



# STUDY GUIDE – 2025 Final Year BDS Batch- XXIII (23)

#### Compiled by:

#### Department of Health Professions Education College of Dentistry

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"Heartfelt gratitude to all departments for supporting and collaborating efficiently for compiling of this study guide"







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#### How is Study guide going to help you?

- A study guide serves as a comprehensive tool for both learners and facilitators to enhance learning experience by offering direction, organizing academic information, and identifying essential resources Its primary goal is to optimize individual academic outcomes by providing:
  - Clear details on the academic calendar and administrative procedures for effective communication and support.
  - Defined learning objectives aligned with teaching methodologies, and assessment strategies for each subject to guide students towards their educational targets.
  - Accessible learning resources such as textbooks, and supplementary materials.
  - Guidance on continuous evaluation (internal evaluation) and important instructions.

#### Vision:

The vision of LCMD is to be an outstanding institution that produces health care providers that are exemplary. Community based, and in alignment with the National Health Policy of Pakistan.

#### Mission Statement (COD):

To produce outstanding, compassionate, and skillful graduates in the field of dentistry, who practice evidence-based dentistry, professionalism, leadership, advocacy, social responsiveness and are life-long learners.





#### **Program Competencies:**

The LCMD BDS program competencies are aligned with those of PMDC's competencies for dental graduates.







#### **Program Learning Objectives**

Demonstrate a high level of clinical proficiency in performing a wide range of dental procedures including diagnosis, treatment planning and execution of dental treatments

Provide patient-centered care, showing empathy, compassion and respect for patients' needs and concerns, and effectively communicate treatment options and plans

Adhere to the highest ethical standards in dental practice, maintaining integrity, honesty and confidentiality while fostering trust and professionalism in their interactions with patients and

Actively engage in their local communities to promote oral health awareness, provide dental care to underserved populations, and contribute to the betterment of oral healthcare on a broader scale

Exhibit a commitment to lifelong learning by actively engaging in continuing education, staying current with advancements in dental science and technology, and seeking opportunities to enhance their skills

Assume leadership roles with in their dental practices or in dental organizations, as well as collaborate effectively with other healthcare professionals to ensure comprehensive patient care

Critically evaluate and apply scientific research to their clinical practice ensuring evidence-based decision making and continuous improvement in patient care

Possess basic knowledge and skills in practice management, including financial management, regulatory compliance, and ethical billing practices Demonstrate strong communication skills, both with patients and within the dental team, fostering effective teamwork and patient education

Strive to achieve positive patient outcomes, including improved oral health, patient satisfaction, and the prevention or early detection of dental diseases





	Program Outcomes
1.	Demonstrate proficiency in the use of dental instruments and equipment, required for dental procedures.
2.	Identify common dental conditions and diseases.
3.	Formulate comprehensive treatment plans for patients, considering their oral health status and individual needs.
4.	Develop the ability to prioritize and sequence dental treatments effectively, considering both immediate and long-term oral health goals.
5.	Provide compassionate and empathetic care, acknowledging the physical and emotional needs of patients.
6.	Implement the concept of informed consent, ensuring that patients are well-informed about their treatment options and have the opportunity to provide their consent or refusal.
7.	Engage in self-reflection and continuous improvement of their patient-centered care and communication skills
8.	Consistently make ethical decisions in their interactions with patients, colleagues, and the broader dental community.
9.	Maintain strict patient confidentiality, respecting the privacy and security of patient information and medical records.
10.	Demonstrate appropriate professional boundaries in their relationships with patients and colleagues.
11.	Demonstrate the ability to assume leadership roles within dental practices or dental organizations.
12.	Provide ethical and moral leadership, upholding the highest standards of integrity and professionalism in their roles.
13.	Commit to ongoing professional development and leadership training to refine their leadership and collaboration skills over time.
14.	Develop a strong commitment to lifelong learning, recognizing that dentistry is a dynamic field that requires ongoing education.
15.	Stay informed about the latest advancements in dental science, technology, and treatment options.
16.	Actively participate in continuing education programs, workshops, and seminars to stay current with best practices and evolving standards in dentistry.
17.	Keep up-to-date with advances in dental technology, and effectively and safely integrate these tools into their practice.
18.	Actively participate in and lead community outreach programs and events aimed at promoting oral health awareness, preventive care, and healthy oral hygiene practices.
10	Proficient in delivering effective oral health education to community members of all ages,
19.	focusing on prevention and maintaining good oral hygiene practices.
20.	Aim for long-term community impact by establishing sustainable programs, initiatives, or





	COLLEGE OF DENTISTRI									
	partnerships that continue to promote oral health awareness and access to care.									
	Engage in self-reflection and evaluation of their community engagement efforts, seeking									
21.	continuous improvement and increased effectiveness.									
	Develop strong research literacy, which includes the ability to locate, critically evaluate, and									
22.	understand scientific literature relevant to dentistry.									
	Consistently make clinical decisions based on the best available scientific evidence, using									
23.	research findings to guide patient care.									
	Integrate evidence-based findings into their clinical practice, adapting treatment plans and									
24.	approaches as new research emerges.									
	Practice research ethics, including the responsible conduct of research, informed consent, and									
25.	the protection of human subjects in dental research.									
	Engage in lifelong learning by continuously updating their knowledge of research methodologies									
26.	and staying informed about the latest research trends in dentistry.									
	Demonstrate proficiency in managing the financial aspects of a dental practice, including									
budgeting, financial planning, and expense control.										
	Practice intricacies of billing and coding for dental services, ensuring accuracy and compliance									
28.	with insurance and regulatory requirements.									
	Well-versed in dental practice regulations, including those related to licensure, accreditation,									
29.	and quality assurance.									
20	Commit to ethical billing practices, avoiding overbilling or unnecessary procedures and ensuring									
30.	transparency in financial transactions with patients.									
21	Proficient in communicating effectively with patients, using clear and empathetic language to									
31.	explain diagnoses, treatment options, and post-treatment care instructions.									
20	Excel in communicating and collaborating with other members of the dental team, including									
32.	dental assistants, hygienists, and administrative staff, to ensure seamless patient care.									
	Educate patients about oral health, prevention, and treatment options in a clear and									
33.	understandable manner, using various educational materials and tools.									
	Prioritize and demonstrate their commitment to improving the oral health of their patients by									
34.	providing evidence-based and effective dental care.									
	Excel in the prevention and early detection of dental diseases, promoting regular check-ups,									
35.	screenings, and preventive measures to minimize the impact of oral health issues.									
	Prioritize patient comfort and satisfaction, ensuring a positive and comfortable experience during									
36.	dental procedures.									
37.	Actively promote preventive education and awareness to help patients understand the									
	importance of maintaining good oral hygiene and the prevention of dental diseases									





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Dr. Sabaa Shahid

**Secretary** Curriculum Committee Clinical Sciences

Dr. Amna Afridi

**Coordinator** Curriculum Committee Clinical Sciences

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Prof. Dr. Uzma Zareef	Professor – Oral Pathology
Dr. Sadaf Talha	Assistant Professor – Orthodontics
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Dr. Aisha Faisal	Assistant Professor – Pediatric Dentistry
Dr. Umair Bukhari	Senior Registrar – General Medicine & 3 <sup>rd</sup> Year Coordinator
Dr. Ismail Latif	Lecturer - Pediatric Dentistry & Final Year Coordinator
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Deat Death and Advert	

Prof. Dr. Irfan Ashraf	Head Of Department Student Affairs & Examination
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Class Representatives From Third Year & Final Year BDS

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#### **ACADEMIC CALENDAR – FINAL YEAR BDS**

MONTH			Al	PRIL				М	AY					JUNE					ון	ULY		AUGUS	ST		
WEEK		1	2	3		4	1	2	3	4		1	2	3	4		5	1	2	3	4	1	2		
CUMULATIVE WEEK		1	2	3		4	5	6	7	8		9	10	11	12		13	14	15	16	17	18	19		
DATES		7-Apr	14-Apr	21-Apr		28-Apr	5-May	12-May	19-May	26-Ma	у	2-Jun	9-Jun	16-Jun	23-Jun		30-Jun	7-Jul	14-Jul	21-Jul	28-Jul	4-Aug	11-Aug		
	0	Introduction to Sperative Dentistry Biologic Considerations In Sperative Dentistry	Patient Evaluation And Problem Oriented Treatment Planning	Preliminary  Gonsiderations Operative Dentis (Sterilization A Disinfection)	In stry nd	o And Periradicular Pathosis	Dental Caries (Enology And Clinical Characteristics)	Biology Of Deni Pulp And Periradic Tissue		Pulp					Management dental carie	t of Cavity	nciples of Design and eparation	Amalgam	Amalgam Restorations (Clas II cavity preparation) Endodontic Microbiology	Bonding to ename and dentine	Endodentic Diagnosis and Treatment Plan	Class 5 Restorations & Root caries (Class 5 Restorations)			
OPERATIVE DENTISTRY		ient Evaluation And Problem Oriented Teatment Planning	Preliminary Considerations In Operative Dentistry (Operating Positions) Preliminary Considerations In Operative Dentistry (Isolation)	Occlusion	(Enic	Dental Caries ology And Clinical Characteristics)	Dental Caries (Diagnosis)	Pain Activation A Transmission	Pulpitis and Sequelae						Management Deep Carion Lesion	Instru Equi Tooth	aments and ipment for Preparation	destorations (Class I cavity preparation)	Pulp Anatomy	Endodontic Diagnosis and Treatment Plan	Instruments in Endodontics	Class 5 Restorations & Root caries (Diagnosis and Treatment of Root Caries)  Endodontic	-		
			Preliminary Considerations In Operative Dentistry (Cross Infection Control)	Pulp And Periradi Pathosis Principles of			Biology Of Dental Pulp And Periradicular Tissue  PREVENTION &	Vitality							radiograpl	h A Reston	malgam ations (Class R cavity sparation)	Amalgam destorations (Class II cavity preparation)	Bonding to ename and dentine			Radiology			
	Pr &	inciples of Asepsis Infection Control	Pain & Anxiety Control in Surgical Practice	Management 8 Prevention of odontogenic Infections	f Pre	coperative Health natus Evaluation	MANAGEMENT OF MEDICAL EMERGENCIES	ODONTOGEN: INFECTIONS		ENIC					Wound Repo	air Hos	agement of spitalized Patients	Odontogenic Diseases of Maxillary Sinus	Odontogenic Diseases of Maxillary Sinus	Post-Extraction Patient Management	Surgical Management of Oropathologic Lesions	Surgical Management of Oropathologic Lesions			
	-	Ba	asic Principles of Surg	Principles of	4		Principles of R	outine Exodontia	V							Princip	ples of More Co	emplex Exodontia		Principles	of Management of Imp	pacted Teeth			
ORAL SURGERY	à	inciples of Asepsis Infection Control  Pain & Anxiety ontrol in Surgical Practice	Principles of Management & Prevention of odomogenic Infections	Management & Prevention of odontogenic Infec  Preoperative Her Status Evaluation	T Ba	strumentation Of seic Oral Surgery  Prevention & Management Of dieal Emergencies	Prevention & Management Of Medical Emergencies Complex Odomogenic Infections	Complex Odortog Infections	enic Post Operative Manageme			ECTIVES BREAK	EID UL ADHA & SUMMER VACATIO	ELECTIVES BREAK	Wound Repo	Mana Hos it of ed	agement of spitalized Patients	Odontogenic Diseases of Maxillary Sinus	Odontogenic Diseases of Maxillary Sinus Post-Extraction Patient Management	Principles of Biopsy & Differential Diagnosis	Surgical Management of Oropathologic Lesions	Surgical Management of Oropathologic Lesions	TERM II		
ORTHODONTICS	L	Introduction to Orthodontics Development to	Development to Dentition  Development of	Diagnosis Aids,0 History and clin Examination.	Tase ical	agnosis Aids,Case istory and clinical Examination. Growth and	Growth and	Development	Syndrome	+					Ce	ephalometric		Cephalometrics Biology of tooth	Biology of tooth movement orthodontic Removable	Orthodontic Functional Appliances	Orthodontic Functional Appliances	Etiology of Malocclusion	-		
		Dentition Introduction	Physical and biomechanical considerations in	History, coming and Treatment planning for comp	non :	Development  Biological miderations for	Introduction to FPD	Introduction to	Revision  History a	nd					Treatment		eatment I	movement Principles of tooth	Appliances  Principles of tooth	Retainers of FPD	Malocclusion	Revision of RPD	-		
PROSTHODONTICS	L	Terminologies	complete denture  History, examination	demare Preprosthetic surp	gery	impression	Posterior palatal seal	Facebow	Arriculato						Denture base occlusal rir	and m	ning of FPD	Mandibular movements	preparation  Selection of artificial teeth		Theories of occlusion	Trial of CD			
		Physical and biomechanical considerations in complete denture	and Treatment planning for complete denture	Anatomical landm (flipped class) Biological considerations f impression	imp	Impression and pression theories	Facebow	Articulators  Articulators	RPD Revis	ion					fabrication	jaw ie		Posterior palatal eal (flipped class)	Arrangement of Artificial teeth	Arrangement of Artificial teeth	Trial of CD	RPD Revision			
PEDIATRIC DENTISTRY		Introduction to	pain and Anniety Management of	Diagnosis and Pro	evention of distric Pati	of Dental Caries in	History Examination, & Risk Assessment & Treatment Planning in	Local Anestheis technique for Chilo	a dren Revision da	ISSES					Treatment of De Caries in the Preschoo Children	ol for Pe	ative Dentistry diatric Patient Therapy for	Pulp Therapy for Primary and Young Permanent Teeth	Pulp Therapy for Primary and Young Permanent Teeth	Advanced Restorativ Dentistry	Periodontal Diseases in Children	Periodontal Diseases in Children			
	Ì		pediatrie patient				Pediatric Denzistry	Local Anestheis technique for Chile	dren Revision cla		_						Restorative Dent for Pediatric Pa	ntistry Pr ntient Your			Advanced Restorative Dentistry	Periodontal Disease in Children	Periodontal Diseases in Children	Revision classes	
PDC SKILLS					_			l	Basic life sup (BLS)	, , , , , , , , , , , , , , , , , , ,										51		Biopsy Taking			
MONTH		AUGUST				SEPTEMBE	R			остовн	R			NOVEME	ER			DECEMB	ER		JANUARY	FEBRUA	RY		
CUMULATIVE	2	3	4	1	2	3	4	5	1	2	3	4	1	2	3	4	1	2	3 4		2 3 4	1 2	3 4		
WEEK	19 11-Aug	20	21 25-Aug	22	23 8-Sep	24 15-Sep	25 22-Sep	26 29-Sep	27 6-Oct	28 13-Oct	29 20-Oct	30 27-Oct	31 3-Nov	32 10-Nov	33 17-Nov	34 24-Nov	35 1-Dec	36 8-Dec	37 38 15-Dec 22-Dec		41 42 43 -Jan 19-Jan 26-Jan		46 47 6-Feb 23-Feb		
DATES	11-Aug	Local Anothesia In Endodortic	Isolatice,	1-Srp	8-жер	Rect Canal Obturation	Teeth Surface Loss	29-Sep  Endedontic And Periodontal Inter Relationship  Direct Composite Restorations	Direct Composite Restorations (Composite Veneer)  Direct Composite Restorations	13-Oct  Direct Composite Restonations (Fissure Seulant & Preventive Resin Restonation)	28-04	Z7-Oct	Discoloration of Teeth	Restoration Of Endodostically Treated Tooth  Endodostic Retreatment (Nessurgical Endodostic	Endodestic Retreatment (Endodestic Surgery) Per	24-Nov stial Coverage Indirect Restorations	Endodentic Emergencies	8-Dec  Review Of  Restorative  Materials  Full Coverage  Indirect  Restorations	15-Dec 22-Dec	29-13cc   5-jan   12	-jan 19-jan 26-jan	2-146 9-146 1	b-Peb ZS-Peb		
OPERATIVE DENTISTRY		Rect Rescrption  Intra Canal  Medicaments And Temporary Filling Materials	Endodontic Access, And Length Determination	Cleaning And Shaping		Tooth Surface Los	Longitudinal Tooth Fractures	(Esthetic Considerations)  Direct Composite Restorations (Class III)  Direct Composite Restorations (Class	(Direct Posterior Composite Restorations Class I,II &VI)  Direct Composite Restorations (Fisoure Scalant &	Procedural Accidents		Discoleration	Restoration Of Endodostically Treated Tooth	Retreatment)  Endodontic Retreatment	Review Of Restorative Materials For Indirect Restoration  artial Coverage Indirect	Endodontic Emergencies	Review Of Restorative Materials	Implant Supported Restorations	-						
		Surgical Management of Oropathologic Lesions	Preprostheti	c Surgery		Management of Patients undergoing Radiotherapy &	Management of Patients undergoing Radiotherapy &	Orofacial Pain & Neurologic Disorders of The Maxillofacial	Preventive Resin Restoration)  Principles of Endedontic Surgery	Principles of Endodontic Surgery		Teeth	ent of TMJ Disorders	Diagnosis & Management of Salivary Gland Disorders	Surgical Macconstruction of F	fanagement of Patients with Profacial Clefs	Examples of Proscription Writing	Drug Enforcement Administration Schedule							
ORAL SURGERY		Soft Ti	issue & Destoalveolar	injury		Management c  Soft Tissue & Dentoalveolar	Chemotherapy of Facial Fractures Orefacial Pain &	Region Management of Man	ndibular Fractures  Management of Mandibular	Management of		٥	Management of M	stidface Fractures Diagnosis &	Imp	plant Treatmen Tech	it: Basic Concepts riques  Operative Not Writing (Offic Records, Refer	de Implant e Treatment: e Advanced al Concepts de							
	TERM II	Surgical Management of Orepathologic Lesions	Preprosthetic Surgery	Preprosthetic Surgery	SPORTS WEEK	Injury  Maragement of Patients undergoing Radiotherapy & Chemotherapy	Oretacial Pain & Neurologic Disorders of The Maxillofacial Region	Medicologal Considerations	Principles of Endedontic Surgery	Management of Mandibular Fractures	TERM III	Management TMJ Discode	Diagnosis &	Disorders Surgical b	Defe	Correction of Dentofacial formities/Ortho nathic Surgery	Letters, Biops Reports)  Antibiotics Overview	Complex Cases  Consent for Extraction & Anasthesia	PRE PROF. PREPARATORY LEAVE	PRE-PROF. P	ROF. PREPARATORY LEAVE	PROF. EXAME	NATION		
ORTHODONTICS		Space Management Eruption Theories	Theories of tooth Movement  Mechanics of tooth Movement	Movement  Orthodontic Fixed Appliances		Orthodontic Fixed Appliances	Teoth Mass are size Analysis	Tooth Mass ans size Analysis Anchorage in Orthodontics	Anchorage in Orthodontics Adult Orthodontics and periodontal Considerations	Orthodortics and periodontal Considerations  Revision Class		Treatment Planning	Treatment Planning Orthograthic Surgery	Retention and Relapse	Cleft lip and Palate Iate of	Cleft lip and Palate trogenic Effects of Orthodontic Treatment	Latrogenic Effec of Orthodonti Treatment Revision Classe	Revision Classes							
PROSTHODONTICS		Pontics of FPD  Denture Processing (Flipped class)	Pontics of FPD (	Connectors of FPD Post insertion complaints of CD		Types of FPD  Techniques to overcome the promlems in CD	Types of FPD  Relining, Rebasing and repair	Resin bonded bridges Single CD	Resin bonded   bridges	emporization and shade selection		Dental cemer and cemental Maxillofaci prosthesis (FEg class)	ion and cementation	Selective pressure impression techniques	Implantology		Implantology BCQs Discussia	nn Skill based OSCE							
		Denture Processing  Gerodentology  History and	and patient education	Techniques to overcome the promlems in CD		Sequiae of wearin CD Relining, Rebasing and repair	g Relining, Rebasing and repair Single CD	Immediate desture	Tooth supported overdenture	RPD Revision		Maxillofacia prosthesis	impression techniques	of different procedures		RPD Revision	Unobserved OS Discussion	Discussion							
PEDIATRIC DENTISTRY		Plistory and Examination of Patient with Deend Trauma Injuries to Primary Dentition	Injuries to Peimary Dentition I Injury to Tooth and Hashing After	Injury to Preminent Austria or Hard Tossie  Injury to Preminent		Inherited Anomalies of Enamel and Dontin Inherited Anomalies of Enamel and Dontin	of Inhested Anomalies of Enamel and Dentin of Inhested Anomalies of Enamel and Dentin	Revision classes  Revision classes	Revision dasses  Revision dasses	Revision dasses  Revision dasses		nomalies of To Formation an Enaption nomalies of To Formation an	d Orthodomic Interface	Pathology in Pediatric Paterns Patients Oral Surgery and	Patients Oral Surgery and	Revision dasses	Revision disses Revision disses	Revision classes  Revision classes	-						
PDC SKILLS		,	Trauma f	Numinion-Hard Tissue				AND		Primary Airway Management		Eruption	Interface	Pathology in Pedianic Paterns  Orofacial Radiology	Patients 10	- CONTRACTOR OF THE PARTY OF TH		and the same of th							





#### TIME TABLE



#### LIAQUAT COLLEGE OF MEDICINE & DENTISTRY TIME TABLE FOR FINAL PROFESSIONAL BDS (BATCH - 23) 7th April 2025 TO 12th April 2025 (WEEK-1)

Darul Sehat

100		7 2 <b>1</b> pm	2023 TO	12" Apr	11 2023 (VVLL)	K-1)					
DAY	08:30 - 09:30	09:30 - 10:15	10:15	- 11:00	11:00 - 12:45			01:30 - 2:30		02:30 - 03:30	
	OPERATIVE DENTISTRY	PROSTHODONTICS	ROSTHODONTICS PEDIA DENT		OPD			OFD			
MONDAY 7-04-25	Introduction to Operative Dentistry (Prof. Dr. Naheed Najmi)	Introduction to Prosthodontics (Prof. Dr. Irum Munir Raja)	Introduction to Pediatric Dentistry (Dr. Aisha Faisal)		Group A, Group Group C, Group Group E	oup D		Group A, Group B, Group C, Group D, Group E			
	PROSTHODONTICS	ORAL SURGERY	ORTHOL	OONTICS	OPD				OI	PD	
TUESDAY 8-04-25	Biomechanical Considerations in Complete Denture (Prof. Dr. Irum Raja)	Prevention & Management of Medical Emergencies (Prof. Dr. Tahera Ayub)	of Medical Introdu		Group A, Group Group C, Group Group E	B D	Break 12:45 PM Gronb V Gronn		p B, Group C, Group D, Group E		
	ORAL SURGERY	PROSTHODONTICS		ATRIC ISTRY	OPD				OI	PD	
WEDNESDAY 9-04-25	Principles of Surgery (Prof. Dr. Navid Rashid Qureshi)	Biomechanical Considerations in Complete Denture (Prof. Dr. Irum Munir Raja)	Introdu Pediatric	action to Dentistry na Faisal)	Group A, Group Group C, Group Group E		Lunch & Prayer	Group A, Group B, (		Group C, Group D, Group E	
	ORTHODONTICS	OPERATIVE DENTISTRY	PROSTHODONTICS		OPD			OPERATIVE DENTISTRY		ORAL SURGERY	
THURSDAY 10-04-25	Diagnosis Aids, Case History and Clinical Examination (Dr. Sadaf Talha)	Patient evaluation and problem-oriented treatment planning (Prof. Dr. Naheed Najmi)	Introduction to Fixed Prosthodontics (Dr. Kamran Parvez)		Group A, Group Group C, Group Group E			Biologic Considerat in Operative Dentis (Dr. Tazeen Zehro	try	Pre-operative Health Status Evaluation (Dr. Summera Kanwal)	
	08:30 - 09:30	09:30 - 10:30			10:50 - 11:50			11:50 - 12:50			
FRIDAY	OPERATIVE DENTISTRY	ORTHODONTICS	10:30 - 10:50		OPERATIVE DENTISTRY			ORAL SURGERY			
11-04-25	Patient Evaluation & Problem-Oriented Treatment Planning (Prof. Dr. Naheed Najmi)	Diagnosis Aids, Case History and Clinical Examination (Dr. Sadaf Talha)	Tea Break		Patient Evaluation & Problem-Oriented Treatment Planning (Dr. Tazeen)		Pre-operative Health Str Evaluation (Dr. Summera Kanwa			OFF GOOGLE Assignment	
					9:00-3:30					· · · · · · · · · · · · · · · · · · ·	
SATURDAY 12-04-25	Group A	Group I	3		ROTATION Group C		Group D			Group E	
R.L= RESPECTIVE LAB R.D= RESPECTIVE DEPARTMENT L.H.4=LECTURE HALL 4* AUDITORIUM											
Dr. Ismail Latif											



Coordinator Final Year BDS

#### LIAQUAT COLLEGE OF MEDICINE & DENTISTRY



DAY	OPERATIVE DENTISTRY	PEDIATRIC DENTISTRY	ORAL SURGERY	PROSTHODONTICS	ORTHODONTICS
MONDAY 7-04-25	Introduction to OPD     History, diagnosis and treatment planning.     Parts of the dental unit.     Chair positioning. (Dr. Sareema/ Dr. Hira)	Introduction to the Department of Pediatric dentistry (Dr. M. Ismail)	Introduction to the Department of Oral Surgery (Dr. Marium Khan)	Introduction and orientation of department (Dr. Anas)     History Taking (Dr. Kamran)	History and Clinical Examination (Dr. Nazneen/ Dr.Siddique)
	OPERATIVE DENTISTRY	PEDIATRIC DENTISTRY	ORAL SURGERY	PROSTHODONTICS	ORTHODONTICS
TUESDAY 8-04-25			History and Examination Form Demonstration (Dr. Fizza Bano)	Maxillary Denture base fabrication (Dr. Anas)     Steps of Complete denture fabrication (Dr. Anas)	Cephalostat and landmarks/Clinical Procedures (Dr. Aiman/ Dr. Madiha)
	OPERATIVE DENTISTRY	PEDIATRIC DENTISTRY	ORAL SURGERY	PROSTHODONTICS	ORTHODONTICS
WEDNESDAY 9-04-25	Disinfection and sterilization.     Cavity preparation on phantom teeth. Class I and II. (Dr. Sareema)	Disinfection & Sterilization (Dr. M. Ismail)	Radiographs interpretation on X-ray films (Dr. Abdul Raffay)	Mandibular denture base fabrication (Dr. Anas)	Ceph Tracing and planes/Clinical Procedures (Dr. Aiman/ Dr. Madiha)
	OPERATIVE DENTISTRY	PEDIATRIC DENTISTRY	ORAL SURGERY	PROSTHODONTICS	ORTHODONTICS
THURSDAY 10-04-25	Breaking bad news. (Dr. Sareema)	OPD Test (Dr. M. Ismail)	History taking of Pain (Role-play) (Dr. Amna Afridi)	Occlusal rim fabrication (Dr. Anas)	Ceph Analysis (Dr. Aiman/ Dr. Madiha)





#### **OPD ROTATIONS**

MONTH	OPERATIVE DENTISTRY	ORAL SURGERY	ORTHODONTICS	PROSTHODONTICS	PEDIATRIC DENTISTRY	ASSESSMENT DATES
7 <sup>™</sup> APRIL 2025 TO 20 <sup>™</sup> MAY 2025	A	В	С	D	E	21 <sup>st</sup> MAY 2025
22 <sup>ND</sup> MAY 2025 TO 15 <sup>™</sup> JULY 2025	E	A	F NBED	C	D	16™ JULY 2025
17 <sup>™</sup> JULY 2025 TO 2 <sup>ND</sup> SEPTEMBER 2025	D	E	A	В	С	3 <sup>RD</sup> SEPTEMBER 2025
4 <sup>™</sup> SEPTEMBER 2025 TO 14 <sup>™</sup> OCTOBER 2025	U	D	E	A	В	15™ OCTOBER 2025
16 <sup>™</sup> OCTOBER 2025 TO 9 <sup>™</sup> DECEMBER	В	С	D	E	A	10 <sup>TH</sup> DECEMBER 2025







	ADULT LEARNING PRINCIPLES								
1.	The learner should be an active contributor to the educational process								
2.	Learning should closely relate to understanding and solving real life problems								
3.	Learners' current knowledge and experience are critical in new learning situations and need to be taken into account								
4.	Learners should be given the opportunity and support to use self-direction in their learning								
10X)	Learners should be given opportunities and support for practice, accompanied by self-assessment and constructive feedback from teachers and peers								
6.	Learners should be given opportunities to reflect on their practice; this involves analyzing and assessing their own performance and developing new perspectives and options								
7.	Use of role models by medical educators has a major impact on learners. As people often teach the way they were taught, medical educators should model these educational principles with their students and junior doctors. This will help the next generation of teachers and learners to become more effective and should lead to better care for patients								





HOLIDAY	CALENDAR				
Labour Day	1 <sup>st</sup> May, 2025				
*Eid-ul-Azha	07, 08 & 09 June 2025				
*Ashura	05 & 06 July, 2025				
*Chehlum	15 <sup>th</sup> August, 2025				
Independence Day	14 <sup>th</sup> August, 2025				
*Eid Milad un Nabi	5 <sup>th</sup> September, 2025				
Allama Iqbal Day	9 <sup>th</sup> November, 2025				
Quaid-e-Azam Day	25 <sup>th</sup> December, 2025				

\*Holidays subject to sighting of Moon

Note 1: All gazette holidays will be observed

Note 2: Principal can make amendments in the Academic

Calendar if the need arises.





	EVENT CALENDAR					
S. No	EVENTS					
1.	Dental Digital Photography & Art / Literature Fest					
2.	Annual Student Week (Sports, English/Urdu Debate, Qirat & Naat)					
3.	14 <sup>th</sup> August Celebration					
4.	Defence Day Celebration					
5.	Annual Picnic & Gala					

NOTE - THE CALENDAR IS TENTATIVE AND IS SUBJECT TO CHANGE AS PER THE INSTRUCTIONS OF COMPETENT AUTHORITIES











#### **LEARNING OUTCOMES**

	ORAL SURGERY
By the end of Final Ye	ears of BDS Programme, the dental graduate will be
able to:	
Knowledge:	<ul> <li>Identify health status, and systemic illnesses and their impacts on Oral Surgical procedures with preoperative management</li> <li>Interpret clinical and radiographic findings of cases to recognize and differentiate between simple and surgical extraction.</li> <li>Recognize the pre-requisites and basic principles of surgery.</li> <li>Be competent in decision making, clinical reasoning and judgment of oral surgical problems in order to develop a differential provisional or definitive diagnosis by interpreting and co-relating findings from the history clinical and radiographic examination and other diagnostic tests taking into account the social and cultural backgrounds of the individuals.</li> <li>Formulate a diagnosis and treatment plan for patients of all ages and should recognize those treatments that are beyond his/her skills and need to be referred to a specialist.</li> <li>Manage conditions requiring simple reparative surgical procedures of the hard and soft tissues in patients of all ages including the extraction of teeth, the removal of roots where necessary and the performance of minor oral soft tissue surgery and to apply appropriate pharmaceutical agents to support the treatment.</li> <li>Outline the indications and contraindications of routine and complicated Exodontia, post-extraction status and its clinical implications.</li> <li>Employ appropriate techniques to manage orofacial pain, discomfort and psychological distress.</li> <li>Explain the dynamics of facial spaces, mode of infection spread, and outline protocol of management.</li> <li>Diagnose the Temporomandibular Joint and salivary gland related disorders.</li> </ul>
Skills:	<ul> <li>Establish a patient-dentist relationship to identify patient expectations and goals of dental care for effective delivery of dental treatment.</li> <li>Perform intra and extraoral examinations and advice relevant investigations.</li> <li>Administer infiltration and nerve block of Local Anesthesia.</li> </ul>
	<ul> <li>Perform clinical implications of simple and surgical</li> </ul>





	extractions under local anesthesia.			
	Perform uncomplicated pre-prosthetic surgical			
	procedures.			
	Manage common intra-operative and Post-			
	operative minor oral surgical complications.			
	Evaluate and manage the medical emergencies on			
	chair-side.			
	Management of trauma in deciduous and			
	permanent dentition with surgical and non-surgical			
	aspects			
	Display appropriate professional behavior towards			
	their clinical practice and co-workers.			
	Manifest empathy and respect in his/her attitude			
	and behavior towards patients.			
A Wilardo.	Be compassionate towards patients while performing			
Attitude:	the medico-legal examination with care			
	Respect the patient and be professional when it			
	comes to consent.			
	Exhibit discipline, open-mindedness and competent			
	leadership skills.			







surgery Introduction History, Diagnosis and Treatment Planning  give  2. Exploid Surg  By the end	d of the Oral surgery OPD rotation the could be able to: comprehensive medical & dental bry of the patient present in the rative OPD	Mode Lectures Lecture(1)	Clinical Practical demonstration during surgical rotation	Assessment Tool  Any one form of assessment  - Quiz  - Class Test  - Class Participation  - Individual
surgery Introduction History, Diagnosis and Treatment Planning  Surg By the end	n patient  ain Basic necessities for Oral  ery d of the Oral surgery OPD rotation the  could be able to: e comprehensive medical & dental  ery of the patient present in the  rative OPD		Practical demonstration during surgical	assessment - Quiz - Class Test - Class Participation
surgery Introduction History, Diagnosis and Treatment Planning  Surg By the end	n patient  ain Basic necessities for Oral  ery d of the Oral surgery OPD rotation the  could be able to: e comprehensive medical & dental  ery of the patient present in the  rative OPD	Lecture(I)	demonstration during surgical	assessment - Quiz - Class Test - Class Participation
Introduction History, Diagnosis and Treatment Planning  Surg  By the end	ery d of the Oral surgery OPD rotation the could be able to: comprehensive medical & dental ary of the patient present in the rative OPD		during surgical	- Quiz - Class Test - Class Participation
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	ry of the patient present in the rative OPD			HIGHTIGUGI
	ry of the patient present in the rative OPD			- Assignment
	rative OPD			Group Test
				-OSATS -MINI-CEX Form
2. Perfo	orm extra and intra oral examination	10.		-/VIINI-CLX FOITH
	patient presenting in operative	GIA		
OPD 3. <b>Diag</b>	nose the cause of the problem in			
	patient presenting in OPD			
4. Form	nulate a treatment plan for the			
patie				
	r the patient in different departments			
	ording to prioritizing needs.			
surgical practice	ne Aseptic technique	Lecture(2)		
Z. Expl	ain Communicable Pathogenic			
orgc i.	anisms Bacteria			
	Viral organisms			
	Myco bacterial organisms			
	ine Different Aseptic techniques &			
	ersal precautions			
4. Expl				
	Techniques of instrument			
ii.	Sterilization & Disinfection.  Maintenance of sterility.			
	Operating field disinfection.			
V.	Surgical staff Preparation.	A 14		
vi.	Post surgical Asepsis			
By the end	d of the Oral surgery OPD rotation the			
	ould be able to:			
	<b>cribe</b> appropriate method of			
	ization and disinfection of various uments in OPD.		0	
	nonstrate the universal precautions on			
	lated/patient in OPD			
	nonstrate the use of PPE on simulated			
patie	ents			
	cribe intraoral flags for minor oral	Lecture(1)		
	sify intraoral flaps for minor oral ical procedures			
Surgery 3. Desc	<b>cribe</b> preventive measures for flap			
•	rosis, dehiscence & tearing			
4. <b>Diffe</b> design	r <b>entiate</b> between intraoral flap ans			
	nonstrate	Lecture(1)		1
<u>i)</u>	·			
Seament 7.	) Hemostasis			
Hemostasis 6. <b>Expl</b>	ain:  Means of promoting wound			
Management and	hemostasis			
	) Dead space management			
	d of the Oral surgery OPD rotation the ould be able:			





