer Vacations | |
| 25. | 21/07/2022 | | |
| 26. | 27/07/2022 | Block II - Preclinical Operative / Preclinical Prosthodontics exam | |
| 27. | 03/08/2022 | Introduction to Articulators | Dr. Muhammad Afzal |
| 28. | 10/08/2022 | Classification of articulators and process of articulation | Dr. Muhammad Afzal |
| 29. | 17/08/2022 | Occlusion in complete dentures | Dr. Muhammad Afzal |

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|-----|------------------------------|---|--------------------|
| 30. | 24/08/2022 | Occlusion in complete dentures | Dr. Muhammad Afzal |
| 31. | 31/08/2022 | Tooth setup – Upper and lower anteriors | Dr. Muhammad Afzal |
| 32. | 07/09/2022 | Tooth setup – Upper and lower posteriors | Dr. Muhammad Afzal |
| 33. | 14/09/2022 | Class Test 3 | |
| 34. | 21/09/2022 | Wax up, processing of dentures, Finishing of dentures | Dr. Muhammad Afzal |
| 35. | 28/09/2022 | Finishing of dentures and Spot grinding/ parts and surfaces of denture | Dr. Muhammad Afzal |
| 36. | 05/10/2022 | Revision Lectures | Dr. Muhammad Afzal |
| 37. | 12/10/2022 | Revision Lectures | Dr. Muhammad Afzal |
| 38. | 19/10/2022 | Revision Lectures | Dr. Muhammad Afzal |
| 39. | 22/10/2022– 30/10/2022 | Prep Leaves | |
| 40. | 09/11/2022 | Pre-Annual Theory exam Pre-Clinical Prosthodontics | |
| 41. | 10/11/2022 – 16/11/2022 | Pre-Annual Practical exam Pre-Clinical Prosthodontics | |
| 42. | 17/11/2022– 4/12/2022 | Prof Prep leaves | |
| | 05-16 th Dec 2022 | Professional Exam Preclinical Operative / Preclinical Prosthodontics | |

Pre-Clinical Prosthodontics Dentistry

2nd Year BDS (2022)

Lab Demonstration Schedule

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 | Topic | Instructor | Contributors | Batches |
|----------|--|------------|---|---------|
| 05-01-22 | Introduction to laboratory instruments | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 06-01-22 | Introduction to laboratory instruments | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 12-01-22 | Pouring of dentate and edentate molds - Cast Making | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |

| | | | | |
|----------|--|-----------|---|---------|
| 13-01-22 | Pouring of dentate and edentate molds - Cast Making | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 19-01-22 | Identification of Anatomical landmarks Maxilla and Mandible | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 20-01-22 | Identification of anatomical landmarks Maxilla and Mandible | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 26-01-22 | Clasp fabrication | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 27-01-22 | Clasp fabrication | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 02-02-22 | Waxup and occlusal rim fabrication of P/D | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 03-02-22 | Waxup and occlusal rim fabrication of P/D | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 09-02-22 | Articulation of P/D | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 10-02-22 | Articulation of P/D | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 16-02-22 | Tooth setup for P/D Upper and Lower Anterior Teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 17-02-22 | Tooth setup for P/D Upper and Lower Anterior Teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 23-02-22 | Tooth setup for P/D Upper and Lower Posterior Teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 24-02-22 | Tooth setup for P/D Upper and Lower Posterior Teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |

| | | | | |
|--------------------------------|--|-----------|---|---------|
| 02-03-22 | Flasking of P/D & acrylic packing (4 flasks) | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 03-03-22 | Flasking of P/D & acrylic packing (4 flasks) | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 7/3/2022 to 13/3/2022 | SPORTS DAY | | | |
| 16-03-22 | Finishing of partial denture | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 17-03-22 | Finishing of partial denture | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 23/3/2022 | Gazetted HOLIDAY | | | |
| 25/3/2022 to 4/4/2022 | BLOCK 1 EXAM | | | |
| BLOCK II (14- 30 Weeks) | | | | |
| 06-04-22 | Custom tray in autopolymerizing acrylic with spacer for edentulous arches | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 07-04-22 | Custom tray in autopolymerizing acrylic with spacer for edentulous arches | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 13-04-22 | Wax-up of upper and lower casts | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 14-04-22 | Wax-up of upper and lower casts | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 20-04-22 | Flasking and Dewaxing | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 21-04-22 | Flasking and Dewaxing | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 27-04-22 | Packing and curing | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 28-04-22 | Packing and curing | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |

| 3/5/2022 to 5/5/2022 | EID UL FITAR | | | |
|---------------------------------|--------------------------------|-----------|---|---------|
| 11-05-22 | Finishing of base plates | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 12-05-22 | Finishing of base plates | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 18-05-22 | Occlusal Rims | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 19-05-22 | Occlusal Rims | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 25-05-22 | Articulation | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 26-05-22 | Articulation | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 01-06-22 | Setup of upper anterior teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 02-06-22 | Setup of upper anterior teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 08-06-22 | Setup of lower anterior teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 09-06-22 | Setup of lower anterior teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 11/6/2022 to 17/7/2022 | SUMMER VACATIONS | | | |
| 22/7/2022 to 1/8/2022 | BLOCK II EXAM | | | |
| BLOCK III (31- 46 Weeks) | | | | |
| 03-08-22 | Setup of upper posterior teeth | Dr. Afzal | Dr. Mahum Mansoor Dr. Qurat-ul-Ain Dr. Sannan Qayyum | Batch A |

