

**STUDY GUIDE 2025**

**BDS Final Year**

**INSTITUTE OF DENTISTRY**

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## Introduction to Study Guide

Welcome to the Final Year BDS program at CMH Lahore Medical College & Institute of Dentistry. This study guide has been created especially for you to serve as a reliable companion throughout your academic year. It is designed not only to share what you will study, but also to explain why each part of your training is important and how it contributes to your development as a future dental professional. Inside this guide, you will find the program outcomes, block-wise and module-wise objectives, teaching methods, contact hours, and assessment strategies. By having all this information in one place, you can plan your studies more effectively, stay organized, and approach each subject with clarity.

One of the most valuable aspects of this guide is its integrated approach. You will see how each subject connects with each other, and how these foundations link with your future dental practice. This not only makes learning meaningful but also prepares you to think critically and apply knowledge in real clinical settings. Beyond academics, this guide also highlights institutional policies, feedback opportunities, and support services available to you. It emphasizes the values of professionalism, ethics, leadership, and research, which are vital qualities for any healthcare provider.

Remember, this study guide is not just a document—it is a learning tool meant to empower you. Use it to track your progress, align your efforts with assessments, and make the most of the resources available. By taking ownership of your studies and following the structure provided here, you will be able to build strong foundations and set yourself up for success in dentistry.

We are confident that, with your dedication and the support of your faculty, this guide will help you excel in your academic year BDS at CMH LMC & IOD.

Wishing you a rewarding and successful journey ahead!

School of Health Professions Education  
CMH Lahore Medical College & Institute of Dentistry

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## **Vision of National University of Medical Sciences**

To be the best medical university by conducting world-class bio-medical research and creative research activities that develop knowledge and contribute to improve the health care system and social advancement for the people of Pakistan and benefit humanity as a whole with a standard of excellence.

## **Mission of National University of Medical Sciences**

Our mission is to emphasize rigorous research fundamentals while stimulating innovation and providing talented students and faculty with the high standard research facilities in the colleges/institutions of NUMS, necessary to achieve excellence in bio-medical research to contribute toward best care for our individuals and communities, embraces the challenges of health disparities and improve health care system up to international standards.

## **Vision of CMH Lahore Medical College and Institute of Dentistry**

To be a leading institute in medical education that provides an inclusive and conducive environment to foster excellence in teaching, learning, acquisition of clinical skills, research, and innovation to improve future health indicators within our region and beyond.

## **Mission of CMH Lahore Medical College and Institute of Dentistry**

To improve healthcare by:

1. Providing quality medical education that prepares healthcare professionals according to internationally accepted benchmarks for empathy, social accountability, lifelong learning, critical thinking, and sound clinical acumen.
2. Ensuring a conducive and equitable learning environment in research and continuous professional development for students and faculty respectively, enabling their success in national and international licensure examinations and opportunities.
3. Fostering evidence-based and patient-centered care to efficiently address global healthcare challenges, focusing on prevention and community health improvement.

## **Vision of Institute of Dentistry**

To advance dental education, research, and oral health care..

## **Mission of Institute of Dentistry**

- Prepare learned, skilled, and ethical dental professionals for comprehensive and evidence-based practice.
- Conduct research to advance knowledge and practices.

- Promote community oral health and disease prevention.

## Rationale for Sequencing of BDS Curriculum

The planned competency-based curriculum for BDS at Institute of Dentistry, CMH Lahore Medical College, was developed under the supervision of the National University of Medical Sciences (NUMS). It is designed following the principles of Harden's Integration Ladder. The integrated curriculum incorporates major elements from Harden's Level 7 (Correlation) and some components from Level 8 (Complementary Programme) Click or tap here to enter text..

The integrated curriculum comprises of five vertically aligned themes spanning across four academic years of BDS program. Each theme includes a number of sub-themes that are presented as modules for horizontal and vertical integration and to ensure temporal coordination. These modules are systematically organized and divided into blocks for balanced distribution of curriculum content. Specific topics within each module are identified for integrated sessions, which is a requirement for Harden level 7 (Correlation) .

The sequence of courses/modules and alignment, which may be viewed in curriculum map, is based on Pakistan Medical & Dental Council (PM&DC) ( and Higher Education Commission (HEC) guidelines 4 . The *Z-shaped* curriculum model is adopted. In this educational approach students initiate with most content of basic science education with early clinical exposure, progressively moving to advanced level with more clinical education towards program completion. The vertical themes ensure that the topics are revisited throughout subsequent years providing an essence of spiral integrated curriculum Click or tap here to enter text..

As the subject boundaries have been maintained, approximately 80% content of each subject is covered in the relevant year, while the remaining 20% is integrated vertically across rest of the years. This strategy promotes inter-connected learning across various subjects promoting the main aim of integration i.e. better understanding and relevance Click or tap here to enter text..

Assessment strategies are aligned with the block-wise distribution of content, promoting coherence and ensuring a comprehensive evaluation of students' competencies in knowledge, skills and attitudes.

## BDS Program Outcomes

At completion of four-year BDS program, dental graduates of Institute of Dentistry CMHLMC will be able to:

1. Manage diverse patients with common oral and dental diseases using patient-centered evidence-based dentistry.
2. Identify and refer patients requiring specialized oral health care.
3. Advocate preventive measures to address community oral health needs.
4. Demonstrate appropriate verbal and written communication skills.
5. Display professional, equitable, ethical and culturally appropriate behavior.
6. Engage in life-long learning for continuous professional development.
7. Demonstrate basic research skills on oral health issues.
8. Work in health care teams and provide leadership where required.

# Curricular Framework

BDS 4 Years Curricular Framework			
Scheme Of Studies			
1st Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Final Year
Anatomy + Clinical Lectures	Science of Dental Material	Periodontology	Prosthodontics
Physiology+ Clinical Lecture	Gen. Pathology & Microbiology	Oral Pathology	Operative Dentistry
Biochemistry + Clinical Lecture	Pharmacology	Oral Medicine	Oral & Maxillofacial Surgery
Oral Biology & Tooth Morphology + Clinical Lecture / Clinical Rotation	Behavioural Sciences	Gen. Medicine	Orthodontics
Pak studies & Islamic Studies	Community & Preventive Dentistry	Gen. Surgery	
	Pre- Clinical Prosthodontics	Oral & Maxillofacial Surgery	
	Pre- Clinical Operative Dentistry	Prosthodontics	
		Behavioural Sciences	Paedontics
		Operative Dentistry	
Research Methodology			
Professionalism & Leadership			Dental Entrepreneurship
Expository Writing			
Computer Skills			
Dental Photography			

## Subjects in BDS Final Year

Following are the core subjects for Final Year BDS for which professional examination will be held at the end of the academic year:

1. Orthodontics
2. Oral & Maxillofacial Surgery
3. Prosthodontics
4. Operative Dentistry
5. Paedodontics
6. Dental Entrepreneurship

### Contact Hours Distribution for BDS Final Year

Teaching and Learning weeks = 40

Subject	Contact Hours (NUMS & PM&DC)
Orthodontics	250
Oral & Maxillofacial Surgery	250
Prosthodontics	250
Operative Dentistry	250
Paedodontics	100
Dental Entrepreneurship	25
<b>Total</b>	<b>1125</b>

## Evaluation of the Course

The major goals of the evaluation are to monitor quality of teaching and assessment and improve the implemented curricula's.

- Feedback through CMS will be taken at the end of block from students and faculty members.
- LQEC receives recommendation from Evaluation Committee comprising of
  - Head of LQEC: Dr. Rizwana Kamran (Associate Professor SHaPE)
  - Any one student from each academic year.
  - Representation from each academic year.
- LQEC generates reports to be shared with the yearly curriculum and institutional curricular committee for implementation of recommendation from students and faculty members.

## Online Learning & Assessment

The COVID-19 pandemic has transformed education, introduced new challenges while fostered innovation catering for the unforeseen situations: Now institutions within Pakistan and across the world are expected to be ready to resume online learning and assessment in times of emergency. The Learning Management System (LMS) at CMH LMC & IOD ensures that online education is standardized, interactive, and aligned with academic and professional requirements.

Switch over to online learning will be notified a day before or on the same day before the first academic session depending upon the nature of national emergency situation.

The LMS combines Moodle and Zoom, designed to meet the needs of students. Key features include:

- **Access to Courses:** Students can view recorded lectures, access course materials, and engage with faculty.
- **Attendance Verification:** Attendance is tracked using a dual system:
  - Moodle login records.
  - Mandatory quizzes after each lecture (not-graded).
- **Progress Monitoring:** Regular assessments such as quizzes and assignments track students' performance.

## Feedback Mechanisms

Integrated evaluation forms enable students and faculty to provide input for continuous improvement.

To ensure privacy and security:

- Students: Receive personalized logins to access course materials.
- Faculty: Have permissions to upload content, grade assignments, and track student progress.
- SHaPE & QEC: Monitor and evaluate LMS activities to monitor quality.
- IT Support: Manage user accounts, system updates, and security.

Special access requests are managed through the CE Secretariat in consultation with the IT department. Assessments are designed to support learning and maintain academic rigor:

- Formative Assessments: Quizzes and assignments contribute to assessment for learning but do not count toward final grades.
- Summative Assessments: Online term exams and send-ups.
- Feedback and Quality Assurance: Student evaluations collected through QEC proformas ensure ongoing improvement of online teaching practices.

## Year-wise Curriculum Committee – BDS Final Year

Name	Department	Designation	Ext. no.
Prof. Dr. Abdul Mueed Zaigham	Prosthodontics	HOD & Professor <i>Convener Final Year BDS</i>	320
Prof. Dr. Haris Khan	Orthodontic	Professor & HOD	380
Prof. Dr. Asad Aizaz Chatha	Oral & Maxillofacial Surgery	Professor & HOD	370
Prof. Dr. Arham Nawaz Chohan	Pediatric Dentistry	Professor & HOD	310
Prof. Dr. Umm e Rubab Sherazi	Operative Dentistry	Professor & HOD	315
L.t Col. Khizer Iqbal Mufti	Student Affairs	AD (Students Affairs)	410
Dr. Khawar Bashir	Institutional Examination Cell	Dy Controller IEC	615
Dr. Shakila Mushtaq	SHaPE	HOD Dental Education & Research	393
Student representation		BR, GR	

# CMH Lahore Medical College - Policies

- Attendance and disciplinary policy <https://cmhlahore.edu.pk/wp-content/uploads/2024/10/std-policy.pdf>
- Policy for Steering Committee for the Selection of Class Representatives (BR and GR) Based on Student Feedback <https://cmhlahore.edu.pk/wp-content/uploads/2025/01/Steering-committee.pdf>
- Social Media Policy for Faculty, Staff, and Students <https://cmhlahore.edu.pk/wp-content/uploads/2024/02/Social-Media-Policy-for-students-02-08-2023.pdf>
- Code of Conduct <https://cmhlahore.edu.pk/wp-content/uploads/2024/02/SOP-Code-of-Conduct-27-02-24.pdf>
- Internet Usage Policy <https://www.cmhlahore.edu.pk/wp-content/uploads/2023/09/CMH-Internet-Usage-Policy-02-08-2023.pdf>
- Healthcare Facility <https://www.cmhlahore.edu.pk/wp-content/uploads/2023/09/Health-Care-Facility.pdf>
- Complaint Cell <https://www.cmhlahore.edu.pk/wp-content/uploads/2023/09/Complaint-Cell-CMH-LMC-IOD.pdf>
- Retake Policy (For Internal Assessment Only) <https://www.cmhlahore.edu.pk/wp-content/uploads/2023/05/ion-Updated-Retake-Policy-2.pdf>
- Drug and tobacco abuse/smoking <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/SOP-Drug-and-Tobacco.pdf>
- Sexual harassment <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/Sexual-Hars-policy.pdf>
- Disciplinary Committee Policy <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/Disciplinary-Committee-Policy.pdf>
- Co-curricular Activities <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/Co-curricular-privacy-policy.pdf>
- Electives Policy <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/electives-policy.pdf>
- CMH LMC Formative Assessment and Feedback Policy <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/CMH-LMC-Formative-Assessment-and-Feedback-Policy.pdf>

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## Assessment Plan for BDS

- The assessment plan comprises 3 block exams (1<sup>st</sup> year to 3<sup>rd</sup> year)/ 2 term exams (final year), 1 send-up, and 1 professional examination. Examination consists of one-best multiple-choice questions and short essay type questions along with OSPE/OSCE. All exams except for University's exam/professional exam contribute towards internal assessment of the respective subjects according to the institutional policy. The assessment schedule is given below:

Type of Assessment	Weightage	Frequency and Time	Methods/ Tools for Assessment
Formative		Informally during and after the session	Class tests (MCQs, SEQs, SAQs), Class presentations, Assignments, Tutorials, Case Based Discussions, Portfolios
Summative	Continuous Internal assessment 20%	3 block exams (1 <sup>st</sup> year to 3 <sup>rd</sup> year), 2 term exams (final year), Send up (before the professional exam) (80%)  Attitude/ behavior/ attendance/ assignments/ achievements (throughout the year) (20%)	MCQs, SAQs, SEQs, OSPE, OSCE, CBD, Viva, Log Books, Mini-Cex, DOPS
	University exam 80%	Once at the end of academic year	