	1	Demonstrate different bases of in 11			
	1.	<b>Demonstrate</b> different types of incisions.			
		(OSCE/CLINICAL)			
	2.	Classify different flap designs on clinical			
		pictures/ patients			
	3.	<b>Apply</b> different methods of hemostasis on			
		patients (OSCE)			
	4.	<b>Perform</b> different types of suturing			
		techniques on Forms (OSCE/CLINICAL)			
	5.	<b>Diagnose</b> the patient with nerve injury in			
		simulated and real patient			
	6.	Counsel the simulated patient/ given			
		patient regarding post operative wound			
	<u> </u>	care			
	7.	Describe Decontamination &	Lecture(1)		
		debridement			
Segment 3:	8.	<b>Identify</b> operative measures for Edema			
Post Operative Care,		control			
Nutrition, Prevention of		i) Intra operative			
Infection		ii) Post operative			
	9.	Outline Patient general health & nutrition			
		status.			
	1.	Describe Wound repair	Lecture(2)		
	2.	Classify different types of wounds			
	3.	Manage infected socket			
	4.	Explain epithelization		P	
	5.	List causes of tissue damage &		V . 1	
		stages of Wound healing			
	6.	<b>Describe</b> process of healing of extraction			
Wound repair		socket			
Woona repair	7.	<b>Explain</b> Surgical Significance of Wound			
		Healing			
	8.	<b>Define</b> Facial Neuropathy of traumatic			
		origin			
	9.	List the classifications of Nerve Injury			
	10.	. ~			7
		i) Physiological			
		ii) Pathological			





	COURSE TOPIC: PRINCIPLE	S OF SU	RGERY	
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
Leciole Topic	Leaning Objectives	Lectures	Clinical	Assessifient 100is
Prevention and Management of Medical Emergencies	1. Take a comprehensive medical history of patients presenting to OPD. 2. Demonstrate General Physical Examination on the given patient 3. Identify medical condition which can exaggerate medical emergency on dental chair 4. Identify factors which can lead to anxiety on dental chair 5. Practice anxiety reduction protocol 6. Identify preventive measure for medically compromised patients undergoing dental treatment  By the end of the Oral surgery OPD rotation the student should be able to: 1. Diagnose and manage the patients in different medical emergencies (simulated patients/ case-based learning) (OSCE)	Lecture(3)	Practical demonstration during surgical rotation	Any one form of assessment  - Quiz  - Class Test  - Class Participation  - Individual  - Assignment  - Group Test
Preoperative Health Status Evaluation	1. 1. Analyze Dental problems in a Medically compromised patient 2. Obtain informed /Written consent from all patients undergoing oral surgical procedures under Local/General Anesthesia 3. Manage Medically Compromised patient undergoing extraction under Local Anesthesia 4. Prescribe appropriate Medication for pregnant & postpartum patients after treatment.	Lecture(3)	* TUTEW	ACTOV





		Mode	of Teaching	
Lecture Topic	Learning Objectives	Lecture s	Clinical	Assessment Tools
Pain and anxiety control in surgical practice Segment 1: Introduction, types (local, general &	Classify Anesthetic agents on the basis of         i) Chemical structure         ii) Mode of action     Classify different types of Anesthesia used in dentistry     Compare different types of Anesthetic	Lecture (1)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation
sedative anesthesia)	solutions used in dentistry  4. <b>Describe</b> Mechanism of action of Local anesthesia  5. Describe mechanism of action of vasoconstrictors.  6. Elaborate different methods of sedation	GIN		- Individual - Assignment Group Test OSATS
Segment 2: Preoperative assessment (for local anesthesia and sedatives) Indication and contraindication of (LA, & Sedation)	Assess patients for L.A with available information     Assess patients for sedation with nitrous oxide     Iist indications & contraindications of local Anesthesia and sedatives	Lecture (1)		
Segment 3: Administration and complications)	Explain conventional & specialized technique of LA     Identify reasons for failure of anesthesia     Demonstrate different chair positioning for LA administration     Demonstrate administration of infiltration & IDN Block on patients undergoing extraction using conventional technique     By the end of the Oral surgery OPD rotation the student should be able to:     Classify different types of local anesthesia     Demonstrate different techniques on models     Choose proper armamentarium required according to different techniques     Administration of local infiltration, inferior alveolar and long buccal nerve blocks on models/given patients under supervision	Lecture (1)		TDV





Clinical and codiographic poin    1. Define poin   2. Classify different type of pain related to test   1. Define poin   2. Classify different type of pain related to test   3. Demonstrate Anxiety control protocol   4. Relate Pre surgical Medical Assessment,   Clinical evaluation & raciographic   interpretation before extraction   5. Describe potent & surgeons preparation   6. Describe potent who die be ble to:   1. Identify the types of raciographs. (OSCE)   2. Identify the participation of racidation   protection equipment on patient before   7. Counted the simulated patient protect   7. Counted the simulated pati					T
Clinical and codiographic poin    1. Define poin   2. Classify different type of pain related to test   1. Define poin   2. Classify different type of pain related to test   3. Demonstrate Anxiety control protocol   4. Relate Pre surgical Medical Assessment,   Clinical evaluation & raciographic   interpretation before extraction   5. Describe potent & surgeons preparation   6. Describe potent who die be ble to:   1. Identify the types of raciographs. (OSCE)   2. Identify the participation of racidation   protection equipment on patient before   7. Counted the simulated patient protect   7. Counted the simulated pati	Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
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interpretation before extraction  5. Describe polition it surgeons preparation before tooth extraction  By the end of the Yorl surgery OPD rotation the student should be able to:  1. Identify the lyspes of racilographs. (OSCE)  2. Identify the pass of racilographs. (OSCE)  3. Identify the pass of racilographs (OSCE)  4. Demonstrate application of racilotion protection equipment on patient before taking radiograph on pollent.  5. Counsel the simulated patiently given pollent regarding lindings of racilographs, their implication and possible solution.  Instrumention For Basic Oral Surgery  I Entit instruments for:  (I Controlling hemorrhage)  (I Controlling hemorrhage)  (I Controlling stew in instruments and inst					- Class Participation
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I of each tooth		5. <b>Demonstrate</b> specific technique for removal			
6. <b>Manage</b> post extraction socket		of each tooth			





	7. <b>Define</b> postoperative complications of tooth extraction		
	8. <b>Manage</b> postoperative complication of		
	Extraction		
Principles of More	· _ · _ · _ · ·	ecture(3)	
Complex Exodontia	Describe Principles of incision     Illustrate parameters for soft tissue flaps.		
	4. <b>Describe</b> different types of		
	mucoperiosteal flaps.		
	Compare advantages & disadvantages		
	of mucoperiosteal flaps		
	6. <b>Explain</b> principles of suturing		
	7. Explain		
	i) Principles for surgical extraction		
	ii) Techniques for surgical extraction.		
	8. Explain:		
	i) Indications for surgical extraction		
	ii) Technique for open extraction of single-rooted tooth		
	iii) Technique for surgical removal of		
	multirooted teeth		
	Describe policy of leaving root	JIAN.	
	fragments.	7/1/2	
	10. <b>Plan</b> Multiple extractions:		
	i) Timing		
	ii) Sequencing		
	By the end of the Oral Surgery OPD rotation the		
	student should be able to:		
	1. Diagnose the indications required surgical		
	extractions (OSCE)		
	<b>2.Explain</b> the simulated patient/ given patient regarding findings, their implication and		
	possible solution.		
	Demonstrate ideal operating position for		
	various exodontia procedures on patients in		
	OPD.		
	4. <b>Identify</b> the instruments used for exodontia in		
	OPD.		
	5. <b>Apply</b> proper instruments following its		
	principles on models and in patients presenting		
	in Oral OPD.		
	6. Demonstrate/Perform the class removed of teath on model/ given		
	the close removal of tooth on model/ given		
	patient. (OSCE/CLINICAL)		
	7. <b>Counsel</b> the patient about post operative		
	care		

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Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools	
Leciole Topic		Learning Objectives	Lectures	Clinical	Assessment tools
Principles of	1.	Define Impaction	Lecture(1)	Practical	Any one form of
management of	2.	List the indications & contraindications		demonstration	assessment
impacted teeth	_	for removal of impacted teeth		during surgical	- Quiz
Segment 1:	3.	Explain different Classification system of		rotation	- Class Test
Definition, Assessment &		impacted teeth			
evaluation of impacted	4.	Relate significance of classification			- Class Participation
teeth		system with surgical procedure			- Individual
Segment 2:	5.	<b>Identify</b> factors that make removal of	Lecture(1)		- Assignment
Indication		impacted teeth difficult			Group Test
contraindication & type	6.	Calculate difficulty index for removal of	GIA		-OSATS
of impaction		impacted teeth			
	7.	<b>Describe</b> surgical procedures for			
		impacted teeth			
	8.	Analyzepatient preoperatively for			
		removal of impaction			
Segment 3:	9.	Manage intra & postoperative bleeding	Lecture(2)		
Techniques of removal		after tooth extraction.			
	10.	Manage postoperative pain and			
		discomfort after extraction.			
	11.	Plan postoperative follow up visits after			
		surgical extraction of tooth.			<b>\ \</b>
	12.	Document the procedure			
	13.	Manage record keeping			
	14.	Describe prevention of complications,	Lecture(1)		
Post-extraction patient		after surgical tooth extraction.			
management	15.		4 2		
	16.	List complications associated with			
	10.	surgical removal of impacted teeth.			
	17.	Describe oroantral communications.			
	18.	Diagnose OAC & OAF			
	19.	Compare delayed healing and infection			
	20.	Manage patient with Dry socket			
		he end of the Oral Surgery OPD rotation the			
		ent should be able to:	- M		
	1.	Classify different types of impactions on			
	3	radiographs			7
	2.	Assess the difficulty index on		135 1	
	8	radiographs/given	,	1.5/	
	Y	patients(OSCE/CLINICAL)		D _	
	3.	Formulate the treatment plan for patient		<b>V</b>	
	4.	Formulate written consent for the	1.00		
		procedure (role play) (OSCE)			
	5.	<b>Diagnose</b> and manage post operative			
	l	complications (OSCE/CLINICAL)			1





	COURSE TOPIC: INFECTIONS							
La alema Tamia	La arminar Ohia alivaa	Mode	of Teaching	- Assessment Tools				
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessifient tools				
Principles of management and prevention of odontogenic infections	<ol> <li>Identify the microbiology of odontogenic Infections</li> <li>Pathophysiology of Odontogenic infections</li> <li>Outline the Principles of management</li> <li>Elaborateprinciples of:         <ol> <li>Therapy of odontogenic infections</li> <li>Prevention of infection</li> </ol> </li> <li>Enlist prescribed prophylactic antibiotics for infection</li> <li>Describe principles of prophylaxis against metastatic infection</li> </ol>	Lecture(3)	Practical demonstration during surgical rotation	Any one form of assessment  - Quiz  - Class Test  - Class Participation  - Individual  - Assignment Group Test  - OSATS				
Complex Odontogenic infections	<ol> <li>Outline the boundaries of facial spaces</li> <li>Classify facial space infection</li> <li>Enlist deep fascial space infections</li> <li>Enlist specific infections (CST, NF,OM,Atinomycosis, Candidiasis)</li> <li>Describe various route of spread of Facial space infection</li> <li>Apply management plan of complex odontogenic infection</li> </ol>	Lecture(5)						
XLIA	By the end of the Oral Surgery OPD rotation the student should be able to:  1. Classify the facial spaces  2. Explain the causes of spread of infections  3. Perform the examination of the swelling on simulated patients/OPD patients  4. Diagnose the patients with odontogenic infections (CBL/ Simulated/OPD patients)  5. Formulate the management plan (OSCE/CLINICAL)  6. Demonstrate culture and sensitivity testing			TDV				
Management of	Outline dental management of	Lecture(3)						
patient undergoing radiotherapy or chemotherapy	patients undergoing radiotherapy of head and neck region  2. List types of radiation therapy 3. Identify indication & contraindication of radio &	250,010(0)	6-5					
	chemotherapy 4. Explaindental management of patients on systemic chemotherapy for malignant disease. 5. List complication of radiotherapy & chemotherapy 6. Define Osteoradionecrosis 7. Discuss pathophysiology of ORN 8. Describe management protocol of ORN	310						





COURSE TOPIC: MANAGEMENT OF ORAL PATHOLOGIC LESIONS							
Locturo Tonio	Lograina Objectives	Mode	of Teaching	- Assessment Tools			
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment tools			
Surgical management of oral pathologic lesion	Outline basic surgical goals of management of jaw cyst     Relate clinical findings with radiographic	Lecture(2)	Practical demonstration during surgical	Any one form of assessment - Quiz			
Segment 1: Diagnosis and management of cyst	analysis  3. Elaborate onSurgical management of cysts and cyst like lesions of the jaws.		rotation	<ul><li>Class Test</li><li>Class Participation</li><li>Individual</li></ul>			
	COF WIEL	In,		- Assignment Group Test			

COURSE TOPIC: MANAGEMENT OF ORAL PATHOLOGIC LESIONS					
Lecture Topic		Learning Objectives	Mode	of Teaching	Assessment Tools
Leciole Topic		Learning Objectives	Lectures	Clinical	Assessifielli 100is
Segment 2:	1.	Classify Odontogenic tumors	Lecture(3)	Practical	Any one form of
Diagnosis and	2.	<b>Describe</b> Principles of surgical		demonstration	assessment
management of		management of benign jaw tumors		during surgical	- Quiz
Odontogenic tumors				rotation	- Class Test
Segment 3:	1.	<b>Enumerate</b> different type of resections	Lecture(3)		
Treatment modalities	2.	<b>Describe</b> indications of resection of jaw			- Class Participation
		tumor			- Individual
	3.	List various reconstructive options			- Assignment
					Group Test

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COURSE	TOPIC: MANAGEMENT OF O	RAL PAT	THOLOGIC I	LESIONS
Lecture Topic	Lagraina Ohiaatiyaa	Mode of Teaching		A T I -
Lecture ropic	Learning Objectives	Lectures	Clinical	Assessment Tools
Segment 4: Clinical features. Investigation & diagnosis of cancer.	Identify appropriate investigations     Describe Principles of surgical management of malignant jaw tumors     List various treatment modality available to treat malignant tumor  By the end of the Oral Surgery OPD rotation the	Lecture (2)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation
AQUAP	By the end of the Oral Surgery OPD rotation the student should be able to:  1. Differentiate between different types of jaw cyst and tumors (CBL/opd patients)  2. Perform the examination of swelling (Simulated patient/ given patients) (OSCE/CLINICAL)  3. Formulate the management plan (OSCE/CLINICAL)  4. Identify the clinical and radiographic sign and symptoms of malignancy (CBL)  5. Perform the examination of Lymph nodes (Simulated patient/ given patients) (OSCE/CLINICAL)  6. Break the bad news (simulated patient/role play) communication skills  7. Demonstrate different types of biopsies (videos/CBL/opd patients)  8. Write referral letter (OSCE)  9. Managements of dental needs in patients on radiotherapy/chemotherapy		T. C. DELINIO	- Class Participation - Individual - Assignment Group Test
Principles of differential diagnosis & Biopsy Principles of differential diagnosis & Biopsy.	<ol> <li>List indication for biopsy</li> <li>List factors indicating sign of malignancy</li> <li>Illustrate examination and diagnostic methods</li> <li>Evaluate patient for biopsy</li> <li>List different type of biopsy</li> <li>Compare different available types of biopsies</li> <li>Explain technique for each type of biopsy</li> <li>Outline Principles of biopsy</li> <li>Describe         <ol> <li>i) technique of soft tissue biopsy</li> <li>ii) surgical principles of soft tissue biopsy</li> <li>iii) intraosseous or hard tissue biopsy technique</li> <li>iv) Surgical principles of hard tissue biopsy</li> </ol> </li> <li>Demonstrate referral writing</li> <li>Write test for biopsy on sheet</li> <li>Document premalignant &amp; malignant</li> </ol>	Lecture(1)		





	COURSE TOPIC: INFECTIONS					
Lecture Topic	Learning Objectives	Mode	of Teaching	- Assessment Tools		
reciore ropic	Learning Objectives	Lectures	Clinical	Assessment tools		
Diagnosis and management of salivary gland disorders Segment 1: Salivarygland infection, obstructive disease & tumors.  Segment 2: Clinical features, investigation & management of salivary gland disorders.	1. Describe Embryology, Anatomy and Physiology of salivary gland.  2. Enlist Diagnostic Modalities  3. DefineMucous retention and extravasation phenomenon  4. Describe:  i) Salivary gland infections ii) Necrotizing sialometaplasia iii) Sjogren's syndrome iv) Traumatic salivary gland injuries v) Salivary gland disorders vi) Obstructive salivary gland diseases  By the end of the Oral Surgery OPD rotation the student should be able to:  1. Classify the disorders of salivary glands  2. Diagnose and manage the patients with	Lecture(2)	Practical demonstration during surgical rotation	Any one form of assessment  - Quiz  - Class Test  - Class Participation  - Individual  - Assignment Group Test		
	Diagnose and manage the patients with signoliths (CBL) (OSCE)					

				// -	
COURSE TOPIC: INFECTIONS					
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools	
Leciole Topic	Learning Objectives	Lectures	Clinical	Assessifie iii 100is	
Principles of Endodontic Surgery	Describe the techniques of drainage of an abscess (RCT, I&D)      Define: <ol> <li>Periapical surgery and its indications, contraindications, and surgical procedure.</li> <li>Corrective surgery and its indications, contraindications, considerations, and surgical procedure.</li> </ol> <li>Describe         <ol> <li>Healing of periapical pathology</li> <li>Adjunct method (GTR, fiberoptics, bone augmentation)</li> </ol> </li> <li>Make referral when needed</li>	Lecture(2)	Practical demonstration during surgical rotation	Any one form of assessment  - Quiz  - Class Test  - Class Participation  - Individual  - Assignment Group Test	





cou	IRSE TOPIC: PRE-PROSTHETIC	AND IMF	PLANT SURG	ERY
Locturo Tonio	Lograina Objectives	Mode	of Teaching	- Assessment Tools
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment tools
Preprosthetic Surgery	1. Define the objectives of pre prosthetic surgery 2. Outline principles of patient evaluation and treatment planning 3. Describe different procedure including:	Lecture(3)	Practical demonstration during surgical rotation	Any one form of assessment  - Quiz  - Class Test  - Class Participation  - Individual  - Assignment Group Test
Implants treatment: Basic concepts and techniques Implant treatment: Advanced concepts and complex cases	1. Enlist:  i) Biologic considerations for osseo integration  ii) clinical implant components  iii) implant prosthetic options  iv) complications  2. Assess preoperative medical condition of implant patient  3. Describe surgical phase: treatment planning  4. Explain basic surgical techniques  5. Describe advanced surgical techniques  By the end of the Oral Surgery OPD rotation the student should be able to do:  1. Preoperative assessment of implant patients (CLINICAL /OSCE)  2. Identify the hard and soft tissue	Lecture(2)		TICTDY

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COURSE	COURSE TOPIC: TEMPOROMANDIBULAR AND OTHER FACIAL PAIN DISORDERS				
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools	
Lectore Topic	Leaning Objectives	Lectures	Clinical	Assessifie iii 100is	
Management of temporomandibular disorders Segment 1: Classification of TMJ disorders	Enlist TMJ disorders     Classify temporomandibular Joint disorders	Lecture(2)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation	
Segment 2: Clinical features, investigation & treatment modalities.	1. Identify sign & symptoms of TMJ disease 2. Prescribe relevant investigation 3. Enlist different treatment options 4. Explain permanent occlusion modification 5. Enlist types oftemporomandibular joint surgery 6. Identify patient for long term follow up By the end of the Oral Surgery OPD rotation the student should be able to: 1. Perform TMJ examination (CLINICAL) 2. Diagnose a patient presenting with TMJ disorder in OPD (CLINICAL /OSCE)	Lecture(2)		- Individual - Assignment Group Test	

COURSE TOPIC	C:TEMPOROMANDIBULAR AND	OTHER	FACIAL PA	INDISORDERS
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
recipie topic	Learning Objectives	Lectures	Clinical	Assessifielli 100is
Facial Neuropathology Segment 1: Diagnosis and management of Orofacial pain	Enlist different type of orofacial pain     Explain:	Lecture(1)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual
Segment 2: Clinical evaluation and management of trigeminal neuralgia.	Identify patient with trigeminal neuralgia     List sign & symptoms of TN     Take complete history     Diagnose patient with TN     Compare treatment options for TN     Enist complication for each treatment option	Lecture(1)	365	- Assignment Group Test -OSATS





COUR	COURSE TOPIC: TEMPOROMANDIBULAR AND OTHER FACIAL PAINDISORDERS				
La atura Tania	Lagraina Objectives	Mode	of Teaching	Accommond To ale	
Lecture Topic	Learning Objectives	Lectures	Clinical	- Assessment Tools	
Segment 3: Diagnosis and management of facial palsy.	1. Enist different causes of facial nerve pathology 2. Describe management for facial palsy By the end of the Oral Surgery OPD rotation the student should be able to do: 1. Take comprehensive history of the patient present in the OPD with facial pain 2. Classify different types of facial pain 3. Identify the cause of facial pain (CBL) (OSCE). 4. Perform cranial nerves examination(CLINICAL /OSCE)	Lecture(1)	Practical demonstration during surgical rotation	Any one form of assessment  - Quiz  - Class Test  - Class Participation  - Individual  - Assignment Group Test	

COURSE TOPIC: DENTOFACIAL DEFORMITIES				
Lecture Topic	Learning Objectives	Mode	of Teaching	- Assessment Tools
Lectore Topic	Leaning Objectives	Lectures	Clinical	Assessifie iii 100is
Management of patients with orofacial clefts	Describe:	Lecture(2)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation
*	Enist Causative factors     Explain treatment options of cleft lip and palate			- Individual - Assignment Group Test

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COURSE TOPIC: DENTOFACIAL DEFORMITIES				
Lecture Topic	Lograina Chicativas	Mode	of Teaching	- Assessment Tools
recinie tobic	Learning Objectives	Lectures	Clinical	Assessment tools
Correction of dentofacial deformities/Orthagnat hic surgery	Classify orthognathic procedures     Evaluate patient for Orthognathic surgery     List the procedures to correct jaw abnormalities	Lecture(1)	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual
	OF MED	In.		- Assignment Group Test
Surgical reconstruction of defect of the jaws	1. Classify type of flaps use for reconstruction of jaw 2. Describe reconstructive ladder 3. Explain basic reconstructive principles By the end of the Oral Surgery OPD rotation the student should be able to:  10. Differentiate between different types of jaw cyst and tumors (CBL/opd patients) 11. Perform the examination of swelling (Simulated patient/ given patients) (OSCE/CLINICAL) 12. Formulate the management plan (OSCE/CLINICAL)	Lecture(1)	A COURT	
	<ul> <li>13. Identify the clinical and radiographic sign and symptoms of malignancy (CBL)</li> <li>14. Perform the examination of Lymph nodes (Simulated patient/ given patients) (OSCE/CLINICAL)</li> <li>15. Break the bad news (simulated patient/role play) communication skills</li> <li>16. Demonstrate different types of biopsies (videos/CBL/opd patients)</li> <li>17. Write referral letter (OSCE)</li> <li>18. Explain management optionsof dental needs in patients on</li> </ul>			TDV

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Locture Tenie		Lograina Objectives	Mode	of Teaching	- Assessment Tools
Lecture Topic	Learning Objectives		Lectures	Clinical	- Assessment took
Management of facial	1.	Evaluate patients with facial trauma	Lecture(1)	Practical	Any one form of
fractures Segment 1:	2. 3.	Demonstrate BLS & ATLS Describe ABCDE		demonstration	assessment
BLS and ATLS.	٥.	Describe ADCDE		during surgical rotation	- Quiz
Soft tissue and	1.	Describe:	Lecture(2)	Totalion	- Class Test
dentoalveolar injury:	' •	i) soft tissue injuries	LCCIOIC(2)		- Class Participation
Segment 1:		ii) dentoalveolar injuries			- Individual
Traumatic injuries of		OF MEA			- Assignment
teeth			110		_
Segment 2:			Lecture(2)		- Group Test
Management of soft					- OSATS
tissue injuries.					
Management of facial	1.	Outline causes, classification, sign &	Lecture(4)		
fractures		symptoms & Management of mandibular			
Segment 2:		fractures			
Management of	2.	Identify complication of mandibular			
mandibular fractures	1	fracture	1 a at wa (0)		
Segment 3:	1.	Outline causes, classification, sign & symptoms & Management of ZMC	Lecture(2)		
Clinical features, investigation &		fractures			
management of ZMC	2.	<b>Desribe</b> appropriate investigation for			
management of zivic	۷.	given fracture case			
	3.	Enlist complication of ZMC fracture			
Segment 4:	1.	Describe detailed anatomy of orbit	Lecture(2)		
Nasal & Orbital	2.	Outline causes, classification, sign &	` ′		
fractures.		symptoms & Management of Orbital &			
		Nasal fractures			
	3.	Enlist complication of Orbital & Nasal			
		fracture			
Segment 5:	1.	Explain causes, classification, sign &	Lecture(2)		
Mid face fracture.		symptoms & Management of midface		-1	
	2.	fractures  Enlist complication of midface fracture	-		
		the end of the Oral Surgery OPD rotation the	- N		
		dent should be able to do:			
		dentify basic instruments for Intermaxillary			
		ition (OSCE).			
		dentify the instrument used for mid face			
		uma (OSCE)			
		state the uses of the instruments. (OSCE)			
		Demonstrate the technique of Intermaxillary	-		
		ation on models (OSCE)			
		Diagnose and management of patients with	21		
		ntoalveolar fractures (CBL) (OSCE)			
		Diagnose and formulate the management			
		n for patients with maxillofacial injuries			
	(OS	Ut)	I	1	I





#### **CLINICAL TEACHING**

Clinical Hours: 14 hrs. /week

Each student will receive clinical teaching at the department of oral and maxillofacial surgery, ward, operating room & skills lab for a period of 2 months. During the clinical rotation students will be taught following topics.

- Obtain surgical history
- Prevention & management of medical emergencies
- Principles of surgery
- Cross infection control
- Armamentarium for basic oral surgery
- Perform local anesthesia
- Clinical radiological evaluation of a tooth for extraction
- Extraction under local anesthesia
- Assist/observe in minor surgical procedures
- Postoperative patient management
- Management of surgical complications
- Observe dental implant placement
- Suturing on foam
- Incision and drainage of dental abscess
- Clinical & radiological evaluation of maxillary sinus
- Biopsy taking
- Emergency management of trauma patients
- Clinical and radiological evaluation of facial fractures
- Perform inter-maxillary fixation on dentures
- Clinical and radiological evaluation of TMJ problems
- Extraction under local Anesthesia (Observe and Assist complicated Exodontia and Impaction)
- Radiographic problems of TMJ and observe Manual Reduction of TMJ Dislocation
- History Taking and Clinical Observations of Pathological lesions
- History Taking and Clinical Observations of Orofacial Pain Problems
- Clinical and Radiographic Evaluation of Dentoalveolar Trauma

The methods of teaching will be demonstrations on anatomical models, case-based learning, role play, tutorials and small group discussions.





#### REQUIREMENT FOR THE CLINICAL ROTATION

Following are the minimum requirements of the clinical work in the department of oral and maxillofacial surgery, to be completed within 9 months of clinical rotation before his/her name is sent to the University for the final year BDS examination.

A log book is also to be maintained, completed and signed by the head of department before the end of clinical rotation.

History taking/Clinical Examination/Informed Consent	50 cases
Local Anesthesia Infiltration	50 cases
Block anesthesia under supervision	7 cases
Extraction under local anesthesia	50 cases
Surgical Extraction /Impactions (assistance)	02 cases
Inter-maxillary fixation on model	01 cases
Dental implant (observe)	01 cases
Suturing on Rexene	05 cases
Prescription writing	50 cases
Simple incisional biopsy	1 case(observe)
Preprosthetic Surgery	1 case(observe)
Splinting of teeth and management of Dentoalveolar Fracture	1 case(observe)
Reduction of TMJ Dislocation (Diagnosis and Treatment Planning)	1 case(observe)
Apicectomy	1 case(observe)



# LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY ORAL AND MAXILLOFACIAL SURGERY



### **CLINICAL ROTATION**

1st WEEK	
<ul> <li>Introduction to OPD         <ul> <li>Discipline, protocols and ground rules</li> <li>Patient allotment</li> </ul> </li> <li>Log book/vaccination</li> <li>History, examination (Intraoral, Extraoral)</li> <li>Diagnosis and treatment planning</li> <li>Instruction identification and uses</li> </ul>	
PRACTICAL DEMONSTRATION	FACILITATOR
<ul> <li>Cross infection control</li> <li>Waste management</li> <li>Protocol &amp;reporting of Needle stick injury</li> <li>Patient receiving, seating and chair positioning</li> </ul> SOFT SKILL PRACTICES	TACILIATOR
ROLE PLAY/CASE SCENARIO	
Patient counseling	C I
2 <sup>ND</sup> WEEK	
CASE BASED LEARNING	
<ul><li>Management of Medical emergencies on dental chair</li><li>Radiographic interpretation</li></ul>	
PRACTICAL DEMONSTRATION	
<ul> <li>Choice of Anesthesia</li> <li>Local Anesthesia</li> <li>Different types</li> <li>Techniques</li> </ul>	12
SKILLS PERMORMANCE	
Exodontia     Definition     Classification     Clinical examination     Radiographic evaluation     Diagnosis and treatment planning  SOFT SKILL PRACTICES  ROLE PLAY/CASE SCENARIO	FACILITATOR
Conflict resolution	125
3 <sup>RD</sup> WEEK	/ / //
PRACTICAL DEMONSTRATION	) -
<ul> <li>Demonstration of medical emergencies</li> <li>Demonstration of prescription writing</li> <li>How to take consent from the patient</li> <li>Preventive measures and counseling of patient</li> </ul>	
SKILLS PERMORMANCE	
• Exodontia	FACILITATOR
CASE BASED LEARNING	
<ul><li>Odontogenic infections</li><li>Impactions</li></ul>	
SOFT SKILL PRACTICES	
ROLE PLAY/CASE SCENARIO/REAL PATIENT	
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# LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY ORAL AND MAXILLOFACIAL SURGERY



### **CLINICAL ROTATION**

4 <sup>TH</sup> WEEK	
CASE BASED LEARNING	
Complex Odontogenic infections	
Alveoloplasty	
• Apicectomy	-
SKILLS PERMORMANCE	4
Exodontia	FACILITATOR
PRACTICAL DEMONSTRATION	TACILITATOR
<ul> <li>Examination of swelling</li> <li>Examination of TMJ, management of TMJ dislocation</li> </ul>	
SOFT SKILL PRACTICES	
ROLE PLAY/STANDARDIZED PATIENT	
Negotiation & bargaining	
5 <sup>TH</sup> WEEK	
CASE BASED LEARNING	
TRAUMATIC INJURIES     Luxation	
o Subluxation	
o Intrusion	
o Extrusion	
Avulsion FACIAL TRAUMA     Uliston	
<ul><li>History</li><li>Examination</li></ul>	
o Investigation and diagnosis	
o 0Management	FACILITATOR
SKILLS PERMORMANCE	
Exodontia	
PRACTICAL DEMONSTRATION	
Cranial nerve examination	
Lymph node examination	3
SOFT SKILL PRACTICES	
CASE SCENARIO	
Documentation/Record keeping	/ - / /
6™ WEEK	
TUTORIAL	
Diagnosis of premalignant lesion	7
PRACTICAL DEMONSTRATION FOLLOWED BY WORK ON MODELS	
Method of fixation	
Suturing techniques	
SKILLS PERFORMANCE	
• Exodontia	
Biopsy techniques	FACILITATOR
CASE BASED LEARNING	_
BENIGN & MALIGNANT LESIONS OF ORO-FACIAL REGION     History	
<ul><li>History</li><li>Examination</li></ul>	
o Investigation & diagnosis	
o Management	
ASSISTANCE	
Assisting senior during surgical extraction and impactions	
Assisting senior during procedure of suturing	





SOFT SKILL PRACTICES		
CASE SCENARIO		
Dealing with ethical dilemma		
7 <sup>TH</sup> WEEK		
ASSISTANCE		
Assisting senior during OPD procedure		
SKILLS PERFORMANCE		
Exodontia		
Revision		
End of rotation assessment		
Feedback session		
3 TESTS BASED ON CLINICAL SCENARIOS	& OSCES IN CLINIC	AL ROTATION





# LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY ORAL AND MAXILLOFACIAL SURGERY



### **DEPARTMENT ORIENTATION**

### **DEPARTMENT ORIENTATION DOCUMENT FOR STUDENTS (YEAR 2024)**

This orientation document outlines Oral and Maxillofacial Surgery Departmental policies, procedures and work practices providing students with opportunity to perform at an optimal standard within a given period of rotation.

### INTRODUCTION TO DEPARTMENT







### **FACULTY ORIENTATION:**

**HEAD OF DEPARTMENT: Prof. Dr. Tahera Ayub** 

**FACULTY:** 

PROFESSOR: Prof. Dr. Navid Rashid Qureshi

**ASSOCIATE PROFESSOR:** Dr. Amna Rehman

**SENIOR REGISTRAR:** Dr. Summera Kanwal

REGISTRAR: Dr. Amna Afridi & Dr. Mohsin Khan

**RESIDENT:** Dr. Sana Zainab, Dr. Abdul Karim, Dr. Fizza Bano Zaidi, Dr. Marium Khan, Dr. Arshia Rauf, Dr. Abdul Raffay, Dr. Rafia Ashraf, Dr. Arif, Dr. Iqra Ali, Dr. Shabana

### **GOALS AND OBJECTIVES OF DEPARTMENT:**

Our aim is to teach the students about how to treat the patients with highest possible standards of care and always treat patients with kindness, respect and dignity. For that students should follow the following steps for an effective treatment planning which includes:

- History and Examination
- Diagnosis
- Treatment planning
- Referral to the respective department
- Oral Surgical Procedures

### **DEPARTMENT RULES AND REGULATIONS:**

- All students should be punctual and should come in department on time, only 5 minutes relaxation is allowed.
- All students should wear face masks all the time in OPD premises and maintain social distancing.
- All Students should wear labcoats with their ID cards, male students should wear dress pants and shirts, Female students should tie their hairs.
- Nails should be cleaned and properly cut.
- All students should get their Hep B Vaccination done within 1 week of departmental rotation.
- Only 3 leaves are allowed in their rotation period, if they absent more than 3 days student should submit their explanation letter to the department.

### **INFECTION CONTROL POLICIES:**

- If the patient is suspected or known case of Hep B or C, Student should informed to their respective supervisor and perform whole procedure under supervision.
- Student should inform and ask the nursing staff for separate instruments.
- Students should follow the infection controls protocols which includes separate units for Hep B and C patients, double mask, double gloves eye wears and disposable gowns.