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|-----------------------------|--|-----------|---|---------|
| 04-08-22 | Setup of upper posterior teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 8/8/2022 to 9/8/2022 | ASHURA | | | |
| 11-08-22 | Setup of lower posterior teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 12-08-22 | Setup of lower posterior teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 17-08-22 | Waxup, carving and festooning | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 18-08-22 | Waxup, carving and festooning | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 24-08-22 | Flasking, dewaxing & acrylic packing (4 flasks) | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 25-08-22 | Flasking, dewaxing & acrylic packing (4 flasks) | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 31-08-22 | Finishing of denture & Spot grinding | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 01-09-22 | Finishing of denture & Spot grinding | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 07-09-22 | Spot grinding | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 08-09-22 | Spot grinding | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 14/9/2022 | Revision | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch A |
| 15/9/2022 | Revision | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir | Batch B |
| 22/10/2022 to 30/10/2022 | Prep Leave for Pre-Annual Exam | | | |
| 31/10/2022 to 16/11/2022 | Pre-Annual Exam | | | |

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|------------------------------|--|
| 11-09-22 | Pre-clinical Operative/ Pre-clinical Prosthodontics Written Exam |
| 10, 11, 14, 15, 16 Nov, 2022 | Pre-clinical Operative/ Pre-clinical Prosthodontics Practical Exam |
| 17/11/2022 to 4/12/2022 | Prep Leave for Annual Exam |
| 05/12/2022 to 16/12/2022 | NUMS University Annual Exam |

Pre-Clinical Prosthodontics Dentistry

2nd Year BDS (2022)

Tutorial Schedule / Small Group Discussion

Venue: Lecture Hall J / Conference Hall, 1st Floor

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

| Date | Topic | Instructor | Contributors |
|-----------|---|------------|---|
| 3-Jan-22 | Introduction to laboratory instruments | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 17-Jan-22 | Pouring of dentate and edentate molds - | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 31-Jan-22 | Identification of Anatomical landmarks + Clasp fabrication | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 14-Feb-22 | Waxup and occlusal rim fabrication of P/D + Articulation of P/D | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 28-Feb-22 | Tooth setup for P/D Upper and Lower Anterior and Posterior Teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 21-Mar-22 | Flasking & acrylic packing + Finishing of P/D (4 flasks) | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 4-Apr-22 | Block Exam I | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 18-Apr-22 | Custom tray in acrylic for edentulous arches + Wax-up | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |

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| 2-May-22 | Flasking and Dewaxing + Packing and curing | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 16-May-22 | Finishing of base plates | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 30-May-22 | Occlusal Rims + Articulation | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 13-Jun-22 | Summer Vacation | | |
| 27-Jun-22 | Summer Vacation | | |
| 11-Jul-22 | Summer Vacation | | |
| 18-Jul-22 | Setup of upper and lower anterior teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 25-Jul-22 | Block Exam - II | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 8-Aug-22 | ASHURA | | |
| 22-Aug-22 | Setup of upper and lower posterior teeth | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 5-Sep-22 | Waxup, carving and festoning + Flasking, dewaxing & acrylic packing (4 flasks) | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 19-Sep-22 | Finishing of denture & Spot grinding | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 3-Oct-22 | Revision | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 17-Oct-22 | Revision | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |

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|------------------------------------|---|-----------|---|
| 22/10/2022 to 30/10/2022 | Prep Leave for Pre-Annual Exam | | |
| 31/10/2022 to 16/11/2022 | Pre-Annual Exam | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 11-Sep-22 | Pre-clinical Operative/ Pre-clinical Prosthodontics Written Exam | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 10, 11, 14, 15, 16 Nov, 2022 | Pre-clinical Operative/ Pre-clinical Prosthodontics Practical Exam | Dr. Afzal | Dr. Saira Ibrahim Dr. Ayman Iftikhar Dr. Sana Alamgir |
| 17/11/2022 to 4/12/2022 | Prep Leave for Annual Exam | | |
| 05/12/2022 to 16/12/2022 | NUMS University Annual Exam | | |

Learning resources:

| Topic | Resource |
|---|---|
| Parts and Surfaces of a Complete Denture | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Anatomical Landmarks of Maxillary Arch and Mandibular Arch | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Impression Trays | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Impressions in Complete Denture | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Dental Casts | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Record Bases | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Occlusion Rim | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Articulators | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By Zarb 13th Edition |
| Artificial Teeth | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Teeth setup | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition • Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Denture processing | <ul style="list-style-type: none"> • Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition |