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- Code of Conduct <https://cmhlahore.edu.pk/wp-content/uploads/2024/02/SOP-Code-of-Conduct-27-02-24.pdf>
- Internet Usage Policy <https://www.cmhlahore.edu.pk/wp-content/uploads/2023/09/CMH-Internet-Usage-Policy-02-08-2023.pdf>
- Healthcare Facility <https://www.cmhlahore.edu.pk/wp-content/uploads/2023/09/Health-Care-Facility.pdf>
- Complaint Cell <https://www.cmhlahore.edu.pk/wp-content/uploads/2023/09/Complaint-Cell-CMH-LMC-IOD.pdf>
- Retake Policy (For Internal Assessment Only) <https://www.cmhlahore.edu.pk/wp-content/uploads/2023/05/ion-Updated-Retake-Policy-2.pdf>
- Drug and tobacco abuse/smoking <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/SOP-Drug-and-Tobacco.pdf>
- Sexual harassment <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/Sexual-Hars-policy.pdf>
- Disciplinary Committee Policy <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/Disciplinary-Committe-Policy.pdf>
- Co-curricular Activities <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/Co-curricular-privacy-policy.pdf>
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- CMH LMC Formative Assessment and Feedback Policy <https://www.cmhlahore.edu.pk/wp-content/uploads/2022/11/CMH-LMC-Formative-Assessment-and-Feedback-Policy.pdf>

# Orthodontics

Topic / Theme	Course Content	Learning Outcomes	Instructional Strategies
		At the end of each module, student will be able to	
<b>1. Introduction to Orthodontics</b>			
<b>Introduction to Orthodontics</b>	Definition, Branches of orthodontics and mm orthodontic treatment (IOTN), Terminologies, Background and Paradigm.	Identify the branches of orthodontics and evaluate need and severity of orthodontic problems. Apply pertinent knowledge on patients.	Lecture/ CBL
<b>Epidemiology</b>	Describe the epidemiology of malocclusion including incidence and prevalence.	Describe different research design interpret various terms used to describe Orthodontic problems	Lecture/ CBL
<b>2. Growth &amp; Development</b>			
<b>Growth &amp; Development</b>	Definition, Theories, Sites and Centers, Pre & post- natal growth of maxilla, mandible, Naso-maxillary complex, palate, TMJ growth and development. Growth assessment parameters, Cervical maturation stages, Describe changes in face form and profile, Developmental Abnormalities, mm. Psychological and social impact of abnormal growth and malocclusion	Understand the concept of normal and abnormal pattern of growth and development of craniofacial complex. Understand the malocclusion process as a deviation from normal growth.	Lecture/ CBL
<b>Development of dentition</b>	Definition of primary, mixed and permanent dentition. Development of teeth and eruption. Dimensional changes in the dental arches during different dentition periods, prenatal development, variation in Development including size, form, number and position of teeth and factors effecting development. Nolla's Stages.	Understand the concept of normal and abnormal pattern of growth and development of dentition Evaluate the deviation from normal to abnormal dental development/ malocclusion	Lecture/ CBL
<b>3. Diagnostic Aids in Orthodontics</b>			
<b>Diagnosis of Malocclusion</b>	Obtain comprehensive history, Extra-oral and Intra- oral examination, Examination of teeth, Appraisal of soft tissue, Functional analysis, Plan the necessary investigation, maintain appropriate diagnostic record, Analyze and interpret the records, Outline the management protocol, Communicate with the patient informing the probable prognosis and financial involvement/	Formulate a comprehensive diagnosis Analyze the diagnostic records Evaluate the patient clinically.	Lecture/ CBL
<b>Diagnostic Techniques</b>	Obtain impression and plaster model, Technical procedure for impression and plaster model, Analysis of the	Normal to abnormal dental development/ malocclusion	Lectures/ CBL

Topic / Theme	Course Content	Learning Outcomes	Instructional Strategies
		At the end of each module, student will be able to	
	study model to assess tooth-jaw discrepancy: Arch perimeter, arch length, arch width, Intra-oral radiograph, Intra-oral and facial photograph, Define cephalometry, Anthropological sources and development of cephalometrics, Objectives of cephalometric tracings. Cephalometric Landmarks- Cranial, Maxillary and Mandibular, Cephalometric Analysis- Dental, Skeletal and Skeletal-Dental Analysis, Orthopantomogram X-Ray and importance of it in Orthodontic Treatment)		
<b>Dental Radiology</b>	Roentgen anatomy of teeth, jaws and tmj joints, Variations within normal limits, and abnormalities, Different types of X ray machines, Variation of X ray films (extra oral, intra oral, bite wing and occlusal), indication and use of dental radiography, Interpretation of films and Radiation hazards.	Define and recognize radiographs. Able to interpret simple radiological finding of orthodontic problems	Lectures
<b>4. Occlusion</b>			
<b>Occlusion</b>	Define normal and abnormal occlusion, Ideal occlusion (definition) Andrew's six keys of occlusion, CO-CR and canine guided group function.	Recognize ideal occlusion and differentiate disharmony.  Examine the occlusion Identify and interpret malocclusion	Lecture/ CBL
<b>5. Basis</b>			
<b>Bone Metabolism</b>	Describe different tissue changes, Difference between physiologic movement and orthodontic movement, Describe Pathophysiological change of tissue, Histopathological changes at the pressure and tension area, List the types of tooth movement, explain effect of normal and excessive force, Explain the tissue changes with different types of appliances including the myo-functional appliance, Explain the biological basis of Orthodontics Therapy, Effect of drugs, State favorable and unfavorable incidence of tooth	Recognize the normal bone metabolism and relate with Orthodontic tooth Movement.  Compare normal and abnormal force levels and identify deleterious orthodontic effects	Lecture/ CBL

Topic / Theme	Course Content	Learning Outcomes	Instructional Strategies
		At the end of each module, student will be able to	
	movement, Role of bone in eruption and stabilization Deleterious effects of orthodontic tooth movement on periodontium)		
<b>6. Malocclusion</b>			
<b>Etiology Of Malocclusion</b>	Definition, Etiological Factors (local factors eg tooth size, number and shape) (general factors) (specific causes of malocclusion Adenoids, respiration and speech) and various terminologies.	Identify the cause of malocclusion.	Lectures/CBL
<b>Malocclusion and Treatment planning</b>	Class I (non skeletal) problem eg crowding, spacing, cross bites, open bite and deep bite), Class II (skeletal problem, div 1 and 2) and Class III (types), planning, diagnosis and management, Diagnosis, planning and treatment of simple and complex malocclusion using a range of: Removable, Functional and Fixed appliance. Describe method of treatment, Types of Orthodontic Appliances, Tooth-jaw discrepancy, Extraction and non-extraction planning, A criterion and choice of teeth for extraction, Contraindication for extraction, Extraction with Orthodontic Treatment	Identify orthodontic problems and its features Organize a problem list. Mm Formulate a treatment plan.	Lectures/CBL
<b>7. Protocols During Mixed Dentition</b>			
<b>Protocols used in relieving dental and skeletal problems during mixed dentition</b>	Protocols of relieving mixed dentition crowding, Diagnosis & management of Habits, serial extractions, cross bites, space regaining, space supervision and Growth modifications, various appliances used. Explain interceptive and preventive orthodontics and methods.	Identify Design/ construct simple orthodontic appliances.	Lectures/CBL
<b>8. Orthodontic Appliances and Biomechanics</b>			
<b>Orthodontic Appliances</b>	<b>Removable Appliance</b> (Definition, Basic requirement of an Orthodontic appliance, General wire bending exercise, Design and construction of different springs and clasps, Components of removable appliance, Describe general principle of design and fabrication of removable appliance, State the type of appliance for different tooth movements, e.g. labiolingual, expansion and contraction of arches,	Identify and differentiate different orthodontic appliances Design and construct simple removable orthodontic appliances.	Lectures/CBL

Topic / Theme	Course Content	Learning Outcomes	Instructional Strategies
		At the end of each module, student will be able to	
	<p>Construction of Hawley, Begg retainer and Bite planes, Trimming and Polishing, Insertion and advice for the patients, Follow up and adjustments, Care during treatment) Selective case presentation.</p> <p><b>Functional jaw orthopedics</b> (Describe Orthopedic force and its principles, Narrate Myo-functional appliance and describe its indication and contraindication, Technique and training for the construction of Myo-functional appliance, Clinical and laboratory steps in the construction of Class II and Class III Activator (Anderson/Mono block type) and Twin Block, Adjustment of activator after insertion in the oral cavity, Care during treatment) Selective case presentation.</p> <p><b>Fixed Appliances</b> (Describe Principles, identify parts and appliance system currently used, list the advantages and disadvantages, technique and training of Fixed appliance, general wire bending exercise, use of multiple loop used in Fixed appliance, upper and lower ideal arch formation, Offset and Inset bend, 1st, 2nd and 3rd order bend, Toe in and Tip back bend, Molar band formation and welding of molar tube in the band with ideal position, Cementing of the band, Weldable bracket positioning, Direct bonding technique of mesh Bracket.</p>		

### Practical and Clinical components

Sr N	Objectives	Time Allocation
1	<p><b>History and Clinical Examination:</b></p> <ul style="list-style-type: none"> <li>• Clinical evaluation of the patient</li> <li>• Impression Taking</li> <li>• Bite Registration</li> </ul>	23 hours
2	<p><b>Study model analysis:</b></p>	23 hours

	<ul style="list-style-type: none"> <li>• Cast Analysis</li> <li>• ALD</li> <li>• Bolton Analysis</li> <li>• Mixed Dentition Analysis</li> </ul>	
3	<p style="text-align: center;"><b>Wire Bending Exercise:</b></p> <ul style="list-style-type: none"> <li>• Construction of Adam’s Crib</li> <li>• Construction of Labial-Bow</li> <li>• Construction of Palatal Finger Spring</li> <li>• Construction of “Z” Spring</li> <li>• Construction of Buccal Canine Retractor</li> </ul>	46 hours
4	<b>Construction of Hawley’s Retainer</b>	23 hours
5	<p style="text-align: center;"><b>Cephalometric analysis:</b></p> <ul style="list-style-type: none"> <li>• <b>Sagittal Analysis:</b> &lt;SNA, &lt;SNB, &lt;ANB, AO-BO Distance, Anterior Cranial Base Length &amp; Mandibular Corpus Length.</li> <li>• <b>Vertical Analysis:</b> &lt;SN Mandibular Plane, &lt;MMA, &lt;Y axis, Sum of Posterior Angles &amp; Posterior Face Height: Anterior Face Height.</li> <li>• <b>Dental Analysis:</b> &lt;UI-SN, &lt;UI-PP, &lt;IMPA, &lt; IIA &amp; Hold away Ratio.</li> <li>• <b>Soft Tissue Analysis:</b> Distance of Upper Lip to E Line and S Line, Distance of Lower Lip to E Line and S Line &amp; &lt;Nasolabial</li> </ul>	46 hours
6	<b>Observation of Fixed Appliances Cases</b>	23 hours

## Oral & Maxillofacial Surgery

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
<b>1st Term 27th January 2025 to 1st June 2025</b>						
1	28-1-25	Tue	8:50	Introduction to OMFS and its scope	Introduction with the faculty, curriculum and course books for Oral and Maxillofacial Surgery Discussion regarding NUMS examination pattern for both written and OSCE components	P.A.A.C
2	30-1-25	Thu	8:00	Principles of OMFS	List steps of minor oral surgery procedures Describe the principles of aseptic and sterile surgical protocols Describe the principles of the following in oral surgery: pre- op, post-op and intra-op pain and anxiety control Therapeutic and prophylactic use of	P.A.A.C

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
					antibiotics Edema control Hemostasis and dead space management Access to facial skeleton Define these terms related to oral surgery flaps: height, base, apex, width, length, corners, sides, triangular, rectangular, submarginal, semilunar Describe basic principles of flap design in oral surgery Name suture materials and needles used in oral surgery.	
3	4-2-25	Tue	8:50	Wound Healing	Describe the physiology of wound repair (soft tissue and bone) by primary intention, secondary intention, healing of an extraction wound and osseointegration. Describe the factors that impair wound healing Classify nerve injuries (Seddon and Sunderland) Describe the principles of management of nerve injuries.	H.J
4	6-2-25	Thu	8:00	Systemic Medical Conditions 1	List components of medical history of patient requiring dental surgery Describe intraoral and extraoral examination for oral and maxillofacial problems.	H.J
5	11-2-25	Tue	8:50	Systemic Medical Conditions 2	Enumerate major signs and symptoms of compromised status of the following: CVS, Respiratory System, Endocrine System, Hematological disorders, Renal and hepatic disorders, GI system List of relevant investigations	H.N.M
6	13-2-25	Thu	8:00	Management of Medical Emergencies 1	List essential drugs and equipment required for managing medical emergencies in dental clinics. Identify the special needs of females undergoing dental surgery while they are pregnant, breastfeeding etc Identify the need of relevant medical emergencies	P.A.A.C

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
7	18-2-25	Tue	8:50	Management of Medical Emergencies 2	Administer basic life support in cases of medical emergencies Identify and administer initial management of the following medical emergencies: acute anaphylaxis, vasovagal syncope, foreign body inhalation and aspiration hyper/hypotension status, emergencies affecting any of the above mentioned systems	P.A.A.C
Annual Sports Day, 20th February 2025						
8	25-2-25	Tue	8:50	Local Anesthesia 1	Relate the nerve supply of the face and oral cavity Describe the pharmacological mechanism of action of contents of local anaesthesia Calculate the safe dose for lignocaine Select the armamentarium required for local anaesthesia and load syringe aseptically Describe the following local anaesthetic injection (infiltration) techniques: supra-periosteal, submucosal, sub-periosteal, intraosseous	PSQ
9	27-2-25	Thu	8:00	Local Anesthesia 2	Describe the following LA techniques of Mandibular Anaesthesia: Inferior Alveolar Nerve Block, Mental Nerve Block, Lingual Nerve Block, Gow-Gates Block, Vazirani Akinosi Block Describe the following LA techniques of Maxillary Anaesthesia: Anterior Superior Nerve Block, Middle Superior Nerve Block, Posterior Superior Nerve Block, Infra-Orbital Nerve Block, Greater Palatine Nerve Block Check Effectiveness of LA Explain the reasons of failure of LA in a case Select appropriate LA and technique Manage the complications and toxicity of LA	PSQ
10	4-3-25	Tue	8:50	Exodontia 1	Introduction to simple exodontia Elicit relevant medical and dental history Setting up the instrument tray Perform intraoral and extraoral	PSQ