### **STUDENT SAFETY SOP'S:**

- If Student is having any symptoms (e.g Dry cough, fever, body aches, loss of taste or smell), given the condition looks contagious such Viral flu, he/she should immediately inform to their respective supervisor
- Students should follow Recommended Sops in Department whenever infected:
  - a) Wear face mask in OPD premises, and maintain social distance.
  - b) Wash your hands regularly with soap and water, or clean them with alcohol-based hand rub before and after every procedure.
  - c) Maintain at least 1 meter distance between you and people coughing or sneezing.
  - d) Avoid touching your face.
  - e) Cover your mouth and nose when coughing or sneezing.
  - f) Stay home if you feel unwell.
  - g) Wear Personnel Protective Equipment during any procedure
  - h) Practice physical distancing by avoiding unnecessary travel and staying away from large groups of people.
- Do not dispose of waste by yourself, ask the assistant to dispose off.
- In case of needle stick injury student should inform his/her respective supervisor and incident report to nursing office extension 337, QA Ext 203 or nursing shift supervisor.





### **PATIENT SAFETY PROTOCOLS:**

- Improve the accuracy of patient identification
- Improve the safety of using high alert medications
- Eliminate wrong site ,wrong patient ,wrong procedure surgery
- Avoid Reuse of Tools and Packaging Material meant for Treatment Only
- Report the problem adverse event to supervisor, according to policy and procedure
- Practice safety protocol to protect yourself and limit spread of contamination
- Sterilized instruments must be used on every patient
- Patient should be questioned about their vaccination status and the suspected ones or known cases should be screened for Hepatitis and antibody titer respectively.

### PATIENT CONFIDENTIALITY:

- Patient confidentiality should not be discussed with anyone
- Cases should not be published, discussed or posted in any journal, seminar or social networking sites respectively without patient consent.

### **MEDICAL EMERGENCIES**

- In case of medical emergency, deferred the patient, informed supervisor and follow his/her instructions.
- Do not use medications without the appropriate supervision.
- For any serious emergency clinical staff should be directed to call the following numbers.
- For emergency DSH: 229 & 209

### **TUTORIALS:**

- A tutorial is a method of transferring knowledge and used as a part of a learning process. More
  interactive and specific than a book or a lecture, a tutorial seeks to teach by example and
  supply the information to complete a certain task.
- Tutorials are conducted on daily basis for students in department to enhance their knowledge.
- Some topics will be in format of live demonstration and case based learning.
- These tutorials could be blend of physical or online teaching depending upon Covid related circumstances

### **LOG BOOK MAINTAINANCE:**

 Logbook should be filled by students at the end of every working day and should be signed by their respective supervisor.

### **ASSESSMENT TEST:**

- During rotation verbal and written test should be taken after every 2 weeks to check the progress of the students.
- At the end of rotation final assessment of the student should be done through OSCE and interactive stations.

### **FEEDBACK FORMS:**

At the end of rotation, students should be provided with the feedback forms in which they give feedback about the department and supervisors.

### **SKILL LAB:**

The skills and simulation laboratory of Liaquat College of Medicine and Dentistry will serve the purpose of developing student's skills and attitudes during clinical training. Students of BDS should attend the sessions of skill lab according to curriculum



# LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY ORAL AND MAXILLOFACIAL SURGERY



### STUDENT'S RECORD SHEET EXTRA CREDITS

Biopsies/Impactions/Alveoloplasty/Apisectomy/Frenectomy

Date	P.R No	Treatment Done	Competency Level	Grade Initials
	1,9			10
	3			







### **DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY FINAL PROFESSIONAL BDS**

Date:	Group: Allotted time: Total marks:
Marks	s obtained: Student name: roll no.:
Exam	iner name & signature:
OBJE	CTIVE: ASSESSMENT OF HISTORY TAKING & EXAMINATION SKILLS
Not D	one=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5
SR	POINTS ORSERVED 0 1 2

SR.	POINTS OBSERVED	0	1	2	3	4	5
1	Asked about personal information of the patient						
2	Presenting complain was documented						
3	History of presenting complain was taken						
4	Recorded medical history about						
	<ul> <li>Cardiovascular system</li> </ul>						
	Respiratory system	V.A.	>				
	Gastrointestinal system			A 7			
	Rheumatology						
	Circulatory system		15				
	Endocrine system						
	Nervous system						
	Allergies			9			
5	Drug history						
6	Previous hospitalization/Blood transfusion			2			
7	Past dental history	]		-			
8	Family/social history	3		M			
9	Habitual history	2					
	<u>Examination</u>	3	/ ·	3	7		
10	Extraoral examination was done which includes			12/			
	General appearance		7				
	TMJ examination						
	Lymph nodes	0					
11	Intraoral examination of oral hard and soft tissues						
12	Clinical findings were recorded						
13	Provisional diagnosis						
14	Investigation						
	Final diagnosis						
	Treatment plan with referrals						
	Written consent taken on the form						

FEEDBACK			





### ORAL AND MAXILLOFACIAL SURGERY OSATS FORMS

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO	

### **KEY: HOW TO QUIT THE HABIT EATING PAN & BETEL QUID**

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

S.NO	POINTS OBSERVED	0	1	2	3	4	5
1	Ask the patient, how many pan and betel quid he/she eats per day?						
2	Ask the patient, for how many years he/she is eating pan and betel quid?						
3	Counsel the patient to avoid the company of people who eat pan and betel quid.		4				
4	Counsel the patient that if craving occurs then have a sugar free gum.		J.				
5	Inform the patient about the side effects of eating pan and betel quid.						
6	Inform the patient that pan and betel quid chewing can cause deep red staining on your teeth and even black stains, gum irritation and tooth decay, attrition and enamel defects.						
7	Counsel the patient to reduce the quantity of packets he/she eats per day, the patient should be counselled to eat half the amount that he/she currently eats, and when the patient feels a craving, wait as long as possible.	75					
8	Inform the patient that chewing tobacco can be expensive, and it is a waste of time and money.						
9	Inform the patient that if he/she didn't quit this habit, they might have a problem in opening mouth, which may lead to OSF.						
10	Inform the patient about OSF, its treatment and tell the patient that if OSF is not treated then it can progress and cause oral cancer (SCC).						
11	Patient should be informed that pan and betel quid can cause cancer on the lateral boarders of the tongue and buccal mucosa.						
12	Inform the patient that if the cancer progress, then the only option left for treatment would be surgery.						
13	Inform the patient about the surgical options that the doctor might have to remove the major part of his /her tongue, or any other part which is affected by cancer.						



FEEDBACK\_

## LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY



14	Inform the patient that even after surgery the prognosis depends on the stage of cancer, and in late stages survival rate is only 5 years.			
	Total			





### ORAL AND MAXILLOFACIAL SURGERY

### **OSATS FORMS**

GROUP         DATE           STATION NO         TIME           NAME         TOTAL I           ROLL NO							
	KEY: ORTHOGNATHIC SURGERY OBJECTIVE: ASSESSMENT OF COUNSELLING SKILL	.S					
Scale	e: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good	d=4,	Out	stan	ding	<b>j=</b> 5	
S.NO	POINTS OBSERVED	0	1	2	3	4	5
1.	Discuss the treatment plan with the patient and family.	P					
2.	Recovery is complete after anesthesia.						
3.	Informing him/her about the advantages of this surgery and how it is going to improve their appearance and hence their confidence.			177	1		
4.	Sequelae of surgery.			7			
5.	Make him/her aware of the severity of condition and that it cannot be corrected with conservative treatment.			//:			
6.	Show other patient's pre and post-treatment pictures to motivate them and enhance their confidence.		1	X			
7.	Informing about the clinical results of this surgery.		75				
8.	Make him/her aware it's a reliable and safe procedure.						
9.	Results of surgery are more effective and stable as compared to conservative treatment.						
10.	Informing them about improvement of occlusal function after surgery.						
	Total						
FEEDE	BACK						



# LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY ORAL AND MAXILLOFACIAL SURGERY



### **OSATS FORMS**

STATIC NAME	GROUP         DATE           STATION NO         TIME           NAME         TOTAL MA           ROLL NO						
Scale	KEY: WRONG TOOTH EXTRACTION  OBJECTIVE: ASSESMENT OF COUNSELLING SKILLS  Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5						
S.NO	POINTS OBSERVED	1	2	3	4	5	6
1	Introducing him/herself.	1					
2	Taking consent.						
3	Patient informed that instead of tooth to be extracted wrong tooth extracted.						
4	Wrong tooth requires extraction as it is infected BDR.						
5	It will be going to cause pain further as it is infected and pus discharging.						
6	May be the pain occurring in the area of the tooth to be extracted is because of infected BDR.						
7	Sometime pain radiates and patient can't localize.	2					
8	The tooth you want to be extracted can also be extracted after few days as it is grossly carious.		/				
9	It is necessary to remove infected BDR Primarily.						
10	Medication prescribed for 5 days.						
11	Post operative instruction given.						
12	Recall after 5 days for extraction of adjacent grossly carious tooth.  Which patient want to be extracted, as the prognosis of the tooth is not good RCT can't be advised.						
	Total						
FEEDE	BACK	1				<u> </u>	





### ORAL AND MAXILLOFACIAL SURGERY OSATS FORMS

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO.	

### KEY: POST SURGICAL PARESTHESIA AFTER THIRD MOLAR EXTRACTION OBJECTIVE: COUNCELING OF PATIENT WITH POST SURGICAL PARESTHESIA

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

S.N O	POINTS OBSERVED	0	1	2	3	4	5
1	Introducing him/herself						
2	Ask the patient to relax						
3	Ask the patient to locate the area where he/she is feeling altered sensation						
4	Ask the patient about the area he/she is feeling altered, diminished or total loss of sensation						
5	Ask for other sensations associated with it e.g., tingling, numbness or "pins and needles"	J					
6	Observe if patient's chewing and speaking function is affected						
7	Perform different types of sensory tests to estimate the extent of nerve damage						
8	Explain the patient about what is paresthesia		/				
9	Explain the patient why does he have paresthesia		/				
10	Inform the patient about the signs of paresthesia						
11	Inform the patient about the symptoms of paresthesia						
12	Inform the patient about the extent of nerve damage						
13	Inform the patient about duration of recovery e.g., spontaneous, persistent or permanent						
Explain the patient that if paresthesia is spontaneous, complete recovery will occur in 8 weeks							
15	Explain the nation that paresthesia is persistent complete						
16	Explain the patient that paresthesia is permanent, it would not resolve on its own and would need surgical treatment						
17	Explain the patient about surgical repair in case of severe nerve damage and its success rate						
18	Explain the patient about when can he get the surgical treatment						





	Total			
FEEDE	ACK		-	







### **DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY FINAL PROFESSIONAL BDS**

Date:	Group:	_ Allotted time:	_ Total mark	s: Marks
obtained:	Student no	ame:	_ roll no.:	Examiner name &
signature:				

### LOCAL ANESTHESIA OSATS FORM

Not Done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

SR.	POINTS OBSERVED	0	1	2	3	4	5
1	Obtain written consent for infiltrate						
2	Demonstrate an appropriate pre procedure  1. Chair positioning  2. Light setting						
3	Follow aseptic technique						
Tech	nical ability to be checked for given safe and effective in	filtra	tion				
4	Prepares the instruments						
5	Applies topical anesthesia	K					
6	Informs about the prick						
7	Retracts the cheek appropriately						
8	Inserts needle in the mucogingival junction		灵				
9	Inserts one third of the needle						
10	Aspirates the plunger	7 -	X	1			
11	Injects two third of the solution			7			
12	Pull the needle out	5	3/				
13	Inserts the needle at right angle on the palatal mucosa assuming the estimated apex of the tooth						
14	Inserts remainder of the solution slowly with pressure						
15	Waits for 3 to 5 mins for the anesthesia to be effective						
16	Check for efficacy of the anesthesia						
17	Post op instructions						
18	Communication skills						
19	Professionalism						
20	Overall ability to perform the procedure						1

Feedback if any:

DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY





### FINAL PROFESSIONAL BDS

Date:	_ Group:	Allotted Time:	Total Marks:	Marks
Obtained:	Student No	me:	Roll NO:	_
Examiner nam	ie & Sign			

### **IDN BLOCK ANESTHESIA OSATS FORM**

Scale: Not Done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

SR.NO	POINTS OBSERVED	0	1	2	3	4	5
1.	Obtains written consent for ID block						
2.	Demonstrate appropriate procedure						
	1. Chair positioning						
	2. Light setting	A.					
3.	Aseptic technique						
4.	Technical ability to check safe and		-0				
	effective IDN block		-				
5.	Prepares the instrument						
6.	Applies topical anesthesia			T			
7.	Informs about the prick				. 1		
8.	Palpate the external oblique ridge				1		
9.	Inserts needle between ridge at midpoint of						
	raphe at mandibular notch						
10.	Inserts two-thirds of the needle						
11.	Aspirated the plunger				-		
12.	Injects two third of the solution						
13.	Retracts the syringe	3					
14.	Changes the position of the needle			7	- 1		
15.	Inserts reminder of the solution to block			>			
N.	lingual nerve			5			
16.	Waits for five minutes to check anesthesia			) ~	7		
	to be effective		-/				
17.	Post operative instructions	de					
18.	Maintain verbal contact with patient	U					
19.	Maintain professionalism throughout						
	procedure						
	Overall ability to perform the procedure						

Feedback if any:						
_						



# LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY ORAL AND MAXILLOFACIAL SURGERY



### **OSATS FORMS**

GROUE	PD	ATF						
	ROUP         DATE           ATION NO         TIME							
		J 17 (I	_ / V \/	11110				
ROLLIN	KEY: <b>EXAMINATION OF A SWELLING</b>							
	RET. EXAMINATION OF A SWEELING							
Scale: N	Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4,	Oute	tand	lina=	5			
scale. I	tor done-o, onsuisiderory-1, suisiderory-2, ruii-3, good-4,	0013	Idild	g-				
S.NO.	POINTS OBSERVED	0	1	2	3	4	5	
1	Greets the patient	7					Ť	
2	Introduce himself/ herself			$\Gamma$				
3	Takes consent	N.						
4	Correct chair position			3				
5	Inspection:		1					
	• Site				A			
	• Size							
	• Shape			U	$\mathbf{c}'$			
	number,							
	surface color				O			
	<ul><li>overlying skin</li></ul>				<			
	any discharge of fluid	2						
	transillumination			7				
6	Palpation:		_					
	Temperature		,	J	J			
	<ul> <li>Tenderness</li> </ul>	4						
	<ul> <li>Consistency</li> </ul>							
	<ul> <li>Fluctuant</li> </ul>	י כ						
	<ul> <li>Pulsatile</li> </ul>							
	Reducibility							
	<ul> <li>compressibility</li> </ul>							
7	Auscultation for vascular swellings							
8	Make 3 differential diagnosis						_	
	Total							
Feedb	Feedback if any:							

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### ORAL AND MAXILLOFACIAL SURGERY OSATS FORMS

GROUP	DATE
STATION NO	TIME
NAME	total marks
ROLL NO	

KEY: EXAMINATION OF A ULCER
Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

S.	POINTS OBSERVED	0	1	2	3	4	5
NO.			ř _				
1	Greets the patient	_	di.				
2	Introduce himself/ herself		Y				
3	Takes consent						
4	Properly positions the patient			T			
	Inspection:						
	• Site				1		
	• Size						
	• Shape						
5	Number						
	<ul> <li>Margins</li> </ul>						
	• Base						
	Colour	1					
	<ul> <li>Exudate or discharge</li> </ul>	3		7 -		,	
	Palpation:	A		1			
1	<ul> <li>Temperature</li> </ul>		Γ,	7			
	<ul> <li>Tenderness</li> </ul>			9			
	<ul> <li>Induration</li> </ul>						
6	<ul> <li>Fixation</li> </ul>	V					
	Bleeding	C					
	• Base	U,					
	<ul> <li>Margins</li> </ul>						
7	Make 3 differential diagnosis of intra oral ulcer						
	Total						





### **ORAL AND MAXILLOFACIAL SURGERY**

### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO	

### **KEY: EXAMINATION OF FACIAL NERVE**

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

S.NO.	POINTS OBSERVED	0	1	2	3	4	5
1	Greets the patient						
2	Introduce himself/ herself					7	
3	Takes consent					S	
4	Properly positions the patient	A	É	ſ			
5	Test motor function by asking patient to crease up forhead close eyes against pressure puffing out cheek reveal the teeth test the function of stapedius muscle by tuning fork					YX.	
6	Able to Test the sense of taste		^	10			
7	Able to differentiate between upper and lower motor neuron lesion	تام	310				
8	Make 3 differential diagnosis of lower motor neuron lesion						
	Total						





### **ORAL AND MAXILLOFACIAL SURGERY**

### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
POLLNO	

### **KEY: EXAMINATION OF NECK LYMPH NODE**

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

				$M$ $\sim$			1
S.NO.	POINTS OBSERVED	0	1	2	3	4	5
1	Greets the patient						
2	Introduce himself/ herself						
3	Takes consent						
4	Properly positions the patient and do gentle palpation				K		
	Inspection:						
	Site						
	Size						
	Shape		,	_			
5	Number					2	
	Surface					-	
	Color			3			7
	overlying skin			-		1	/
	any discharge of fluid	Er.					
\ \	Palpation:						
	Temperature				- 5	-//	
	Tenderness						
	Consistency			5			
6	Fluctuant			120			
-	Fixation		11	<u> </u>			
	Induration	9	7				
	Central necrosis						
	Matty						
	Able to describe the levels of						
7	lymph node and sequence of						
	lymph node examination						
0	Make 3 differential diagnosis of						
8	enlarged lymph node						
	Total						
	TOTAL	l					





### ORAL AND MAXILLOFACIAL SURGERY

### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO.	

### **KEY: EXAMINATION OF TMJ**

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

S. NO.	POINTS OBSERVED	0	116	2	3	4	5
1	Greets the patient			<b>(</b> ()	9		
2	Introduce himself/ herself				4		
3	Takes consent				X		
4	Properly positions the patient						
5	Measures inter-incisal opening					F	
6	Measures lateral excursions						
7	Palpate muscles of mastication					K	
8	Make 3 differential diagnosis of limited mouth opening	1	R	4			
	Total		-		7	1	

State of the state





### **ORAL AND MAXILLOFACIAL SURGERY**

### **DOPS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	total marks
ROLL NO	

### **DIRECT OBSERVATION OF PROCEDURAL SKILLLS**

### EXTRACTION OF MANDIBULAR IMPACTED THIRD MOLAR – FOURTH YEAR BDS STUDENT IN ORAL SURGERY SETTING

	Below exp	ectation	po	ass	Above expectation		above rage	Uc
	Well below (very poor) 1	Below (poor) 2	Borderlin e pass 3	Meet expectati on 4	Good 5	Very good 6	Outstan ding 7	8
Obtains informed consent for extraction								
Demonstra tes appropriat e pre procedure 1. chair positioning 2 lights setting Aseptic technique						DIKY X Z		
Selection of appropriat e	93	מל ליני	و الساق	فامر				
Prepares the instrument								
Demonstra te appropriat e technique of ID block local anesthesia Select appropriat								





e incision								
and flap								
Demonstra								
te proper								
technique								
of incision								
Reflects								
adequate								
flap								
Пар								
Protects								
the								
reflected								
flap			at A	ACD.				
Placement								
of lingual		CIZ						
guard								
Removes								
overlying								
bone								
using a								
hand								
piece								
Sectioning								
of the								
tooth								
using a	p							
hand							4 1	
piece								
Delivery of								
the								
sectioned				and the same				
tooth	- TIL							
using				F.,				
elevators								
Debridem					1			
ent of the	TR 1						,	
wound	8 K							
Proper	6				The state of the s			
closure of		2 7						
the wound	- 1	J						
with		70)	/ P 3	0.5				
sutures		4						
Hemostasi			***	• •				
S								
achieved								
Post op								
instructions								
Communi								
cation skills								
Considera						-	-	
tion of								
patient/								
profession								





alism				
Overall ability to perform				
Follow up				







### ORAL AND MAXILLOFACIAL SURGERY OSATS FORMS

GROUP	DATE
STATION NO	TIME
NAME	total marks
POLLNO	

KEY: MYOFACAIL PAIN DYSFUNCTION SYNDROME (MPDS)
OBJECTIVE – ASSESSMENT OF HISTORY TAKING SKILLS

	OBJECTIVE - ASSESSMENT OF HISTORY TAKING SKILL	1	2	3	1	5
S.	POINTS OBSERVED	•	2	<u> </u>	7	3
1	Introducing him/herself					
2	Taking consent					
3	Recording chief complaint in patient's words					
4	Where is the pain?					
5	When did the pain start? Is it getting better or worse?					
6	Ask your patient to describe the pain, is it dull, aching? Or sharp, stabbing, tingling or burning	1				
7	Does the pain radiate to any other part of the head and neck?		15			
8	Any other signs and symptoms associated with the pain					
9	When is the pain the worst? Morning, night or is it continuous?		W			
10	What sets the pain off? Does anything make it better? Painkillers help?		1			
11	How severe is the pain, perhaps ask your patient to put it on a scale from 1-10	75				
12	Does pain aggravates on chewing?					
13	Is he or she emotionally disturbed?					
14	Is there a history of previous trauma?					
15	Is there a history of any parafunctional habits? Eg pan chewing, areca nut chewing,					
16	Is there any disturbance in sleeping pattern?					
17	Have you experienced similar kind of pain previously?					
18	Do you experience any difficulty in mouth opening?					





### **ORAL AND MAXILLOFACIAL SURGERY**

### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO	

### **KEY- ODONTOGENIC INFECTIONS**

### **OBJECTIVE- ASSESSMENT OF HISTORY TAKING SKILLS**

S.	POINTS OBSERVED	0	1	2	3	4	5
1	Introducing him/herself						
2	Taking consent						
3	Recording chief complaint in patient's words						
4	Where is the pain? Localize to at least a quadrant					4	
5	When did the pain start? Is it getting better or worse?				E	MO	
6	Does the pain radiate to any other part of the head and neck?		77,		4	7	
7	Any other signs and symptoms associated with the pain				3		
8	How severe is the pain, perhaps ask your patient to put it on a scale from 1-10			, , , , , , , , , , , , , , , , , , ,			
9	Have you experienced fever?		16				
10	Do you feel bad taste or foul odor in your mouth?	310					
11	Does pain aggravates on chewing?						
12	Have you experienced similar kind of pain previously?						
13	Have you taken any treatment for this before?						
14	Have you experienced any trauma to soft tissue in that region?						
15	Have you experienced any trauma to hard tissue in that region?						
16	Where is the swelling? Localize to at least a quadrant						





17	Has the swelling increased in size since first noticed?				
18	Does the swelling disappear at anytime of the day?				-
19	Any other signs and symptoms associated with the swelling?				
20	What do you think is the cause of this swelling?				
21	Have you experienced any difficulty in breathing?				
		TOTAL			







### **ORAL AND MAXILLOFACIAL SURGERY**

### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO.	

### **KEY: DENTOALVEOLAR FRACTURES**

### **OBJECTIVE: ASSESMENT OF HISTORY TAKING SKILLS**

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

S.	POINTS OBSERVED 0 1 2 3 4	5
1	Introducing him/herself	
2	Taking consent	
3	Recording chief complaint in patient's words	
4	How did the injury occur?	
5	When did the injury occur?	
6	Where did the injury occur?	
7	What was the object contacted?	
8	What was the direction of the hit?	
9	Was there loss of consciousness?	
10	Was any part of tooth dislodged during/ after trauma?	
11	Are you experiencing any altered sensation?	
12	Are you experiencing any visual disturbances?	
13	Are you experiencing any change in occlusion?	
14	Do you any difficulty in mouth opening?	
15	Can you open your mouth to the same extend as you could before the trauma?	
16	What treatment has been provided since the injury? If any?	
	Total	





### **ORAL AND MAXILLOFACIAL SURGERY**

### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO	

### **KEY: WHITE LESIONS**

**OBJECTIVE: ASSESMENT OF HISTORY TAKING SKILLS** 

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

S.	POINTS OBSERVED	0	1	2	3	4	5
1	Introducing him/herself						
2	Taking consent	0					
3	Recording chief complaint in patient's words						
4	Where is the white lesion? Localize to at least a quadrant		31.				
5	When did you notice the white lesion?		4				
6	Since when is the lesion present?						
7	Is there any change in the size of the lesion?						
8	Is there any change in the texture of the lesion?						
9	Do you feel any roughness in your mouth? E.g., cheek, tongue	J,	/				
10	Do feel burning sensation on eating spicy food?						
11	Any other signs and symptoms associated with the lesion?						
12	Have you experienced similar kind of problem previously?						
13	History of trauma in that region?						
14	History of any fungal infection?						
14	Have you taken any treatment for this before?						
15	Presence of parafunctional habits?						
16	Do you feel a sharp cusp or tooth in that region?						





17	Do you wear any removable prosthesis? (denture)			
18	Do you smoke? E.g., cigarette, pipe			
19	Are you suffering from any immunocompromising disease? E.g., diabetes, HIV			
	Total			

FEEDBACK
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### **ORAL AND MAXILLOFACIAL SURGERY**

### **OSATS FORMS**

GROUP		DATE
STATION NO	TIME_	
NAME		TOTAL MARKS
POLL NO		

### **KEY: PULP NECROSED TOOTH**

**OBJECTIVE: ASSESMENT OF HISTORY TAKING SKILLS** 

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

S.	POINTS OBSERVED	0	1	2	3	4	5
1	Introducing him/herself						
2	Taking consent						
3	Recording chief complaint in patient's words		-16				
4	Where is the pain? Localize to at least a quadrant		T				
5	When did the pain start? Is it getting better or worse?						
6	Ask your patient to describe the pain, is it dull, aching? Or sharp, stabbing, tingling or burning	¥					
7	Does the pain radiate to any other part of the head and neck?	1					
8	Any other signs and symptoms associated with the pain						
9	When is the pain the worst? Morning, night or is it continuous?						
10	What sets the pain off? Does anything make it better? Painkillers help?						
11	How severe is the pain, perhaps ask your patient to put it on a scale from 1-10						
12	Is there any disturbance in salivary flow?						
	Total						

FEEDBACK			





### ORAL AND MAXILLOFACIAL SURGERY

### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO	

### **KEY: IMPACTED 3rd MOLAR**

**OBJECTIVE: ASSESMENT OF HISTORY TAKING SKILLS** 

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4,

### Outstanding=5

s.	POINTS OBSERVED	0	1	2	3	4	5
1	Introducing him/herself						
2	Taking consent						
3	Recording chief complaint in patient's words	1	Ä				
4	Where is the pain? Localize to at least a quadrant		DI				
5	When did the pain start? Is it getting better or worse?	*					
6	Does the pain radiate to any other part of the head and neck?	7.	/				
7	Any other signs and symptoms associated with the pain						
8	How severe is the pain, perhaps ask your patient to put it on a scale from 1-10						
9	Have you experienced fever?						
10	Do you feel bad taste or foul odor in your mouth?						
11	Does pain aggravate on chewing?						
12	Have you experienced similar kind of pain previously?						
	Total						

FEEDBACK			



from 1-10

Total

12 Does the pain aggravate when on biting/chewing?

### LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY



### **ORAL AND MAXILLOFACIAL SURGERY**

### **OSATS FORMS**

GRO	DUP DATE										
STA	STATION NO TIME										
NAMETOTAL MARKS											
ROL	L NO										
	KEY: FRACTURED TOOTH										
	OBJECTIVE: ASSESMENT OF HISTORY TAKING SKILLS										
Sca	le: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstandi	ng=5									
S.	POINTS OBSERVED	0	1	2	3	4	5				
1	Introducing him/herself										
2	Taking consent										
3	Recording chief complaint in patient's words										
4	Where is the pain? Localize to at least a quadrant		716								
5	When did the pain start? Is it getting better or worse?										
6	Ask your patient to describe the pain, is it dull, aching? Or sharp, stabbing, tingling or burning?	$\mathbf{n}'$	DI	j							
7	Does the pain radiate to any other part of the head and neck?	X	7								
8	Any other signs and symptoms associated with the pain	7									
9	Any history of trauma to the tooth?										
10	Was any part of tooth dislodged during/ after trauma?										
1.1	How severe is the pain, perhaps ask your patient to put it on a scale										

FEEDBACK\_\_\_\_\_



GROUP\_\_

FEEDBACK\_

## LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY



### ORAL AND MAXILLOFACIAL SURGERY

### **OSATS FORMS**

DATE

NAM	<del></del>						
ROL	L NO <u>Key: Pericoronitis</u>						
	OBJECTIVE: ASSESMENT OF HISTORY TAKING SKILLS						
Sca	le: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstandi			_	1 _	I _	I
S.	POINTS OBSERVED	0	1	2	3	4	5
1	Introducing him/herself						
2	Taking consent	2					
3	Recording chief complaint in patient's words						
4	Where is the pain? Localize to at least a quadrant		10				
5	When did the pain start? Is it getting better or worse?						
6	Does the pain radiate to any other part of the head and neck?		V				
7	Any other signs and symptoms associated with the pain	14					
8	Difficulty in Mouth opening?						
9	Have you experienced fever?						
10	Do you feel bad taste or foul odor in your mouth?						
11	Does pain aggravate on chewing?						
12	Have you experienced similar kind of pain previously?						
	Total						





### **ORAL AND MAXILLOFACIAL SURGERY**

### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO	

### **KEY: ORAL ULCER**

### **OBJECTIVE: ASSESMENT OF HISTORY TAKING SKILLS**

S.	POINTS OBSERVED	Insufficient	Below Expectations	Borderline	Meet observations	Outstanding
1	Introducing him/herself					
2	Taking consent					
3	Recording chief complaint in patient's words					
4	Where is the pain? Localise to at least a quadrant					
5	When did the pain start? Is it getting better or worse?				41	
6	Since when is the ulcer present?				2	
7	Is there any change in the size of the ulcer?		Aug.	37	X	
8	Do feel burning sensation on eating spicy food?		E.,	F	5	
9	Any other signs and symptoms associated with the ulcer?					
10	Have you experienced similar kind of problem previously?		- 300	76		
11	History of trauma in that region?	ستنسر	وافتام			
12	Presence of parafunctional habits?					

FEEDBACK_			





### **ORAL AND MAXILLOFACIAL SURGERY**

### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO	

### **KEY: AVULSED TOOTH**

### **OBJECTIVE: ASSESMENT OF HISTORY TAKING SKILLS**

S.	POINTS OBSERVED	Insufficient	Below Expectations	Borderline	Meet observations	Outstanding
1	Introducing him/herself			9		
2	Taking consent					
3	Recording chief complaint in patient's words					
	When did the injury happen?					
4	How did the injury take place? Is there any associated injury?		4		8178	
5	Where did the injury take place ?				31	
7	Previous dental history, including previous injuries, crowns or prostheses				*/	
8	Location of permanent tooth fragments; suggest someone look for missing fragments or teeth at the site of injury.				3	
9	Where was the tooth kept after it came out of the oral cavity?	, b	. 510			
10	Was there any sign of loss of consciousness, neck or head pain, and numbness?	** **				

LEEDRACK -			





#### ORAL AND MAXILLOFACIAL SURGERY

#### **OSATS FORMS**

GROUP	DATE
STATION NO	TIME
NAME	TOTAL MARKS
ROLL NO	

#### **KEY: AVULSED TOOTH**

#### **OBJECTIVE: ASSESMENT OF EXAMINATION SKILLS**

Scale: Not done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Good=4, Outstanding=5

S.	POINTS OBSERVED	0	1	2	3	4	5
1	Examine the tooth for any dirt particle or debris	V	2				
2	Look for the Symmetry in the mouth						
3	Bite; check for malocclusion		1118	)[1			
4	Examine TMJ						
5	Numbness, intra-or extra oral bruising			Аă			
6	Bony steps in maxilla or mandible		1	~			
7	Lift the lips to look for gingival or oral mucosal injury	,	3				
8	Type of tooth and whether permanent or primary						
9	Look for any torn soft tissue, foreign body or fracture of the alveolar bone						
10	All lost teeth and fragments should be accounted for, including examining chest and soft tissues of mouth						
	Total						

FEED	DBACK_			





#### **DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY**

#### FINAL PROFESSIONAL BDS

#### **SUTURING OSAT FORM**

DATE: _	GROUP:	ALLOTTED TIME:	TOTAL MARKS:	MARK	S OBTA	AINED	:		
STUDENT	NAME:	ROLL #:	EXAMINER NAME &	Sign				-	
SCALE:	Not Done=0, Unsai	ISFACTORY=1, SATISFAC	TORY=2, FAIR=3, GOOI	D= <b>4</b> , OUT	STAND	ING=	5		
SR.NO	POINTS OBSERVE	D		0	1	2	3	4	5
1.	THE SELECTION OF A	APPROPRIATE SUTURE MAT	ERIAL.						
2.	SUTURE PACK IS OPI	ENED IN CORRECT MANN	ER.						
3.	SUTURE NEEDLE IS BE	EING HELD IN TWO THIRDS	OF ITS POSITION.						
4.	HOLDING OF SOFT T	ISSUE ATRAUMATICALLY.							
5.	NEEDLE IS BEING PA	SSED THROUGH THE TISSU	E AT PERPENDICULAR		2				
6.	SIMPLE INTERUPE PASSING OF SUTURE	TED (IF NEEDED):  NEEDLE FROM MOBILE TO	O IMMOBILE TISSUE.						
7.		TTERESS (IF NEEDED):				A			
	NEEDLE IS PASSED F	ROM ONE EDGE OF INCIS	SION LINE TO ANOTHER &						
	AGAIN FROM THE LA	ATTER EDGE TO THE FIRST I	EDGE & KNOT IS TIED.						
8.	VERTICAL MATRI	SS (IF NEEDED):							
	NEEDLE IS PASSED F	ROM ONE EDGE OF INCIS	SION LINE TO ANOTHER						
	DEEPLY THAN AGAII	N LATTER EDGE TO THE FIR	ST EDGE SUPERFICIALLY	7		20			
	AND KNOT IS TIED.			`					
9.	Knot is tied two t	urns clockwise & one	TURN ANTICLOCKWISE.	7					
10.	SUTURE IS PLACED A	AT EQUAL DISTANCE ON B	OTH SIDES OF INCISION		/ 4				
	LINE.					V .			
11.	SUTURE IS PLACED A	AT EQUAL DEPTH ON BOTH	I SIDES OF INCISION LINE.	3					
12.	SUTURE CLOSED WIT	HOUT TENSION ON INCIS	ON LINE.			1 4			
13.	PLACEMENT OF KNO	ot away from incision	LINE.		י כי				
14.	THERE IS NO EVERSION	ON OF INCISION LINE AFT	ER SUTURE PLACEMENT						
15	OVERALL ABILITY TO	PERFORM THE PROCEDU	RE						
FEEDBA	ACK								
		-	**						





#### DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

#### FINAL PROFESSIONAL BDS

Date:_	Group: Allotted Time:Total Marks:	:	Marks	obto	iined:		
Studen	Name: Roll NO: Examiner n	ame &	Sign_				
	INTERMAXILLARY FIXATION (TO MAKE AN	EYELET)					
Scale: I	Not Done=0, Unsatisfactory=1, Satisfactory=2, Fair=3, Goo	od=4, O	utstan	ding=	5		
SR.NO	POINTS OBSERVED	0	1	2	3	4	5
1.	Selection of appropriate wire gauge						
2.	Wire stretched in appropriate manner with the appropriate instrument.		K		1		
3.	Cut a wire inch length of wire						
4.	Equalizing both legs of wire			10	15		
5.	Give 3-4 turns to make an eyelet	7		l	D	}	
6.	Holding of eye with appropriate instrument	3					
7.	Both ends pass Buccogingivally through gingival embrasure and drawn lingually	#		7	/		
8.	One end taken circumferentially around distal tooth and drawn to buccal side through distal embrasure		, T				
9.	One end taken circumferentially around mesial tooth and drawn to buccal side through mesial embrasure	16					
10.	Distal end passed through the loop						
11.	Both ends tied by twisting clockwise on mesial side with twister						
12.	Twisted ends are cut with wire cutter and bend away from gingival						
		•	•	•	•	•	





#### **ORAL AND MAXILLOFACIAL SURGERY**

#### **ORAL AND MAXILLOFACIAL SURGERY**

S				
Name of the	supervisor			
Department				
Name of the	supervisee			
Excellent	Very good	Good	Fair	Unsatisfactory
Use the ranking statements.	s above to rate	e the supervisc	or in relation	to the following
• •	npt when super ny consultation		endable in	SI
2. Very comi work.	IR			
	espect on persons es on his superv		l	¥
4. Examines :	supervisor-supe	ervisee relation	nship.	
5. Delivers re	levant informa	tion on time.	<b>3</b> ,	
6. Helps in im growth.	nproving your p	ersonal& prof	essional	
	ates interest & a al & developm		your	
8. Able to ide tactful mo	entify &call atte inner.	ention to error	rs in a	
9. Makes spe them.				
10. Deliv	ers presentatio	n on time.		
Using on rating your overall rati supervisor.	•			





The supervisor should evaluate the student as objective as possibly by circling the number in each range that best describes the student performance for that character.