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| | <ul style="list-style-type: none"> Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Finishing and polishing of denture | <ul style="list-style-type: none"> Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Spot grinding | <ul style="list-style-type: none"> Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Prosthodontic Treatment for Edentulous Patients By: Zarb 13th Edition |
| Classification of Partially edentulous Arches and Applegate's Rules | <ul style="list-style-type: none"> Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Removable Partial Prosthodontics By Mc 'Crackens 12th Edition |
| Components of Cast Partial Denture | <ul style="list-style-type: none"> Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Removable Partial Prosthodontics By Mc 'Crackens 12th Edition |
| Rests | <ul style="list-style-type: none"> Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Removable Partial Prosthodontics By Mc 'Crackens 12th Edition |
| Direct Retainers | <ul style="list-style-type: none"> Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Removable Partial Prosthodontics By Mc 'Crackens 12th Edition |
| Indirect Retainers | <ul style="list-style-type: none"> Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition Removable Partial Prosthodontics By Mc 'Crackens 12th Edition |
| Surveying | <ul style="list-style-type: none"> Preclinical Manual of Prosthodontics By: S Lakshmi 3rd edition 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; 20 MCQs (20 Marks) and 4 SAQs/SEQs (20 Marks) for the year 2021-2022. It may be changed after the approval of Academic Council.
- e. Allocated time for MCQs for 2021-2022 shall be as under:

| | | |
|---------|---|------------|
| 20 MCQs | - | 30 Minutes |
| 30 MCQs | - | 40 Minutes |
| 40 MCQs | - | 50 Minutes |

45 MCQs - 60 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: -

| Sr. No | Topic | No of MCQs (30) (01 marks each) | No. of SEQs (09) |
|--------------------|---------------------------------|------------------------------------|---------------------|
| 1 | Complete denture prosthodontics | 14 (14 marks) | 03 |
| 2 | Removable partial denture | 6 (06 marks) | 01 |
| Total | | 20 (20 marks) | 04 (20 marks) |
| Grand Total | | Marks | 40 |

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 | = 80 | Date: _____ |
| Pass Marks | = 40 | |

40 x MCQs (on separate sheet) (40 Marks) (Time: 50 min)

08 x SEQs (05 marks each) (40 Marks) (Time: 2hrs 10 min)

| Part A – Preclinical Prosthodontics | | | | |
|--|---------|--------------------|-----------|----------|
| 01 | MCQ | 20 (01 mark each) | 20 Marks | 40 Marks |
| 02 | SEQ/SAQ | 04 (05 marks each) | 20 Marks | |
| Part B – Preclinical Operative Dentistry | | | | |
| 01 | MCQ | 20 (01 mark each) | 20 Marks | 40 Marks |
| 02 | SEQ/SAQ | 04 (05 marks each) | 20 Marks | |
| Total | | | 80 Marks | |
| Internal Assessment of both subjects | | | 20 Marks | |
| Grand Total | | | 100 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)

| Exams | Weightings | Exams | Percentage |
|---|------------|------------------------|-------------|
| End of Block & Pre- annual Exams | 80% | End of Block Exam- I | 20 |
| | | End of Block Exam- II | 20 |
| | | End of Block Exam- III | 20 |
| | | Pre- Annual Exam | 20 |
| Modular/ Class Performance | 20% | Class tests | 20 |
| Total | 100% | | 100% |

(b) Practical: Internal Assessment calculation (20 Marks)

| Exam | Weightage | Exams | Percentage |
|------------------------------------|-----------|------------------------|-------------|
| End of Block and Pre- annual Exams | 80% | Quota work assigned | 60% |
| | | Pre-annual Practical | 20% |
| Class Performance | 20% | SGD/CBL/PBL/ Practical | 20% |
| Total | 100% | | 100% |

Table of specifications for Annual Professional Exam: Practical

| Internal assessment | VIVA | | Practical | | | Total |
|---------------------|------------|------------|---------------------|----|-----------------|-----------------|
| | Examiner 1 | Examiner 2 | Operative Procedure | | Chair side Viva | |
| 10 Marks | 10 Marks | 10 Marks | 5 | 10 | 5 | 50 Marks |

TABLE OF SPECIFICATIONS DETAILED

| S. No | Topic | No. of MCQs (22) 01 mark each | No. of SAQs/SEQs (05) 05 marks each |
|--------------------|--|--|--|
| 1. | Anatomical landmarks Maxilla and Mandible | 02 | 01 |
| 2. | Impression trays, Dental Casts and Record bases | 02 | 01 |
| 3. | Occlusal Rims and articulators | 02 | |
| 4. | Artificial teeth | 02 | 01 |
| 5. | Arrangement of teeth Maxilla and Mandible | | |
| 6. | Occlusion in complete dentures | | |
| 7. | Laboratory procedures | | |
| 8. | Spot grinding | | |
| 9. | Classification of partially edentulous arches | 02 | 01 |
| 10. | Components of partial denture: Rests, Connectors, Indirect Retainers, Denture Base | 04 | |
| 11. | Retainers | | |
| 12. | Surveying | | |
| Total | | 20 (20 Marks) | 04 (20 Marks) |
| Grand Total | | 40 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.

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.