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
					<p>examinations</p> <p>Ordering and interpreting of relevant investigations and reaching a diagnosis</p> <p>Enlist indications and contraindications for the removal of teeth</p> <p>Discuss the various instruments used in simple exodontia</p> <p>Principles of elevators</p> <p>Post operative patient care</p>	
11	6-3-25	Thu	8:00	Exodontia 2	<p>Enlist the indications for open extractions</p> <p>Select appropriate flaps for adequate access for complicated exodontia</p> <p>Describe the technique used for open extraction of single and multirrooted teeth</p> <p>Describe the procedure, to remove fractured root tips/fragments.</p> <p>State the justification for leaving root fragments in the socket.</p> <p>Plan the extraction sequence of multiple extractions</p> <p>Managing complications of exodontia</p>	PSQ
12	11-3-25	Tue	8:50	Class Test		
13	13-3-25	Thu	8:00	Armamentarium for Minor Oral Surgery	<p>Introduction to Minor Oral Surgery and the procedures done in MOS</p> <p>Familiarize students with instruments used in MOS</p>	H.J
14	18-3-25	Tue	8:50	Management of Impacted tooth 1	<p>Define an impacted tooth</p> <p>Name commonly impacted teeth and the reasons for their impaction.</p> <p>Enlist the indications and contraindications for removal of impacted teeth</p> <p>Classify impacted teeth and determine the level of difficulty for extraction</p>	P.A.A.C
15	20-3-25	Thu	8:00	Management of Impacted tooth 2	<p>Describe the management of a patient with an impacted third molar</p> <p>List and select appropriate treatment options for a patient with an impacted canine</p> <p>Describe the step wise surgical procedure for the removal of impacted teeth</p> <p>Take consent and enlist the potential risks</p>	P.A.A.C

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
					and complications for the removal of impacted teeth.	
16	25-3-25	Tue	8:50	Pre-prosthetic Surgery 1	<p>Enlist objectives of pre-prosthetic surgery</p> <p>Identify abnormalities of soft and hard tissues which interfere with denture construction and formulate a treatment plan</p> <p>Name and describe ridge extension, augmentation and correction procedures for mandible and maxilla.</p> <p>Discuss the complications of pre-prosthetic surgery</p>	B.M.A
17	27-3-25	Thu	8:00	Pre-prosthetic Surgery 2	<p>Briefly describe the principles of the following surgical procedures: alveoplasty simple, intraseptal (Dean's), tuberosity reduction, retromolar exostosis, undercuts correction, tori removal, mylohyoid ridge reduction, lateral palatal soft tissue excess removal, unsupported hypermobile tissue removal, labial and lingual frenectomy</p> <p>Describe the surgical protocol for immediate denture placement</p> <p>Describe methods of ridge preservation</p> <p>Describe the advantages and disadvantages of overdentures</p>	B.M.A
Spring Holidays, 31st March 2025 to 6th April 2025						
18	8-4-25	Tue	8:50	Class Test		
19	10-4-25	Thu	8:00	Periapical Surgery	<p>Name the different endodontic surgical procedures</p> <p>Order and interpret relevant investigations</p> <p>Discuss indications for surgical endodontic procedures</p> <p>List contraindications for surgical endodontics</p> <p>Select appropriate procedure flap, technique and material for surgical endodontics</p> <p>Discuss the post operative instructions after endodontic surgery</p>	P.A.A.C
20	15-4-25	Tue	8:50	Dentoalveolar Trauma	State etiology of maxillofacial trauma,	P.A.A.C

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
				1	facial soft and hard tissue injuries. Define abrasion, contusion and laceration Order and interpret relevant investigations	
21	17-4-25	Thu	8:00	Dentoalveolar Trauma 2	Describe the management of facial soft tissue injuries and close the intraoral soft tissue wound by sutures in a logical order Classify traumatic injuries to the teeth and supporting structures (WHO Classification)	P.A.A.C
22	22-4-25	Tue	8:50	Dental Implantology 1	Define dental implants and identify its components Define osseointegration, list factors influencing osseointegration Define the following terms related to dental implants: endosseous, root-form, cover screw, healing abutment Discuss types of implants Describe the following considerations for implant placement: soft tissue, hard tissue and biomechanical	PSQ
23	24-4-25	Thu	8:00	Dental Implantology 2	Assess the patient in need of dental implants by history, clinical examination and imaging State the perioperative management of dental implant placement Enlist complications of implant surgery and describe their management. Describe the surgical procedure for one stage, two stage and immediate dental implant placement Describe ridge augmentation and preservation, guided bone regeneration, onlay bone grafting, sinus lift and distraction osteogenesis for dental implant placement Briefly discuss the following special maxillofacial implants: zygomatic and extra-oral	PSQ
24	29-4-25	Tue	8:50	ATLS	List steps of ATLS evaluation (primary survey) of patient with maxillofacial trauma Describe the detailed clinical examination of maxillofacial trauma patient	H.N.M

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
Labor Day, 1st May 2025						
25	6-5-25	Tue	8:50	Mandibular Fractures	Classify mandibular fractures according to type, site, favorability to reduction Order and interpret relevant investigations Formulate treatment plans for mandibular fractures in adults and children Name possible complications of mandibular fractures	P.A.A.C
26	8-5-25	Thu	8:00	Maxillary Fractures	Classify mid and upper face fractures according to the type/site and level of fracture Order and interpret relevant investigations Discuss principles of management of midfacial fractures Describe management of patients with multiple facial injuries Name complications of mid and upper face fractures Describe considerations in the management of pediatric and geriatric maxillo-facial trauma Describe principles of management of firearm injuries involving the face. Identify instruments used in the management of OMF trauma	B.M.A
27	13-5-25	Tue	8:50	Zygomatic + Orbital Fractures	Discuss principles of management of fractures of zygomatic bone and arch and frontal bone	P.A.A.C
General Knowledge Quiz, 15th May 2025						
28	20-5-25	Tue	8:50	Management of Odontogenic Cysts	Classify jaw cysts Differentiate between radicular, dentigerous and keratocysts State the advantages and disadvantages for the management of jaw cysts and cyst like lesions e.g. enucleation and marsupialization.	P.A.A.C
29	22-5-25	Thu	8:00	Differential Diagnosis	Record the history of a patient with potentially malignant lesions in the oral and maxillofacial region Order and interpret relevant investigations Describe the adjuncts to clinical screening	H.N.M

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
					of suspicious lesions, including fluorescent light and vital staining State the indications of biopsy and describe each type of soft and hard tissue biopsy How to properly handle biopsy specimen	
30	27-5-25	Tue	8:50	NOE + Frontal Fractures	Describe the types of NOE and frontal fractures Discuss the management of NOE and frontal fractures Treat complications of NOE and frontal fractures	H.N.M
31	29-5-25	Thu	8:00	Management of Odontogenic Tumours	Describe the management of malignant tumours of the oral cavity according to histopathology, grade, extracapsular spread TNM staging	P.A.A.C
1st Term Exams, 2nd June 2025 to 8th June 2025						
Oral and Maxillofacial Surgery, 1st Term Exam, 5th June 2025						
Summer Vacations, 9th June 2025 to 6th July 2026						
2nd Term, 7th July 2025 to 23rd November 2025						
32	8-7-25	Tue	8:50	Odontogenic Diseases of Maxillary Sinus	Describe odontogenic and non-odontogenic infections of the maxillary sinus and their differential diagnoses Describe treatment of sinusitis Classify oro-antral communications according to size and describe their management according to the time elapsed. Enlist the common maxillary sinus tumours of odontogenic and non-odontogenic origin and describe their management	H.N.M
33	10-7-25	Thu	8:00	Dental Management of Patients on Chemo/ Radiotherapy	State the mechanism of action of radiotherapy, regimes of radiotherapy and list its adverse oral effects. Describe the dental management of patients undergoing radiotherapy of OMF region	B.M.A

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
					<p>Define osteoradionecrosis. Define its stages and management plan</p> <p>State the dental management of a patient undergoing systemic chemotherapy</p> <p>Define MRONJ</p> <p>State the management of a patient at risk of MRONJ needing dental extraction</p>	
34	15-7-25	Tue	8:50	Odontogenic Infections 1	<p>Order and interpret relevant investigations</p> <p>Discuss factors that govern the spread of odontogenic infections</p> <p>Diagnose and differentiate between edema, cellulitis and abscess.</p>	P.A.A.C
35	17-7-25	Thu	8:00	Odontogenic Infections 2	<p>Describe the spread and pathophysiology of following infections in the head and neck: odontogenic infection to primary and secondary fascial spaces, cavernous sinus thrombosis, orbital cellulitis, mediastinitis</p>	P.A.A.C
36	22-7-25	Tue	8:50	Odontogenic Infections 3	<p>Describe the spread and pathophysiology of following infections in the head and neck: Ludwig's Angina, Osteomyelitis, candidiasis, necrotizing fasciitis, actinomycosis</p> <p>Plan management of odontogenic infections</p> <p>Choose appropriate antibiotic(s) for odontogenic infections</p> <p>Justify prophylaxis against endocarditis and total joint replacement</p>	P.A.A.C
37	24-7-25	Thu	8:00	Overview of H & N Pathology 1	<p>Discussion on cysts, types, histopathology, treatment plan</p>	H.N.M
38	29-7-25	Tue	8:50	Overview of H & N Pathology 2	<p>Discussion on tumours, types, histopathology, treatment plan</p>	P.A.A.C
39	31-7-25	Thu	8:00	Management of Oral Cancer	<p>Describe the management of jaw tumours based on the types of resection: marginal, partial, total and composite</p> <p>Describe the management of benign soft tissue tumours</p> <p>Describe the management of potentially malignant (pre-malignant) lesions</p> <p>Describe the management of tumours based on: histopathology, grade and</p>	P.A.A.C

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
					extracapsular spreading, TNM staging	
40	5-8-25	Tue	8:50	Class Test		
41	7-8-25	Thu	8:00	Salivary Gland Diseases- Disorders	Describe pathophysiology and presentation of obstructive, retentive, infectious and neoplastic, salivary gland disease Describe various diagnostic modalities for salivary gland disorders	P.A.A.C
42	12-8-25	Tue	8:50	Salivary Gland Diseases - Benign & Malignant	Describe the principles of management of the following salivary gland disorders: sialolithiasis, mucocele, ranula, infections, pleomorphic adenoma, Warthin's tumour, mucoepidermoid carcinoma, adenoid cystic carcinoma, adenocarcinoma	P.A.A.C
Independence Day, 14th August 2025						
43	19-8-25	Tue	8:50	MRONJ	State the mechanism of action of radiotherapy, regimes of radiotherapy and list its adverse oral effects. Describe dental management of patients undergoing radiotherapy to OMF region. Define osteoradionecrosis. Describe its stages and management plan State the dental management of a patient undergoing systemic chemotherapy Define MRONJ State the management of a patient at risk of MRONJ needing dental extraction	H.N.M
44	21-8-25	Thu	8:00	Orthognathic Surgery 1	Describe the pre-surgical preparation for orthognathic surgery patient. Enlist objectives of orthognathic surgery	P.A.A.C
45	26-8-25	Tue	8:50	Orthognathic Surgery 2	Discuss surgical procedures of orthognathic surgery Post operative care following post operative orthognathic surgery	P.A.A.C
46	28-8-25	Thu	8:00	Overview of OMFS deformity 1	Enlist causes of dentofacial deformities Order and interpret relevant investigations Enlist types of dentofacial deformities	H.J
47	2-9-25	Tue	8:50	Class Test		

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
48	4-9-25	Thu	8:00	Overview of OMFS deformity 2	Describe surgical treatments of various dentofacial deformities Describe the role and advantages of distraction osteogenesis in OMF region	P.A.A.C
49	9-9-25	Tue	8:50	TMJ Disorders	Classify TMJ disorders as myofascial, internal derangement, ankylosis, infections, systemic arthritic conditions Select manage options for TMD	B.M.A
50	11-9-25	Thu	8:00	TMJ Ankylosis	Discuss causes of TMJ Ankylosis, discuss treatment options of TMJ ankylosis	P.A.A.C
51	16-9-25	Tue	8:50	Orofacial Pain - Classification & Etiology	Describe the pathophysiology of neuropathic pain Classify orofacial pain according to site and etiology Management of orofacial pain	H.J
52	18-9-25	Thu	8:00	Sterilization and Needle Stick Injury Management	Enlist types of sterilization techniques Differentiate sterilization from disinfection Discuss preventive measures, for needle stick injury Discuss the protocol of needle stick injury management	H.J
53	23-9-25	Tue	8:50	Management of Hospitalized Patients	Identify the need of patient hospitalization Write consultation and referral requests to other specialties Describe the pre and post operative management of hospitalized patients Advise pre anesthesia investigations Maintain operative and post operative records of hospitalized patients	P.A.A.C
54	25-9-25	Thu	8:00	Trigeminal Neuralgia	Differentiate trigeminal neuralgia from pre trigeminal neuralgia, odontalgia and post herpetic neuralgia Discuss management of trigeminal neuralgia	P.A.A.C
55	30-9-25	Tue	8:50	Medicolegal Considerations	List the common areas of dental litigation List the steps to reduce the risk of litigation Describe the role of a dentist in forensic odontology Recognize non accidental injuries in	H.N.M