STUDENT'S NAME:		ROLL NO.:		G	ROUP:	
DATE:						
TITUDE	OF	EVOCILIENT	<b>5 4</b> 3		1	TICEACTOR

ATTITUDE (DESIRE TO LEARN, ENTHUSICIAM, CURIOSTY)	EXCELLENT	5	4	3	2	1	UNSATISFACTORY
SKILLS & ACCURACY IN WORK (DECISION-MAKING)	EXCELLENT	5	4	3	2	1	UNSATISFACTORY
<ul> <li>QUANTITY OF WORK</li> <li>NO. OF DIAGNOSIS</li> <li>NO. OF EXTRACTIONS</li> <li>1. UNDER SUPERVISION</li> <li>2. INDEPENDANTLY</li> <li>NO. OF SURGICAL CASES ASSISTED</li> </ul>	EXCELLENT	5	4	3	2		UNSATISFACTORY
QUALITY OF WORK  • ACCURACY • THOROUGHNESS • READINESS	EXCELLENT	5	4	3	2	3 FA	UNSATISFACTORY
INTERPERSONAL RELATIONS (FACULTY, COLLEGUES, STAFF)  • COURTEOUS • FRIENDLY	EXCELLENT	5	4	3	2	¥	UNSATISFACTORY
ATTENDANCE (PRODUCTIVITY, RELIABILITY)	EXCELLENT	5	4	3	2	1	UNSATISFACTORY
COMMUNICATION SKILLS  • WRITTEN  • VERBAL	EXCELLENT	5	4	3	2	1	UNSATISFACTORY
SOPS FOLLOWED  • INFECTION CONTROL  • COVID-19	EXCELLENT	5	4	3	2	1	UNSATISFACTORY
<ul> <li>TASKS ACCOMPLISHED</li> <li>PRESENTATIONS GIVEN</li> <li>LOG BOOK MAINTENANCE</li> <li>SEMINARS/WEBINARS/CONFERENCES ATTENDED</li> </ul>	EXCELLENT	5	4	3	2	1	UNSATISFACTORY
<ul> <li>EXTRA-CURRICULAR ACTIVITY</li> <li>RESEARCH PUBLISHED</li> <li>DEBATES</li> <li>POSTER COMPETITION</li> <li>SPORTS PARTICIPATION</li> <li>CHARITY WORK</li> </ul>							





#### **SCORE:**

EXCELLENT: 40-50

**VERY GOOD: 35-39** 

GOOD: 30-35

SATISFACTORY: 20-29

BARELY MEETING CRITERIA: 15-20

**UNSATISFACTORY: 10-15** 

ANY OTHER COMMENTS:







#### LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY **Mini-Clinical Evaluation Exercise** (mini-CEX) Rating Form

	Trainee information  Trainee's/Student's name:										
	Trainee's/Student's name :		3								
	Year of Training/Studies : 1  (Full time equivalent)	2	3	4 (	Case nun	nber f	or that y	/ear:	11	_2	3 4
ŀ	Assessor's name :				. Assess	or's p	osition :				
	Assessor's email : Hospital/Location :										
	Setting:   In-patient  Out-pa										
9	Patient problem/Dx(s): Patient age: Patient gende										
•	ratient age ratient gende		IVIAIE	L reilla	ile C	.ase C	omplexi	ц. ш с	,w _	Medi	uiii 🗖 riigii
	Strengths				Sugge	stion	s for d	evelopi	nent		
٦	Judigas			If	a trainee o						isfactory,
				th							will not be
	Data the terrinary/student against a	.b.at.			of a tre	inaa	/studo	-4 i 4b	at wa	of	tares.
	Rate the trainee/student against v										
		Uns	satisfa	tory	Sa	tisfac	tory	Su	perio	r	Not observed
	1 Madiantintaniana alitta	1	2	3	4	5	6	7	8	9	n/o
	Medical interviewing skills	-			1						
	Medical interviewing skills     Physical examination skills	1	2	3	4	5	6	7	8	9	n/o
			2	3	4	5 5	6	7 7	8	9 9	
	Physical examination skills     Professional qualities/communication     Counselling skills	1 1 1	2	3	4	5	6	7	8	9	n/o n/o n/o
	Physical examination skills     Professional qualities/communication     Counselling skills     S. Clinical judgement	1 1 1	2 2	3 3 3	4 4 4	5 5 5	6	7 7 7	8 8 8	9 9	n/o n/o n/o n/o
	Physical examination skills     Professional qualities/communication     Counselling skills	1 1 1	2	3	4	5	6	7	8	9	n/o n/o n/o
	Physical examination skills     Professional qualities/communication     Counselling skills     S. Clinical judgement	1 1 1	2 2	3 3 3	4 4 4	5 5 5	6	7 7 7	8 8 8	9 9	n/o n/o n/o n/o
	Physical examination skills     Professional qualities/communication	1 1 1 1 1	2 2 2 2	3 3 3	4 4 4 4	5 5 5 5	6 6 6	7 7 7 7 7	8 8 8 8	9 9 9 9 9	n/o n/o n/o n/o n/o
	Physical examination skills     Professional qualities/communication	1 1 1 1 1	2 2 2 2	3 3 3	4 4 4 4	5 5 5 5	6 6 6	7 7 7 7	8 8 8 8	9 9 9 9 9	n/o n/o n/o n/o
	Physical examination skills     Professional qualities/communication	1 1 1 1 1	2 2 2 2	3 3 3	4 4 4 4	5 5 5 5	6 6 6 6	7 7 7 7 7	8 8 8 8	9 9 9 9 9	n/o n/o n/o n/o n/o
	Physical examination skills     Professional qualities/communication     4. Counselling skills     5. Clinical judgement     6. Organisation/efficiency     Overall clinical performance  Time taken for observation:	1 1 1 1 1	2 2 2 2 2	3 3 3 3	4 4 4 4 4	5 5 5 5	6 6 6 6	7 7 7 7 7 en for fe	8 8 8 8	9 9 9 9 9	n/o n/o n/o n/o n/o
	Physical examination skills     Professional qualities/communication     4. Counselling skills     5. Clinical judgement     6. Organisation/efficiency     Overall clinical performance  Time taken for observation:  Assessor satisfaction using mini-CEX	1 1 1 1 1 1 LC	2 2 2 2 2 2 OW	3 3 3 3 1 2 1 2	4 4 4 4 4 3 3	5 5 5 5 5	6 6 6 6 6 7	7 7 7 7 7 en for fe	8 8 8 8 8 edbac	9 9 9 9 9	n/o n/o n/o n/o n/o n/o HIGH HIGH
	2. Physical examination skills 3. Professional qualities/communication 4. Counselling skills 5. Clinical judgement 6. Organisation/efficiency  Overall clinical performance  Time taken for observation:  min  Assessor satisfaction using mini-CEX  Trainee/Student satisfaction using mini-CEX  Data from formative assessments is collated for the purp	1 1 1 1 1 1 1 CEX LO	2 2 2 2 2 2 OW	3 3 3 3 3 1 2 1 2 1 2 1 . Individu	4 4 4 4 4 4 3 3 al, identifia	5 5 5 5 7 4 4 4	6 6 6 6 6 5 ( ) 5 ( ) 5 ( ) 2 will not E	7 7 7 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8 8 8 8 edbac 8 8	9 9 9 9 9 kk:	n/o n/o n/o n/o n/o n/o HIGH HIGH Hed reporting.
	2. Physical examination skills 3. Professional qualities/communication 4. Counselling skills 5. Clinical judgement 6. Organisation/efficiency  Overall clinical performance  Time taken for observation: min  Assessor satisfaction using mini-CEX  Trainee/Student satisfaction using mini-CE	1 1 1 1 1 1 1 CEX LO	2 2 2 2 2 2 OW	3 3 3 3 3 1 2 1 2 1 2 1 . Individu	4 4 4 4 4 4 3 3 al, identifia	5 5 5 5 7 4 4 4	6 6 6 6 6 5 ( ) 5 ( ) 5 ( ) 2 will not E	7 7 7 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8 8 8 8 edbac 8 8	9 9 9 9 9 kk:	n/o n/o n/o n/o n/o n/o HIGH HIGH
	2. Physical examination skills 3. Professional qualities/communication 4. Counselling skills 5. Clinical judgement 6. Organisation/efficiency  Overall clinical performance  Time taken for observation: min  Assessor satisfaction using mini-CEX  Trainee/Student satisfaction using mini-CE  Data from formative assessments is collated for the purp  Assessor's signature:	1 1 1 1 1 1 1 topose of e	2 2 2 2 2 OW OW valuation	3 3 3 3 3 3 1 2 1 2 2 1 2 2 1 2 2 2 2 2	4 4 4 4 4 4 inee's/ S	5 5 5 5 7 4 4 4 ble date	6 6 6 6 6 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	7 7 7 7 7 7 9 9 9 1 9 1 9 1 9 1 9 1 9 1	8 8 8 8 edbac 8 8	9 9 9 9 9 kk:	n/o n/o n/o n/o n/o n/o HIGH HIGH Hed reporting.
	2. Physical examination skills 3. Professional qualities/communication 4. Counselling skills 5. Clinical judgement 6. Organisation/efficiency  Overall clinical performance  Time taken for observation: min  Assessor satisfaction using mini-CEX  Trainee/Student satisfaction using mini-CE  Data from formative assessments is collated for the purp  Assessor's signature:	1 1 1 1 1 1 1 topose of e	2 2 2 2 2 OW OW valuation	3 3 3 3 3 3 1 2 1 2 2 1 2 2 1 2 2 2 2 2	4 4 4 4 4 4 inee's/ S	5 5 5 5 7 4 4 4 ble date	6 6 6 6 6 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	7 7 7 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8 8 8 8 edbac 8 8	9 9 9 9 9 kk:	n/o n/o n/o n/o n/o n/o HIGH HIGH Hed reporting.





#### Ratings

Unsatisfactory - gaps in knowledge or skills that you would not expect at this level of training. Some concerns about professionalism or patient safety.

Satisfactory - what you would expect for a trainee at this level at this stage of their training year. Generally clinically competent and with satisfactory communication skills and professionalism.

**Superior** - performing well above the level they are at. No concerns about their clinical method, professionalism, organisation, communication etc.

The details below outline the skills associated with each domain in this mini-CEX rating form and the mini-CEX framework.

Please note that not all skills may be examined during each encounter—this is a guide to show what may be observed and rated.

#### **Medical Interviewing Skills**

- · Ability to interact with patient
- · Ability to direct questions at key problem
- Ability to use second order of questioning to optimise focus
- Ability to incorporate information from questions with other information
- Ability to identify and respond appropriately to non-verbal cues
- · Ability to retain a range of diagnostic options

#### Physical Examination Skills

- Ability to conduct a systematic and structured physical examination
- · Shows sensitivity to patient's comfort and modesty
- Ability to detect abnormal signs when present and weigh the significance of these findings
- Informs patient
- Ability to focus the examination on the most important components
- Ability to integrate findings on examination with other information to clarify diagnosis

#### **Professional Qualities / Communication**

- · Shows respect for patient at all times
- · Explains as well as asks
- Listens as well as tells
- Conscious of potentially embarrassing or painful components of interaction
- Shows awareness of issues surrounding confidentiality
- Able to adapt questioning and examination to patient's responses

#### Counselling Skills

- · Explains rationale for test/treatment
- Addresses the transfer of information in a way which is clear and tailored to the patient's needs
- Able to respond to patient and modify or repeat information in a different way
- Recognises patient's own wishes and gives them priority
- Avoids personal opinion and bias

#### **Clinical Judgement**

- Ability to weigh importance of potentially conflicting clinical data
- Ability to determine best choice of investigations and management
- Ability to relate management options to the patient's own wishes or situation
- Considers the risks and benefits of the chosen management/treatment options
- Ability to come to a firm decision based on available evidence

#### Organisation / Efficiency

- Ability to synthesise a collection of data quickly and efficiently
- · Demonstrates appropriate judgement and synthesis
- Demonstrates optimal use of time in collection of clinical and investigational data

Page 2











#### **LEARNING OUTCOMES**

	OPERATIVE DENTISTRY
By the end of Final \able to:	rears of BDS Programme, the dental graduate will be
Knowledge:	<ul> <li>Apply basic concepts of Operative Dentistry to practice dentistry.</li> <li>Independently assess patients presenting with defects of teeth; caries, dental trauma, tooth wear and developmental, while carrying out examination and relevant investigations to diagnose the problem.</li> <li>Assess the patient for risk of caries, trauma and tooth wear and implement their preventive strategies.</li> <li>Critically analyze clinical and radiographic findings of cases to recognize and differentiate between pulpal and periapical diseases.</li> <li>Develop critical thinking to implement management plan for pulpal and periapical diseases.</li> <li>Assess and refer patients with difficulty indices requiring consultation or treatment by specialist.</li> <li>Articulate principles of scientific research required to practice evidence-based dentistry.</li> </ul>
Skills:	<ul> <li>Record comprehensive history including medical, social, psychological and past dental information alongwith identifying the presenting complaint</li> <li>Perform thorough extra-oral and intra-oral examination and record the findings.</li> <li>Formulate a treatment plan based on the patient-oriented problem list.</li> <li>Demonstrate ability to obtain informed consent for all operative procedures.</li> <li>Perform cavity preparation, utilizing minimally invasive procedures under rubber dam isolation, including proper instrument selection as well as manipulation, placement and finishing of restorative material so as to reconstruct and restore the tooth back to its normal shape, form and function.</li> <li>Perform root canal treatment under rubber dam isolation including, access cavity preparation, root canal preparation and obturation followed by core buildup.</li> <li>Restore an endodontically treated teeth including placement of endodontic post and crown where indicated so as to restore the form and function of the tooth.</li> <li>Demonstrate management of medical or dental emergency in a dental setup</li> <li>Write a referral letter for a treatment to be carried out by specialists</li> </ul>
Attitude:	<ul> <li>Educate patient regarding diet relevant to improve oral health.</li> <li>Show empathy and respect in his/her attitude and behavior towards patients.</li> <li>Draw upon existing knowledge and update through continuing dental education programmes thereby being a lifelong learner.</li> <li>Demonstrate leadership while working in team with other health care professionals as dentists, dental assistants, hygienists and lab technicians etc.</li> <li>Demonstrate honesty and integrity in all interactions with patients, families, colleagues and others.</li> </ul>





COURSE TOPIC: INTRODUCTION TO OPERATIVE DENTISTRY								
Lecture Topic	Learning Objectives	Mode o	of Teaching	- Assessment Tools				
Lectore Topic	Learning Objectives	Lectures	Clinical	Assessifient 100is				
The field of Operative Dentistry	<ul> <li>Define the term operative dentistry</li> <li>Explain the significance of the operative dentistry</li> </ul>	Lecture (1)						

COURSETO	OPIC: BIOLOGIC CONSIDERATION	ONS IN C	OPERATIVE	DENTISTRY
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
rectore ropic	Learning Objectives	Lectures	Clinical	Assessificini roois
Review of dental anatomy/ Biologic Considerations in Operative Dentistry	<ul> <li>Discuss the chemical composition &amp; structure of the following:         <ol> <li>i) Enamel</li> <li>ii) Dentin</li> <li>iii) Pulp</li> <li>iv) Cementum</li> <li>v) Gingiva</li> </ol> </li> <li>Describe the morphologic and histological structure of tooth tissues with their clinical impact on restorative dentistry</li> <li>Explain the importance of dentogingival complex and biologic width in restorative dentistry.</li> </ul>	Lecture (1)		Class Test Class Participation Final Examination





Lecture Topic	Learning Objectives		of Teaching	Assessment Tools
recipie tobic	Lediting Objectives	Lectures	Clinical	Assessifie iii 100i
Patient Evaluation and Problem Oriented Treatment Planning	<ul> <li>Use the correct questions regarding history and symptoms of presenting complaints.</li> <li>Summarize the importance of a thorough medical and dental history.</li> <li>Discuss elements of clinical examination of following:         <ol> <li>Dentition</li> <li>Periodontium</li> <li>Radiographs</li> <li>Diagnostic casts and photographs.</li> </ol> </li> <li>Discuss the esthetic parameters to consider when restoring the dentition.</li> <li>Define the term problem-oriented treatment planning.</li> <li>Discuss merits and drawbacks of problem-oriented treatment planning.</li> <li>Describe problem-oriented treatment planning and its merits.</li> <li>List the sequence for successful treatment plan.</li> <li>Discuss the importance of dental record keeping.</li> <li>By the end of the Operative OPD rotation the student should be able to:</li> <li>Take informed consent from patient.</li> <li>Take comprehensive medical &amp; dental history of the patient present in the operative OPD.</li> <li>Perform extra and intraoral examination on a patient presenting in operative OPD.</li> <li>Diagnose the cause of problem in the patient presenting in Operative OPD.</li> <li>Formulate a treatment plan for the patient</li> </ul>	Lecture (4) TBL (1)	Tutorial/Small Group Discussion  On patient/ simulated patient	Class Test Class Participation Final Examination  Mini CEX OSCE/on patient DOPS OSATS
	<ul> <li>presenting in Operative OPD.</li> <li>Demonstrate counseling skills regarding oral prophylaxis.</li> </ul>		100	





Lecture Topic	La comita de Oleita all'acces	Mode	of Teaching	
	Learning Objectives	Lectures	Clinical	- Assessment Tools
Operating Positions	Justify the need for correct patient and operator positions when carrying out restorative procedures.	Lecture (2)		Class Test Class Participation Group Assignment Final Examination
	By the end of the Operative OPD rotation the student should be able to:  Demonstrate ideal operating position for various restorative procedures on patients in OPD.	GIA	Tutorial/ Small Group Discussion	OSATS
solation	<ul> <li>List the advantages of isolation for restorative procedures.</li> <li>Describe different methods used for isolation.</li> <li>List the armamentarium required for rubber dam isolation.</li> <li>Enumerate the advantages and disadvantages of rubber dam application.</li> </ul>		800	
	By the end of the Operative OPD rotation the student should be able to:  Identify the instruments used for isolation in OPD.  Demonstrate application and removal of rubber dam on model/simulated patient / given patient.		Small Group Discussion On patient/ simulated	OSATS
Cross infection control	<ul> <li>Define cross infection.</li> <li>Explain the exposure risks in dentistry.</li> <li>Discuss different methods of cross infection control in dental office.</li> <li>List universal/ standard precautions</li> <li>Describe blood borne infections</li> <li>Describe methods of hand hygiene</li> <li>Discuss vaccination/ immunization of dental health care professionals</li> <li>Discuss elements of personal protective equipment (PPE)</li> <li>Discuss management of dental sharps</li> <li>Discuss prevention of needle stick injury</li> </ul>	Lecture (1)	patient  Orientation class in OPD	
Starilization and	Discuss dental waste disposal	51		
Sterilization and Disinfection	<ul> <li>Differentiate the following terms:         <ol> <li>i) Sterilization,</li> <li>ii) Disinfection,</li> <li>iii) Asepsis.</li> </ol> </li> </ul>	Lecture (2)		
	<ul> <li>Discuss the importance of sterilization and disinfection.</li> <li>List critical, semi critical and non-critical items.</li> <li>Discuss disinfection of dental unit water lines.</li> <li>List elements of a sterilization plan.</li> <li>List various methods used for sterilization.</li> <li>List chemicals that are used for disinfection.</li> <li>Discuss methods to monitor sterilization.</li> </ul>			





student should be able to :		
Perform appropriate methods of sterilization, storage and removal of instruments from the	Tutorial/ Small	
autoclave.  Demonstrate disinfection of dental units,	Group Discussion	
instruments and impressions.		
Perform appropriate methods of disinfection of instruments used in OPD.		
Demonstrate the dental unit water line		
purging before use of hand piece.		

	COURSE TOPIC: OCCLUSION						
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools			
Lectore Topic	Learning Objectives	Lectures	Clinical	Assessificin 100is			
Occlusion	Define the following terms:  i) Occlusion,  ii) Static occlusion,  iii) Dynamic occlusion,  iv) Centric relation,  v) Maximum intercuspation,  vi) Supporting cusps,  vii) Non-supporting cusps.  Explain the types and directions of mandibular movements.  Explain the confirmative vs reorganized	Lecture (2)		Class Test Class Participation Final Examination			
	approach  Identify the high spot and do the adjustment						
	State the significance of restoring occlusion in restorative dentistry.			9			
	By the end of the Operative OPD rotation the student should be able to:		On patient/	OSATS			
	<ul> <li>Perform occlusal examination of patient.</li> <li>Perform necessary occlusal alteration before and after restoration.</li> </ul>		simulated patient	00/110			





Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
recipie tobic	Leaning Objectives	Lectures	Clinical	Assessment tools
Processing And Interpretation Of Radiographs	<ul> <li>Describe x-ray equipment, films and processing of x-rays.</li> <li>Describe importance of radiographs in operative dentistry.</li> <li>Discuss ADA guidelines for prescribing radiographs.</li> <li>Identify anatomical and pathological structures of maxilla and mandible on a:         <ol> <li>Peri apical x-ray,</li> <li>Occlusal x-ray,</li> <li>Octlusal x-ray,</li> <li>Ordupantomogram (OPG)</li> <li>Discuss the indications and limitations of the following x-rays views for diagnostic purposes:</li></ol></li></ul>	Lecture (2)	Tutorial/ Small Group Discussion  On patient/ Simulated patient	Quiz Class Participation Final Examination (OSCE)  OSATS





				of Teaching	
Lecture Topic		Learning Objectives	Lectures	Clinical	Assessment Tool
Etiology and Clinical	<b>&gt;</b>	Define dental caries	Lecture	Cililicai	Class Test
Characteristics		Classify caries according to the ADA			Quiz
		classification, ICDAS I and II, GJ Mount	(5)		Class Participation
		(others include classifications based on site,			Final Examination
		severity, tissue involved, occurrence, caries			
		activity etc.)			
		<b>Discuss</b> the etiology and pathogenesis of dental caries			
	<i>A</i>	Describe factors influencing dental caries	,		
		process			
		<b>Discuss</b> the role of plaque/biofilm in			
		progression of dental caries			
		<b>List</b> the names of microorganisms responsible			
		for dental caries		P	
		Explain the Stephan's curve Explain clinical characteristics and		4	
		progression of carious lesions as seen in:			
	3	i) Pit and fissures			
		ii) Smooth surfaces			
		iii) Root surfaces			
		<b>Describe</b> the progression of carious lesions in:			
		i) Enamel and Dentin			
		<b>Discuss</b> the different zones of enamel and dentin caries in an histological section			
Diagnosis and	<i>D</i>	Differentiate between detection and	Lecture	<del>- 4</del>	Class Test
Management		diagnosis of dental caries	(3)		Quiz
9411-11	>	<b>Discuss</b> methods of detection and diagnosis			Class
		of dental caries in patients on the bases of			Participation
		clinical and radiographic examination			Final Examination
	>	<b>Explain</b> International Caries Detection and			
		Assessment System (ICDAS II)	-	4	
	~	<b>Discuss</b> principles of minimal invasive dentistry			
	D	Describe Caries Management by Risk			
		Assessment (CAMBRA).			
		<b>Discuss</b> significance of caries risk assessment.			
	>	<b>Discuss</b> caries management by the medical			
		model			
	>	<b>Discuss</b> protocols and strategies for		6	
		prevention of dental caries			
		<b>Explain</b> non-invasive options for treatment of	11-7		
		existing lesions / resin infiltration technique  Define caries control restorations and ART	91		
		<b>Describe</b> the clinical protocol for caries			
		control restorations			
		Justify a logical treatment plan sequence for			
		restoring a patient's dentition			
		<b>Discuss</b> maintenance care and recall visit			
		intervals for individuals based on risk			
		assessment			
	~	<b>State</b> the role of saliva in protection against caries			
	<b>A</b>	Justify the use of pits and fissure sealant.			
		<b>Discuss</b> the indication of preventive resin			
		restoration.			
		By the end of the Operative OPD rotation the			
		student should be able to:		Tutorial/Small	
		<b>Take</b> comprehensive medical &dental	1	Tutorial/ Small	
		history of the patient present with dental		Group	





COLLEGE OF DENTISTRY							
	<ul> <li>Perform extra and intraoralexamination on a patient presentingwith dental caries in the OPD.</li> <li>Diagnose dental caries based on clinical and radiographic examination.</li> <li>Assess dental caries risk for a patient.</li> <li>Formulate a treatment plan for the patient present with dental caries in the OPD.</li> <li>Counsel patients regarding measures to prevent dental diseases.</li> <li>Make a maintenance care and recall visit interval plan for patients based on risk assessment.</li> <li>Demonstrate application of fissure sealants in</li> </ul>		(CBL)  On patient/ simulated patient	Mini CEX/ OSATS			
	children presenting in OPD.						
Management of Deep Carious Lesion	<ul> <li>Define the following terms:         <ol> <li>Stepwise excavation</li> <li>Indirect pulp cap</li> <li>Direct pulp cap (carious and iatrogenic)</li> </ol> </li> <li>Describe the rationale of stepwise excavation of carious lesion</li> <li>Discuss various possible reactions of pulpdentin complex to deep carious lesion</li> <li>Enumerate materials that can be used for direct and indirect pulp cap</li> <li>Describe the clinical protocol for direct and indirect pulp cap procedures</li> <li>By the end of the Operative OPD rotation student should be able to:</li> <li>Plan treatment according to the extent of carious lesion.</li> <li>Demonstrate the clinical protocol for direct and indirect pulp cap on patients.</li> </ul>	Flip Classroom (1)	Tutorial/ Small Group Discussion	Class Test Quiz ClassParticipation Final Examination			

COURSE TOPIC: PRINCIPLES OF CAVITY DESIGN AND PREPARATION						
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools		
recipie tobic	Learning Objectives	Lectures	Clinical	Assessment tools		
Principles of Cavity Design and Preparation	<ul> <li>Enumerate the objectives of tooth preparation</li> <li>List factors that need to be considered before tooth preparation.</li> <li>Describe G.V Black's principle of tooth preparation and compare with current concepts.</li> <li>List the steps in the initial and final stages of tooth preparation.</li> <li>State shortcomings of Black's cavity classification.</li> <li>Describe the advances in material science that have made cavity preparation minimally invasive.</li> </ul>	Lecture (1) TBL (1)		Class Participation Group Assignment Final Examination		





#### COURSE TOPIC: INSTRUMENTS AND EQUIPMENT FOR TOOTH PREPARATION

Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
tectore ropic	Learning Objectives	Lectures	Clinical	Assessment tools
Instruments and Equipment for Tooth Preparation	<ul> <li>List various cutting and non cutting hand instruments.</li> <li>Discuss the design features for hand cutting instruments.</li> <li>Discuss common design characteristics of rotary cutting instruments (dental burs)</li> <li>Discuss the nomenclature for hand cutting instruments.</li> <li>Describe sharpening procedure of hand instruments.</li> <li>Describe rotary cutting equipment and instruments</li> <li>Describe the various instrument grasp techniques that can be employed.</li> <li>Describe latest developments for tooth preparation and caries removal including:         <ol> <li>Lasers,</li> <li>Ozone,</li> <li>Air abrasion.</li> </ol> </li> <li>Discuss hazards with cutting instruments and their prevention.</li> <li>By the end of the Operative OPD rotation the student should be able to:</li> <li>Identify the hand and rotatory instrument.</li> <li>Demonstrate correct selection of an instrument for the required task.</li> <li>Demonstrate various instrument grasp techniques that can be employed.</li> </ul>	Lecture (2)	Tutorial/ Small Group Discussion On Patient	Class Participation Final Examination OSCE

COURSE TOPIC: DIRECT RESTORATIVE MATERIALS						
Lecture Topic		Learning Objectives	Mode	of Teaching	- Assessment Tools	
	4.	V	Lectures	Clinical		
Review of Restorative Materials	A	State the composition of following direct filling materials: i) Amalgam, ii) GIC, (RMGIC) iii) Composite. List the properties, uses, merits and shortcomings of following direct filling materials: i) Amalgam, ii) GIC, (RMGIC) iii) Composite.	Lecture (4)	65	Quiz Class Participation Final Examination	
	AA	By the end of the Operative OPD rotation the student should be able to:  Demonstrate mixing of dental cements.  Demonstrated clinical handling of restorative materials while restoring teeth on patients		Tutorial/Small Group Discussion	OSCE	





Lookuro Tomio		Lograine Objectives	Mode	of Teaching	A a a a a a ma a m la Ta a l
Lecture Topic		Learning Objectives	Lectures	Clinical	Assessment Too
Amalgam Restorations	$\triangleright$	Discuss chemistry of dental amalgam.	Lecture	Tutorial/ Small	
		List advantages and disadvantages	(5)	Group	Class Test
	,	ofamalgam restorations.		Discussion	Class Participation
Clares La en ritur	_	Discuss mercury hazards and hygiene.			Final Examination
Class I cavity oreparation for	-	<b>Describe</b> the outline form of a class 1 cavityfor amalgam restoration.			
amalgam restoration.	0	Discuss ways of improving resistance			
amaigam estoration.		andretention form of a simple class			
		1 restoration.			
		Justifyways of improving resistance			
		andretention of complex class 1 restorations.			
		<b>Describe</b> bonded amalgam restorations.			
		<b>Describe</b> the mechanism of			
		amalgambonding.			
		<b>Describe</b> placement of amalgam in simple	UIM		
		and complex class 1 cavities.			
		By the end of the Operative OPD rotation			
		the student should be able to:			
		<b>Demonstrate</b> the cavity preparation of class I and restoration on phantom teeth and			
	9	patients in operative OPD.			OSATS
	D	<b>Demonstrate</b> the handling and manipulation			
	1	of amalgam restoration on phantom teeth			
		and patients in operative OPD.			
		Demonstrate the handling and disposal			
		of mercury waste in class I.			
Class II cavity	~	Describe class II cavity preparation	Lecture		
preparation for		foramalgam restoration.	(2)		
amalgam restoration.	>	<b>Explain</b> outline form of a class II cavity			
		foramalgam restoration.			
		Discuss other cavity preparation designs			
		e.g.box only preparation, tunnel			
		preparation, slots preparation.	,	Tutorial/ Small	
	~	JUstifyways of improving resistance andretention form of a simple class		Group	
		llrestoration.		Discussion	
		<b>Discuss</b> ways of improving resistance and		Discussion	
	ret	tention of complex class II restorations.		On Patient	
		Justify the need for cuspal coverage			
	1.7	withspecial reference to rule of thirds.			7
		Enumurate types of dentin pins.			
		<b>Describe</b> method of placement of		1.5/	
		dentinpins.			
		Discuss importance of matrices			
		andwedging.	7,7,9		
		<b>List</b> various types of matrix band systems.	91		
		<b>List</b> various parts of tofflemire.	,		
	>	<b>Describe</b> the method of using a tofflemire.			
		By the end of the Operative OPD rotation			
		the student should be able to:			
		<b>Demonstrate</b> the cavity preparation of classII			
		and restoration on phantom teeth			
		andpatients in operative OPD.			
		Placement of tofflemire and wedge			
		· · · · · · · · · · · · · · · · · · ·	ĺ		
		onpatient when restoring multi			
		onpatient when restoring multi surfacecavities.			
	<b>A</b>	surfacecavities.  Demonstrate the handling and			
	>	surfacecavities.			
	A	surfacecavities.  Demonstrate the handling and manipulation of amalgam restoration on phantom teethand patients in operative			OSATS
	A	surfacecavities.  Demonstrate the handling and manipulationof amalgam restoration on			OSATS





co	COURSE TOPIC: BONDING TO ENAMEL AND DENTINE						
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools			
Lectore Topic		Lectures	Clinical	Assessificili 100is			
Bonding to enamel and dentine	<ul> <li>List advantages of adhesive techniques, over conventional/ non-adhesive methods.</li> <li>Describe the structure of enamel,</li> <li>Justify why it is a favorable substrate for bonding.</li> <li>Describe the structure of dentin</li> <li>Differentiate between the structure of enamel and dentine</li> <li>Discuss the effect of smear layer on dentin bonding.</li> <li>Explain the effect of Configuration Factor (C factor) on bonding.</li> <li>List scientific classification of modern adhesives.</li> <li>Explain the effect of acid conditioning on enamel.</li> <li>Discuss difficulties in dentine conditioning.</li> <li>Discuss chemistry of primers and adhesive resin (bonding agent).</li> <li>Explain the importance of hybridization for effective dentine bonding.</li> <li>Discuss Self-etch adhesives.</li> <li>Describe 1st - 7th generation adhesives.</li> <li>Summarize steps involved in enamel bonding.</li> <li>Describe the bond strength under optimal conditions.</li> </ul>	Lecture (3)	THE STATE OF THE S	Class Test Class Participation Final Examination			





laskus Tauta	Learning Objectives	Mode	of Teaching	A
Lecture Topic		Lectures	Clinical	Assessment Tool
Esthetic considerations	Discuss esthetic considerations in diagnosis	Lecture		Quiz
	and treatment planning			Class Participation
	> <b>Describe</b> different esthetic parameters to be	(6)		Final Examination
	taken into account before planning a restoration.			
Direct Anterior	<ul><li>Discuss the chemistry of anterior composites.</li></ul>	_		
Composite Restorations	<ul> <li>List factors influencing shade selection.</li> </ul>			
Composite Restorations	<ul> <li>Explain guidelines for shade matching.</li> </ul>			
Class III & IV	Describe various methods of shade			
	selection.	m.		
	<ul><li>Outline cavity preparation for class 3 &amp; 4</li></ul>	16/A		
	restorations.			
	<ul> <li>Discuss importance of matrices and wedges</li> </ul>			
	in anterior restoration.			
	> Outline composite placement technique for			
	class 3 and 4 restorations.			
	List various type of matrices and wedges use			
	for composite restoration.			
	<ul> <li>Discuss different instruments used for finishing</li> </ul>			
	and polishing of composite restorations and			
	their use			
	By the end of the Operative OPD rotation the			
	student should be able to:			
	Perform preoperative evaluation before		Tutorial/ Small	
	placing an anterior composite restoration.	_	Group	
	Prepare Class III and IV cavity for composite		Discussion	9
	placement.		DISCUSSION	
	Demonstrate placement of appropriate		On patient	OSATS
	matrix and wedges on patients when		Orrpallerii	
	restoring teeth with composite.			
	> <b>Demonstrate</b> placement of composite resin	=		
	in the prepared cavity.			
	Perform finishing and polishing of composite restorations			
Composito voncora	<ul> <li>List indications, contraindications,</li> </ul>	_		
Composite veneers				
	advantages and disadvantages of direct			
	composite veneers.			
	List clinical steps for placing direct resin	-		
	composites veneer.			
	> <b>Explain</b> the technique for diastema closure			
	with direct composite.  Fourmerate different instruments used for			
	finishing and polishing of composite veneers and their use.			
Direct Posterior		Lastina		O. ii-
	Discuss indications, contraindications,	Lecture		Quiz
Composite Restorations	advantages and disadvantages of composite resin as a posterior restorative	(5)		Class Participation Final Examination
Class I,II &VI		(5)		FINAL EXAMINATION
C1G33 1,11 CK V I	material.			
	Describe preoperative evaluation for a     posterior composite restoration.			
	posterior composite restoration.			
	> Outline features of a class 1 and 2 cavity for			
	composite restoration.			
	Justify the need for of pre-wedging in class 2			
	composites.  > Explain bonded base technique.			
		i		I .