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
					children and adults	
56	2-10-25	Thu	8:00	Cleft Lip and Palate	<p>Name the number of different types of rare facial clefts in addition to cleft lip and palate.</p> <p>Classify cleft lip and palate for communication and record keeping</p> <p>Enlist the problems faced by a cleft patient</p> <p>Constitute team for the treatment of a cleft patient</p> <p>Describe the treatment of a cleft patient according to the sequence and surgical procedures</p>	H.N.M
57	7-10-25	Tue	8:50	Class Test		
58	9-10-25	Thu	8:00	Reconstruction in OMFS	<p>State the general principles of OMF reconstruction.</p> <p>Describe the biology of bone reconstruction and define osteoinduction, osteoconduction, osteo promotion and osteogenesis</p> <p>Classify bone grafts on the basis of source and vascularity</p> <p>Enlist the goals of mandibular reconstruction: restoration of continuity, alveolar bone height, osseous bulk and function</p> <p>Describe the role of maxillofacial prosthetics in rehabilitation of OMF defects</p>	P.A.A.C
59	14-10-25	Tue	8:50	Pre-prosthetic Surgery ( R )		H.N.M
60	16-10-25	Thu	8:00	Odontogenic Infections ( R )		P.A.A.C
61	21-10-25	Tue	8:50	Odontogenic Infections ( R )		P.A.A.C
62	23-10-25	Thu	8:00	Exodontia 1 ( R )		H.J
63	28-10-25	Tue	8:50	Exodontia 2 ( R )		H.J
64	30-10-25	Thu	8:00	Dentoalveolar trauma 1 ( R )		H.N.M

Sr	Date	Day	Time	Topic	Learning Outcomes	Teacher
65	4-11-25	Tue	8:50	Dentoalveolar trauma 2 ( R )		H.J
66	6-11-25	Thu	8:00	Dental Implantology 1 ( R )		H.J
67	11-11-25	Tue	8:50	Dental Implantology 2 ( R )		H.N.M
68	13-11-25	Thu	8:00	Systemic Medical Conditions ( R )		H.N.M
69	18-11-25	Tue	8:50	Systemic Medical Conditions ( R )		H.J
70	20-11-25	Thu	8:00	Management of Medical Emergencies ( R )		H.J
<b>Prep leave for Sendup exams, 24th November 2025 to 30th November 2025</b>						
<b>Oral &amp; Maxillofacial Surgery, Pre-Annual Exam, 4th December 2025 (Thu)</b>						
<b>OSCE, 8th December 2025 to 14th December 2025</b>						
<b>Prep Leave for Professional Exam, 15th December 2025 to 4th January 2025</b>						
<b>NUMS University Annual Exam, 5th January 2025 onwards</b>						

**Teachers:**

Prof Dr Samir Riaz Qazi (PSQ) (6)

Prof Dr Asad Aizaz Chatha (P.A.A.C) (28)

Dr Hafiz Nasir Mehmood (H.N.M) (13)

Dr Hafiz M. Jawaad Manzoor (H.J) (12)

# Paediatric Dentistry

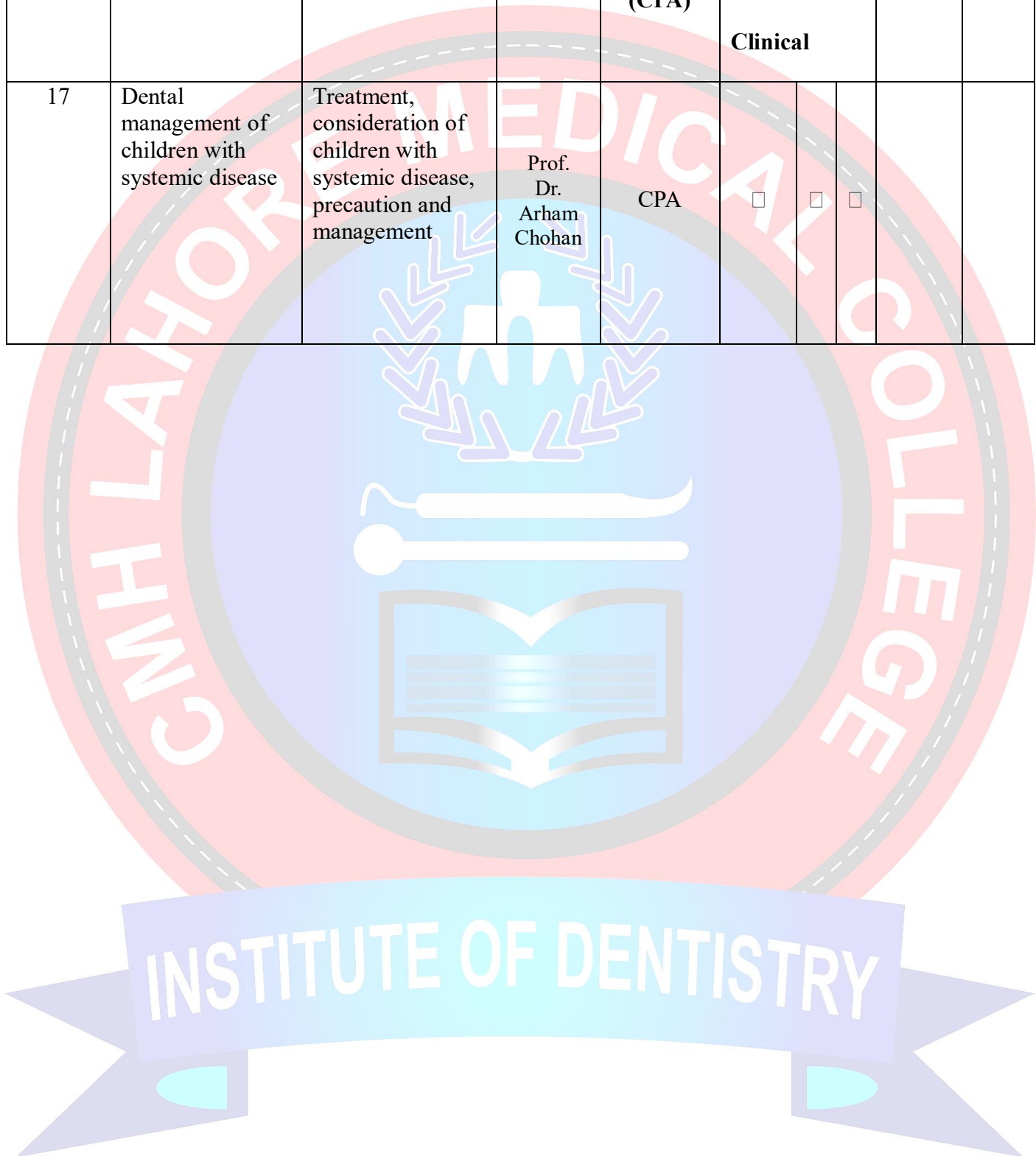
Sr No.	Topic	Learning outcomes	Faculty	Learning Domain (CPA)	MIT			Assessment Tools	
					Lecture	SGD/Demo	Clinical	MCQ	SEQ
1.	Philosophy of planning dental treatment in children	treatment planning considerations, parents counselling, referrals and dental history	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Dental and oral radiography in children	Types of dental radiographs, radiation safety, interpretation of radiographic findings in children	Prof. Dr. Arham Chohan	CPA		<input type="checkbox"/>	<input type="checkbox"/>		
3.	Prevention of dental diseases in children	Oral hygiene measures, fluoride therapy, dietary counselling, sealants, oral health education, safety and toxicity of fluorides	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Dental caries in children and adolescents	Caries aetiology, risk assessment, preventive strategies, restorative options	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>			
5.	Psychological and pharmacological management of children's behaviour	Behaviour guidance techniques, communication skills, pharmacological and non pharmacological options for	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Sr No.	Topic	Learning outcomes	Faculty	Learning Domain (CPA)	MIT			Assessment Tools	
					Lecture	SGD/Demo	Clinical	MCQ	SEQ
		anxiety and pain management							
6.	Restorative dentistry for primary teeth	Anatomic differences between primary and permanent dentition, Materials and techniques for primary tooth restorations, sealants and conservative adhesive restorations. Stainless steel crown tooth preparation, crown selection adaptation and cementation.	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Pulp therapy in primary and young permanent teeth	Diagnosis and treatment of pulp conditions in primary and young permanent teeth, pulpotomy, pulpectomy, apexification and apexogenesis. Follow up and recall.	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Space management and space maintainers	Evaluation of space needs, space maintenance options, management of early tooth loss	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>		<input type="checkbox"/>		

Sr No.	Topic	Learning outcomes	Faculty	Learning Domain (CPA)	MIT			Assessment Tools	
					Lecture	SGD/Demo	Clinical	MCQ	SEQ
9.	Anomalies of developing dentition	Developmental disturbances, genetic and systemic conditions affecting tooth development, anomalies of tooth size, number and form. Enamel defects, dentin defects, anomalies of cementum.	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Dental trauma to primary and young permanent teeth	Diagnosis, emergency management, and treatment of dental trauma in children. sequelae of trauma to primary and permanent dentition	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Nitrous oxide-oxygen inhalation sedation	Indications, administration, monitoring, and management of nitrous oxide-oxygen sedation in children	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Dental management of special children	Treatment considerations for children with special healthcare needs, behaviour management, modifications in dental care	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sr No.	Topic	Learning outcomes	Faculty	Learning Domain (CPA)	MIT			Assessment Tools	
					Lecture	SGD/Demo	Clinical	MCQ	SEQ
13.	Hospital Dentistry	Introduction to hospital dentistry. Patients requiring hospital dentistry, description of procedures for admissions, investigations, clinical notes, medications and discharge. Protocols of operation theatre.	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>			
14	Minor Oral Surgery	Local Anaesthesia Administration tooth extraction techniques postoperative unistriation	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15	Antimicrobials and analgesics in Paediatric Dentistry	Types of antimicrobials and analgesics dosage and prescription writing	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>		<input type="checkbox"/>		
16	Periodontal diseases in children	Etiology, types and management protocol	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Sr No.	Topic	Learning outcomes	Faculty	Learning Domain (CPA)	MIT			Assessment Tools	
					Lecture	SGD/Demo	Clinical	MCQ	SEQ
17	Dental management of children with systemic disease	Treatment, consideration of children with systemic disease, precaution and management	Prof. Dr. Arham Chohan	CPA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



# Operative Dentistry

Topics	Faculty	Learning Domain (CPA)	Learning Strategy	Assessment					
<b>SECTION 1: CONSERVATIVE DENTISTRY</b>				Clinical	Viva	OSPE	NUMS MCQs	NUMS SEQs	%
<b>INTRODUCTION</b> Clinical significance of dental anatomy and histology	Prof. Dr. Um-e Rubab Sherazi	C	Lecture/ Small Group Discussion		√		1		
<b>CARIOLOGY</b> - Define dental caries - Discuss etiology and clinical significance of dental caries - Identify risk factors for caries		CPA	Lecture/ Small Group Discussion	√	√	√			
- Discuss the classification of dental caries - Enlist the methods of caries control by medical model - Diagnose and discuss the different treatment strategies and clinical considerations in caries prevention			Lecture/ Small Group Discussion/ Practical	√	√	√	4	1	
<b>STERILIZATION &amp; INFECTION CONTROL</b>				√		√			

<ul style="list-style-type: none"> <li>- Enlist exposure risks and effects of infection in Dentistry</li> <li>- Overview of aseptic techniques, methods of sterilization</li> <li>- State the recommended CDC guidelines for infection control</li> </ul>	Prof Dr. Um-e- Rubab Sherazi	<b>CPA</b>	Lecture/Small Group Discussion/ Practical				<b>2</b>	<b>1</b>	
<b>DENTAL BIOMATERIALS</b> <ul style="list-style-type: none"> <li>- Discuss the optimal characteristics and implications of dental biomaterials</li> </ul>	Prof Dr. Um-e- Rubab Sherazi	<b>CPA</b>	Lecture/Small Group Discussion/ Practical	√	√	√	<b>3</b>		
<b>CAVITY PREPARATIONS AND RESTORATIONS FOR DENTAL AMALGAM</b> <ul style="list-style-type: none"> <li>- Classification and clinical considerations for dental amalgam, including applied chemistry and material properties</li> <li>- Discuss and demonstrate various clinical techniques for amalgam restorations (CLASS 1 and 2)</li> </ul>	Prof. Dr. Um-e-Rubab Sherazi /	<b>CPA</b>	Lecture/Small Group Discussion/ Practical	√	√	√	<b>3</b>		

<ul style="list-style-type: none"> <li>- Discuss and demonstrate the fundamentals/ steps of tooth preparation for amalgam restorations</li> <li>- Highlight the significance of mercury toxicity and amalgam waste hazards</li> </ul>	<p>Dr. Sobia Masood Tirmazi</p>								
<p><b>COMPLEX AMALGAM RESTORATIONS</b></p> <ul style="list-style-type: none"> <li>- Define pin-retained restoration</li> <li>- Enlist indications /contraindications of pin retained restorations</li> <li>- Discuss techniques of pin placement, factors affecting retention of pins and clinical considerations for pin placement.</li> </ul>	<p>Prof. Dr. Um -e- Rubab Sherazi</p>	<p>C</p>	<p>Lecture/ Small Group Discussion</p>	<p>√</p>	<p>√</p>	<p>1</p>			
<p><b>CAVITY PREPARATIONS AND RESTORATIONS FOR DENTAL COMPOSITE</b></p> <ul style="list-style-type: none"> <li>- Discuss material properties and applied chemistry for dental composite</li> <li>- Classify dental composite</li> </ul>	<p>Prof. Dr. Um-e- Rubab Sherazi/ Dr. Sobia Masood Tirmazi</p>			<p>√</p>	<p>√</p>	<p>√</p>			

<ul style="list-style-type: none"> <li>- Discuss the importance of shade matching restorative dentistry</li> <li>- Discuss and demonstrate fundamentals of tooth preparation for composite restorations</li> <li>- Discuss and highlight important concepts in enamel and dentine adhesion, with respect to composite restorations in dental clinic</li> </ul>		<p><b>CPA</b></p>	<p>Lecture/Small Group Discussion/ Practical</p>			<p><b>4</b></p>		
<p><b>OCCLUSION</b></p> <ul style="list-style-type: none"> <li>- Define occlusion</li> <li>- Define ideal occlusion, state its significance</li> <li>- Define following terms: CR, maximum intercuspation, CO</li> <li>- Explain concepts of unilateral and bilateral balanced occlusion</li> <li>- Explain mutually protected occlusion, state its features</li> <li>- Explain occlusal interferences</li> <li>- Explain pathognomic occlusion</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p><b>C</b></p>	<p>Lecture / Case based Learning / Small Group Discussion</p>	<p>√</p>		<p><b>1</b></p>		

<p><b>NON-CARIOUS CERVICAL LESIONS</b></p> <ul style="list-style-type: none"> <li>- Discuss classification of NCCLs based on etiology</li> <li>- Discuss and highlight different features of NCCLs: abrasion, erosion, abfraction, attrition</li> <li>- Diagnose NCCLs, discuss and demonstrate management and treatment of NCCLs/tooth wear</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p>CPA</p>	<p>Lecture/Case Based Learning/Small Group Discussion/Practical</p>	<p>√</p>	<p>√</p>	<p>√</p>	<p>1</p>		
<p><b>TOOTH DISCOLOURATION AND ADDITIONAL AESTHETIC PROCEDURES</b></p> <ul style="list-style-type: none"> <li>-Identify different types of discoloration of teeth</li> <li>-Describe different techniques used to treat discolored teeth</li> <li>-Explain Microabrasion</li> <li>-Explain Macroabrasion</li> <li>-Explain different types of bleaching techniques: vital/non-vital bleaching techniques</li> </ul>	<p>Dr. Sobia Masood Tirmazi</p>	<p>C</p>	<p>Lecture/ Small Group Discussion/ Case Based Discussion</p>		<p>√</p>	<p>√</p>	<p>3</p>	<p>1</p>	

<p><b>RADIOLOGY</b></p> <ul style="list-style-type: none"> <li>- Discuss basic principles and interpretations of dental radiography</li> <li>- Discuss the use and implications of various radiographs: periapical, bitewing, occlusal, OPG, CBCT</li> <li>- Identify and rectify errors in radiographs</li> </ul>	<p>Prof. Dr. Um-e- Rubab Sherazi</p>	<p><b>CPA</b></p>	<p>Lecture/ Patient Interaction/ Small Group Discussion</p>	<p>√</p>	<p>√</p>	<p><b>2</b></p>	
<p><b>MANAGEMENT OF MEDICALLY COMPROMISED PATIENTS</b></p>	<p>Prof. Dr. Um-e- Rubab Sherazi</p>	<p><b>CPA</b></p>	<p>Lecture/ Patient Interaction/ Small Group Discussion</p>		<p>√</p>	<p><b>1</b></p>	
<p><b>TRAUMA TO PERMANENT DENTITION</b></p>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p><b>CPA</b></p>	<p>Lecture/ Patient Interaction/ Small Group Discussion</p>	<p>√</p>	<p>√</p>	<p>√</p>	<p><b>1</b></p>
<p><b>SECTION 2: INDIRECT SINGLE TOOTH RESTORATION</b></p>							
<p><b>INLAY AND ONLAY</b></p> <ul style="list-style-type: none"> <li>- Differentiate between inlay and onlay</li> <li>- Enlist its advantages and disadvantages</li> <li>-Enlist indications for inlays and onlays</li> <li>-Discuss steps of preparation for inlays and onlays</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p><b>C</b></p>	<p>Lecture/Small Group Discussion</p>		<p>√</p>	<p><b>1</b></p>	

<p>-Discuss steps of cementation for these</p>									
<p><b>VENEERS</b></p> <ul style="list-style-type: none"> <li>- Enlist indications/ contraindications of veneers</li> <li>- Enlist different types of veneers, clinical technique and materials used in fabrication</li> <li>- Describe and demonstrate different types of veneer preparation on manikin</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p>CPA</p>	<p>Lecture/Small Group Discussion/ Demonstration</p>	<p>√</p>	<p>√</p>	<p>4</p>	<p>1</p>		
<p><b>DIGITAL DENTISTRY (CAD CAM Restorations)</b></p> <ul style="list-style-type: none"> <li>- Define CAD</li> <li>-Define CAM</li> <li>-Discuss the need for CAD CAM in clinical dentistry</li> <li>-Discuss the application of CAD CAM</li> <li>-Enlist its advantages and disadvantages</li> <li>- Discuss the steps and materials used in CAD CAM</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p>C</p>	<p>Lecture/ Case Based Discussion</p>	<p>√</p>			<p>1</p>		

<p><b>CAST POST AND CORE RESTORATIONS</b></p>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p><b>C</b></p>	<p>Lecture/ Small Group Discussion</p>		<p>√</p>		<p><b>1</b></p>		
<p><b>SECTION: ENDODONTICS</b></p>									
<p><b>DIAGNOSIS AND TREATMENT PLANNING</b></p> <ul style="list-style-type: none"> <li>- Evaluate a patient when taking history and clinical examination</li> <li>- Discuss and employ the use of various diagnostic aids</li> <li>- Demonstrate how to diagnose pulpal and periapical diagnosis by combining clinical and radiographic examination</li> <li>- Plan and formulate a treatment in a sequential manner according to the problem list</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p><b>CPA</b></p>	<p>Lecture/Small Group Discussion/ Patient Interaction</p>	<p>√</p>	<p>√</p>	<p>√</p>	<p><b>1</b></p>		
<p><b>BIOLOGY OF DENTAL PULP</b></p> <ul style="list-style-type: none"> <li>- Explain the structure and function of dentin- pulp complex</li> <li>- Discuss and highlight pulpal reaction to dental caries, restorative material and treatment</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p><b>C</b></p>	<p>Lecture</p>		<p>√</p>		<p><b>1</b></p>	<p><b>1</b></p>	

<p><b>CLINICAL CLASSIFICATION AND PATHOBIOLOGY OF PULPAL AND PERIRADICULAR TISSUES</b></p> <ul style="list-style-type: none"> <li>- Classify pulpal and periradicular diseases</li> <li>- Discuss in detail classification, diagnosis and management of pulpal conditions: normal pulp, reversible pulpitis, irreversible pulpitis and pulpal necrosis</li> <li>- Discuss in detail classification, diagnosis and management of periapical conditions: normal periapex, symptomatic apical periodontitis, asymptomatic apical periodontitis, acute apical abscess, chronic apical abscess and condensing osteitis</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p><b>CPA</b></p>	<p>Lecture/Small Group Discussion/ Patient Interaction</p>		<p>√</p>	<p>√</p>	<p><b>5</b></p>		
<p><b>OTHER PATHOSIS AFFECTING PULP TISSUES AND MIMICKING PULPAL DISEASES</b></p> <p><b>ENDO-PERIO LESIONS:</b></p>			<p>Lecture</p>		<p>√</p>		<p><b>1</b></p>		

<p>-Name pathways of communication between the dental pulp and periodontium</p> <p>-Describe effects of pulpal diseases and endodontic procedures on periodontium</p> <p>-Describe effects of periodontal diseases on the pulp</p> <p>-Demonstrate how to diagnose endodontic-periodontal lesions, give its classification and differentials</p> <p><b>RESORPTION:</b></p> <ul style="list-style-type: none"> <li>- Differentiate between internal and external resorption based on clinical signs, use of diagnostic aids.</li> <li>- Discuss treatment of internal and external resorption</li> </ul> <p><b>CALCIFIC METAMORPHOSIS</b></p> <p><b>NON ODONTOGENIC TOOTHACHE</b></p> <ul style="list-style-type: none"> <li>- Enlist the different non-odontogenic diseases mimicking</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p>CA</p>				<p>2</p>	
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<p>pulpal and periapical diseases</p> <ul style="list-style-type: none"> <li>- Enlist the differentiating features that help in diagnosis non-odontogenic diseases</li> </ul>	<p>Dr. Sobia Masood Tirmazi</p>								
<p><b>PREPARATION FOR ENDODONTIC TREATMENT</b></p> <ul style="list-style-type: none"> <li>- Know the use of endodontic instruments</li> <li>- Identify significance of isolation while performing RCT</li> <li>- Know the significance of local anesthesia and effective pain control measures in endodontics</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p>CPA</p>	<p>Lecture/Small Group Discussion/ Demonstration</p>	<p>√</p>			<p>2</p>		
<p><b>ENDODONTIC THERAPY</b></p> <p><b>ENDODONTIC ACCESS AND LENGTH DETERMINATION</b></p> <ul style="list-style-type: none"> <li>- Know the significance of root canal anatomy during access opening</li> <li>- Discuss and highlight significance of straight line access in endodontics</li> </ul>	<p>Dr. Sobia Masood Tirmazi</p>		<p>Lecture/ Small Group Discussion/ Demonstration</p>	<p>√</p>					



<p>associated with endodontically treated teeth</p> <ul style="list-style-type: none"> <li>- Enlist structural, esthetic and restorative considerations in endo- treated teeth</li> <li>- Discuss the use of post in endo- treated teeth</li> </ul>	<p>Prof. Dr. Um-e-Rubab Sherazi</p>	<p>CA</p>			<p>4</p>	
<p><b>EVALUATION OF ENDODONTIC OUTCOMES AND OTHER TREATMENT MODALITIES</b></p> <ul style="list-style-type: none"> <li>- Evaluation of endodontic outcomes based on restorability and significance of good coronal and apical seal</li> <li>- Know and discuss non- surgical retreatment, focusing on identifying when to initiate retreatment</li> <li>- Define periradicular surgery/ apical microsurgery, enlist its indications and contraindications</li> <li>- Know/discuss the concept of revascularization</li> <li>-Geriatric Endodontics</li> </ul>	<p>Dr. Sobia Masood Tirmazi</p>	<p>C</p>	<p>Lecture/ Small Group Discussion</p>	<p>√</p>	<p>3</p>	<p>1</p>

<b>ENDODONTIC EMERGENCIES</b>	Prof. Dr. Um-e-Rubab Sherazi							<b>3</b>		
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## Prosthodontics

TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	Viva	OSPE	NUMS MCQs	NUMS SEQs
<b>1. Introduction to Patient Evaluation</b> <ul style="list-style-type: none"> <li>Describe Mental classification</li> <li>Discuss Influence of patient's demographic data on treatment planning</li> </ul>	Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture			X		
<b>2. Anatomy of edentulous mouth</b> <ul style="list-style-type: none"> <li>Describe Denture Bearing areas</li> <li>Describe Maxillary Anatomical Landmarks</li> <li>Describe Mandibular anatomical landmarks</li> <li>Describe Intraoral Biometric guides</li> </ul>	Dr. Saira Ibrahim	C	Interactive lecture	X				
<b>3. Sequelae of wearing complete denture</b>								

<ul style="list-style-type: none"> <li>Discuss Direct sequelae: Denture Stomatitis, burning mouth syndrome</li> </ul>	Dr. Atiq ur Rehman	C	Interactive lecture			X		
<ul style="list-style-type: none"> <li>Discuss Indirect sequelae</li> </ul>								
<ul style="list-style-type: none"> <li>Residual Ridge reduction</li> </ul>	Dr Atiq ur Rehman	C	Interactive lecture			X		

TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	Viva	OSPE	NUMS MCQs	NUMS SEQs
Describe Etiological factors of RRR								
<b>4. Patient preparation for complete denture treatment</b>								
<ul style="list-style-type: none"> <li>Discuss Examination of edentulous patient</li> <li>Describe Mouth preparation</li> <li>Describe Conditioning of oral tissues</li> </ul>	Dr. Atiq ur Rehman	CPA	Interactive lecture/ Small group discussion			X		
<b>5, Management of Special Conditions</b>								
<ul style="list-style-type: none"> <li>Describe Gag reflex management</li> <li>Describe Management of special systemic Conditions</li> </ul>	Prof Dr. M. Afzal	C	Interactive lecture/ small group discussion			X		

TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	Viva	OSPE	NUMS MCQs	NUMS SEQs
<b>6. Physiology of mouth and saliva in relation to denture retention</b> <ul style="list-style-type: none"> <li>• What Factors affect retention of complete denture</li> <li>• Role of saliva</li> <li>• Discuss Effects of Xerostomia on denture retention</li> <li>• Describe Management of xerostomia</li> </ul>	Prof Dr. Abdul Mueed Zaigham	C	Interactive lecture	X				
<b>7. Recording impression in complete denture</b> <ul style="list-style-type: none"> <li>• Discuss Objectives of impression making</li> <li>• Describe Theories of impression making</li> </ul>	Prof. Dr. Abdul Mueed Zaigham	CPA	Interactive lecture/ Practical			X		
<b>8. Recording impression in complete denture</b> <ul style="list-style-type: none"> <li>• Describe Impression techniques</li> <li>• Discuss Types of impressions and denture bases</li> </ul>	Prof. Dr. Abdul Mueed Zaigham	CPA	Interactive lecture/ practical			X		
<b>9. Jaw relation records</b> <ul style="list-style-type: none"> <li>• Describe Making of occlusal rims</li> </ul>	Dr. Khalid Yaqub	CPA	Interactive lecture/ practical					
<ul style="list-style-type: none"> <li>• Discuss Orientation relation records / Facebow</li> </ul>								
<ul style="list-style-type: none"> <li>• Discuss Significance of vertical relation records</li> </ul>								