	Box only preparation,     Tunnel preparation,     III. Slot preparation.		
	<ul> <li>Classify matrix systems available for composite restorations.</li> </ul>		
	<ul> <li>Compare circumferential and sectional</li> </ul>		
	matrix systems.  > Outline placement technique of class I and II  assuits for composite restoration.		
	cavity for composite restoration  > Justify different methods to minimize polymerization shrinkage when placing		
	composite.  List different methods to create a tight		
	contact for class 2 composite restorations.  List various resin polymerization equipment.		
	Summarize other cavity preparation designs     e.g. box only preparation, tunnel		
	preparation.  > Describe cavity preparation and restoration	GIA	
	of a class 6 lesion		
	By the end of the Operative OPD rotation the student should be able to:	9	
1,9	Perform preoperative evaluation for a posterior composite restoration.	Tutorial/ Small	
13	Prepare Class I, II and VI cavity preparation for composite restorations.	Group Discussion	
	> <b>Perform</b> placement of appropriate matrix and wedges on patients when restoring		
191	teeth with composite.  > Demonstrate placement of composite resin in the prepared cavity.		41
	Perform finishing and polishing of composite restorations	On patient	OSATS
Fissure sealants	Discuss indications, contraindications of fissure sealants.		5
	List factors affecting retention of fissure sealants.	<b>1 3 3</b>	
10	Describe placement technique for fissure sealants.		
14	By the end of the Operative OPD rotation the student should be able to:	Extracted	
	Place fissure sealant on extracted tooth and on patients.	Tooth/On patient	
Preventive resin restoration	Discuss indications and advantages of preventive resin restoration.	10	
	<ul> <li>Outline placement technique of preventive resin restoration</li> </ul>		
	By the end of the Operative OPD rotation the student should be able to:	Extracted	
	Place preventive resin restoration on extracted tooth and on patients.	Tooth/On patient	





#### **COURSE TOPIC: CLASS 5 RESTORATIONS & ROOT CARIES Mode of Teaching Learning Objectives Lecture Topic Assessment Tools** Clinical Lectures Class 5 Restorations **Describe** cavity preparation for class 5 Lecture Class Participation restorations. (2)Final Examination **Explain** non-surgical and surgical techniques for isolating class 5 restorations. **Discuss** restorative materials available for restoring class 5 lesions. **List** ways of improving retention of class 5 composite restorations. By the end of the Operative OPD rotation the student should be able: Extracted Prepare class V cavity and restore with Tooth/On **OSATS** appropriate material patient Diagnosis and **Define** root caries. Quiz Lecture Treatment of Root Describe appearance and location of root Class Test (1) Class Participation Caries List etiology and risk factors associated with Final Examination root caries. **Discuss** preventive and chemotherapeutic strategies to manage root caries. Discuss available restorative materials for treating root caries. By the end of the Operative OPD rotation the student should be able to: Diagnose root caries based on clinical and radiographic findings On patient Demonstrate removal of root caries on patients followed by preparation of root surface and restoration with appropriate material.

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COURSE TOPIC: TOOTH SURFACE LOSS				
Locturo Tonio	Lograina Objectives	Mode	of Teaching	- Assessment Tools
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment tools
Tooth Surface Loss	<ul> <li>Define the following types of tooth surface loss:         <ol> <li>Abrasion,</li> <li>Attrition,</li> <li>Erosion,</li> <li>Abfraction.</li> </ol> </li> <li>State the etiology of.         <ol> <li>Abrasion,</li> <li>Attrition,</li> <li>Erosion,</li> <li>Abfraction.</li> </ol> </li> <li>Describe the pathogenesis, prevention and management of tooth surface loss.</li> </ul>	Lecture (2) - Flip Class		Class Test Class Participation Final Examination
Dentinal Hypersensitivity	<ul> <li>Define dentinal hypersensitivity.</li> <li>List etiology of dentinal hypersensitivity</li> <li>Explain pathogenesis, prevention and management of dentine hypersensitivity.</li> <li>By the end of the Operative OPD rotation the student should be able to:</li> <li>Diagnose case with tooth surface loss</li> <li>Formulate treatment plan for patients having advanced tooth wear.</li> <li>Treat the dentition with tooth surface loss.</li> <li>Manage patient with tooth surface loss.</li> </ul>	Room (1)	Tutorial/Small Group Discussion On patient/ Simulated patient	

	COURSE TOPIC: DISCOLOR	ΔΤΙΩΝ (	) F TEETH	
	COURSE FOI IC. DISCOLOR	Allon	ZI ILLIII	
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
Leciole Topic	Leditinig Objectives	Lectures	Clinical	Assessifielli 100is
Discoloration of Teeth	Classify tooth discoloration according to etiology  Describe mode of action of bleaching agent on stains.  Discuss complications of bleaching  Discuss commonly used bleaching agents and their strengths.  List indications and contraindications of various types of bleaching techniques.  Explain technique for:  i. In-office vital bleaching  iii. At-home vital bleaching  iiii. Non-vital bleaching.  Outline brief procedure for microabrasion and macro abrasion.	Lecture (2) Flip Class Room (1)	6.5	Quiz Class Participation Final Examination
> >	By the end of the Operative OPD rotation the student should be able to:  Take comprehensive history of patients coming with discolored teeth.  Diagnose the cause of discoloration in patients presenting with discolored teeth.  Formulate treatment plan for the patient coming with discolored teeth  Counsel patients about procedure and prognosis of treatment.		Tutorial/Small Group Discussion On patient/ Simulated patient	





	COURSE TOPIC: ENDO	DONTIC	CS	
		Mode of Teaching		
Lecture Topic	Learning Objectives	Lectures	Lectures	Assessment Tool
Biology of Dental Pulp and Periradicular Tissue	<ul> <li>Recognize the anatomic regions of pulp and their clinical importance.</li> <li>List the functions of the pulp dentin complex.</li> <li>Give brief overview of the blood vessels and lymphatics of pulp.</li> <li>Discuss distribution and function of the neural components of pulp.</li> </ul>	Lecture (2)		Class Test Quiz Class Participation Final Examination
Pain Activation And	Discuss changes in pulp morphology with age.      Describe the structure and function of periradicular tissues.      Define pain.	Lecture		Class Test Quiz Class
Transmission	<ul> <li>Explain the process of pain activation and transmission.</li> <li>Discuss theories of dentin sensitivity.</li> <li>Describe the features of different pulpal nerve fibers.</li> <li>Explain pathway of efferent nerves from pulp to central nervous system.</li> <li>Differentiate between odontogenic and non odontogenic pain.</li> <li>Manage dentinal hypersensitivity.</li> </ul>	(2)		Participation Final Examination
LIAQ2	By the end of the Operative OPD rotation the student should be able:  Formulate treatment plan for patients coming with dentinal hypersensitivity.		Tutorial/ Small Group Discussion (CBL) On Patient	
Preserving Pulp Vitality	<ul> <li>Describe physiologic and structural characteristics of pulp and how it affects pulp response to injury.</li> <li>Give physical, chemical,bacterial cause of pulpal inflammation.</li> <li>Explain iatrogenic effects on the dental pulp by:         <ol> <li>Local anesthetics with vasoconstrictor,</li> <li>Cavity/ crown preparation (thermal shock)</li> <li>Depth of cavity preparation,</li> <li>Various restorative materials,</li> <li>Polishing restorations,</li> </ol> </li> </ul>	Lecture (4)		Class Test Quiz Class Participation Final Examination
	<ul> <li>vii) Post-restoration hypersensitivity,</li> <li>viii) Orthodontic tooth movement,</li> <li>ix) Vital bleaching.</li> <li>Discuss the formation and role of tertiary dentin in pulp protection.</li> <li>Summarize preventive measures adopted during dental restorative procedures to preserve pulp vitality.</li> </ul>			





COURSE TOPIC: PULPITIS AND ITS SEQUELAE					
Locturo Tonio	Learning Objectives	Mode o	f Teaching	Assessment Tools	
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment Tools	
Pulpitis and Its Sequelae	By the end of lecture the student should be able:  Explain mechanism of spread of inflammation in the pulp.  Explain anatomical feature of pulp responsible for irreversible inflammation to injurious stimuli.  Diagnose pulp with different pathological status.  List treatment options for different pulpal status.	Lecture (2) Flip Class Room (1)		Class Test Quiz Class Participation Final Examination	

	sidius.				
COURSE TOPIC: ENDODONTIC MICROBIOLOGY					
Lecture Topic	Learning Objectives		Mode	of Teaching	- Assessment Tools
recipie tobic	Learning Objectives		Lectures	Clinical	Assessment tools
Endodontic Microbiology	<ul> <li>Describe the routes of entry of microorganisms to the pulp and peri radicular tissues.</li> <li>Enumerate different types of endodonti infections.</li> <li>List the various microbial species involve different types of endodontic infections</li> <li>Describe ecology of endodontic microband features of endodontic ecosystem.</li> </ul>	ed in piota	Lecture (1)	TIGHT	Class Test Class Participation

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COURSE TOPIC: PULP AND PERIRADICULAR PATHOSIS				
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
recipie topic	Learning Objectives	Lectures	Clinical	Assessifient tools
Pulp and Periradicular Pathosis	Classify pulpal diseases Classify periradicular lesions of pulpal origin. Describe etiological factors of pulp inflammation. Explain mechanism of spread of inflammation in pulp. Explain why the pulp has difficulty in recovering from severe injury. List specific and non-specific indicators of pulpal inflammation. Describe the clinical and histological features of pulp diseases. Describe the mechanisms and consequences of spread of pulpal inflammation into periradicular tissues. Describe the clinical and histological features of periradicular lesions of pulp diseases. Explain steps involved in repair of periapicalpathosis. Distinguish non-endodontic lesions that may simulate endodontic periradicularpathosis. By the end of the Operative OPD rotation the student should be able to: Diagnose a patient presenting with pulpal and periapical disease in OPD. Formulate treatment plan for patients presenting with pulpal and periapicalpathosis.	Lecture (1) Flip Class Room (1)	Tutorial/ Small Group Discussion On patient/ Simulated patient	Class Test Quiz Class Participation Final Examination Group Assignment  Mini CEX / DOPS





COURSE TOPIC: ENDODONTIC RADIOLOGY				
Lockura Tania	Lagraina Objectives	Mode	of Teaching	- Assessment Tools
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment tools
Endodontic Radiology	Describe importance of radiographs in	Lecture		Class Test
	endodontics.	(2)		Class
	Identify normal anatomic structures of			Participation
	maxilla and mandible on periapical			Group
	radiographs.			Assignment
	Differentiate between endodontic and non-			Final Examination
	endodontic radiolucencies&			
	radiopacitiesaccording to their			
	characteristics.			
	Explain radiographic characteristics of			
	periapical lesions of endodontic origin.  Justify reasons for varying horizontal and			
	vertical cone angulations to create image			
	shift.			
	Describe the SLOB rule.			
	<ul> <li>Describe new technologies for radiographic</li> </ul>			
	imaging.			
	By the end of the Operative OPD rotation the	e		
	student should be able to:			
	Identify endodontic and non endodontic		Tutorial/Small	OSATS
	finding on x-rays.		Group	
	Demonstrate the proper cone position for		Discussion	
	the paralleling technique according to the			
	site of examination.			
	Demonstrate the proper cone position for		On Patient	
	the bisecting technique according to the			
	site of examination.	-		
	Demonstrate SLOB rule of radiography while	•		
	taking x-ray.			





Lecture Topic	Lagraina Objectives	Mode	of Teaching	- Assessment Tools
	Learning Objectives	Lectures	Clinical	Assessment tools
Endodontic Diagnosis and Treatment Plan	<ul> <li>Discuss importance of medical and dental history in formulation of treatment plan</li> <li>Discuss elements of clinical examination.</li> <li>List various vitality tests and sensibility test along with advantages and limitations.</li> <li>Correlate radiographic findings to the history and clinical examination.</li> <li>Discuss factors affecting case selection in endodontics.</li> <li>Describe the common medical diseases that may influence endodontic treatment planning.</li> <li>Elaborate special considerations in planning treatment for geriatric patients.</li> <li>State the importance of an informed consent before any treatment.</li> <li>Assess endodontic case difficulty.</li> <li>Describe the importance of referral to an</li> </ul>	Lecture (4) Flip Class Room (1)	Cimical	Class Test Class Participation Group Assignment Final Examination
	endodontist in certain cases.  By the end of the Operative OPD rotation the student should be able to:  Take medical and dental history of patient presenting to dental OPD.  Perform extra and intraoral examination on patients.  Demonstrate vitality/sensibility testing on simulated patients and given patients.  Interpret findings of various vitality tests in clinical settings.  Diagnose pulpal and periapicalpathosis in patients based on history, clinical and radiographic examination.  Develop a treatment plan.  Take an informed consent before any treatment.  Formulate a referral letter to an endodontist		Tutorial/ Small Group Discussion On patient/ Simulated patient	Mini CEX/ OSATS





COURSE TOPIC: PULP ANATOMY				
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
Lectore ropic	Learning Objectives	Lectures	Clinical	Assessifielli 100is
Pulp Anatomy	<ul> <li>Correlate the shape of pulp system to root anatomy.</li> <li>Define pulp space.</li> <li>List significance of iatrogenic or developmental defects with age factors that may cause alterations in pulp anatomy.</li> <li>List major components of pulp space.</li> <li>Determine variations in the pulp system in apical third.</li> <li>Determine radiographic distance from occlusal/incisal surface to the roof of chamber.</li> <li>Describe accessory canals.</li> <li>Discuss relationship between anatomic, radiographic and actual location of apical foramen.</li> <li>By the end of the Operative OPD rotation the student should be able to:</li> <li>Identify the internal and external anatomy of teeth in sagittal and cross section.</li> </ul>	Lecture (2)	Tutorial/ Small Group Discussion	Class Test Quiz Class Participation Individual Assignment Final Examination

COURSE TOPIC: INSTRUMENTS IN ENDODONTICS				
Lookuva Tania	Leavaine Objectives	Mode	of Teaching	
Lecture Topic	Learning Objectives	Lectures	Clinical	- Assessment Tools
Instruments in Endodontics	<ul> <li>List basic sets of instruments appropriate for various endodontic procedures.</li> <li>State the general physical properties of instruments.</li> <li>Describe the design of common canal preparation instruments and their use to prevent breakage within the canal.</li> <li>Explain the basis for sizing and taper of hand operated instruments(ISO)</li> <li>Describe proper use of instruments to prevent breakage within the canal.</li> <li>Recognize visible changes in instruments that will predispose them to breakage.</li> <li>Explain techniques for sterilization and disinfection of endodontic instruments.</li> </ul>	Lecture (3)	6.50	Class test Quiz Class Participation Final Examination
	Describe nickel titanium rotary instruments.     By the end of the Operative OPD rotation the student should be able to:     Identify different types of endodontic instruments.     Demonstrate correct selection of an endodontic instrument for the required task.		Tutorial/Small Group Discussion	OSCE





COURSE TOPIC: LOCAL ANESTHESIA IN ENDODONTIC					
Lecture Topic	Learning Objectives	Mode of Teaching		- Assessment Tools	
Lectore ropie		Lectures	Clinical	Assessifie iii 100is	
Local Anesthesia in Endodontic	Define pain threshold Explain factors affecting pain threshold. List techniques that are helpful in giving "painless" injections. Describe the "routine" approach to conventional local anesthesia. Describe circumstances that create difficulties in obtaining profound anesthesia. List indications and contraindications of local anesthesia List complications of local anesthesia Justify use of obtaining pulpal anesthesia. Summarize techniques of intraosseous, periodontal ligament, and intrapulpal injections. By the end of the Operative OPD rotation the student should be able to: Demonstrate the administration of intraosseous, periodontal ligament and intra pulpal anesthesia. Perform administration of topical anesthesia before starting root canal treatment on patients. Perform local anesthesia (infiltration and block) before starting root canal treatment on patients. Perform administration of intrapulpal anesthesia on patients.	Lecture Clinical Teaching (2)	Tutorial/ Small Group Discussion On patient	Class Test Quiz Class Participation Final Examination	





COURSE TOPIC: ISOLATION, ENDODONTIC ACCESS, AND LENGTH DETERMINATION				
La alema Tamba		Mode of Teaching		
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment Tools
Isolation	Describe various methods of isolation in endodontics with emphasis on rubber dam isolation.	Lecture Clinical Teaching		Class Test Quiz Class Participation
Endodontic Access Cavity Preparation	<ul> <li>Describe the importance of preoperative assessment as prerequisite for treatment success.</li> <li>State the importance of pre endodontic buildup.</li> </ul>	(5)		Individual Assignment Final Examination OSATS
	<ul> <li>Describe the objectives, general principles, the procedure, armamentarium and sequence for access cavity preparation</li> <li>Identify errors during access cavity preparation.</li> <li>Explain how to correct errors during access cavity preparation.</li> <li>Describe technique for locating canal</li> </ul>	GIN		
Working Length Determination	orifices  Describe average length and canal configuration of various teeth with reference to the laws of canal orifice location.  Describe various methods of working length determination.			
	By the end of the Operative OPD rotation the student should be able to:  Demonstrate rubber dam application prior to endodontic treatment.  Draw outline of access cavity of given tooth.  Prepare access cavity on single rooted teeth (extracted teeth/patients).  Determine working length of single rooted teeth (extracted teeth/patients) with the help of radiograph & apex location.		Tutorial/ Small Group Discussion  On patient/ Extracted Tooth	CTDV





COURSE TOPIC: CLEANING AND SHAPING				
Lecture Topic	Learning Objectives	Mode of Teaching		- Assessment Tools
		Lectures	Clinical	Assessment tools
Cleaning and Shaping	<ul> <li>Differentiate pulp space infection and other body tissue infection.</li> <li>Describe biological and mechanical objectives of cleaning and shaping of pulp space.</li> <li>Explain the concept of apical patency.</li> </ul>	Lecture Clinical Teaching (4) TBL (1)		Class Test Quiz Class Participation Final Examination OSATS
	<ul> <li>Describe various instruments movements.</li> <li>Describe different techniques of canal preparation.</li> <li>Explain how to minimize preparation errors in curved canal.</li> </ul>			
	<ul> <li>Discuss management of calcified canals.</li> <li>Justify use of Nickel Titanium (NiTi) rotary instruments and efficacy over stainless steel files.</li> <li>Explain the importance, properties and irrigation technique of root canalirrigants.</li> </ul>		(P)	
	List commonly used root canal irrigants  By the end of the Operative OPD rotation the student should be able to:			
	<ul> <li>Performpulpectomy of single rooted teeth (extracted teeth/patients), with conventional endodontic instruments</li> <li>Demonstrate correct irrigation technique during root canal preparation.</li> <li>Perform cleaning and shaping of root canal on extracted, endoblock and patients.</li> </ul>		Tutorial/ Small Group Discussion On patient/ Extracted Tooth	201

COURSE TOPIC: INTRA CANAL MEDICAMENTS AND TEMPORARY FILLING MATERIALS				
Lecture Topic	Lecture Topic Learning Objectives		of Teaching	Assessment Tools
Lectore Topic	Lediting Objectives	Lectures Clinical Assessment	Assessment tools	
Intra Canal Medicaments and Temporary Filling Materials	<ul> <li>List different microorganisms involved in endodontic pathosis.</li> <li>Define intra canal medicament.</li> <li>Discuss the properties, role, method of application and instruments used in intra-canal, inter-appointment medicaments.</li> <li>Categorize various agents used as intracanal medicament.</li> <li>Describe the method of application used in intra-canal medication.</li> <li>List temporary filling materials</li> <li>Describe techniques for placement and removal of temporary material.</li> </ul>	Lecture (2)	6-5	Class Test Class Participation Final Examination
	By the end of the Operative OPD rotation the student should be able to:  Demonstrate the placement of intracanal medicament inside the canal using appropriate instruments.  Demonstrate the placement and removal of temporary filling.		Tutorial/ Small Group Discussion On patient	





Lastura Tania	COURSE TOPIC: ROOT CANA	Mode of Teaching		Accessed to the
Lecture Topic		Lectures	Clinical	Assessment Tools
Root Canal Obturation	<ul> <li>Describe the rationale of obturation.</li> <li>Give reasons why inadequate obturation may result in treatment failure.</li> <li>Recognize the clinical criteria that determine time of obturation.</li> <li>List the properties of ideal core obturation material and sealers.</li> <li>Name core obturation materials, sealer and obturation.</li> <li>Describe the composition and properties of guttapercha.</li> <li>Write down advantages and disadvantages of each core material.</li> <li>List properties of ideal sealer.</li> <li>Justify the need for using a sealer during obturation.</li> <li>Outline briefly lateral condensation technique.</li> <li>Describe briefly other techniques used for obturation.</li> <li>Discuss the radiographic criteria for evaluating the quality of Obturation.</li> </ul>	Lecture (4)		Quiz Class Participation Final Examination OSATS
	By the end of the Operative OPD rotation the student should be able to:  Perform obturation of single rooted teeth (extracted teeth/patients) with cold lateral condensation method.		Tutorial/Small Group Discussion On patient/ Extracted Tooth	io T D





COURSE TOPIC: PROCEDURAL ACCIDENTS					
La alema Tamia	Learning Objectives	Mode of Teaching		A	
Lecture Topic		Lectures	Clinical	Assessment Tools	
Procedural Accidents	Describe causes, prevention and treatment of procedural accidents during:  i) Access cavity preparation, ii) Cleaning and shaping, iii) Obturation.  Describe the following errors including their management: i. Transportation, ii. Ledging, iii. Elbow, iv. Zipping, v. Root perforations- apical, vi. middle vii. and coronal, viiii. Separated instruments, ix. Aspiration and ingestion, x. Hypochlorite accident, xi. Air Emphysema. Identify various procedural errors on clinical and/or radiographic slides Justify how procedural errors can affect the prognosis of treatment.  By the end of the Operative OPD rotation the student should be able to: Counsel patients after clinical mishap.(breaking bad news)	Lecture (3)	Tutorial/ Small Group Discussion	Class Test Class Participation Individual Assignment Final Examination	





COURSE TOPIC: ENDODONTIC EMERGENCIES				
Locturo Tonio	Lograina Objectives	Mode of Teaching	Assassment Tools	
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment Tools
Endodontic Emergencies	<ul> <li>Identify causes of endodontic emergencies pretreatment, inter-appointment and post obturation.</li> <li>Discuss the difficulties in diagnosing and treating a patient presenting with an endodontic emergency.</li> <li>Explain the importance of sequential approach of management of endodontic emergencies.</li> </ul>	Lecture (3) Flip Class Room (1)		Quiz Class Participation Final Examination
	<ul> <li>Describe how to manage various endodontic emergencies including:         <ol> <li>Painful irreversible pulpitis,</li> <li>Necrotic pulp with symptomatic apical periodontitis,</li> <li>Acute apical abscess,</li> <li>Symptomatic apical periodontitis.</li> </ol> </li> <li>Identify inter-appointment and post-obturation flare up.</li> </ul>	GIN	CP.	
	<ul> <li>Describe management of interappointment and post-obturation flare up.</li> <li>Explain pharmacological therapy used in emergency and its role in controlling pain and infection.</li> <li>List the indications and contraindications for prescribing analgesics, antibiotics, anti-inflammatory agents and anxiolytics.</li> </ul>			
* LIA	By the end of the Operative OPD rotation the student should be able to:  > Develop a treatment plan consisting of appropriate endodontic and pharmacologic strategies for managing pain, anxiety, and infection.  > Write down a prescription for pain and infection control in patients presenting with endodontic pain.  > Write a reference letter to physician.		Tutorial/Small Group Discussion	TDV

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Lecture Topic	Learning Objectives	Mode	of Teaching	- Assessment Tools
reciole topic	Leaning Objectives	Lectures	Clinical	Assessment tool
Restoration of	Differentiate between endodontically	Lecture		Class Participation
Endodontically Treated	treated teeth from vital teeth.	(3)		Final Examination
Tooth	Explain the importance of coronal seal.	TBL (1)		
	Illustrate options available for restoring			
	endodontically treated teeth.			
	Explain ferrule effect.			
	Describe indications of post placement in			
	anterior and posterior teeth.			
	Describe Nayyar Core.			
	Classify post according to their			
	characteristics.			
	Describe ideal dimensions of a post.			
	Describe common post systems, their			
	advantages and disadvantages.			
	Describe the method of placement of	1		
	prefabricated and cast post.			
	Discuss core materials and their placement.			
	Discuss complications that can occur during			
	placement of post.			







Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment took
Nonsurgical Endodontic Retreatment	<ul> <li>State rationale of endodontic retreatment and indication.</li> <li>Discuss the alternatives to endodontic retreatment.</li> </ul>	Lecture (2)		Class Test Class Participation Final Examination
	<ul> <li>Explain technique of accessing root canal through extra coronal restorations.</li> <li>Explain technique of removing crown and posts.</li> </ul>			
	<ul> <li>Discuss various types of canal obstructions and their management.</li> <li>Explain the techniques for guttapercha removal.</li> </ul>	GIN		
	Explain the role of intra-canal medicament in retreatment.		a l	
Endodontic Surgery	<ul> <li>Justify the need of endodontic surgery alone or in combination with nonsurgical root canal therapy.</li> </ul>	Lecture (4)		Class Participation Final Examination
	<ul> <li>Describe situations when endodontic surgery is contraindicated.</li> <li>Define the terms:</li> </ul>			
	i) Incision for drainage, ii) Apical curettage, iii) Root-end resection,			
	iv) Root-end preparation v) Root-end filling, vi) Root amputation, vii) Hemisection, viii) Bicuspidization.			
	<ul> <li>Discuss indications and steps for the above mentioned procedures.</li> <li>State principles of flap design.</li> </ul>	,		5
	<ul> <li>Illustrate various flap designs.</li> <li>Describe in brief procedures involved in</li> </ul>			
	<ul> <li>periradicular surgery.</li> <li>Explain prognosis of endodontic surgical cases.</li> </ul>			

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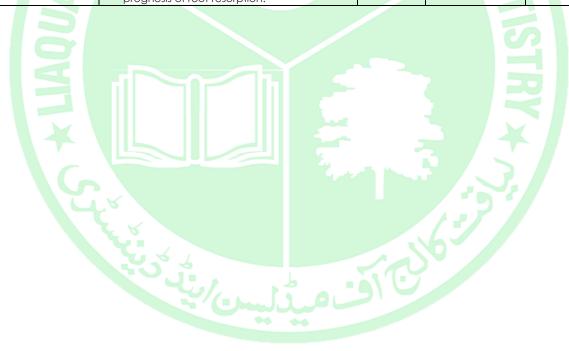


CO	DURSE TOPIC: MANAGEMENT OF TR	AUMATIC	DENTAL INJUR	IES	
Locturo Topic	Lograina Objectives	Mode	of Teaching	Assessment Tools	
recipie tobic	Leaning Objectives	Lectures	Clinical	Assessifietii 100is	
MANAGMENT OF TRAUMATIC DENTAL INJURIES	Describe the clinical and radiographic features of	Lecture (3) TBL (1)	Clinical	Quiz Class Participation Final Examination	
	<ul> <li>patients.</li> <li>Interpret findings of various types of traumatic injuries in clinical settings.</li> <li>Diagnose pulpal and periapical status in patients with traumatic injury to teeth based</li> </ul>				
	<ul> <li>on history, clinical and radiographic examination.</li> <li>Formulate treatment plan for the patient coming with traumatic dental injuries.</li> <li>Counsel patients about procedure and prognosis of treatment.</li> <li>Take an informed consent before any treatment.</li> </ul>		Tutorial/ Small Group Discussion(CBL)	Mini CEX / DOPS	





	COURSE TOPIC: ROOT	T	of Teaching	
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment Tools
ROOT RESORPTION	Define the following types of root resorption.  i) External inflammatory resorption ii) External cervical resorption.  Describe the etiology and pathogenesis of i) External inflammatory resorption iii) External cervical resorption iii) Internal root resorption.  Describe the clinical and histological features of i) External inflammatory resorption iii) External cervical resorption iii) External cervical resorption iii) External root resorption.  Describe the management of.  i) External inflammatory resorption iii) External cervical resorption iii) External root resorption iii) External root resorption iii) External root resorption.  Explain the follow-up and	Lecture (1)	Similedi	Class Participation Final Examination







	COURSETOPIC: LONGITUDINAL	. тоотн	FRACTURES	
Lecture Topic	Learning Objectives	Mode	of Teaching	- Assessment Tools
Lecture ropic	Learning Objectives	Lectures	Clinical	Assessment tools
Longitudinal Tooth Fractures	<ul> <li>Differentiate among thefollowing:         <ol> <li>Craze line,</li> <li>Cusp fracture,</li> <li>Cracked tooth,</li> <li>Split tooth,</li> <li>Vertical root fracture.</li> </ol> </li> <li>List the causes of varioustypes of longitudinal tooth fracture, mentioned above.</li> <li>Describe symptoms and clinical features of fracture tooth.</li> <li>Discuss the treatment, prognosis</li> <li>and prevention of a crack/ fracture at various levels.</li> <li>By the end of the Operative OPD rotation the student should be able to:</li> <li>Diagnose longitudinal tooth fractures in patients based on history, clinical and radiographic examination.</li> </ul>	Lecture (2)	Tutorial/ Small Group Discussion(CBL) On patient	Quiz Class Participation Final Examination Mini CEX / DOPS

COURSETOPIC: ENDODONTIC AND PERIODONTAL INTER RELATIONSHIP									
Lecture Topic	Learning Objectives	Mode	of Teaching	- Assessment Tools					
Lectore Topic	Learning Objectives	Lectures	Clinical	Assessifielli 100is					
Endodontic and	Describe possible paths of communication	Lecture		Quiz					
Periodontal Inter	between pulpal and periodontal tissue.	(1)		Class Participation					
Relationship	Classify endodontic-periodontal lesions.	Flip Class		Final Examination					
	Differentiate between lesions of endodontic	Room (1)							
	or periodontal origin based on clinical,								
	radiographic and histopathological features.								
	Justify treatment options of endodontic and	111							
	periodontal lesions.	51							





COURSETOPIC: INDIRECT RESTORATIONS									
La akura Tania	Lagraina Objectives	Mode o	f Teaching	Accessment To ale					
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment Tools					
Review of Restorative Materials	<ul> <li>Discuss the composition, properties, merits and shortcomings of materials used for indirect restorations:</li> <li>I. Metals,</li> <li>II. Ceramics.</li> </ul>	Lecture (2)		Quiz Class Participation Final Examination					

COURS	ETOPIC: PARTIAL COVERAGE	INDIREC	T RESTORAT	TIONS
Loctura Tania	Lograina Objectives	Mode	of Teaching	Assessment Tools
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment tools
Partial Coverage Indirect Restorations	<ul> <li>List         <ol> <li>Various partial and full coverage indirect restorations.</li> <li>Materials available for fabrication of these restorations,</li> <li>Materials that are used for cementation.</li> </ol> </li> <li>Explain the principles of tooth preparation for indirect restorations.</li> <li>Discuss the indications and contraindications for provision of:</li></ul>	Lecture (2)		Quiz Class Participation Final Examination





COURSETOPIC: PORCELAIN VENEERS										
Lockura Tania	La graina Objectives	Mode	of Teaching	Assessment Tools						
Lecture Topic	Learning Objectives	Lectures Clinical		Assessment tools						
Porcelain Veneers	<ul> <li>List indications and contraindications for veneers.</li> <li>Describe the diagnostic procedures involved in treatment planning of veneers.</li> <li>Justify the importance of quality and quantity of enamel for predictable bonding.</li> <li>Discuss tooth preparation, soft tissue management and impression making for veneers.</li> <li>Explain methods of temporization after veneer preparation.</li> <li>Describe step by step procedure of veneer placement.</li> <li>Describe the importance of silane coupling agent and hydrofluoric acid in bonding of porcelain veneer.</li> <li>Identify techniques for intra oral repair of indirect restorations.</li> </ul>	Lecture (2)	1.00	Class Test Class Participation Final Examination						

Lecture Topic  Learning Objectives  Lectures  Lectures  Clinical  Lectures  Closs Test Closs Participation  i. Porcelain jacket crown, ii. Porcelain fused to metal crown, iii. All metal crown, ii. Porcelain fused to sate selection.  Describe the clinical assessment required and the steps of preparation for: i. Porcelain lacket crown, iii. All metal crown, iii. Porcelain fused to metal crown, iii. Porcelain fused to sate shade matching.  Explain various methods of shade selection.  Describe the clinical assessment required and the steps of preparation for: i. Porcelain jacket crown, iii. Porcelain fused to metal crown, iii. Porcelain											
Lecture Topic   Learning Objectives   Lectures   Clinical	COU	RSETOPIC: FULL COVERAGE IN	DIRECT	RESTORATIO	ONS						
Full Coverage Indirect   Restorations   Lectures   Lectures   Lectures   Class Test											
Full Coverage Indirect Restorations    Lecture   Lecture   Lecture	Locture Tenic	Lograing Objectives	Mode	of Teaching	Assessment Tools						
Restorations  i. Porcelain jacket crown, ii. Porcelain fused to metal crown, iii. All metal crown, iv. All ceramic crown.  Describe factors influencing shade selection.  Discuss guidelines for accurate shade matching.  Explain various methods of shade selection. Describe the clinical assessment required and the steps of preparation for: i. Porcelain jacket crown, ii. Porcelain fused to metal crown, iii. All metal crown, iv. All ceramic crown.  Ist materials available for these restorations. i) Porcelain fused to metal crown, iii) All ceramic crown.  Sustematerials available for these restorations. i) Porcelain fused to metal crown, iii) All ceramic crown.  Bissue management and impression making for full coverage restorations.  State the clinical steps for tooth preparation for full coverage restorations  Elaborate laboratory steps for full coverage indirect restorations.  Describe the clinical procedure for cementation of full coverage indirect restoration.	Lecture Topic		Lectures	Clinical	Assessifielli 100is						
112		<ul> <li>i. Porcelain jacket crown,</li> <li>ii. Porcelain fused to metal crown,</li> <li>iii. All metal crown,</li> <li>iv. All ceramic crown.</li> <li>&gt; Describe factors influencing shade selection.</li> <li>&gt; Discuss guidelines for accurate shade matching.</li> <li>&gt; Explain various methods of shade selection.</li> <li>&gt; Describe the clinical assessment required and the steps of preparation for: <ul> <li>i. Porcelain jacket crown,</li> <li>ii. Porcelain fused to metal crown,</li> <li>iii. All metal crown,</li> <li>iv. All ceramic crown.</li> </ul> </li> <li>&gt; List materials available for these restorations.</li> <li>i) Porcelain fused to metal crown,</li> <li>iii) Porcelain fused to metal crown,</li> <li>iii) All metal crown</li> <li>iv) All ceramic crown.</li> </ul> <li>&gt; Discuss soft tissue management and impression making for full coverage restorations.</li> <li>&gt; State the clinical steps for tooth preparation for full coverage restorations</li> <li>&gt; Elaborate laboratory steps for full coverage indirect restorations.</li> <li>&gt; Describe the clinical procedure for cementation of full coverage indirect restoration.</li> <li>&gt; Discuss the latest innovations including CAD-</li>			Class Participation Final Examination						





CAM technology  By the end of Operative OPD rotation final year student would be able to:	Tutorial/ Small Group Discussion
Demonstrate the tooth preparation for crown on phantom/extracted teeth/patients.	On phantom head /
Prepare anterior and posterior teeth (on phantom head/extracted) for full-coverage Porcelain-fused to metal crown and all ceramic crowns	Extracted Tooth

### COURSETOPIC: IMPLANT SUPPORTED RESTORATIONS **Mode of Teaching Lecture Topic Learning Objectives Assessment Tools** Clinical Lectures Implant Supported **Discuss** indications and contraindications of Lecture Class Test Restorations Class Participation implant supported restorations. (2) **Describe** various implant supported Final Examination restorations that can be used for replacement of missing teeth.