<ul style="list-style-type: none"> <li>Describe Physiological methods</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Mechanical Methods</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Horizontal relations and their terminologies</li> </ul>							X	
<ul style="list-style-type: none"> <li>Discuss Significance of centric relation record techniques</li> </ul>								
<ul style="list-style-type: none"> <li>Define Articulators, types, functions, and methods of articulators</li> </ul>								
<b>10. Occlusion</b>								
<ul style="list-style-type: none"> <li>Discuss Theories of occlusion</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Differences between natural and artificial occlusion</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Types of occlusal scheme</li> </ul>								
<ul style="list-style-type: none"> <li>What Factors effect complete denture occlusion</li> </ul>	Prof Dr. M. Afzal	C	Interactive lecture	X				
<ul style="list-style-type: none"> <li>Describe Balanced occlusion, definition, norms and significance</li> </ul>								
<b>13. Selection of artificial teeth</b>								
<ul style="list-style-type: none"> <li>Dentogenic concept</li> </ul>	Dr. M. Afzal	CPA	Interactive lecture				X	
<ul style="list-style-type: none"> <li>Utilization of biometric guides</li> </ul>								
<b>14. Arrangement of anterior teeth</b>								X
<ul style="list-style-type: none"> <li>Describe Relations of teeth in accordance with five planes and esthetic guidelines</li> </ul>	Dr. M. Afzal	CPA	Interactive lecture/ Skill					
<ul style="list-style-type: none"> <li>Describe Relations of teeth in accordance with five planes and biometric guidelines</li> </ul>								
<b>15. Arrangement of teeth in Neutral Zone</b>								



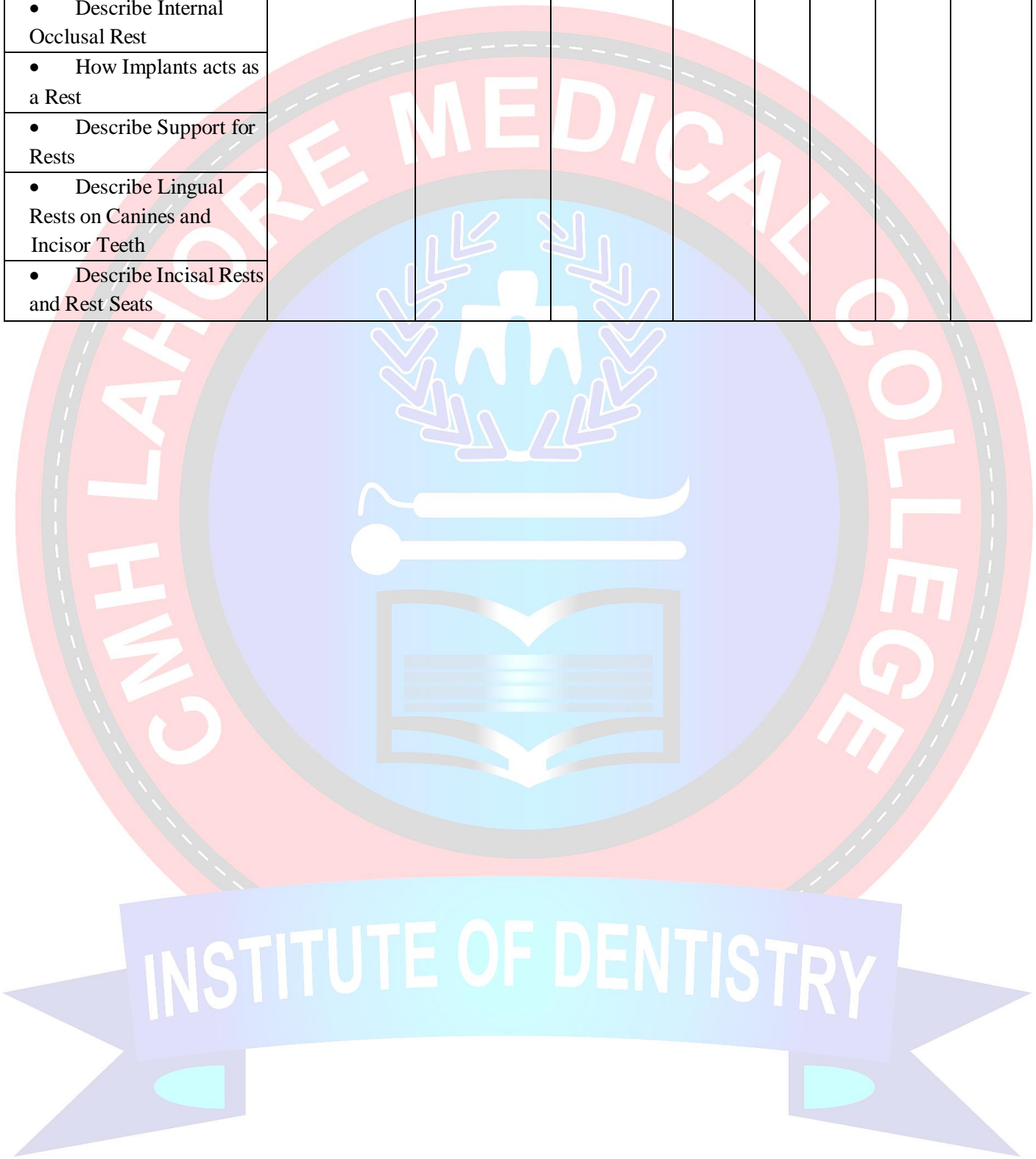
<b>20. Speech considerations of complete denture</b>	Dr. Muhammad Afzal	C	Interactive lecture			X		
<ul style="list-style-type: none"> <li>Discuss Tooth arrangement in reference to phonetics</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Use of sibilants</li> </ul>								
<b>21. Finishing of dentures, insertion</b>	Dr. Atiq ur Rehman	CPA	Interactive lecture/ Skill			X		
<ul style="list-style-type: none"> <li>Describe Laboratory procedure and material for finishing, polishing and occlusal adjustment</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Steps of insertion procedure</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Instruction to patient for prosthesis maintenance</li> </ul>								
<ul style="list-style-type: none"> <li>Denture cleaning aids and procedures</li> </ul>								
<b>22. Post insertion complaints and management</b>	Dr. Khalid Yaqub	CPA	Interactive lecture/ Skill					
<ul style="list-style-type: none"> <li>Discuss Types of complaints</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Symptoms of these complaints</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Management of these complaints</li> </ul>								
<b>23. Relining of complete dentures</b>	Dr. Khalid Yaqub							
<ul style="list-style-type: none"> <li>Define the terminologies</li> </ul>								
<ul style="list-style-type: none"> <li>Indications and Differentiation</li> </ul>								
<ul style="list-style-type: none"> <li>Laboratory Procedures</li> </ul>								

TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	Viva	OSPE	NUMS MCQs	NUMS SEQs
<b>23. Introduction to Removable partial denture</b>								

TOPICS	FACULTY	LEARNIN G DOMAIN (CPA)	LEARNING STRATEG Y	ASSESSMENT												
				Clinica l	Viv a	OSP E	NUM S MCQs	NUM S SEQs								
<ul style="list-style-type: none"> <li>What are the Consequences of Tooth Loss</li> </ul>	Dr Khalid Yaqub	C	Interactive lecture			X	04	01								
<ul style="list-style-type: none"> <li>Describe Restoration with Prosthesis</li> </ul>																
<ul style="list-style-type: none"> <li>Describe Current use of Removable Partial Dentures</li> </ul>																
<ul style="list-style-type: none"> <li>What is Need for Removable Partial Dentures</li> </ul>																
<ul style="list-style-type: none"> <li>Describe Tooth Loss and Age</li> </ul>																
<p><b>24. Classification of partially edentulous arches</b></p> <ul style="list-style-type: none"> <li>What are the Requirements of an Acceptable Method of classification</li> <li>Describe Kennedy's Classification for RPDs</li> <li>Describe the Applegate's Rules for Applying the Kennedy classification</li> </ul>	Dr. Khalid Yaqub	C	Interactive lecture / small group discussion			X										
<ul style="list-style-type: none"> <li>Describe the Applegate's Rules for Applying the</li> </ul>																
<p><b>25. Biomechanics of Removable Partial Dentures</b></p> <ul style="list-style-type: none"> <li>Describe Biomechanics and Design Solutions</li> </ul>									C	Interactive lecture	X					
<ul style="list-style-type: none"> <li>Describe Biomechanics and Design Solutions</li> </ul>																

TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	Viva	OSPE	NUMS MCQs	NUMS SEQs
<ul style="list-style-type: none"> <li>What are the Biomechanical Considerations for Removable partial dentures</li> </ul>	Prof Dr. M. Afzal							
<ul style="list-style-type: none"> <li>What is the Impact of Implants on Movements of Partial dentures</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Possible Movements of Partial Dentures</li> </ul>								
<b>26. Major connectors</b>	Dr. Saira Ibrahim	C	Interactive lecture / small group discussion					
<ul style="list-style-type: none"> <li>Describe Role of Major Connectors in Control of Prosthesis movement</li> </ul>								
<ul style="list-style-type: none"> <li>What are the types of maxillary and mandibular major connectors</li> </ul>	Dr. Saira Ibrahim	C	Interactive lecture / small group discussion				X	
<b>27. Minor connectors</b>								
<ul style="list-style-type: none"> <li>Describe form and location of the minor connector</li> </ul>	Dr. Saira Ibrahim	C	Interactive lecture / small group discussion				X	
<ul style="list-style-type: none"> <li>What is the function of minor connector</li> </ul>								
<b>28. Rests and Rest seat Preparation</b>	Dr. Atiq ur Rehman	C	Interactive lecture					
<ul style="list-style-type: none"> <li>Describe the role of Rests in control of Prosthesis movement</li> </ul>								
<ul style="list-style-type: none"> <li>What is the Form of the Occlusal Rest and Rest Seat</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Extended Occlusal Rest</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Interproximal Occlusal Rest Seats?</li> </ul>								

TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	Viva	OSPE	NUMS MCQs	NUMS SEQs
<ul style="list-style-type: none"> <li>Describe Internal Occlusal Rest</li> </ul>								
<ul style="list-style-type: none"> <li>How Implants acts as a Rest</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Support for Rests</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Lingual Rests on Canines and Incisor Teeth</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Incisal Rests and Rest Seats</li> </ul>								



TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT												
				Clinical	Viva	OSPE	NUMS MCQs	NUMS SEQs								
<b>29. Direct retainers / Precision attachment</b>	Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture/ Skill													
<ul style="list-style-type: none"> <li>Describe Direct Retainer's Role in Control of Prosthesis movement</li> </ul>																
<ul style="list-style-type: none"> <li>Describe types of Direct Retainers</li> </ul>																
<ul style="list-style-type: none"> <li>What are the Criteria for Selecting a Given Clasp Design</li> </ul>																
<ul style="list-style-type: none"> <li>Describe types of Clasp Assemblies</li> </ul>																
<ul style="list-style-type: none"> <li>How Implants acts as Direct Retainers</li> </ul>																
<ul style="list-style-type: none"> <li>Analyze the Tooth Contours for Retentive Clasps</li> </ul>																
<ul style="list-style-type: none"> <li>Describe Amount of Retention for clasp</li> </ul>																
<ul style="list-style-type: none"> <li>Describe Other Types of Retainers</li> </ul>																
<ul style="list-style-type: none"> <li>Describe Internal Attachments</li> </ul>																
<b>30. Indirect Retainers</b>																
<ul style="list-style-type: none"> <li>Describe Role of Indirect Retainers in Control of Prosthesis Movement</li> </ul>									Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture			X		
<ul style="list-style-type: none"> <li>What Factors Influence Effectiveness</li> </ul>																