### **OPERATIVE DENTISTRY**

### 1<sup>ST</sup> WEEK

### Day 01:

### ORIENTATION

Introduction to OPD

- o Discipline, protocols and ground rules
- o Patient allotment
- Log book and Instruments
- · Practical demonstration of
  - History taking
  - o Extra and intra oral examination
  - o vitality testing (thermal tests and electric pulp test)
  - o PDL probing
  - o Occlusal relations b/w teeth
- Diagnosis and treatment planning.
- Parts of dental unit
- · Patient receiving, seating and chair positioning

### Day 02:

• Instrument identification and uses

- Disinfection and sterilization of instruments
- · Disinfection of dental units
- Method of sterilization, storage and removal from autoclave.
- · Management of needle stick injury
- Cavity preparation on phantom teeth class i and ii

- Learning Patient Counseling
- Patients counsel after clinical mishap.(Breaking Bad News)

### 2<sup>nd</sup>WEEK

### Day 01:

- CARIES
  - Definition
  - Classification
  - o Clinical examination. o Radiographic evaluation

  - o Diagnosis and treatment planning.
  - Choice of filling material according to cavity design
- · Demonstration of calcium hydroxide lining application on class II cavity

- Demonstration Of Preparation And Filling Of Class I/II Cavity With Composite Resin
- · MATRICING:
  - Different types
  - o Parts.
  - o Application.
- · Isolation techniques.
  - o Rubber dam
  - o Parts.
  - o Techniques.
- Application

### Day 03:

- RADIOGRAPHS
- Demonstration of different techniques and their indications along with use of different cone indicators
  - o Bisecting angle technique
  - o Paralleling technique
  - o Bite wing
  - o Slob rule.
  - o Steps of film processing
  - o Identification of different periapicalxrays
  - X ray file.
- · Cavity Preparation And Filling

### Day 04:

• OPD Test





### 3rdWEEK

### Day 01:

- PULPAL AND PERIAPICAL PATHOSIS
  - o Types
  - o Diagnosis
  - o Treatment options
- Feedback Session I

### Day 02:

- LONGITUDINAL TOOTH FRACTURE
  - o History.
  - o Examination.
  - o Investigation diagnosis.
  - Management.
- Cavity preparation and filling

### Day 03:

- Introduction to endodontics
- Endodontic instruments
- Endodontic materials

### Day 04:

OPD Test

### 4thWEEK

### Day 01:

• Endodontic access cavity preparation

### Day 02:

• Cleaning and shaping of root canals

### Day 03:

Obturation of prepared roots

### Day 04:

OPD Test

### 5<sup>th</sup>WEEK

### Day 01:

• Introduction Of Fixed Prosthesis

### Day 02:

• Tooth preparation for crown on phantom/extracted teeth/patients

### Day 03:

- Observing and assisting senior during root canal treatment of multirooted tooth
- Observing and assisting senior during procedure of tooth preparation for crown
- · Cavity preparation and filling
- Root canal treatment on single rooted endoblock, extracted tooth and patient

### Day 04:

OPD Test

### 6<sup>th</sup>WEEK

### Day 01:

- X-ray file discussion
- Spot file discussion

### Day 02:

- Observing and assisting senior during procedure of tooth preparation for crown
- Cavity preparation and filling
- Root canal treatment on single rooted endoblock, extracted tooth and patient.
- Revision
- End of rotation assessment second feedback session II





### DEPARTMENT OF OPERATIVE DENTISTRY/ENDODONTICS FINAL YEAR STUDENT'S RECORD SHEET HISTORY, EXAMINATION, DIAGNOSIS, TREATMENT PLANNING AND CONSENT TAKING

S.No	Date	P.R No.	History	Examination	Pulp Vitality Test Type	Investigation	Diagnosis	Treatment Planning	Consent Taking	Competency level <sup>†</sup>	Grade	Initial
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	*PULP VITALITY TEST TYP	† Competency Level:
1.	Thermal Vitality Test (Tvt)	Have Observed/Assisted And Is Familiar With The Steps
2.	Electric Pulp Tester (Ept)	Can Perform Under Supervision
3.		Can Perform Independently







### DEPARTMENT OF OPERATIVE DENTISTRY/ENDODONTICS FINAL YEAR STUDENT'S RECORD SHEET RESTORATIONS

S. No.	DATE	P.R No.	тоотн#	PATIENT AND OPERATORPOSITION	RUBBER DAM APPLICATION		PRO CEDURE TYPE†	LINING/BASES/ ADHESIVES	MATRICING	INSTRUMENT / MATERIAL SELECTION FOR FILLNG	CONTURING & CARVING	INSTRUMENT SELECTION FOR FINISHING & POLISHING	OCCLUSION	MERCURY DISPOSAL	POST OPERATIVE INSTRUCTIONS	ORAL HYGIENE INSTRUCTION	COMPETENCYLEVELT	GRADE	INITIAL
				P/		TYPE	CLASS	1		1411		5							
					7								V.						
					6									4					
				(															

	*PULP VITALITY TEST TYP	† Competency Level:
1.	Amalgam Restoration (AR)	Have observed/assisted and is familiar with the steps
2.	CompositeRestoration (CR)	Can perform under supervision
3.	PreventiveResin Restoration (PRR)	Can perform independently
4.	Fissure Sealant (FS)	
5.	Core Buildup withoutPost (CB)	
6.	Core Buildup withPost (CPB)	





### DEPARTMENT OF OPERATIVE DENTISTRY/ENDODONTICS FINAL YEAR STUDENT'S RECORD SHEET ENDODONTIC THERAPY

S.No.	DATE	P.R No.	TOOTH#	PATIENT AND OPERATOR POSITION	PERSONAL PROTECTIVE EQUIPMENT	LOCAL ANESTHESIA TYPE	PROCEDURE TYPE+	RUBBER DAMAPPLICATION	INSTRUMENT /MATERIAL SELECTION FOR ACCESS OPENING	WORKING LENGTH (mm)  X- APEX RAY LOCATOR	INSTRUMENT/MATERIAL SELECTION FOR ROOT CANAL PREP	INSTRUMENT /MATERIAL SELECTION FOROBTURATION	POST OPERATIVE INSTRUCTIONS	ORAL HYGIENE INSTRUCTION	COMPETENCY LEVEL†	GRADE	INITIAL
								N									
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	†Procedures type:	*Local Anesthesia Type	† Competency Level:								
1.	Pulpectomy(PECT)	Block anesthesia(BA)	Have observed/assisted and is familiar with the steps								
2.	RCT single rooted tooth (RS)	Infiltration anesthesia (IA)	Can perform under supervision								
3.	RCT multi rooted tooth (RM)	Intrapulpal anesthesia (IP)	Can perform independently								
4.	Emergency chamber opening(ECO)		6								
	opening(ECO)										





### **CLINICAL QUOTA FOR FINAL YEAR BDS**

S. NO	PROCEDURE		COMPETENCY	
		OBSERVE	PERFORM UNDER SUPERVISION	PERFORM INDEPENDENTLY
1.	History taking and informed consent	2	10	
2.	Clinical examination	2	10	
3.	Diagnosis and treatment planning	2	2	
4.	Placement of dental dam	2	5	
5.	Restorations	15	10	10
6.	Vital pulp therapy	5	3	
7.	Single rooted root canal treatment	3	2	







### **CARIES RISK ASSESSMENT FORM**

Caries Risk Assessment Form (Ages >6)

Patient Name: Score	
Score:	9:

Birth Date: Date: Age: Initials:

		Low Risk (0)	Moderate Risk (1)	High Risk (10)	Patient Risk
	Contributing Conditions				
l.	Fluoride Exposure (through drinking water, supplements, professional applications, toothpaste)	Yes	No		
н.	Sugary or Starchy Foods or Drinks (including juice, carbonated or non-carbonated soft drinks, energy drinks, medicinal syrups)	Primarily at mealtimes		Frequent or prolonged between meal exposures/day	
ш.	Caries Experience of Mother, Caregiver and/or Other Siblings (for patients ages 6-14)	No carious lesions in last 24 months	Carious lesions in last 7-23 months	Carious lesions in last 6 months	
IV.	Dental Home: established patient of record, receving regular dental care in a dental office	Yes	No		
	General Health Conditions				
I.	Special Health Care Needs*	No	Yes (over age 14)	Yes (ages6-14)	
II.	Chemo/Radiation Therapy	No		Yes	
III.	Eating Disorders	No	Yes		
IV.	Smokeless Tobacco Use	No	Yes		
٧.	Medications that Reduce Salivary Flow	No	Yes		
VI.	Drug/Alcohol Abuse	No	Yes		
	Clinical Conditions				
l.	Cavitated or Non-cavitated (incipient) Carious Lesions or Restorations (visually or radiographically evident)	No new carious lesions or restorations in last 36 months	1 or 2 new carious lesions or restorations in last 36 months	3 or more carious lesions or restorations in last 36 months	
II.	Teeth Missing Due to Caries in past 36 months	No		Yes	
III.	Visible Plaque	No	Yes		
IV.	Unusual Tooth Morphology that compromises oral hygiene	No	Yes		
٧.	Interproximal Restorations - 1or more	No	Yes		
VI.	Exposed Root Surfaces Present	No	Yes		
VII.	Restorations with Overhangs and/or Open Margins: Open Contacts with Food Impaction	No	Yes		
VIII.	Dental/Orthodontic appliances (fixed or removable)	No	Yes		
IX.	Severe Dry Mouth (Xerostomia)	No		Yes	
				TOTAL:	

Patient Instructions:

ADA American Dental Association®

<sup>\*</sup>Patients with developmental, physical, medical or mental disabilities that prevent or limit performance of adequate oral health care by themselves or caregivers.

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### LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY Mini-Clinical Evaluation Exercise (mini-CEX) Rating Form

50											
Basic Training	Trainee information  Trainee's/Student's name:	2 3	4 Emerge	Case not contain the contain t	essor's p Locatio Other ( cialty : Case (	for that position n: please comple	t year	) :	1 [ w □ that is	2 Mediu	
D <sub>2</sub>	to the trainer/student against w	hat was	/d.ovo.	et of a	i	Vetue	ont is	, the	t was	or of	tarm
, Ka	te the trainee/student against w						ent ir		_		
		Unsati	sfactory	,	Satisfac	ctory		Sur	erior		
								Jup	enoi		Not observed
	Medical interviewing skills	1	2 3	4	5	6	ı	7	8	9	
	Medical interviewing skills     Physical examination skills		2 3			6		7 7			observed
3. Pr	_	1		4	5			7	8	9	observed n/o
3. Pr	2. Physical examination skills	1	2 3	4	5	6		7 7	8	9	n/o n/o
3. Pr	Physical examination skills rofessional qualities/communication	1 1 1	2 3	4 4	5 5	6		7 7 7	8 8	9 9 9	n/o n/o n/o
3. Pr	Physical examination skills refessional qualities/communication     4. Counselling skills	1 1 1	2 3 2 3 2 3	4 4	5 5 5	6 6		7 7 7 7	8 8 8	9 9 9	n/o n/o n/o n/o
3. Pr	Physical examination skills rofessional qualities/communication     4. Counselling skills     5. Clinical judgement	1 1 1 1	2 3 2 3 2 3 2 3	4 4 4	5 5 5 5	6 6 6		7 7 7 7 7	8 8 8 8	9 9 9 9	n/o n/o n/o n/o n/o
	Physical examination skills rofessional qualities/communication     4. Counselling skills     5. Clinical judgement     6. Organisation/efficiency	1 1 1 1	2 3 2 3 2 3 2 3 2 3	4 4 4 4	5 5 5 5 5	6 6 6	aken fo	7 7 7 7 7 7	8 8 8 8 8	9 9 9 9 9	n/o n/o n/o n/o n/o
Time	Physical examination skills refessional qualities/communication     4. Counselling skills     5. Clinical judgement     6. Organisation/efficiency  Overall clinical performance	1 1 1 1	2 3 2 3 2 3 2 3 2 3 2 3 2 3	4 4 4 4	5 5 5 5	6 6 6 6	aken fo	7 7 7 7 7 7	8 8 8 8 8	9 9 9 9 9	n/o n/o n/o n/o n/o n/o
Time	2. Physical examination skills refessional qualities/communication 4. Counselling skills 5. Clinical judgement 6. Organisation/efficiency  Overall clinical performance e taken for observation:  min	1 1 1 1 1 1 LOW	2 3 2 3 2 3 2 3 2 3 2 3	4 4 4	5 5 5 5 5 5 4	6 6 6 6		7 7 7 7 7 7 7	8 8 8 8 8	9 9 9 9 9 9	n/o n/o n/o n/o n/o n/o n/o n/o m/o
Time Asser Train	2. Physical examination skills refessional qualities/communication 4. Counselling skills 5. Clinical judgement 6. Organisation/efficiency  Overall clinical performance e taken for observation:  min  ssor satisfaction using mini-CEX	1 1 1 1 1 1 LOW	2 3 2 3 2 3 2 3 2 3 2 3	2 3 2 3	5 5 5 5 5 4 4	6 6 6 6 Time ta	6	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	8 8 8 8 8 8 8 8	9 9 9 9 9 9 k:	n/o n/o n/o n/o n/o n/o n/o n/o HIGH HIGH
Time Asses Train Data fre	2. Physical examination skills refessional qualities/communication 4. Counselling skills 5. Clinical judgement 6. Organisation/efficiency  Overall clinical performance e taken for observation:  min  ssor satisfaction using mini-CEX nee/Student satisfaction using mini-CEX	1 1 1 1 1 LOW LOW LOW	2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3	2 3 2 3	5 5 5 5 5 5 4 4 4 4 <i>thiable da</i>	6 6 6 6 Time to 5 5 5	6 6 at be pres	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	8 8 8 8 8 8 8 8 8 8	9 9 9 9 9 9 k:	observed  n/o n/o n/o n/o n/o n/o n/o HIGH HIGH Hed reporting.





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### Ratings

**Unsatisfactory** - gaps in knowledge or skills that you would not expect at this level of training. Some concerns about professionalism or patient safety.

**Satisfactory** - what you would expect for a trainee at this level at this stage of their training year. Generally clinically competent and with satisfactory communication skills and professionalism.

Superior - performing well above the level they are at. No concerns about their clinical method, professionalism, organisation, communication etc.

The details below outline the skills associated with each domain in this mini-CEX rating form and the mini-CEX framework.

Please note that not all skills may be examined during each encounter—this is a guide to show what may be observed and rated.

### **Medical Interviewing Skills**

- · Ability to interact with patient
- · Ability to direct questions at key problem
- Ability to use second order of questioning to optimise focus
- Ability to incorporate information from questions with other information
- Ability to identify and respond appropriately to non-verbal cues
- · Ability to retain a range of diagnostic options

### Physical Examination Skills

- Ability to conduct a systematic and structured physical examination
- · Shows sensitivity to patient's comfort and modesty
- Ability to detect abnormal signs when present and weigh the significance of these findings
- · Informs patient
- Ability to focus the examination on the most important components
- Ability to integrate findings on examination with other information to clarify diagnosis

### **Professional Qualities / Communication**

- Shows respect for patient at all times
- Explains as well as asks
- Listens as well as tells
- Conscious of potentially embarrassing or painful components of interaction
- Shows awareness of issues surrounding confidentiality
- Able to adapt questioning and examination to patient's responses

### Counselling Skills

- · Explains rationale for test/treatment
- Addresses the transfer of information in a way which is clear and tailored to the patient's needs
- Able to respond to patient and modify or repeat information in a different way
- Recognises patient's own wishes and gives them priority
- Avoids personal opinion and bias

### Clinical Judgement

- Ability to weigh importance of potentially conflicting clinical data
- Ability to determine best choice of investigations and management
- Ability to relate management options to the patient's own wishes or situation
- Considers the risks and benefits of the chosen management/treatment options
- Ability to come to a firm decision based on available evidence

### Organisation / Efficiency

- Ability to synthesise a collection of data quickly and efficiently
- · Demonstrates appropriate judgement and synthesis
- Demonstrates optimal use of time in collection of clinical and investigational data

Page 2











### **LEARNING OUTCOMES**

	ORTHODONTICS
By the end of Final able to:	Years of BDS Program, the dental graduate will be
Knowledge:	<ul> <li>Identify the branches of orthodontics and evaluate the need of orthodontic problems.</li> <li>Describe different research designs.</li> <li>Describe the concept of normal and abnormal pattern of growth and development of craniofacial complex.</li> <li>Establish a comprehensive diagnosis.</li> <li>Analyze the diagnostic records.</li> <li>Identify the cause of malocclusion.</li> <li>Identify orthodontic problems and its features</li> <li>Formulate a treatment plan.</li> <li>Identify and differentiate different orthodontic appliances.</li> <li>List the biomechanical requirements of different orthodontic appliances and their anchorage requirements.</li> <li>Choose appropriate retention protocol and post treatment stability.</li> </ul>
Skills:	<ul> <li>To perform Steiner's and Down's analysis on the given Cephalometric</li> <li>Radiograph</li> <li>To construct Z-spring, canine retractors, labial bow and Adam's clasp</li> <li>To perform OPG analysis.</li> <li>To perform cast analysis, space analysis and Bolton's analysis.</li> <li>To differentiate between different orthodontics appliances.</li> <li>To construct problem list.</li> <li>To propose treatment plan of different types of malocclusions.</li> </ul>
Attitude:	Work collaboratively with member of a team in classroom and/or laboratory activities



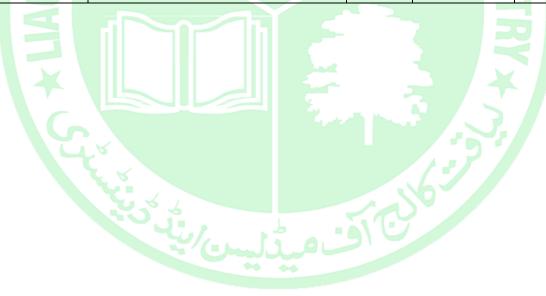


Lecture topic	Topic objectives	Mode	of teaching	Assessment Too
The definitions of orthodontics	By the end of lecture student will be able to:  1. <b>Define</b> orthodontics and its branches  2. Discuss the indications, contraindications	Lecture	Lecture and Small Group Discussion	VIVA     BCQ     OSPE
Branches of orthodontics including serial extractions and space maintainers	and aims of various types of orthodontic treatments  3. Differentiate between different types of treatments i.e	GIA		
Aims and needs for orthodontic treatment  Prevalence of	i) Preventive, ii) interceptive, iii) corrective and iv) surgical treatment  4. Explain the need for orthodontic treatment on the basis of IOTN (Index of Orthodontic Treatment Need) with their			
malocclusion	advantages and disadvantages  5. <b>Define</b> malocclusion			
Advantages and disadvantages of orthodontic treatment				

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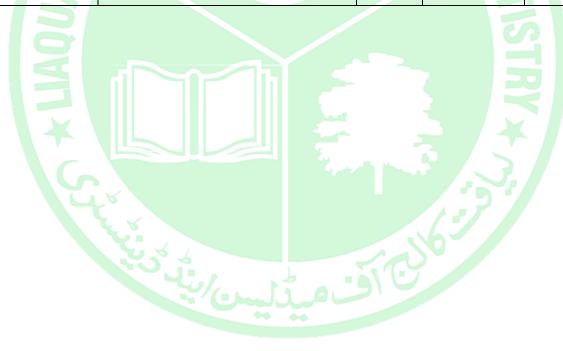

COURS	SE TOPIC: DEVELOPMENT OF D	ENTITIO	N & OCCLU	ISION
Lecture topic	Topic objectives	Mode	of teaching	Assessment Tool
Prenatal development of dentition	By the end of lecture student will be able to:  1. <b>Outline</b> pre-natal development of dentition and features of primary dentition	Lectures	Lecture and small group discussions	BCQ     VIVA     OSPE
Features of primary Dentition	Differentiate between mixed and permanent dentition period     Discuss the dimensional changes occurring in dental arches between mixed		Flipped classroom	
Mixed dentition Period	<ul> <li>and primary dentition period</li> <li>Explain variations in development including size, form, number and position of teeth</li> </ul>	CIA		
Permanent dentition Period	Classify all the factors affecting development of dentition     Describe Nolla's stages of tooth		(P)	
Dimensional changes in Dental Arch	development			
Variations in development including size, form, number and position of teeth				







COURSE TOPIC: BIOLOGY OF TOOTH MOVEMENT				
Lecture topic	Topic objectives	Mode of teaching	Assessment Tool	
Normal structures responsible for tooth movement	By the end of lecture student will be able to:  1. Analyze normal structure and	Lecture Lecture and small group discussions	BCQ     Viva     OSPE	
Effects of orthodontic force	function of periodontal ligament and bone  2. <b>Specify</b> the role of bone in the			
Cellular events associated with orthodontic force	<ul><li>physiological process of eruption and stabilization</li><li>3. Explain the effects of orthodontic force over periodontium</li></ul>	$G_{II}$		
Theories of tooth movement	4. <b>Enumerate</b> all the factors affecting tooth movement	Pol		
Eruption theories				







	COURSE TOPIC: SPACE MANAGEMENT				
Lecture topic	pic Topic objectives		of teaching	Assessment Tool	
Space Management	By the end of lecture student will be able to:  1. <b>Define</b> space maintainer	Lecture	Lecture and small group discussions	BCQ     VIVA     OSPE	
	Enlist the types of space maintainers		Flipped classroom		
	<ul><li>3. Outline the indications of different space maintainers</li><li>4. Discuss the indications of space</li></ul>				
	supervision. 5. <b>Discuss</b> the indications of space regaining.				
/6	6. <b>Compare</b> the indications and contra indications of space maintenance, space supervision				
A	and space regaining.  7. <b>Discuss</b> serial extractions.				
	8. <b>Discuss</b> the indications of serial extractions and its different methods.		0	2	
	9. <b>Discuss</b> the management of habits leading to orthodontic problems			Ġ	





COURSE TOPIC: GROWTH				
Lecture topic	Topic objectives	Mode of teaching		Assessment Tool
Basic concepts and Definitions	By the end of lecture student will be able to:  1. <b>Define</b> growth and development	Lecture	Lecture and small group discussions	BCQ     VIVA     OSPE
Variables Affecting Growth	<ol> <li>Categorize all the factors affecting the craniofacial growth</li> <li>Explain pre-natal and post-natal</li> </ol>		Flipped classroom	
Prenatal and Postnatal Craniofacial Growth	growth of: i) Skull ii) Cranial base iii) Maxillae iv) Mandible	GIN	150	
Methods of studying Growth	4. Classify different methods of studying growth on the basis of physical and experimental methods			
Theories of Growth  Clinical application of	5. <b>Predict</b> stages of growth on the basis of Cervical Vertebral Maturation, hand and wrist radiograph, physical, biological and chronological aspects			
Growth and Development/ Growth predictions using CVM and hand wrist	Describe the etiology and clinical features of different syndromes affecting craniofacial region	3		
Different syndromes effecting craniofacial region	<ul><li>7. <b>Discuss</b> various theories of growth</li><li>8. <b>Discuss</b> the development of Temporomandibular joint.</li></ul>			





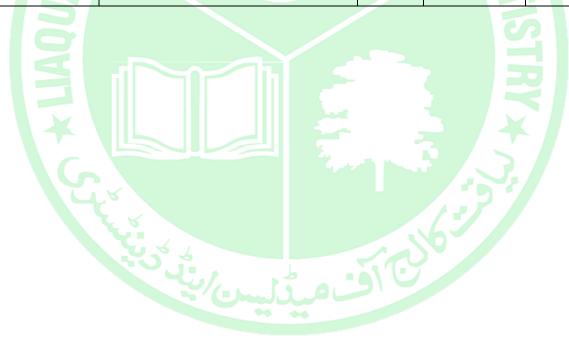
	COURSE TOPIC: CEPHALOMETRICS					
Lecture topic	Topic objectives	Mode	of teaching	Assessment Tool		
Introduction to cephalostat	By the end of lecture student will be able to:  1. <b>Identify</b> cephalostat and its parts.	Lecture	Lecture Demonstratio n in OPD	BCQ     VIVA     OSPE		
Indications for cephalometric evaluation	<ol> <li>Discuss the indications of cephalostat.</li> <li>Demonstrate the procedure of tracing and interpretation of</li> </ol>		rotation  Flipped classroom			
Evaluating cephalometric radiograph.	cephalometric X-ray on the basis of Downs, Stiener's and McNamara analysis.		E 3			
<ul> <li>General points</li> <li>Planes and reference lines</li> <li>Downs and Stiener's analysis</li> <li>Soft tissue analysis</li> <li>Interpretation of cephalometric radiograph</li> </ul>						

COURSE TOPIC: DIAGNOSTIC AIDS, CASE HISTORY AND CLINICAL EXAMINATION				
Lecture topic	Topic objectives	Mode of teaching	Assessment Tool	
History	By the end of lecture student will be able to:  1. Compile different procedures used in orthodontic diagnosis like:  i) Record keeping  ii) History taking	Lecture Lecture, flipped classroom, Demo nstration on patient and on clinical features	BCQ's OSPE VIVA	
Clinical Evaluation	Demonstrate extra and Intra oral examination on the given patient.     Describe the diagnostic importance of various radiograph:	in OPD rotation and small group discussion. Flipped classroom		
Extra oral examination	i) Ceph ii) OPG iii) Occlusal view iv) Periapical view			
Intra oral examination				





COURSE TOPIC: ORTHODONTIC FUNCTIONAL APPLIANCES				
Lecture topic	Topic objectives	Mode	of teaching	Assessment Tool
Removable appliances + Expansion appliances	By the end of lecture student will be able to:  1. Define growth modification treatment 2. List growth modification appliances 3. Discuss the biomechanics of functional appliances and orthopedic appliances 4. Compare the indications and contra indications of all appliances 5. Identify the components of the appliances on the given model	Lecture	Lecture Demonstratio n of Functional Appliances on patient, activation and mechanism of action	BCQ's     VIVA     OSPE







COURSE TOPIC: ORTHODONTIC REMOVABLE & FIXED APPLIANCES				
Topic objectives	Mode	of teaching	Assessment Tool	
y the end of lecture student will be able to:  . Classify removable functional appliances Describe class II and Class III unctional appliances . Discuss concepts, indications, drawbacks, components and accessories of growth modification appliances Discuss the biomechanics of fixed and removable growth modification appliances (Expanders, Facemask and thin cup)  by the end of lecture student will be able to: . Discuss the background of different axed appliances system Discuss the indications, draw backs, components and accessories of fixed appliances Describe various types of wires and arackets used in orthodontics Describe various bonding and banding materials . Discuss orthodontic emergencies and their management (use of wax, liding of wire, poking wire) Describe the following:  • Wire system • Bonding and banding material	Lecture	Lecture Demonstratio n on removable and fixed Appliances, activation and mechanism of action	BCQ'S VIVA OSPE	
	Topic objectives  If the end of lecture student will be ble to:  Classify removable functional appliances.  Describe class II and Class III anctional appliances  Discuss concepts, indications, rawbacks, components and accessories of growth modification appliances.  Discuss the biomechanics of fixed and removable growth modification appliances (Expanders, Facemask and an anin cup)  If the end of lecture student will be ble to:  Discuss the background of different area appliances system.  Discuss the indications, draw backs, amponents and accessories of fixed appliances.  Describe various types of wires and arackets used in orthodontics.  Describe various bonding and anding materials  Discuss orthodontic emergencies and their management (use of wax, ding of wire, poking wire).  Describe the following:  • Wire system	Topic objectives  A the end of lecture student will be ble to:  Classify removable functional ppliances.  Describe class II and Class III inctional appliances  Discuss concepts, indications, rawbacks, components and accessories of growth modification ppliances.  Discuss the biomechanics of fixed and removable growth modification ppliances (Expanders, Facemask and hin cup)  A the end of lecture student will be ble to:  Discuss the background of different and accessories of fixed appliances system.  Discuss the indications, draw backs, amponents and accessories of fixed appliances.  Describe various types of wires and rackets used in orthodontics.  Describe various bonding and anding materials  Discuss orthodontic emergencies and their management (use of wax, ding of wire, poking wire).  Describe the following:  Wire system  Bonding and banding material	Topic objectives  Mode of teaching  If the end of lecture student will be ble to:  Classify removable functional ppliances.  Describe class II and Class III motional appliances  Discuss concepts, indications, rawbacks, components and coessories of growth modification appliances.  Discuss the biomechanics of fixed and removable growth modification oppliances (Expanders, Facemask and nin cup)  If the end of lecture student will be ble to:  Discuss the background of different and appliances system.  Discuss the indications, draw backs, components and accessories of fixed appliances.  Describe various types of wires and rackets used in orthodontics.  Describe various bonding and anding materials  Discuss orthodontic emergencies and their management (use of wax, ding of wire, poking wire).  Describe the following:  Wire system  Bonding and banding material	





COURSE TOPIC: ETIOLOGY OF MALOCCLUSION				
Lecture topic	Topic objectives	Mode of teaching	Assessment Tool	
Specific factors causing malocclusion	By the end of lecture student will be able to:  1. <b>Define</b> i) Cross bite  ii) Rotations	Lecture Lecture and small group discussions  Flipped classroom	BCQ's     VIVA     OSPE	
General factors causing malocclusion	iii) Labioversion iv) Transposition v) Linguoversion vi) Torsiversion vii) Mesioversion	$G/N_{E}$		
Local factors causing malocclusion	viii) Distoversion.  2. <b>Describe</b> the role and effect of Para functional habits in the development of malocclusion  3. <b>Explain</b> the local, general and environmental factors leading to	GO III		
Environmental factors causing malocclusion	malocclusion  4. Classify malocclusion according to Angle's, Moyer's, Ackerman Proffit's and Andrew's classification.		CHD	
\ <b>C</b>	<ul><li>5. <b>Discuss</b> the following syndromes/conditions:</li><li>1 Treacher-Collins;</li></ul>	S		
	<ol> <li>- Pierre-Robin Syndrome;</li> <li>- Ectodermal Dysplasia;</li> <li>- Down's Syndrome;</li> </ol>	65		
	5 Cleido-cranial Dysplasia;	310		
	<ul><li>6 Hemifacial Microsomia;</li><li>7 Achondroplasia.</li></ul>			
	8 Crouzon and Apert Syndrome			
	9 Fetal alcohol syndrome			





COURSE TOPIC: ERUPTION THEORIES				
Lecture topic	Topic objectives	Mode	of teaching	Assessment Tool
Basic concepts and Definitions	By the end of lecture student will be able to:  9. Classify different eruption theories.  10. Describe different eruption theories.	Lecture	Lecture and Small Group Discussion	• VIVA • BCQ • OSPE

COURSE TOPIC: THEORIES OF TOOTH MOVEMENT				
Lecture topic	Topic objectives	Mode	of teaching	Assessment Tool
	By the end of lecture student will be	Lecture	Lecture and	• VIVA
	able to:		Small Group	• BCQ
Basic concepts			Discussion	• OSPE
and Definitions	<ol> <li>Classify different theories.</li> </ol>			
	2. <b>Describe</b> different theories of			
	tooth movement			
	<ul> <li>Pressure Tension theory</li> </ul>			9
	<ul> <li>Fluid dynamic theory</li> </ul>			
	<ul> <li>Bone bending theory</li> </ul>			
<b>*</b>		1		

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Lecture topic	Topic objectives	Mode of teaching		Topic objectives Mode of teaching Ass	Assessment Tool
Basic concepts of Force, moment, moment arm and couple	By the end of lecture student will be able to:  1. <b>Summarize</b> the structure and function of PDL.	Lecture	Lecture and small group discussions	BCQ     OSPE     Viva	
Center of resistance	Classify various types of wires and alloys used in orthodontics on the basis of material				
Center of rotation	<ol> <li>Compare different types of alloys used in orthodontic brackets and wires.</li> </ol>	GIN			
Orthodontic Materials	<ul> <li>4. List the orthodontic arch wire materials</li> <li>5. Discuss the ideal properties of orthodontic wires</li> </ul>		G D		
Effects of force and its effects on periodontium.	<ul><li>6. Outline the effects of different orthodontic forces on tooth.</li><li>7. State the deleterious effects of orthodontic treatment</li></ul>				





COURSE TOPIC: TOOTH MASS AND SIZE ANALYSIS				
Lecture topic	Topic objectives	Mode	of teaching	Assessment Tool
Cast analysis and space analysis of mixed dentition	By the end of lecture and demo in OPD student will be able to:  1. <b>Determine</b> tooth size discrepancies on 5 models.  2. <b>Perform</b> cast, space, Bolton & mixed dentition analysis on 5 models.	Lecture	Lecture, Demonstratio n on cast in OPD	BCQ     VIVA     OSPE

		- ~ \			
COURSE TOPIC: ANCHORAGE IN ORTHODONTICS					
Lecture topic	Topic objectives	Mode of teaching	Assessment Tool		
Assessing anchorage requirements  Classification of anchorage  Intra-oral anchorage  Extra-oral anchorage	By the end of lecture student will be able to:  1. Define Anchorage 2. Explain the role of anchorage in orthodontic treatment 3. Distinguish different types of anchorage on the basis of tooth movement 4. Summarize management of anchorage.	Lecture and small group discussions  Flipped Classroom	BCQ's OSPE Viva		
Monitoring anchorage during treatment  Common problems with anchorage	اميدليس الماليات	510			





COURSE TOPIC: TREATMENT PLANNING				
Lecture topic	Topic objectives Mode of teach	ing Assessment Tool		
Treatment objectives	By the end of lecture student will be able to:  Lecture Demon no formula to be able to:  1. List the treatment objectives of formula to be able to:	ostratio OSPE  • VIVA		
Management of Class I malocclusion	the given case  2. Formulate problem list of 5 cases.  3. Formulate treatment plan of 5  treatment plan of 5	blem ind		
Management of Class II malocclusion	cases.  4. <b>Distinguish</b> various types of Nonskeletal and skeletal problems case which include:	rent		
Div I	i) Class I malocclusion ii) Class II Div I and Div II iii) Class III			
Management of Class III malocclusion	iv) Crowding v) Spacing vi) Cross bite			
Management of open bite	vii) Open bite viii) Deep bite ix) Extractions			
Management of Cross bite	5. <b>Summarize</b> various extraction patterns in orthodontic treatment of class I, II and III malocclusions	*		
Problem List	6. <b>Discuss</b> the adjunctive treatment goals and principles for the management of malocclusion	7.		