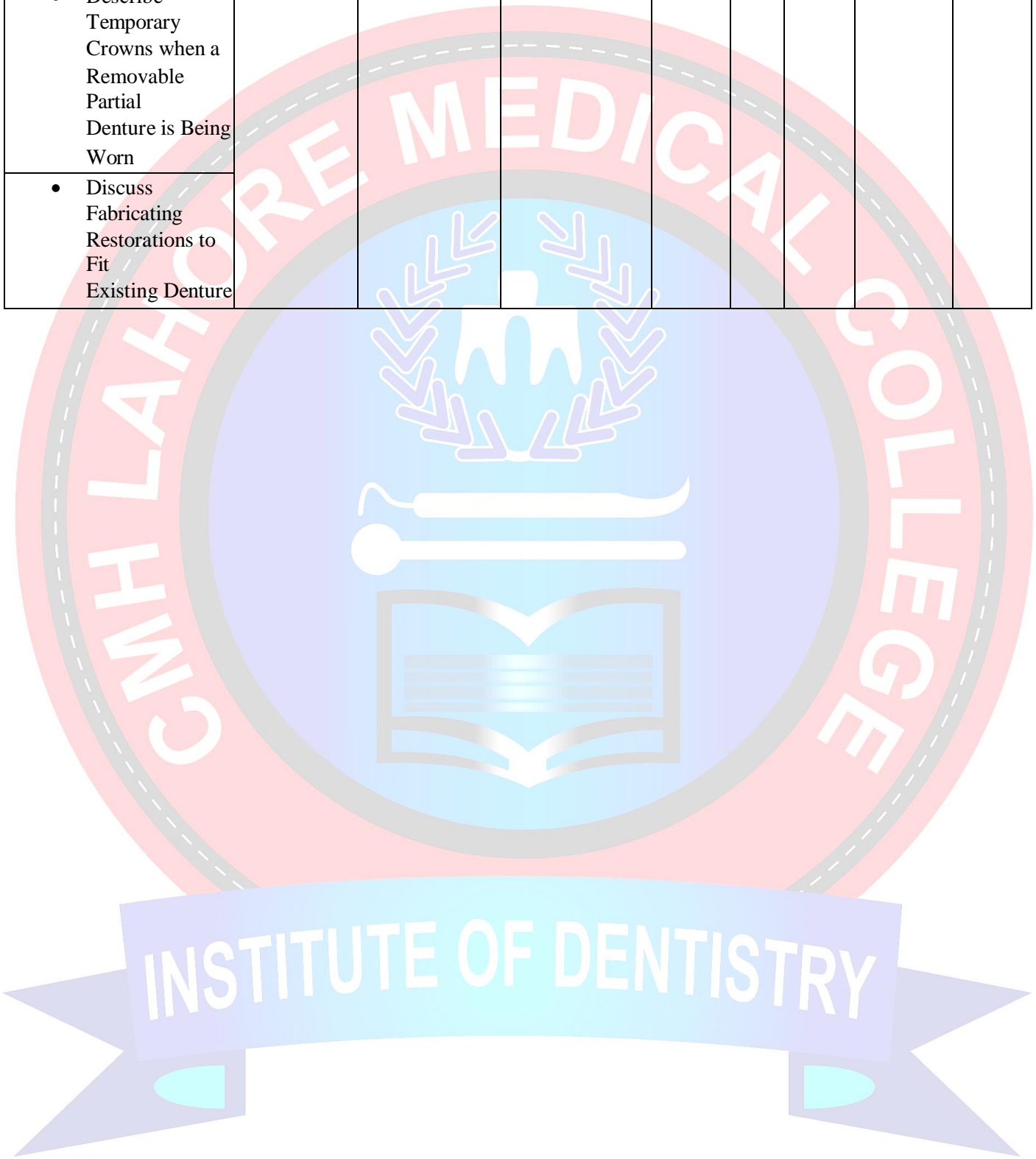
<p>ss of Indirect Retainers</p>	m								
<ul style="list-style-type: none"> <li>What is the Auxiliary Functions of Indirect Retainers</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Form of indirect retainers</li> </ul>									
<p><b>31. Denture Base Considerations</b></p>									
<ul style="list-style-type: none"> <li>Describe Functions of Denture Bases in Control of Prosthesis Movement</li> </ul>	Dr. Atiq ur Rehman	C	Interactive lecture	X					
<ul style="list-style-type: none"> <li>Describe Methods of Attaching Denture Bases</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Methods for Incorporating Dental Implants</li> </ul>									
<ul style="list-style-type: none"> <li>Describe ideal Denture Base Material</li> </ul>									
<ul style="list-style-type: none"> <li>What are Advantages of Metal Bases</li> </ul>									
<ul style="list-style-type: none"> <li>Discuss Methods of Attaching Artificial Teeth</li> </ul>									
<ul style="list-style-type: none"> <li>Discuss Need for Relining</li> </ul>									
<ul style="list-style-type: none"> <li>What are Stress breakers</li> </ul>									
<p><b>32. Principles of Removable Partial Denture Design</b></p>									
<ul style="list-style-type: none"> <li>Describe Difference in Prosthesis Support and how it Influence on design of RPD</li> </ul>		CPA	Interactive lecture / small group discussion				X		

<ul style="list-style-type: none"> <li>Differentiate Between Two Main Types of RPDs</li> </ul>	Prof. Dr. M. Afzal								
<ul style="list-style-type: none"> <li>Discuss Essentials of Partial Denture Design</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Components of Partial Denture Design</li> </ul>									
<ul style="list-style-type: none"> <li>Discuss Implant Considerations in Design</li> </ul>									
<ul style="list-style-type: none"> <li>Discuss Additional Considerations Influencing Design</li> </ul>									
<b>33. Surveying</b>									
<ul style="list-style-type: none"> <li>Describe Dental Surveyor</li> </ul>	Prof. Dr. Muhammad Afzal	CPA	Interactive lecture / Skill	X					
<ul style="list-style-type: none"> <li>What are the Purposes of the Surveyor</li> </ul>									
<ul style="list-style-type: none"> <li>Discuss Factors that Determine Path of Placement and Removal</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Step-by-Step Procedures in Surveying a Diagnostic Cast</li> </ul>									
<ul style="list-style-type: none"> <li>Discuss Final Path of Placement</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Recording</li> </ul>									
<ul style="list-style-type: none"> <li>Relation of Cast to Surveyor</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Surveying the Master Cast</li> </ul>									
<ul style="list-style-type: none"> <li>Discuss Blocking out the Master Cast for surveying</li> </ul>									
<ul style="list-style-type: none"> <li>Discuss Relieving the Master Cast</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Paralleled Blockout, Shaped Block out, Arbitrary block out, and Relief</li> </ul>									
<b>34. Diagnosis and Treatment Planning in RPDs</b>									

<ul style="list-style-type: none"> <li>• What is the Purpose and Uniqueness of Treatment</li> </ul>	Prof. Dr. M. Afzal	CPA	Interactive lecture / Small group discussion	X				
<ul style="list-style-type: none"> <li>• Discuss Patient Interview</li> </ul>								
<ul style="list-style-type: none"> <li>• Describe Shared Decision Making</li> </ul>								
<ul style="list-style-type: none"> <li>• Explain Clinical Examination</li> </ul>								
<ul style="list-style-type: none"> <li>• What are the Objectives of Prosthodontic Treatment</li> </ul>								
<ul style="list-style-type: none"> <li>• Discuss Oral Examination</li> </ul>								
<ul style="list-style-type: none"> <li>• Describe Role of Diagnostic Casts in Diagnosis</li> </ul>								
<ul style="list-style-type: none"> <li>• Discuss Diagnostic Findings</li> </ul>								
<ul style="list-style-type: none"> <li>• Discuss Interpretation of Examination Data</li> </ul>								
<ul style="list-style-type: none"> <li>• Describe Infection Control</li> </ul>								
<ul style="list-style-type: none"> <li>• Discuss Differential Diagnosis: Fixed or Removable partial denture</li> </ul>								
<ul style="list-style-type: none"> <li>• Discuss Choice Between Complete Dentures and Removable Partial Dentures</li> </ul>								
<ul style="list-style-type: none"> <li>• Describe Clinical Factors Related to Metal Alloys used for Removable Partial Denture Frameworks</li> </ul>								

TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	Viva	OSPE	NUMS MCQs	NUMS SEQs
<b>35. Mouth preparations for RPD, abutment preparation</b>	Prof. Dr. M. Afzal	CPA	Interactive lecture / Skill			X		
<ul style="list-style-type: none"> <li>Discuss Pre-Prosthetic Considerations in Partially Edentulous Mouths</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Periodontal Preparation for RPDs</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Optimization of the Foundation for Fitting and Function of the Prosthesis</li> </ul>								
<ul style="list-style-type: none"> <li>Classify Abutment Teeth for RPD</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Sequence of Abutment Preparations on Sound</li> </ul>								
Enamel or Existing Restorations								
<ul style="list-style-type: none"> <li>Describe Abutment Preparations Using Conservative Restorations</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Abutment Preparations Using Crowns</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Splinting of</li> </ul>								

Abutment Teeth								
<ul style="list-style-type: none"> <li>Describe Use of Isolated Teeth as Abutments</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Temporary Crowns when a Removable Partial Denture is Being Worn</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Fabricating Restorations to Fit Existing Denture</li> </ul>								



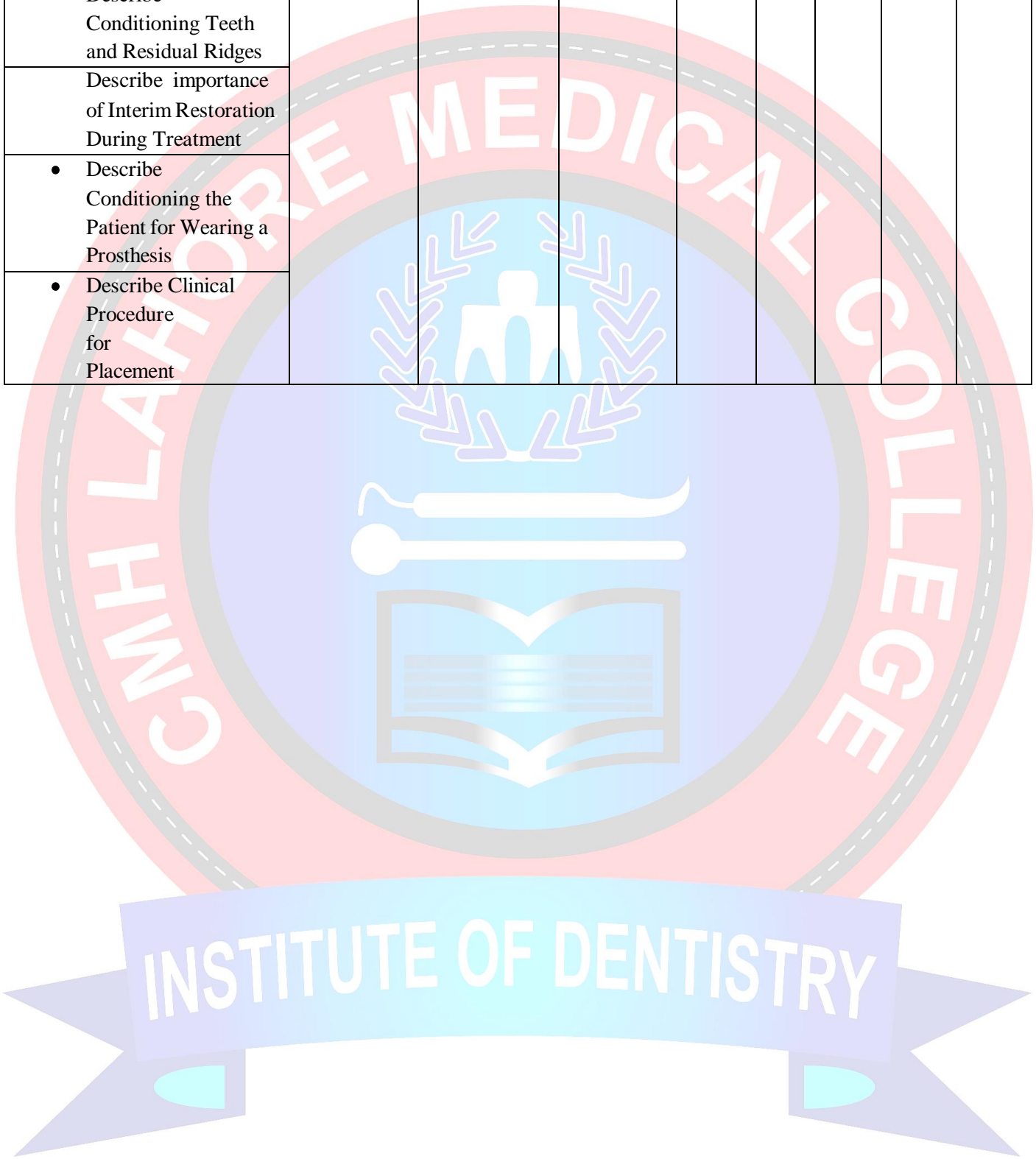
<p><b>36. Impression Materials and Procedure's form Removable Partial Dentures</b></p>							
<ul style="list-style-type: none"> <li>Discuss Elastic Materials</li> </ul>	<p>Dr. Khalid Yaqub</p>	<p>CPA</p>	<p>Interactive lecture</p>		<p>X</p>		
<ul style="list-style-type: none"> <li>Discuss Rigid Materials</li> </ul>							
<ul style="list-style-type: none"> <li>Discuss Thermoplastic Materials</li> </ul>							
<ul style="list-style-type: none"> <li>Describe Impressions of the Partially Edentulous Arch</li> </ul>							
<ul style="list-style-type: none"> <li>Discuss use of Individual Impression Trays</li> </ul>							
<p><b>37. Support for the Distal Extension Denture Base</b></p>	<p>Prof. Dr.</p>		<p>Interactive</p>		<p>X</p>		
<ul style="list-style-type: none"> <li>Describe Distal Extension Removable Partial Denture</li> </ul>	<p>Abdul Mueed Zaigham</p>	<p>C</p>	<p>lecture / small group discussion</p>				
<ul style="list-style-type: none"> <li>What Factors Influence the Support of a Distal Extension Base</li> </ul>							
<ul style="list-style-type: none"> <li>Describe Anatomic form Impression</li> </ul>							
<ul style="list-style-type: none"> <li>Describe Methods for Obtaining Functional Support for the Distal Extension Base</li> </ul>							
<p><b>38. Occlusal Relationships for Removable Partial Dentures</b></p>	<p>Prof. Dr M. Afzal</p>	<p>C</p>	<p>interactive lecture / small group discussion</p>		<p>X</p>		
<ul style="list-style-type: none"> <li>Desirable Occlusal Relationships for Removable Partial Dentures</li> </ul>							
<ul style="list-style-type: none"> <li>Discuss Methods for Establishing Occlusal Relationships</li> </ul>							

<ul style="list-style-type: none"> <li>Discuss Materials used for Artificial Posterior Teeth</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Establishing Jaw Relations for a Mandibular Removable Partial Denture Opposing a Maxillary Complete Denture</li> </ul>									
<b>39. Initial Placement, Adjustment, and Servicing of the Removable Partial Denture</b>	Dr Muhammad Afzal	CPA	Interactive lecture / Skill					X	
<ul style="list-style-type: none"> <li>Discuss Adjustments to Bearing Surfaces of Denture Bases</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Occlusal Interference from Denture Framework</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Adjustment of Occlusion in Harmony with Natural and Artificial Dentition</li> </ul>									
<ul style="list-style-type: none"> <li>Discuss Instructions to the Patient wearing RPDs</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Follow-Up Service</li> </ul>									
<b>40. Relining and Rebasing the Removable Partial Denture</b>	Dr. Khalid Yaqub	CPA	Interactive lecture					X	
<ul style="list-style-type: none"> <li>Describe Relining Tooth-Supported and Tooth Implant-Supported Denture Bases</li> </ul>									
<ul style="list-style-type: none"> <li>Describe Relining Distal Extension</li> </ul>									

Denture Bases								
<ul style="list-style-type: none"> <li>Describe Methods of Reestablishing Occlusion on a Relined Removable Partial Denture</li> </ul>								
<b>41. Repairs and Additions to Removable Partial Dentures</b>								
<ul style="list-style-type: none"> <li>Discuss causes of Broken Clasp Arms</li> </ul>	Dr. Saira Ibrahim	CPA	Interactive lecture					X
<ul style="list-style-type: none"> <li>Discuss Fractured Occlusal Rests</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Distortion or Breakage of Other Component-Major and Minor Connectors</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Loss of a Tooth or Teeth not</li> </ul>								

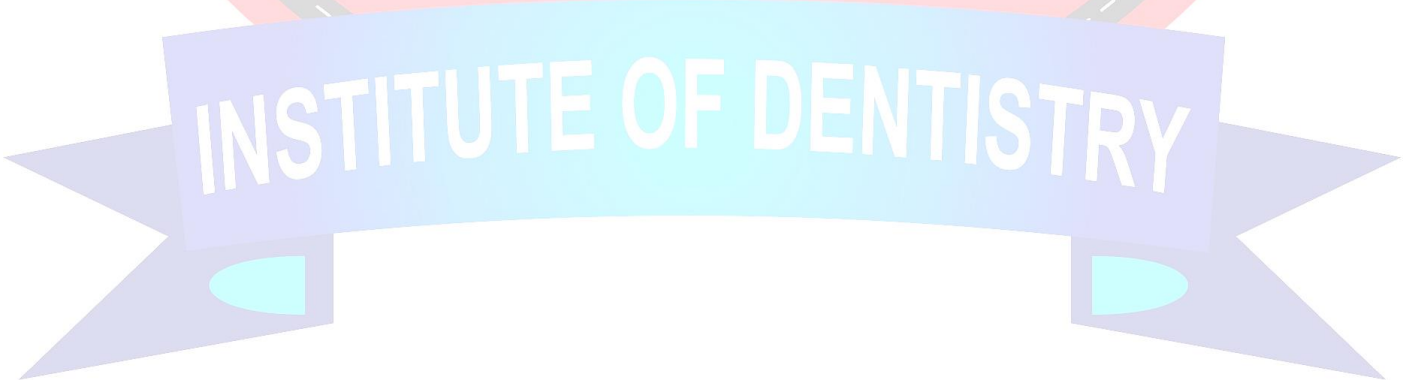
Involved in Support or Retention of the Restoration								
<ul style="list-style-type: none"> <li>Discuss Loss of an Abutment Tooth Necessitating its Replacement and Making a New Direct retainer</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Other Types of Repairs</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Repair by Soldering</li> </ul>								
<b>42. Interim Removable Partial Dentures</b>								
<ul style="list-style-type: none"> <li>Discuss Importance of Appearance</li> </ul>	Dr. Khalid Yaqub	C	Interactive lecture					X
<ul style="list-style-type: none"> <li>Discuss importance of Space Maintenance</li> </ul>								

<ul style="list-style-type: none"><li>• Discuss Reestablishing Occlusal Relationships</li></ul>								
<ul style="list-style-type: none"><li>• Describe Conditioning Teeth and Residual Ridges</li></ul>								
<p>Describe importance of Interim Restoration During Treatment</p>								
<ul style="list-style-type: none"><li>• Describe Conditioning the Patient for Wearing a Prosthesis</li></ul>								
<ul style="list-style-type: none"><li>• Describe Clinical Procedure for Placement</li></ul>								



TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	VIVA	OSPE	NUMS MCQs	NUMS SEQs
<b>43. Introduction to Fixed Partial Denture</b>	Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture	X				
<b>44. PDI Classification</b>	Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture / small group discussion			X	02	01
<ul style="list-style-type: none"> <li>Describe Criteria for PDI classification</li> <li>Discuss Guidelines</li> </ul>								
<b>45. Treatment Planning</b>	Prof. Dr. Abdul Mueed Zaigham	CPA	Interactive lecture			X		
<ul style="list-style-type: none"> <li>Discuss Identification of patient need</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Available materials</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Selection of Abutment Teeth</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Treatment sequence</li> </ul>								
<b>46. Principles of Occlusion</b>	Dr. Muhammad Afzal	C	Interactive lecture / small group discussion					
<ul style="list-style-type: none"> <li>Describe Mandibular movements</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Types of occlusion</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Organization of occlusion (Mutually Protected Occlusion)</li> </ul>								

<ul style="list-style-type: none"> <li>Discuss Inter occlusal records (CR, MIR &amp; LIR)</li> </ul>								
<b>47. Periodontal Considerations</b>								
<ul style="list-style-type: none"> <li>Describe Biological width &amp; its importance</li> </ul>	Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture / small group discussion				X	
<ul style="list-style-type: none"> <li>Discuss Various margins placement</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Gingival Biotype</li> </ul>								
<b>48. Crown Lengthening</b>								
<ul style="list-style-type: none"> <li>Discuss Foundation restorations</li> </ul>	Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture				X	
<ul style="list-style-type: none"> <li>Discuss Ante's Law</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Types of Bridges</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Tilted Abutment Teeth Management</li> </ul>								



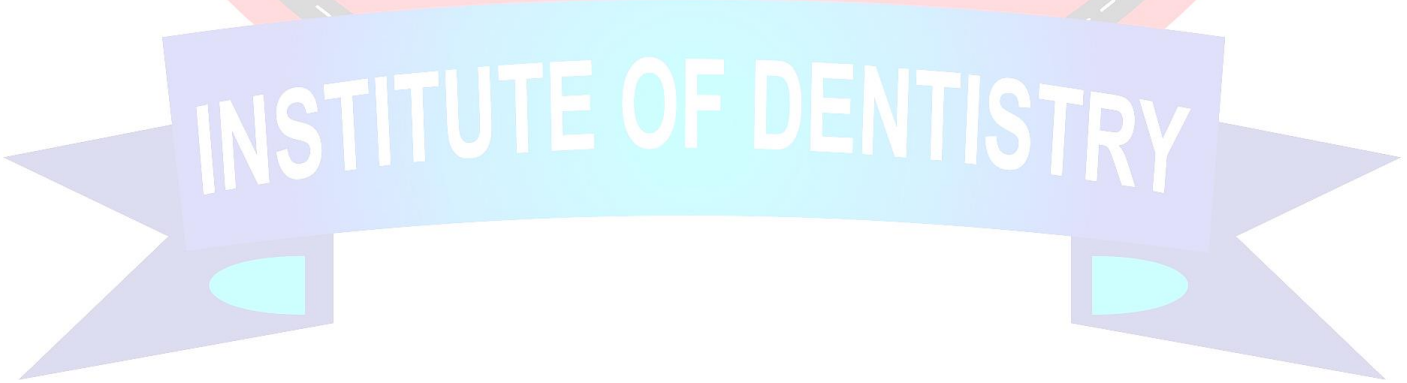
TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT					
				Clinical	VIVA	OSPE	NUMS MCQs	NUMS SEQs	
<b>49. Principles of Tooth Preparation</b> <ul style="list-style-type: none"> <li>• Discuss Biological considerations</li> <li>• Discuss Mechanical considerations</li> <li>• Discuss Esthetic considerations</li> </ul>	Prof. Dr. Abdul Mueed Zaigham	CPA	Interactive lecture						
					X	02	01		
<b>50. Complete Cast Crown Preparation</b> <ul style="list-style-type: none"> <li>• Discuss Advantages/ disadvantages</li> <li>• Discuss Indications / Contra indication</li> <li>• Describe Preparation guidelines</li> </ul>	Dr. Atiq ur Rehman	CPA	Interactive lecture/ Practical						
					X				
<b>51. Metal - Ceramic Crown Preparation</b> <ul style="list-style-type: none"> <li>• Discuss Advantages/ disadvantages</li> <li>• Discuss Indications / Contraindications</li> <li>• Describe Preparation guidelines</li> </ul>	Dr. Khalid Yaqub	CPA	Interactive lecture/ Practical						
<b>52. All-Ceramic Crown Preparation</b> <ul style="list-style-type: none"> <li>• Discuss Advantages/ disadvantages</li> <li>• Discuss Indications / Contraindication</li> <li>• Describe Preparation guidelines</li> </ul>	Dr. Saira Ibrahim	CPA	Interactive lecture / Practical						
							X		

<b>53. Tissue Management &amp; Impression</b>	Prof. Dr. Abdul Mueed Zaigham	CPA	Interactive lecture /					
<b>Method</b>			Practical					
• Describe tissue Displacement								
• Describe Electro surgery								
• Describe Impression making								
<b>54. Interim restorations</b>	Dr. Khalid Yaqub	C	Interactive lecture / Skill			X		
• Discuss Materials & Techniques								
• Discuss Ante's Law								
• Describe Types of Bridges								
• Describe Tilted Abutment Teeth Management								



TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	VIVA	OSPE	NUMS MCQs	NUMS SEQs
<b>55. Pontic Design</b> <ul style="list-style-type: none"> <li>Discuss Biological / esthetic / mechanical considerations</li> <li>Describe Pontic classification</li> </ul>	Prof. Dr. M. Afzal	C	Interactive lecture / Skill			X		
<b>56. Laboratory Procedure in FPD</b> <ul style="list-style-type: none"> <li>Describe Cast &amp; dies</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Wax patterns</li> <li>Discuss Frame work design</li> </ul>	Prof. Dr. M. Afzal	C	Interactive lecture / Skill	X				
<b>57. Investment and Casting</b> <ul style="list-style-type: none"> <li>Describe Sprue Considerations</li> <li>Discuss Casting procedure</li> <li>Discuss Casting defects</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Wax patterns</li> <li>Discuss Frame work design</li> </ul>	Dr. Atiq ur Rehman	C	Interactive lecture / Skill	X				
<b>58. Luting Agents and Cementation Procedures</b> <ul style="list-style-type: none"> <li>Discuss Different types of types of cement</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Wax patterns</li> <li>Discuss Frame work design</li> </ul>	Dr. Saira Ibrahim	C	Interactive lecture	X				
<b>57. Investment and Casting</b> <ul style="list-style-type: none"> <li>Describe Sprue Considerations</li> <li>Discuss Casting procedure</li> <li>Discuss Casting defects</li> </ul>								

<ul style="list-style-type: none"> <li>Describe Cementation procedure</li> </ul>								
<b>59. Resin Retain Fixed Partial Dentures</b>	Dr. Khalid Yaqub	C	Interactive lecture/ Small group discussion					X
<ul style="list-style-type: none"> <li>Discuss Design concept</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Abutment tooth preparation guideline</li> </ul>								
<b>60. Miscellaneous topic Related to FPDs</b>	Dr. Saira Ibrahim	C	Interactive lecture					X
<ul style="list-style-type: none"> <li>Discuss Ante's Law</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Types of Bridges</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Tilted Abutment Teeth Management</li> </ul>								



TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	VIVA	OSPE	NUMS MCQs	NUMS SEQs
<b>61. Introduction to Implants</b>	Dr. Khalid Yaqub	C	Interactive lecture			X		
<b>62. Osseointegration</b>	Dr. Khalid Yaqub	C	Interactive lecture			X		
<ul style="list-style-type: none"> <li>Define osseointegration</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Factors effecting osseointegration</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss Osseointegration materials</li> </ul>								
<b>63. Implant supported prosthesis</b>	Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture			X		
<ul style="list-style-type: none"> <li>Discuss Types of prosthesis</li> </ul>								
<ul style="list-style-type: none"> <li>Describe Components of implants</li> </ul>								
<b>64. Impression making in implant dentistry</b>	Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture			X		
<b>65. Abutment selection for implants</b>	Prof. Dr. Abdul Mueed Zaigham	C	Interactive lecture			X		
<ul style="list-style-type: none"> <li>Discuss type of abutment</li> </ul>								
<ul style="list-style-type: none"> <li>Discuss selection criteria for abutment selection</li> </ul>								

TOPICS	FACULTY	LEARNING DOMAIN (CPA)	LEARNING STRATEGY	ASSESSMENT				
				Clinical	VIVA	OSPE	NUMS MCQs	NUMS SEQs
<b>68. Introduction to maxillofacial Prosthodontics</b>	Dr. Atiqur Rehman	C	Interactive lecture	X			02	
<ul style="list-style-type: none"> <li>Types of the prostheses for maxilla and mandible</li> <li>Major concerns of mandibular prosthesis</li> </ul>								
<b>69. Introduction to maxillofacial Prosthodontics</b>	Dr. Atiqur Rehman	C		X				
<ul style="list-style-type: none"> <li>Classification</li> </ul>								
<b>70. Obturators</b>	Dr. Atiqur Rehman	C	Interactive lecture	X				
<ul style="list-style-type: none"> <li>Classification of maxillary defects</li> <li>Types</li> <li>Indications and objective</li> </ul>								

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