COURSE TOPIC: ORTHOGNATHIC SURGERY					
Lecture topic	Topic objectives	Mode of teaching		Assessment Tool	
Orthognathic Surgery	By the end of lecture student will be able to:  Define the following:  Principles of Orthognathic surgery Class II surgical treatment options Class III surgical treatment options Indications and contraindications.	Lecture	Lecture, Demonstration of formulation problem list on different cases	BCQ VIVA OSPE	





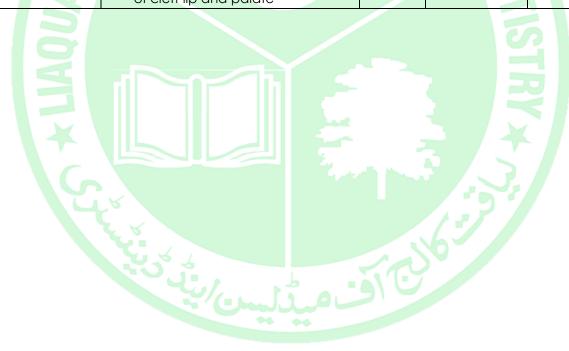


COURSE TOPIC: RETENTION AND RELAPSE (SEMESTER II)				
Lecture topic	Topic objectives	Mode	of teaching	Assessment Tool
Ecture topic  Factors responsible for relapse	By the end of lecture student will be able to:  1. Define retention and relapse 2. Explain occlusal stability and factors related to retention 3. Discuss strategies for prevention of relapse in different malocclusions like:  i) Class I malocclusion  ii) Class II Div I and Div II (Growing and non-growing)  iii) Class III (Growing and non-growing)  iv) Crowding  v) Spacing  vi) Cross bite  vii) Open bite  viii) Deep bite  4. List indications and contra indications of different retention appliances  5. Discuss various strategies of	Lecture	Lecture and small group discussions	BCQ     VIVA     OSPE
15	management of patients during and after orthodontic treatment			





COURSE TOPIC: CLEFT LIP AND PALATE (SEMESTER II)					
Lecture topic	Topic objectives	Mode of teaching	Assessment Tool		
Introduction and etiology of cleft lip and palate	By the end of lecture student will be able to:  1. <b>Define</b> cleft lip and palate 2. <b>State</b> various genetic and	Lecture Lecture and small group discussions	BCQ VIVA OSPE		
	environmental causes of cleft lip and palate  3. <b>Discuss</b> the etiology, clinical features, general and orthodontic management of cleft lip and palate  4. <b>Describe</b> the referral pathways  5. <b>Discuss</b> multidisciplinary	G/// (C)			
4	approach and the role of orthodontist in the management of cleft lip and palate				







ADULT ORTHODONTICS AND PERIODONTAL CONSIDERATIONS					
Lecture topic	Topic objectives	Mode of teaching		Assessment Tool	
Introduction and etiology of cleft lip and palate	By the end of lecture student will be able to:  1. Discuss anatomy, etiology, clinical	Lecture	Lecture and small group discussions	BCQ     VIVA     OSPE	
Anatomy of Periodontal Structures	features of periodontal diseases.  2. Classify periodontal diseases.  3. Discuss role of orthodontist in		Flipped classroom		
Etiology and Clinical Features of Periodontal Diseases	management of periodontal Diseases				
Minor adjunctive Procedures in Orthodontics Clear aligner therapy				TOT	
Orthodontic management of Periodontal diseases				DV	





COURSE TOPIC: IATROGENIC EFFECTS OF ORTHODONTIC TREATMENT								
Lecture topic	Topic objectives	Mode	of teaching	Assessment Tool				
latrogenic Effects of Orthodontic Treatment	By the end of lecture student will be able to:  1.Identify iatrogenic effects of orthodontic treatment	Lecture	Lecture and small group discussions	BCQ     VIVA     OSPE				







	COURSE TOPIC: DENTAL RADIOLOGY									
Lecture topic	Topic objectives Mode of te		of teaching	Assessment Tool						
Dental radiology	By the end of lecture student will be able to:  1. <b>Describe</b> the roentgen anatomy of teeth, jaws, and TMJ	Lecture	Lecture and small group discussions	BCQ     VIVA     OSPE						
147	2. Describe variations in normal limits and abnormalities  3. Discuss proper patient positioning while taking the cephalometric radiograph  4. Explain radiation hazards  5. Discuss the advantages and indications of CBCT (Cone Beam Computer Tomography).									







CLINICAL ROTATION PRACTICAL DEMONSTRATION CIRRICULUM							
Lecture topic	Topic objectives	Mode of teaching	Assessment Tool				
History and examination	At the end of the demo student must be able to:  1. Chart proper history of patient.  2. Demonstrate intra oral and extra oral examination on patient	Demonstration on pictures and on patient	• OSPE				
Cephlometric  Cephalostat and landmarks Cephalometric tracing and planes Cephalometric analysis Interpretation	At the end of the demo student must be able to:  1. Perform 5 Steiner and Down's cephalometric analysis on the given cephalometric radiograph.  2. Analyze the traced cephalograms of at least 05 patients complaining of orthodontic problems following the recommended steps;  Cephalometric analysis, Sagittal analysis, Vertical analysis, Dental analysis, Soft tissue analysis	Demonstration on Cephalometric radiograph	OSPE VIVA BCQ				
Wire Bending Z- spring Canine retractor Labial bow Adams Clasp Hawley's retainer Cantilever	At the end of the demo student must be able to:  1. <b>Outline</b> indications and components of Z-spring, Labial bow, Adam's clasp, Hawley's retainer, cantilever and canine retractor.  2. <b>Construct</b> 5 appliances each	Demonstration on 0.5mm and 0.7mm wire	• OSPE				





Clinical procedures	<b>Execute</b> simple orthodontic treatment procedures:		•
	<ul> <li>Identify orthodontic materials and instruments</li> <li>Identify different type of wires used in orthodontics</li> <li>Insert and adjust active removable appliances to move a single tooth or to correct a cross bite, insert/adjust or remove different types of removable retainers, insert, adjust or remove a wire, ligature and separator.</li> </ul>		
Radiographic Analysis	At the end of the demo student must be able to:  1. <b>Perform</b> OPG analysis of 5 patients  2. <b>Identify</b> relevant anatomical structures and landmarks on OPG, lateral ceph  3. <b>Identify</b> occlusal radiograph.	Demonstration on Orthopantogram and on occlussal view	• OSPE
Cast Analysis	At the end of the demo student must be able to:  1. <b>Perform</b> cast analysis of 5 patients	Demonstration on cast	OSPE BCQ'S
Space Analysis	At the end of the demo student must be able to:  1. <b>Perform</b> space analysis and Bolton's analysis of 5 patients	Demonstration on cast	OSPE    BCQ'S
Space maintainer	At the end of the demo student must be able to:  1.Outline indications and components of different space maintainers.	Demonstration on cast and on patient	• OSPE
Separator	At the end of the demo student must be able to:  1.Perform separator placement.	Demonstration on typodont and patient.	• OSPE
Banding	At the end of the demo student must be able to:  1.Perform band placement.	Demonstration on typodont and patient	• OSPE





Bonding	At the end of the demo student must be able to:  1. Outline the bracket placement techniques.	Demonstration on typodont and patient	• OSPE
Hawley retainer	At the end of the demo student must be able to:  1.Outline indications and components of Hawley retainer.	Demonstration on cast and patient	• OSPE
Appliances	At the end of the demo student must be able to:  1. List functional appliances  2. Discuss the mode of action of functional appliances  3. Illustrate concepts of growth modification treatment  4. Compare functional appliances and orthopedic appliances for growth modification  5. List the indications and contra indications of all appliances  6. Identify the major components of all appliances  7. Identify all functional appliances	Demonstration on Functional Appliances, activation and mechanism of action	OSPE BCQ's VIVA
Problem List	At the end of the demo student must be able to:  1. <b>Construct</b> problem list of 5 patients	Demonstration of formulation of problem list on different cases	• OSPE
Treatment planning	At the end of the demo student must be able to:  1. Propose treatment plan of 05 patients  2. Justify retention plan for at least 01 patient presenting with orthodontic problem.	Demonstration of making treatment plan on different cases	OSPE BCQ's





### **CLINICAL ROTATION**

### 1st WEEK

- Introduction to OPD
  - o Discipline, protocols and ground rules
  - Patient allotment
- Log book Guidance
- History & Clinical Examination (Intraoral, Extraoral)
- Introduction of Cephalostat
- Identification of Cephalometric landmarks
- Cephalometric tracing.
- Execution of simple orthodontic procedures

### **2NDWEEK**

- Cephalometric planes and analysis.
- Cephalometric planes and analysis
- Wire bending (Adam's Clasp)
- OPG interpretation

### 3RDWEEK

- Cast analysis and interpretation
- Bolton's analysis
- Demonstration of wire bending
  - o Labial bow)
  - o Canine retractor
- Demonstration of space analysis

### 4THWEEK

- Demonstration of mixed dentition analysis
  - o Tanaka and Jhonston analysis
  - Huckaba analysis
- Demonstration of wire bending
  - Z spring
- Demonstration of separator placement
- Demonstration of molar band placement

### 5THWEEK

- Identification and indications of Hawley retainer
- Demonstration of functional appliances
  - Identification
  - Indications
  - Components
  - Effects
- Demonstration of bonding

### 6™WEEK

- Demonstration of space maintainers
  - Identification
  - Indications
  - Contraindications
  - o Placement on cast
  - o Adjustment on cast
  - Demonstration of space maintainers
- Problem list

### **7**THWEEK

- Treatment planning
  - Growing patients
  - Growth modification
  - Non-growing patients
  - Camouflage
  - Orthognathic surgery

### BTHWEEK

- Revision
- End of rotation assessment
- Feedback session II

### TEST BASED ON CLINICAL SCENARIOS AND OSCES EVERY THURSDAY





### **FEEDBACK FORM**

### **PRACTICAL DEMONSTRATION**

BDS Professio	n <u>:</u>	(	Group:		Date: _		
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Clinical skills							
Teaching skills							
Commen	ts:						



# LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION COLLEGE OF DENTISTRY DEPARTMENT OF ORTHODONTICS



### FACILITATOR EVALUTAION FORM

DATE: NAME OF FACILITATOR:					
Tick the appropriate box	Unaccepta ble	Needs work	Good	Excellent	Outstanding
CE OF IVIEUICA	ວ <u>໑</u> 1				
Topic of lecture:		2	3	4	5
Topics were relevant and according to	-0				
curriculum	45				
Completion of curriculum					
Enthusiasm of the lecturer	4		$\mathbf{A}$		
Interaction with audience					
Spoke clearly and audibly			2 1		
Had thorough knowledge of subject			5		
Used case-based methods: related content to					
current evidence and research					
Handled questions appropriately and satisfies the audience			V		
Quality of audiovisual aids		7	- /		
What are the two good things about the lecturer?		3.			
What are the two things you want the lecturer to im	prov	e?			

OVERALL RATING OF LECTURER (1-5)





### Mini-Clinical Evaluation Exercise (Mini-CEX) Rating Form

### **Trainee Information**

Traine	e/:	student's name:			Da	te of A	Assessr	nen	t:		/	_/_		
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### SCORE CARD

EXAM	GROUP	DATE:
	GNOUI	DAIL.

Roll No.	Student Name	OSCE	Wire Bending	Internal Evaluation	Total	Remarks
				Y	2	







### **OPD GUIDELINES FOR STUDENTS**

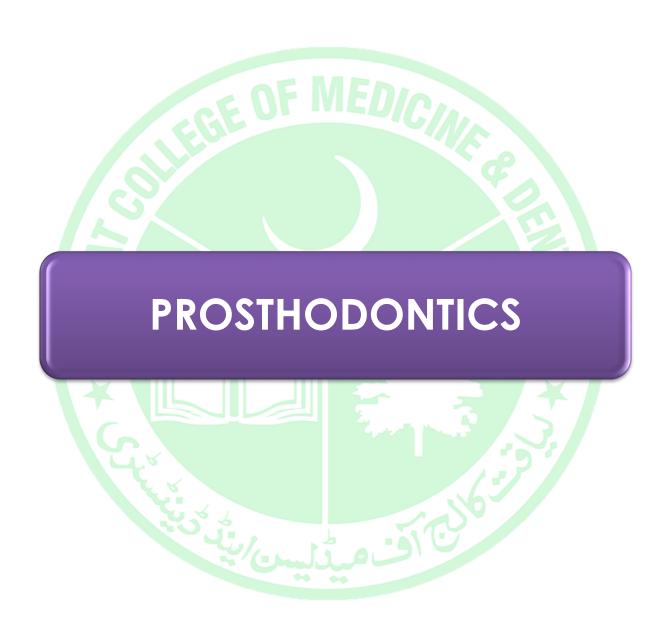
- > All Students must wear white lab coat with ID- Cards
- > Dressing should be culturally and socially acceptable
- Hair should be properly set and tied up
- Students are not allowed to roam around in the college in their spare time
- Students are advised not to talk loudly in the corridor/classes/lab/wards/OPD
- Use of mobile phone during classes/lab/wards/test/examination is strictly prohibited

### **RULES AND SAFETY GUIDELINES FOR ORTHODONTIC LABORATORY**

- Never operate machine without training.
- Never work with loose hair, jewelry etc.
- Never use machine when impaired.
- > Never work without proper eye protection.
- > Never bring hands close to sharp objects.
- Never leave your work area in a mess
  Never wear gloves while working on rotating equipment.











### **LEARNING OUTCOMES**

	PPOCHADONTICS
	PROSTHODONTICS
By the end of Final Yeal	ears of BDS Programme, the dental graduate will be
Knowledge:	<ul> <li>Define Prosthodontics</li> <li>Differentiate different branches of Prosthodontics and their application in everyday life.</li> <li>Comprehend effect of prosthetic replacement on the quality of life of an individual.</li> <li>Appreciate the implications of not addressing tooth loss at an appropriate time.</li> <li>Enumerate the difference between sub-specialties of prosthodontics.</li> <li>Compose proper treatment plan with respect to the needs and affordability of patients.</li> </ul>
Skills:	<ul> <li>Explain and practice clinical procedures to make a complete denture.</li> <li>Explain and practice lab procedures to make a complete denture.</li> <li>Explain and practice clinical procedures to make a partial denture.</li> <li>Explain and practice lab procedures to make a partial denture.</li> <li>Explain and practice clinical procedures to make a fixed partial denture.</li> <li>Explain lab procedures to make a fixed partial denture.</li> <li>Explain and practice clinical procedures for special impression techniques.</li> </ul>
Attitude:	<ul> <li>Observe hygienic dental practice in the prosthetic laboratory and follow proper procedures and regulations for safe use of materials and disposal of waste.</li> <li>Collaborate with members of a team in a classroom and/or laboratory activities.</li> <li>Work collaboratively in a group setting.</li> <li>Display leadership by keeping the team on task, while listening carefully to the ideas of others.</li> <li>Act swiftly in case of emergency.</li> <li>Follow the leadership of the supervisor.</li> <li>Display empathy towards patients.</li> <li>Accept responsibility of any mistake and take effective measures to correct it.</li> </ul>





	COURSE TOPIC: COMPL	ETE DEN1	TURE		
Lecture Topic	Learnina Obiectives		of Teaching	Assessment Tools	
Lecture Topic Introduction to Prosthodontics  Anatomy and physiology of complete denture	Learning Objectives  1. Define Prosthodontics 2. List branches of Prosthodontics 3. Define  i) Conventional denture ii) Immediate denture iii) Over-denture iii) Over-denture iv) Single complete denture v) Implant supported complete denture  4. Describe reasons for tooth loss 5. Identify surfaces of the complete denture on a given model.  1. Discuss the clinical importance of extra oral landmarks 2. Identify on picture i) Interpupillary line ii) Ala-tragus line iii) Canthus tragus line iii) Canthus tragus line iv) Nasio-labial sulcus v) Vermillion border vi) Philtrum vii) Modiolous viii) Angle of the mouth. 3. Identify intraoral landmarks of prosthetic importance on ideal model of maxilla i) Residual ridge ii) Maxillary tuberosity iii) Palate iv) Midpalatine raphe v) Incisive papilla vi) Palatine rugae vii) Torus palatinae ix) Post palatal seal x) Hamular notch	1		Class Participation  Term and final examination	
	xi) Cuspid eminence xii) Zygomatic process  4. <b>Discuss</b> intraoral landmarks of prosthetic significance for fabrication of mandibular complete denture.  i) Residual ridge ii) External oblique ridge				



### LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION



### **COLLEGE OF DENTISTRY**

	COLLEGE OF DENTISTRI
	iii) Buccal shelf area
	iv) Mental foramen
	v) Retromolar pad area
	vi) Mylohyoid ridge
	vii) Torus mandibularis
	viii) Internal oblique ridge
	ix) Genial tubercle
Peripheral tissue	1. Identify the border structures Lecture Class
attachment of	that limit the periphery of the Practical Participation
denture bearing	denture in maxilla in the given
area/	model
Biological	i) Labial frenum Term and final
considerations for	ii) Labial vestibule examination
impression.	iii) Buccal frenum
	iv) Buccal vestibule
	vi) Posterior palatal seal
	area
	vii) Fovea palatinae
	2. <b>Identify</b> structures border
	structures that limits the
	periphery of the denture in
	mandible
	i) Labial frenum
	ii) Labial vestibule
	iii) Buccal frenum
	iv) Buccal vestibule
	v) Lingual frenum
	vi) Alveolo-lingual sulcus
	vii) Retromolar pad
	viii) Pterygo-mandibular
	raphae.
Physical and	1. <b>Define</b> esthetics, mastication Lecture Class
Biomechanical	and speech Participation
Considerations	2. Classify residual alveolar ridge
(Retention)	according to Atwood's
	classification Term and final
	3. <b>Describe</b> pattern of resorption examination
	and masticatory loads in
	mandible
	4. <b>Define</b> retention in complete
	denture
	5. <b>Describe</b> primary factors
	affecting the degree of
	i. Retention
	ii. Adhesion
	iii. Cohesion
	iv. Interfacial surface tension
	v. Atmospheric pressure
	vi. Capillarity
	vii. Gravity
	6. <b>Describe</b> factors affecting the
	physical forces in primary retention
	i) Quality of saliva



### LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION



### **COLLEGE OF DENTISTRY** ii)Quantity of saliva iii)Surface area iv)Intimacy of contact v)Peripheral seal 7.Describe factors aidina mechanically primary in retention of the denture **Undercuts** ii. Over denture iii. **Implants** Mucosal inserts iv. ٧. Rubber suction vi. Magnets 8. Explain the secondary factors affecting the degree retention of complete dentures. 9. **Describe** the function and positional significance regarding complete denture fabrication. i. Cheek muscles ii. Lips iii. Tongue iv. Floor of mouth v. Soft palate vi. Masseter vii. Neutral zone 10. Discuss the shape/contour of denture borders and flanges in relation to the surrounding musculature and supporting structure for the fabrication of complete dentures. Over extension denture borders ii. Border molding Coronoid process iii. iv. Occlusal scheme Neuromuscular control ٧. Physiological factors ٧i. Proper patient instructions Physical and Class **Define** stability in complete Lecture Biomechanical denture Participation Considerations 2. List factors affecting stability in (Stability and complete denture Support) Term and final 3. **Describe** the factors influencing the stability and examination support of the complete denture. i) Residual ridge size ii) Quality iii) Palatal vault iv) Neutral zone v) Surrounding vi) musculature





				1	1
	4.	<b>Describe</b> the factors			
		influencing the stability and			
		support of the complete			
		denture.			
		i) Flange shape and			
		contour			
		ii) Occlusal factors			
		iii) Abnormal ridge			
		relationship			
		iv) Direct bone anchorage			
	5.	<b>Define</b> support in complete			
		denture			
	6.	<b>Describe</b> importance and			
		requirements of support in a			
		complete denture			
	7.	<b>Discuss</b> supporting areas of the			
		denture foundation			
	8.	<b>Explain</b> support form of the			
	Den	ture foundation		C I	
		i) Describe the factors			
		affecting support			
		ii) Surface area			
		iii) Nature of supporting			
	4	mucosa			
		iv) Impression procedure			
		v) Accuracy of fit			
		vi) Direct bone anchorage			
Examination,	1.	Take complete medical and	Lecture	Tutorial	Class
Examination, Diagnosis and	1.	<b>Take</b> complete medical and dental history of patients	Lecture	Tutorial Practical	Class Participation
Diagnosis and Treatment	1.		Lecture		
Diagnosis and	1. 2.	dental history of patients presenting to OPD <b>Evaluate</b> Psychological and	Lecture		Participation
Diagnosis and Treatment	Ш	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients	Lecture		Participation  Term and final
Diagnosis and Treatment	Ш	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's	Lecture		Participation
Diagnosis and Treatment	2.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification	Lecture		Participation  Term and final examination
Diagnosis and Treatment	Ш	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect	Lecture		Participation  Term and final
Diagnosis and Treatment	2.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the	Lecture		Participation  Term and final examination
Diagnosis and Treatment	2. 3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.	Lecture		Participation  Term and final examination
Diagnosis and Treatment	2. 3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of	Lecture		Participation  Term and final examination
Diagnosis and Treatment	2. 3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients	Lecture		Participation  Term and final examination
Diagnosis and Treatment	2. 3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients  i) Extra oral examination	Lecture		Participation  Term and final examination
Diagnosis and Treatment	2. 3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination	Lecture		Participation  Term and final examination
Diagnosis and Treatment	2. 3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin	Lecture		Participation  Term and final examination
Diagnosis and Treatment	2. 3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips	Lecture		Participation  Term and final examination
Diagnosis and Treatment	2. 3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips a) Lip length	Lecture		Participation  Term and final examination
Diagnosis and Treatment	2. 3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips a) Lip length b) Lip Thickness	Lecture		Participation  Term and final examination
Diagnosis and Treatment	3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips a) Lip length b) Lip Thickness c) Lip Mobility	Lecture		Participation  Term and final examination
Diagnosis and Treatment	3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips a) Lip length b) Lip Thickness c) Lip Mobility d) Lip support	Lecture		Participation  Term and final examination
Diagnosis and Treatment	3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips  a) Lip length b) Lip Thickness c) Lip Mobility d) Lip support e) Smile Line	Lecture		Participation  Term and final examination
Diagnosis and Treatment	3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips  a) Lip length b) Lip Thickness c) Lip Mobility d) Lip support e) Smile Line iv. Neuromuscular	Lecture		Participation  Term and final examination
Diagnosis and Treatment	3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips a) Lip length b) Lip Thickness c) Lip Mobility d) Lip support e) Smile Line iv. Neuromuscular evaluation	Lecture		Participation  Term and final examination
Diagnosis and Treatment	3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips  a) Lip length b) Lip Thickness c) Lip Mobility d) Lip support e) Smile Line iv. Neuromuscular evaluation v. Speech evaluation	Lecture		Participation  Term and final examination
Diagnosis and Treatment	3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips a) Lip length b) Lip Thickness c) Lip Mobility d) Lip support e) Smile Line iv. Neuromuscular evaluation v. Speech evaluation vi. TMJ evaluation	Lecture		Participation  Term and final examination
Diagnosis and Treatment	3.	dental history of patients presenting to OPD  Evaluate Psychological and mental health of patients according to house's classification  Discuss the drugs which affect the prosthetic treatment of the patient.  Perform clinical examination of patients i) Extra oral examination i. Facial examination ii. Skin iii. Lips  a) Lip length b) Lip Thickness c) Lip Mobility d) Lip support e) Smile Line iv. Neuromuscular evaluation v. Speech evaluation	Lecture		Participation  Term and final examination









### viii. Correction of hyperplastic epulis fissuratum Management of prominent ix. mylohyoid and internal oblique ridges Reduction of pandulus X. maxillary tuberosity Excision of tori xi. xii. Vestibuloplasty. Posterior palatal 1. **Define** posterior palatal seal Lecture Class Practical **Participation** seal 2. **Describe** the functions of Flip posterior palatal seal classroo 3. List the components and Term and final boundaries of posterior palatal m examination **Describe** the techniques for recording the posterior palatal seal Occlusion / 1. **Define** occlusion Lecture Practical Class osmotic balance **Participation** 2. Classify the types of occlusion in relation to complete dentures Term and final 3. **Describe** the concept of examination Balanced occlusion **Explain** the characteristics of balanced occlusion 5. Discuss the importance and general considerations related to balanced occlusion 6. List the types of balanced occlusion 7. **Explain** the factors influencing balanced occlusion **Vertical** relations **Tutorial** Maxillo-mandibular Lecture Class **Horizontal** relations Practical Participation Relations Videos Term and final examination Class Facebow 1. **Define** facebow Lecture Participation Discuss the purpose and **Videos** advantages of using facebow 3. List the parts of facebow Term and final 4. List the types of facebow examination 5. **Describe** the uses of facebow 6. Discuss the procedures for facebow transfer Mandibular 1. Discuss the anatomy of Lecture Class movements Videos Participation temporomandibular joint 2. **Discuss** the clinical significance of mandibular movements in Term and final relation to prosthesis 3. **Discuss** the border movements examination of the mandible 4. **Describe** the significance of gnathology in dental prosthetics.





### **Articulators** 1. **Define** articulators Class Videos Practical **Participation** 2. **Explain** the functions of articulator 3. List down the types of Term and final articulators examination **Explain** the advantages and limitations of articulators 5. **Describe** the purpose of an articulator 6. **Discuss** the minimum and additional requirements of articulator 7. **Discuss** the prosthetic use of i) Simple hinge articulator The mean value articulator iii) Semi-adjustable articulator iv)Fully adjustable articulator 8. **Describe** the prosthetic importance of Protrusive records Lateral records iii) Hanau formula **Describe** the objectives of Lecture **Tutorial** Class Selection of teeth selection **Videos** Practical **Participation** artificial teeth 2. Explain the general considerations in teeth arrangement of Term and final selection artificial teeth examination **Describe** the size of teeth Discuss the methods used to **DOPS** select size of teeth Methods using preextraction records ii) Methods using anthropological measurements of the patient iii) Methods using anatomical landmarks iv) Methods using theoretical concepts **Describe**t the factors in selection of artificial teeth i) Size of face ii) Inter-arch spacing iii) Distance between the distal ends of the maxillary cuspids iv) Length of lips v) Size and relation of arches vi) Size of posterior teeth 6. **Discuss** the factors affecting the shade selection of artificial teeth





### Hue Saturation iii) Translucency iv) Age v) Habit vi) Complexion vii) Color of eyes viii) Color of patient hair 7. **Describe** positioning and relationship of teeth 8. Discuss advantages and disadvantages of i) Anatomic teeth ii) Non-anatomic teeth **Explain** the prosthetic importance of cuspless teeth 10. Describe features in i) Class-I relationship ii) Class-II relationship iii) Class-III relationship The trial denture **Define** trial denture Class **Describe** significance of trial Lecture Practical Participation denture 3. Discuss verification Term and final centric relation examination ii) centric occlusion iii) vertical relation **Illustrate** the evaluation of Lip and cheek support Occlusal plane iii) Posterior palatal seal iv) Esthetic **Phonetics** Denture List denture base material Lecture Class Practical **Participation** processing **Discuss** the laboratory steps of **Videos** fabrication of complete denures and perform them in Term and final **Flipped** practicals. class examination i) Flasking/investing ii) Dewaxing iii) Trial packing ofacrylic resin iv) Final closure and bench curing v) Deflasking vi) Remounting vii) Laboratory remounting viii) Finishing and polishing 3. Discuss denture defects Porosity i) ii) Crazing iii) Warpage iv) Fracture





	COLLEGE OF DENT	1		Т
	v) soaking			
	4. <b>Define</b> remount record index			
Denture	Discuss causes of denture errors	Lecture		Class
placement and	<ul><li>2. <b>Describe</b> denture insertion and</li></ul>		Practical	Participation
patient	evaluation procedure			
education	3. <b>Explain</b> evaluation of the			
	processing			Term and final
	<ol><li>Describe evaluation of fit and</li></ol>			examination
	comfort			
	5. <b>Discuss</b> evaluation of retention			
	stability and support <b>6. Discuss</b>			
	Discuss     i) Evaluation of occlusion			
	ii) Evaluation of esthetic	10.		
	iii) Evaluation of jaw			
	relation			
	<ul><li>iv) Evaluation of speech</li><li>7. <b>Discuss</b> instruction and</li></ul>			
	7. <b>Discuss</b> instruction and education of a new denture		<b>G</b> . 1	
	wear			
Post	Describe causes of denture	Lecture		Class
placement	failure	Videos		Participation
phase	2. <b>Discuss</b> possible complains of a			
	newly delivered denture			
	3. <b>Discuss</b> instruction regarding			Term and final
	insertion and removal of			examination
	prosthesis			4
	Discuss maintenance of the prosthesis			
	5. <b>Describe</b> periodic recall of			
	patient after delivery of			
	complete dentures.	-		
Post Insertion	<b>Discuss</b> post insertion complains:	Lecture	Tutorial	Class
Complain/	i. Related to fitting surface		CBL	Participation
Sequelae of	ii. Related to esthetics iii. Related to occlusal			
complete denture insertion	surface		157	Term and final
II ISCITION	iv. Pain			examination
	v. Discomfort		0	
	vi. Mastication problem			
	vii. Ulcers	الله الوا		
Immediate	Define immediate dentures and	Lecture	Practical	Class
Dentures And	<ul><li>replacement dentures</li><li><b>Discuss</b> classification and types of</li></ul>			Participation
Replacement Dentures	immediate dentures			
201110103	Discuss Indications and			Term and final
	contraindications			examination
	List clinical and laboratory			
	procedures			
	Discuss multidisciplinary			
	approach including care during			
	<ul><li>surgery</li><li>Discuss Insertion and follow up &amp;</li></ul>			
	maintenance			
<u> </u>		1	I	<u> </u>





			1
Single Complete Denture	<ul> <li>Define single complete denture</li> <li>List problems with single complete denture</li> </ul>	Lecture	Class Participation
	Discuss common occlusal		
	disharmonies and ways to adjust		Term and final
	them.		examination
			examination
	Discuss single complete denture     appearing patting that the		
	<ul><li>opposing natural teeth</li><li><b>Discuss</b> single complete denture</li></ul>		
	opposing RPD & FPD		
	Discuss implant supported		
	prosthesis		
	<ul> <li>Discuss methods to achieve</li> </ul>		
	balanced occlusion		
	List clinical procedure of making		
	single complete denture		
	Listocclusal materials for single		
	complete dentures.	6///	
Combination	Define combination syndrome	Lecture	Class
Syndrome	<ul> <li>Discuss diagnosis, etiology and</li> </ul>	LOCIOIC	Participation
Syridionic	treatment strategies related to		Term and final
	combination syndrome		examination
Speech	Discuss Bilabial sounds	Lecture	Class
эросси	Discuss Labiodental sounds	2001010	Participation
	<ul> <li>Discuss Velar sounds</li> </ul>		Term and final
	210000 Yoran 30011as		examination
Copy Denture,	1. <b>Define</b> copy denture	Lecture	Class
And Occlusal	2. <b>Discuss</b> indications,	- C	Participation
Pivot/ Techniques	contraindications, advantages	Videos	1
to overcome the	and disadvantages	1,10,000	
problems in	Discuss laboratory techniques.		Term and final
removable	1. Discuss laboratory recrimques.		examination
prosthodontics			oxen manon
Relining, Rebasing	2. <b>Define</b> relining, rebasing and	Lecture Practical	
And Repair	repair	Videos	
	3. <b>Discuss</b> indication,		Class
	contraindication, material and		Participation
	techniques for relining the		
	denture	127	
	4. <b>Describe</b> indications and		Term and final
	laboratory techniques for		examination
	rebasing		
	5. <b>Discuss</b> the types, causes and		
	problems with repairing		
	fractures of denture		
	6. <b>Discuss</b> contraindication and		
	repair material for dentures		
Over-dentures	Define over-dentures	Lecture	Class
	Discuss classification and types of		Participation
	over-dentures		
	Discuss Indications and		
	contraindications		Term and final
	List clinical and laboratory		examination
	procedures		
	Discuss Insertion and follow up &		
	maintenance		



### LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION



### **COLLEGE OF DENTISTRY** 1. Discuss history taking and Mini-CEX Practical / Clinical Rotation/ examination of patient Assessment at the Lab work Opd/Lab Work end of rotation 2. Prepare 1 Self cure denture base for maxillaandmandible Tutorial Idealmodelpouring Term and final Separating examination mediaapplication Mixingofmaterial PreProf exam iv) Fabricationoftray v) Finishing vi) Polishing DOPS (Impression vii) Rimformation viii) Articulation compound, PFM 1Heatcuredenturebaseformaxil laandmandible Crown Modelpouring ii) Waxup preparation) iii) Flasking iv) Dewaxing v) Separating mediaapplication vi) Packing vii) Curing viii) Deflasking ix) Finishing x) Polishing xi) Rimformation xii) Articulation xiii) ClassIteethsetup **Describe** prosthodontic material and Instrument 5 clasps formation (2 anterior + 3 posterior) Ideal die model pouring for maxilla and mandible





COLLEGE OF DENT	
✓ Deflasking	
✓ Finishing	
✓ Polishing	
> 1 occlusal splint fabrication:	
✓ Oral examination	
✓ Impression record and	
model poring with base	
formation	
✓ Bite registeration	
✓ Articulation	
✓ Wax-up and finishing of	
occlusal splint	
✓ flasking	
✓ Dewaxing	
✓ Dewaxing ✓ Separating media	
application	
✓ Packing	6///
✓ Curing	
✓ Deflasking	
✓ Finishing	
✓ Polishing	
OTHERS	
PRESENTATIONS	
EXTRA ACADEMIC ACTIVITIES	
✓ Posters	
✓ Activities	
✓ Activities ✓ Clinical case	
presentations ➤ Poster making	
ON PATIENT:	
<ul><li>➢ History taking</li><li>➢ Examination</li></ul>	
3 1 1 1 1 2	
Models of impressions with	
bases  > 1-2 case of complete	
> 1-2 case of complete denture	
	7 5 7
> 2-3 partial dentures  Class formation on patient's	
Clasp formation on patient's model	
model	





COURSE TOPIC:IMPRESSIONS					
		Mode	of Teaching		
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment Tools	
		Lecioles			
Objectives	1. Define	Lecture	Tutorial	Class	
Objectives, theories and	i) Retention	Videos	Practical	Participation	
techniques of	ii)Support				
impression	iii) Stability			Term and final	
,	iv) Esthetics			examination	
	v) Preservation of			examination	
	remaining structures	m,		DOPS	
	2. <b>Describe</b> indications,	6//		2010	
	advantages, disadvantages,				
	and material used in impression				
	making with the following techniques:		<b>4</b>		
	i) Minimal pressure				
	impression technique				
	ii) Selective pressure				
	impression technique				
	iii) Definite pressure				
	impression technique				
	iv) Functional			2	
	impression			- 1	
	technique		. 5		
	3. <b>Discuss</b> the impression				
	techniques:				
	i) Based on mouth opening				
	ii) Based on types of trays	-			
	used iii) Based on theories of		3		
	impression				
	iv) Based on purpose of				
	impression		125 1		
	v) Based on material used		6		





COURSE TOPIC: OCCLUSION/TMD				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
		Lectures	Clinical	
Theories and Principles of Occlusion in all types of prosthesis (Fixed and removable)	1. Describe optimum functional occlusion 2. Discuss the following occlusal scheme i) Canine guided ii) Group function iii) Mutually protected 3. Describe determinants of	Lecture		Class Participation Term and final examination
UAIT C.	occlusal morphology i) Posterior controlling factors (Condylar guidance) ii) Anterior controlling factors (Anterior guidance) iii) Vertical determinants iv) Horizontal determinants			
Concept,etiology, Treatment planning And treatment Option for occlusion	1. Discuss the etiology of temporo-mandibular joint disorder syndrome.  2. Describe treatment options i) Supportive therapy a) Pharmacological therapy b) Physical therapy ii) Definitive therapy a) Reversible b) irreversible	Lecture Videos		Class Participation  Term and final examination
	b) irreversible	10	65	





	COURSE TOPIC: GERODONTOLOGY				
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools	
		Lectures	Clinical		
Effects of	1. Discuss	Lecture		Class	
medication on	i) Xerostomia			Participation	
oral health	ii) Sialorrhoea				
	iii) Lichen planus				
	iv) Aphthous like ulcers			Term and final	
	v) Pigmentation			examination	
	vi) Gingival enlargement				
	vii) Burning mouth syndrome				
	viii) Loss of taste				
	ix) Pseudo-membranous candidiasis	10.			
	x) Angular cheilitis	GIA			
	xi) Osteonecrosis of jaw				
Medical	Describe the following medical	Lecture		Class	
conditions having	conditions having oral	2001010		Participation	
oral manifestation	manifestations				
	i) Pulmonary conditions				
	ii) Skin diseases			Term and final	
	iii) Connective tissue disorders			examination	
	iv) Liver disease				
	v) Hematological disorders				
	vi) Autoimmune disease				
Xerostomia	Define xerostomia	Lecture		Class	
	2. <b>Discuss</b> the causes of	2001010		Participation	
	xerostomia				
	3. <b>Describe</b> clinical features of				
	xerostomia			Term and final	
	4. <b>Discuss</b> the effect of xerostomia			examination	
	on prosthesis	-			
	5. <b>Discuss</b> the diagnosis and	E 16			
	management of xerostomia				
Root Caries	Discuss the clinical features of	Lecture		Class	
Roof Gallos	root surface caries	LOCIOIC	137	Participation	
	2. <b>Describe</b> the microbiology of			rameipanon	
	root surface caries		0		
	3. <b>Discuss</b> the diagnosis and			Term and final	
	factors predisposing to root			examination	
Geriatic Nutrition	caries  1. <b>Discuss</b> nutritional balance	Lecture		Class	
Genanc Nominon	based on:	reciole		Participation	
	i) Complex carbohydrate				
	ii) Protein enriched diet			Term and final	
	iii) Calcium rich food			examination	
	iv) Excessive water			- CAGITIII GIIOTI	
	2. <b>Discuss</b> the disadvantage to				
	Limit intake of				
	i) Simple sugar				
	ii) Fat				
	iii) Sodium				





### **COURSE TOPIC: REMOVABLE PARTIAL DENTURE**

Contout	Lograina Ohio alive-	Mode of Te	aching	Assessment Tools
Contents	Learning Objectives	Lecture	Practical	
Physiology, terminology and types of removable partial denture(RPD)	Define:         1. Abutment         2. Retainer         3. Tooth supported RPD         4. Tooth tissue supported RPD         5. Temporary RPD         6. Interim denture         7. Transitional denture         8. Treatment denture         9. Stability         10. Support         11. Retention         12. Reciprocation         13. Bracing         14. Appliance         15. Saddle         16. Prosthesis         • Classify the types of removable partial denture         • Describe indication, Contraindications, advantages and disadvantages of removable partial denture	Lecture(1)	tutorial	Class Participation
Partially Edentulous Epidemiology, Physiology And Terminology	Define     1. Abutment     2. Retainer     3. Extra coronal partial denture     4. Tooth supported RPD     5. Tissue supported RPD     6. Tooth-tissue supported RPD     7. Temporary RPD     8. Interim denture     9. Transitional denture     10. Treatment denture     11. Centric relation     12. Centric occlusion     13. Eccentric relation     14. Support     15. Retention     16. Reciprocation     17. Bracing     18. Appliance     19. Saddle area     20. Stability	Lecture(1)	NSTRY * />	Class participation
Applied Anatomy And Physiology	Discuss clinical application of anatomy of oral cavity     Brief physiology of jaw movements.	Lecture(1)		Class test Class Test Class participation Final examination
Oral Manifestations Of Systemic Diseases	Discuss problem related to xerostomia     Discuss Problem related to poor healing     Discuss Problem related to osteoporosis     Discuss Problem related to osteopenia     Discuss Problem related to autoimmune diseases.	Lecture(1)		Class test Class participation Final examination
Diagnosis And Treatment Planning	CLINICAL EXAMINATION A. HISTORY Demographic data Chief complaint History of presenting complaint	Lecture(1)		MINI C-EX



EDICINE.



Patient Evaluation, History, General Examination And Problem Oriented Treatment Planning

- Dental history
- Medical history
- Social history

### **B. EXAMINATION**

### a. General Examination

- Gait.
- Complexion and personality
- Cosmetic index
- Mental attitude of patient

### b. Extra Oral examination

- Facial features
- Facial form
- Facial profile
- Lower facial height
- Muscle tone
- Complexion
- Lip competency
- TMJ examination
  - Examination of muscles of mastication
  - Deviation
  - Deflection
  - Limited mouth opening
  - Clicking sounds/crepitating
  - Neuromuscular examination

### c. Intra Oral Examination

### 1) Existing teeth

- Number of teeth
- Tilting
- Drifting
- Supra eruption
- Rotation

### 2) Mucosa

- Color of mucosa
- Condition of mucosa
- Thickness of mucosa

### 3) Saliva

- Normal
- Thick and ropy
- Xerostomia

### 4) Occlusion

- Canine guided
- Group function
- Mutually protected

**5) Others:** Midline, mouth opening, occlusal stops, periodontal condition, residual roots, tooth surface loss

### C) Radiographic examination

- Crown to root ratio
- Periapical pathology
- Retained residual roots
- Thickness of mucosa
- Bone support and qualityRoot configuration of abutment teeth

### D) Diagnostic casts

- Purpose of diagnostic cast
- Mounting diagnostic cast
- Sequence of mounting maxillary cast to axis orbital plane
- Jaw relation for diagnostic cast
- Material and methods for centric relation

### E) Diagnostic findings

### F)Interpretation of examination data

- Radiographic interpretations
- Periodontal consideration
- Caries activity
- Evaluation of prosthesis foundation teeth and residual ridge.
- Surgical preparation
- Analysis of occlusal factors
- Fixed restorations
- Orthodontic treatment





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	G) Differential diagnosis; fixed or removable partial denture Indications of FPD Indications of RPD C) Choice between complete denture and removable partial denture I) Clinical factors related to metal alloys used for metal framework.			
Biomechanics Of Removable Partial Denture	Discuss the biomechanical considerations.  Discuss the concept of Lever 1 Lever 2 Lever 3  Discuss Stress consideration in partial denture Vertical i. Displacing stresses ii. Dislodging stresses Horizontal Torsional Discuss Factors influencing magnitude of stress Describe Differential support Discuss Role of periodontal ligaments in removable partial denture	Lecture(1)	Tutorial	
Components of RPD (major connector and minor connector)	Define major connectors List types of major connectors Discuss the location, indication contraindication of major connectors Describe ideal requirements and design consideration of major connector Describe functions of minor connectors Explain form and location of minor Connectors Discuss tissues tops and finishing Line of removable partial dentures.	Lecture(4)	Skills designing	Class Participation Class Test
Rest and rest seats	Define rest Classify rest and rest seats on the basis of location Describe form, support & design of occlusal rest and rest seat Relate the role of rest in control of prosthesis movement	Lecture(2)	Small Group Discussion Tutorial Practical	Class Participation Class Test Final examination DOPS
Direct retainers	Define direct retainers State the role of direct retainer in prosthesis movement control Classify direct retainers on the basis of extra coronal and intra coronal prosthesis Discuss the contours of tooth for the fabrication of retentive clasps Describe functional requirement of clasp Discuss criteria for selecting given clasp design List basic parts of clasp assembly Describe basic principles of clasp design List types of clasp assembly	Lecture(4)	Small Group Discussion Tutorial Practical	Class Participation Class Test Final examination DOPS
Indirect retainers	Define indirect retainers     Explain factors influencing effectiveness of indirect retainers     Discuss the forces acting on the denture     Define fulcrum line     Describe auxiliary functions of indirect retainers     List types of indirect retainers	Lecture(2)		Class Participation
Denture base consideration	Discuss ideal denture base material used in the fabrication of removable partial dentures.     Describe advantages and disadvantages of	Lecture(1)		





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	metal and acrylic denture bases  Explain methods of attaching artificial teeth to the denture base  Discuss the need for relining the denture base.  Define stress breakers for denture base			
Principles of RPD design	Describe the difference in prosthesis support and the influence on design     Differentiate between types of removal partial denture     Describe the components partial dentures which are part of partial Denture design	Lecture(2)	Group Discussion Tutorial Practical skills	DOPS
Surveying	Define surveying List the types of the dental surveyor Identify the parts of the dental surveyor List the types of survey lines Explain the purpose of surveyor Discuss the factors that determine the path of placements and removal List the steps of the procedure in surveying a diagnostic cast Explain final path of placement and relation to cast to surveyor Discuss surveying the master cast (not repetition diagnostic and master cast are different) Describe measuring retention and retentive undercut Explain blocking out the master cast and relieving the master cast	Lecture(2)	Tutorial Practical Skills	DOPS
Mouth preparation for removal partial denture	Describe oral surgical procedures     Explain conditioning of abused and irritated patient     Describe periodontal preparations     Explain the diagnosis of occlusal disharmony     Discuss endodontic treatment necessary before fabrication of removable partial dentures	Lecture(1)	<b>ISTRY</b>	
Preparation of abutment teeth	Classify the abutment teeth according to tooth preparation Explain the sequence of the abutment teeth preparation on sound teeth and existing restoration Discuss the preparation of the guide planes and rest seats Discuss the techniques used to create undercuts for retentive clasps Explain abutment preparation using crowns and conservative restorations Explain the use of isolated teeth as abutment	Lecture(1)	7.	
Impression techniques and modifications	<ul> <li>List the types of impression materials use for RPD</li> <li>Describe the anatomic and functional form of impression</li> <li>Discuss indication of functional impression</li> <li>Describe impression techniques: <ol> <li>Mclean's physiologic</li> <li>Impression technique</li> <li>Hindel's modification</li> <li>Functional relining method</li> <li>Selective pressure impression technique</li> <li>Fluid wax technique</li> <li>Altered cast technique</li> <li>Modifications of altered cast technique</li> </ol> </li> </ul>	Lecture(2)	Practical skill	DOPS





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Trail of metal frame work	Define examination of metal framework Discuss the procedure of fitting frame work to teeth and supporting structures Explain the correcting discrepancies Explain the fitting frame work to opposite occlusion Describe the finishing of the framework	Lecture(1) + videos		
Maxillomandibu lar relations	Describe desirable occlusal contact relationship for removable partial denture Describe the methods for establishing occlusal relationship Explain the use of articulators Describe the articulation techniques 1. Split cast technique Discuss the jaw relation for mandibular removable partial denture opposing a maxillary complete denture	Lecture(1)		
Selection & arrangement of teeth	List anterior and posterior teeth selection on the basis of Size of teeth Form of teeth Color of teeth	Lecture(1) + videos	Practical	
Lab procedure	Describe duplicating a cast stone     Describe the waxing framework of removable partial denture     Define     1. Spruing     2. Investing     3. Burn out     4. Casting     5. Removing the cast from investment     6. Finishing  Discuss the making of record bases  Explain the making of a stone occlusal template from a functional occlusal record  Demonstrate the arrangement of anterior and posterior teeth  Discuss the waxing and flasking of removable partial denture before processing acrylics in base  Describe the processing and polishing of the denture	Lecture(3) + videos	Practical Laboratory demonstration	

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COURSE TOPIC:CROWN AND BRIDGES				
Lecture Topic	Learning Objectives	Mode of Teaching		Assessment Tools
100.0.0		Lectures	Clinical	
An introduction to Fixed Prosthodontics  History and examination	1. Define the following terms: i) Fixed prosthodontics ii) Crown iii) Bridge iv) Inlay v) Veneers vi) Retainers vii) Pontics viii) Abutment ix) Saddle area 2. Discuss the applied anatomy and physiology of face i) Imj ii) Muscles of mastication iii) Jaw movements 3. Discuss indications and contraindications of fixed prosthodontics  1. Discuss i) Demographic data ii) Chief complaint iii) History of presenting complaint iii) History of presenting complaint iii) Medical history v) Dental history 2. Define extra oral examination 3. Demonstrate it on a patient. i) Facial features ii) ii)Facial form iii)Facial profile iv)Imj v)Muscles of mastication 4. Define Intra oral examination 5. Demonstrate it on a patient. i) Periodontal needs ii) Restorative needs iii) Endodontic needs v) Orthodontic needs v) Orthodontic needs	Lecture		Class Participation  Term and final examination  Class Participation  Term and final examination  Mini-CEX
and related procedure	<ol> <li>Discuss the art of impression making</li> <li>Discuss the mounting on articulator</li> <li>Discuss types of articulator</li> <li>Identify parts of Facebow in</li> </ol>	Lecture		Participation  Term and final examination





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	picture  5. <b>Record</b> the centric			
Treatment Planning	relation on patients  1. Analyze patients needs 2. Discuss available material for the fabrication of the required prosthesis 3. Assess abutment teeth 4. Plan replacement of single and multiple missing teeth	Lecture	CBL	Class Participation  Term and final examination Mini-Cex
Principals Of Occlusion	i) Anatomy of tmj ii) Ligaments iii) Centric relation iv) Mandibular,border and functional movements v) Unilateral and bilateral balanced occlusion	Lecture		Class Participation Term and final examination
Mouth Preparation	1. Discuss the importance of mouth preparation:  i) Periodontally  ii) Restoratively  iii) Orthodontically  iv) Surgically  v) Diagnostic  adjustments  vi) Clinical  occlusal  adjustments	Lecture	Practical	Class Participation  Term and final examination
Components Of Fixed Partial Denture	Discuss the components of fixed partial denture  Connector Pontic Retainer Abutment	Lecture	Tutorial	Class Participation Term and final examination
Classification Of Fixed Partial Denture	List classification of fixed partial denture  Class I Class II Class III	Lecture		Class Participation Term and final examination
Fixed Partial Denture Types	1. Describe indications, contraindication, advantages, disadvantages  i) Conventional bridge  ii) Minimal preparation bridge  iii) Fixed-fixed bridge  iv) Cantilever bridge	Lecture		Class Participation Term and final examination
Crown and types of crowns	List various partial and	Lecture		Class Participation





F		COLLEGE OF BEILT		ı	
(Introduction)		full coverage			
		restorations			Term and final
	2.	<b>Describe</b> the principles of			examination
		tooth preparation			
	3.	<b>Describe</b> the indications			
		and contraindications for			
		provision of inlay and onlay			
	1	<b>Describe</b> clinical assessment			
	4.				
		required and steps of			
		preparation for inlay and			
		onlay			
	5.	Discuss fluid management			
		and soft tissue management			
	6.	Discuss the procedure of			
		Impression making for inlays			
		and onlays.			
	7.	<b>List</b> material used for	11:12		
		cementation			
	8.	<b>Describe</b> clinical			
	7	procedure for			
		cementation		<b>G</b> . <b>1</b>	
	9.	Discuss the latest			
		innovations including			
		CAD-CAM technology			
Veneers	1.	Discuss indications and	Lecture		Class
		contraindications for veneers			Participation
	2.	<b>Describe</b> the diagnostic			
		procedure involved in treatment			Term and final
		planning			examination
	3.	<b>Explain</b> the importance of			OXAITIII I AII OTT
	3.	quantity and quality of			
		enamel for bonding			
	4.	<b>Describe</b> tooth			
		preparation and	_		
		impression material used	E 14		
		for veneers			
	5.	<b>Describe</b> step by step			
14	r	procedure for veneer			7
	8 4	placement			
Crowns	4	1. <b>Describe</b> indicationsand	Lecture	Practical	Class
CIOVVIII	1	contraindications of	LOCIOIG	Tached	Participation
	i Da	orcelain fused to metal crown	7.7.4		
			91		Term and final
		All metalcrown			
	iii.	All ceramiccrown			examination
	2.	Discuss factors for			DODC
		shade selection			DOPS
	3.	<b>Describe</b> guidelines for			
		shade matching			
	4.	Describe clinical			
		assessment and steps for			
		tooth preparation for			
		porcelain fused to metal			
		crown, all metal and all			
		ceramic crown			
	5.	List material available for			
	٥.				
		these restorations			
1	6.	Discuss soft tissue			





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	management and	
	impression making for	
	crowns	
	7. <b>Discuss</b> indications and	
	contraindications for the	
	use of electrosurgery	
	8. <b>List</b> materials used for	
	cementation	
	9. <b>Describe</b> the clinical	
	procedure for	
	· ·	
	cementation	
	IMPLANTSUPPORTEDRESTORATIONS:	
	1. <b>Discuss</b> indications and	
	contraindications	
	2. <b>Describe</b> various implant	
	supported restorations that can be	
	used for missing teeth	
Fixed partial	1. <b>Discuss</b> design Lecture	Class
denture design	considerations for individual	Participation
	conditions	
	Describe material selection	Term and final
		examination
	3. Explain biomechanical	examination.
	considerations	
	4. <b>Discuss</b> abutment selection	
	5. <b>Discuss</b> special cases	
	6. <b>Explain</b> condition of residual	
	ridge	60
	And occlusion with opposing	
	teeth	
Abutment and	Explain types of retainers based Lecture	Class
retainer selection	on tooth coverage	Participation
Terdirier selection	i) Full veneer crowns	Tamelpanon
	I I I I I I I VELICEI CIOWIIS	- 10 1
		Lerm and final
	ii) Partial veneer crowns	Term and final
	ii) Partial veneer crowns iii) Minimal preparation	examination
	ii) Partial veneer crowns iii) Minimal preparation retainers	
16	ii) Partial veneer crowns iii) Minimal preparation retainers 2. <b>Discuss</b> materialbeingused	
76	ii) Partial veneer crowns iii) Minimal preparation retainers 2. <b>Discuss</b> materialbeingused i) All metal	
5	ii) Partial veneer crowns iii) Minimal preparation retainers 2. Discuss material beingused i) All metal ii) Metal ceramics	
5	ii) Partial veneer crowns iii) Minimal preparation retainers 2. <b>Discuss</b> materialbeingused i) All metal	
(5)	ii) Partial veneer crowns iii) Minimal preparation retainers 2. Discuss material beingused i) All metal ii) Metal ceramics	
(5)	ii) Partial veneer crowns iii) Minimal preparation retainers 2. Discuss material beingused i) All metal ii) Metal ceramics iii) All ceramic	
Si	ii) Partial veneer crowns iii) Minimal preparation retainers 2. Discuss material beingused i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic	
(5)	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material being used i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers	
(5)	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material being used i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment,	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material being used i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance,	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material being used i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material being used i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material being used i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material being used i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth structure	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material beingused i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth structure  4. Discuss abutment selection	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material beingused i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth structure  4. Discuss abutment selection i. Location, condition,	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material being used i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth structure  4. Discuss abutment selection i. Location, condition, position of abutment	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material beingused i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth structure  4. Discuss abutment selection i. Location, condition, position of abutment ii. Crown root ratio,	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material beingused i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth structure  4. Discuss abutment selection i. Location, condition, position of abutment ii. Crown root ratio, root support	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material beingused i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth structure  4. Discuss abutment selection i. Location, condition, position of abutment ii. Crown root ratio,	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material beingused i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth structure  4. Discuss abutment selection i. Location, condition, position of abutment ii. Crown root ratio, root support	
	ii) Partial veneer crowns iii) Minimal preparation retainers  2. Discuss material beingused i) All metal ii) Metal ceramics iii) All ceramic iv) All acrylic  3. Discuss criteria for selection of retainers i. Alignment, appearance, condition ii. Cost iii. Preservation of tooth structure  4. Discuss abutment selection i. Location, condition, position of abutment ii. Crown root ratio, root support iii. Pulpal health	



### LIAQUAT COLLEGE OF MEDICINE AND DENTISTRY DEPARTMENT OF HEALTH PROFESSIONS EDUCATION



### **COLLEGE OF DENTISTRY**

	ii) Cantilever iii) Tilted			
	iv) Damaged Implant			
	iv. abutments			
Margin placement and pontic design	<ol> <li>List types of margins:</li> <li>i) Shoulder</li> </ol>	Lecture	Practical	Class Participation
	ii) Chamfer iii) Sloped shoulder			Term and final examination
	<ul><li>iv) Shoulder with bevel</li><li>v) Featheredge</li></ul>			
	vi) Chisel edge vii)Bevel			DOPS
	2. <b>Describe</b> Pontic design			
	3. <b>List</b> the factors affecting			
	pontic design			
	4. <b>Discuss</b> available space	m,		
	5. <b>Describe</b> contour of ridge	6///		
	6. <b>Discuss</b> the amount of occlusal			
	load placed on the abutment			
	teeth during mastication.		4	
	7. <b>Discuss</b> general design			
	considerations			
Material	List types of materials used	Lecture	Practical	Class
consideration and	in cementation of fixed			Participation
cementation	prosthesis.			
	2. <b>Discuss</b> the composition,			Term and final
	properties, merits and short			examination
	coming of material			
Steps of	1. <b>Discuss</b> biological,	Lecture	Practical	Class
procedures	mechanical and esthetic principles of tooth			Participation
	preparation			Term and final
	Discuss digital and physical	2		examination
	techniques for impression			
	making			
	3. <b>Discuss</b> digital and			
	physical procedures of		135	
	laboratory for the fabrication of cast.			
	4. <b>Discuss</b> cementation			
	and post-cementation	71.		
	followup,			
	Management and			
	complications			
Resin bonded	1. Discuss:	Lecture		Class
bridges	i) Indications and			Participation
	contraindications			Term and final
	ii) Advantages and disadvantages			examination
	iii) Types of resin bonded			5
	Bridges			
	iv) Rochette bridge			
	v) Maryland bridge			
	vi) Cast mesh fixed partial			
	dentures			
	vii) Virginia			





	viii) bridge			
	·			
Temporization	1. Describe	Lecture		Class
	advantages and		Practical	Participation
	disadvantages			
	2. <b>Discuss</b> different			
	techniques of fabrication			Term and final
	3. Describe			examination
	properties of			
	materials			
	available			
	4. <b>Discuss</b> cements			
	available for			
	temporization of teeth.			
Follow up and	<ul> <li>Describe causes of prosthesis</li> </ul>	Lecture	Practical	
post cementation	failure			
complains	Discuss possible complains of a			
	newly cemented prosthesis			
	Discuss post-op instructions			
	Discuss maintenance of the			
	prosthesis		<b>G</b> . <b>1</b>	
	Describe periodic recall of			
	patient after delivery of			
	complete dentures.			
	<b>Discuss</b> post insertion complains:			
	A. Related to esthetics			
	B. Related to occlusal surface			
	C. Pain			
	D. Discomfort			
	E. Mastication problem			



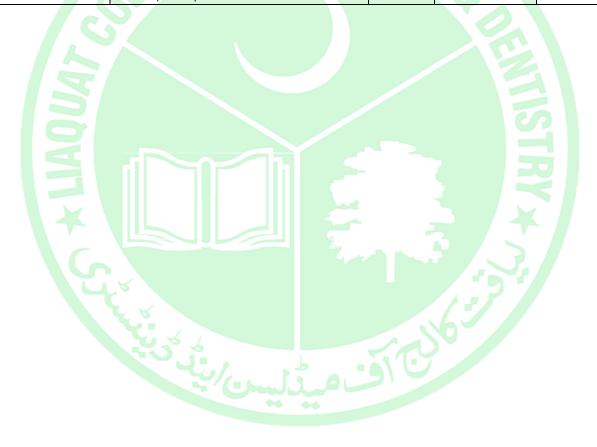


	COURSE TOPIC:IM	PLANT			
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools	
reciore ropie	Leaning Objectives	Lectures	Clinical	Assessment rook	
Types of implants	1. Define endosteal implant i) Root form ii) Blade form  2. Define subperiosteal and transosteal implants  3. List down the components of implants  4. Explain advantages, disadvantages, indications and contraindications of implants  5. Describe impression techniques for	Lecture		Class Participation  Term and final examination	
Osseo-integration and	implants  1. <b>Describe</b> integration and bio-integration	Lecture		Class Participation	
biocompatibility	<ul> <li>2. Discuss mechanism of osseo-integration</li> <li>3. Discuss stages of osteointegration</li> <li>4. Explain theories of bone to implant interface</li> <li>5. Discuss the factors influencing osteointegration</li> </ul>		JAMES AND STREET	Term and final examination	
Prosthodontic options	<b>Discuss</b> the prosthetic options of implant dentistry	Lecture	1.77	Class Participation	
	<ul> <li>FP 1</li> <li>FP 2</li> <li>FP 3</li> <li>Fixed prosthesis</li> <li>Hybrid prosthesis</li> <li>RP 4</li> <li>RP 5</li> </ul> Discuss Advantages and disadvantages of screw retained	510		Term and final examination	
	and cement retained prosthesis				
Limitation of implants	<ul> <li>List limitations of dental implants</li> <li>Age</li> <li>Patient desire</li> <li>Patient fear</li> <li>Time of treatment</li> </ul>	Lecture		Class Participation  Term and final examination	





	<ul> <li>Cost to patient</li> <li>Adjacent tooth mobility</li> <li>Bone height</li> <li>Bone length</li> <li>Bone width</li> <li>Soft tissue drape</li> <li>Challenging esthetics</li> <li>Systemic diseases</li> <li>Crown height space</li> </ul>		
Clinical and	<b>List</b> Clinical procedures for	Lecture	Class
laboratory	implant placement		Participation
procedures	i. One stage implant placement technique ii. Two stage implant placement technique iii. Impression technique iv. Jaw relation v. Try in  List Laboratorial procedures for implant prosthesis fabrication	GIN	Term and final examination







	COURSE TOPIC: MAXILLO-FA	CIAL PR	(O21HE212	
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tool
		Lectures	Clinical	
Classification of congenital and acquired defects	<ol> <li>List maxillary defects and mandibular defects</li> <li>Define velo-pharyngeal defects</li> </ol>	Lecture Flipped class		Class Participation Term and final examination
Principles governing treatment and management of defects	Discuss treatment of soft and hard palate defects     i) Obturator     ii) Speech-aid	Lecture		Class Participation  Term and final  examination
Types of obturators	Explain the fabrication, indication, contraindications, advantages and disadvantages of     i) Surgical obturator prosthesis     ii) Interim obturator prosthesis     iii) Definitive obturator prosthesis	Lecture	Practical	Class Participation  Term and final  examination
Cleft palate and speech aid prosthesis	Discuss pre surgical naso-alveolar molding appliance     Classify soft palate defects according to Veau's classification.     Classify physiological and anatomical defects     List types of speech-aid     Describe advantages, disadvantages, indication and contraindications of speech-aid prosthesis     Discuss:     i) Design features of speech-aid     ii) Impression procedure of speech-aid.     iii) Technical consideration of speech-aid	Lecture		Class Participation  Term and final examination
Facial prosthesis	Discuss     i) Auricular defects     ii) Nasal defects     iii) Ocular defects     iv) Lips and cheek defects	Lecture		Class Participation  Term and final examination
Splints , bite raising appliances and stents	<ol> <li>List down the types of splints</li> <li>Discuss the prosthetic importance of bite-plane appliances</li> <li>Describe its complication</li> <li>Explain indication, fabrication and impression technique for stents</li> </ol>	Lecture	Practical	Class Participation  Term and final  examination





#### **ON PATIENT:**

- History taking
- Examination
- 5 sets of Alginate Impressions
- 5 Models of impressions with bases
- 1 case of complete denture
- 1 Complete denture history examination and diagnosis
- 2-3 partial dentures
- 2-3 partial denture history examination and diagnosis
- 5 Clasp formation
- · Observation of clinical steps of distal extension partial dentures
- Observation of tooth preparation.

#### ON MODEL/PHANTOM TEETH:

#### **Fixed Prosthodontics**

- 2 PFM crown preparations on anterior and posterior teeth
- Temporary crown fabrication

#### **Removable Prosthodontics**

#### **Complete Denture**

- Self cure denture base:
  - o Ideal die model pouring for maxilla and mandible
  - o Separating media application
  - Mixing of material
  - o Fabrication of tray
  - o Finishing
  - o Polishing
  - Wax rim formation
  - Articulation
  - Class 1 teeth setup
  - Flasking
  - Dewaxing
  - Separating media application
  - Packing
  - Curing
  - Deflasking
  - o Finishing
  - o Polishing
  - Handling of impression material (impression compound and green stick) on ideal model
  - Observation of obturator fabrication on ideal model.

#### For Removable Partial Denture

- 5 clasps formation
  - o Ideal die model pouring for maxilla and mandible
  - Designing of clasp
  - Clasp formation
- Kennedys class 1
  - o Ideal die model pouring for maxilla and mandible
  - Base formation
  - o Undercut blocking
  - Designing
  - o Articualtion
  - Wire work o Wax up
  - o Teeth setup
- 1 occlusal splint fabrication
  - o Oral examination
  - o Impression record and model poring with base formation
  - o Bite registeration
  - o Articulation
  - o Wax-up and finishing of occlusal splint

  - o Dewaxing
  - o Separating media application
  - o Packing
  - Curing
  - Deflasking
  - o Finishing
  - Polishina

#### **OTHERS**

- Presentations





### **LIST OF INSTRUMENTS AND MATERIALS**

#### **FOR PATIENTS:**

- > Face mask
- Surgical gloves
- Examination instruments sets with tray
  - ✓ Mouth mirror
  - ✓ Explorer
  - ✓ Cotton forceps
- > Set of partial denture trays
- > Set of complete denture trays

#### **MATERIAL**

Alginate impression material

#### **FOR PRACTICAL WORK:**

- Pliers
  - ✓ Round
  - ✓ Flat
  - ✓ Adam's
- Wire cutter
- > Stainless steel wire
- Rubber bowls
  - ✓ Alginate
  - ✓ Plaster
- > Spatulas
  - ✓ Curved
  - ✓ Straight
- ➤ Burs
  - ✓ Straight fissure bur
  - ✓ Tapered fissure bur
  - ✓ Topedo ended bur
  - ✓ Wheel bur

Phantom teeth (2 premolars lower, 2 premolars upper, 2 molars lower, 2 molars upper, 4 maxillary central incisors)

- Plaster knife
- Wax knife
- Wax carver
- ➤ Glass slab
- Articulator
- Dental flasks
- Spirit lamps
- Plaster scissors
- > High speed hand piece





### **Assessment Form**

### **PRESENTATIONS**

#### KEY:

Excellent	Good	Fair	Satisfactory	Needs Improvement
9-10	8-7	6-5	4-3	2-1

CNO	TORIC	CHDEDVICOD	CDADE	DATE	CICN
S.NO	TOPIC KENNEDY'S CLASSIFCATION AND	SUPERVISOR	GRADE	DATE	SIGN
1.	APPLEGATE'S RULE		a I		
2.	DENTAL WAXES				
3.	ALGINATE				
	IDEAL TEETH ARRANGEMENT IN				
4.	COMPLETE DENTURE				
5.	MAXILLARY MAJOR CONNECTORS				
6.	MANDIBULAR MAJOR CONNECTORS			7	
7.	MINOR CONNECTORS				
8.	DIRECT RETAINERS (OCLUSSALLY				
	APPROACHING)				
9.	DIRECT RETAINERS (GINGIVALLY			<	
	APPROACHING)	1	· ·		
10.	INDIRECT RETAINERS				
11.	REST AND REST SEATS	F			
12.	SURVEYOR AND SURVEYING	Late and the same			
13.	DESIGNING OF KENNEDY'S CLASS I AND CLASS II				
14.	DESIGNING OF KENNEDY'S CLASS III AND CLASS IV		65/		
15.	IMPRESSION OF KENNEDY'S CLASS I	10			
	AND II	- 21'			
16.	ALTERED CAST TECHNIQUE				
17.	PONTICS				
18.	TYPES OF BRIDGES				
19.	TYPES OF ABUTMENTS				
20.	PRINCIPLES OF CROWN PREPARATION				





### **Assessment Form**

### **TUTORIALS**

S.NO	TOPIC	SUPERVISOR	STUDENT SIGN
1.	Steps of complete denture fabrication		
2.	History and examination for complete denture		
3.	Impression techniques for CD		
4.	Jaw relation record		
5.	Ideal teeth setup	EDIA	
6.	Post insertion complaints of CD	-0//-//	
7.	Principles of crown preparation		







### **CLINICAL WORK DEMONSTRATION**

S.NO	TASK	DATE	SUPERVISOR NAME	STUDENT SIGN
1.	Alginate impression for RPD			
2.	Bite registeration for RPD			
3.	Trial for RPD	Die		
4.	Insertion for RPD		1/2	
5.	Primary impression for CD		(P)	
6.	Border moulding for CD			
7.	Secondary impression for CD			
8.	Jaw relation record for CD	4	5116	
9.	Trail for CD	and .	R 6	
10.	Insertion for CD		3 5	
11.	Complains for CD/RPD		1.51	
12.	Special impression techniques		26	





### **PRACTICAL WORK DEMONSTRATION**

S.NO	TASK	DATE	SUPERVISOR NAME	STUDENT SIGN				
	COMPLETE DENTURE							
	Fabrication of self-	-cure de	enture base					
a)	Undercut seal and separating media application							
b)	Finishing and polishing	EDIA						
c)	Wax rim formation	7,0	11/2					
d)	Articulation		N. C.					
e)	Class - I ideal complete denture teeth setup							
f)	Flasking							
g)	Dewaxing		0					
h)	Separating media application			31				
i)	Packing	E.	1	<				
j)	Deflasking	£.,	7					
k)	Finishing			/				
l)	Polishing		.(3//					
CLAS	CLASPS							
a)	Anterior clasp	احتام						
b)	Posterior clasp							





PAR1	TAL DENTURE					
a)	Kennedy's class - I teeth setup					
<u>IMPR</u>	ESSION WITH MODEL PC	URING				
a)	Maxillary and Mandibular impression with model pouring					
<u>occ</u>	OCCLUSAL SPLINT					
a)	Oral examination	DIO.				
b)	Impression record and model poring with base formation		<b>/</b> /:\			
c)	Bite registeration		CP.			
d)	Articulation					
e)	Wax-up and finishing of occlusal splint					
f)	flasking		5			
g)	Dewaxing	-				
h)	Separating media application	land.	3 3			
i)	Packing		F. C			
j)	Curing		1,5,1			
k)	Deflasking		(3)			
I)	Finishing	-31				
m)	Polishing					
FIXED PROSTHODONTICS						
a)	All ceramic anterior crown preparation					
b)	PFM posterior crown preparation					
c)	Temporary crown fabrication					





### **PRACTICAL WORK PERFORMANCE**

S.NO	TASK	DATE	GRADE	SUPERVISOR SIGN
CON	APLETE DENTURE			
	Fabrication of self-cure	denture	base	
a)	Undercut seal and separating media			
	application			
b)	Finishing and polishing			
c)	Wax rim formation	IIO,		
d)	Articulation			
e)	Class I teeth setup			
g)	Flasking		4	
h)	Dewaxing			
i)	Separating media application			
j) /	Packing			31
k)	Deflasking			
l)	Finishing			
m)	Polishing			
CLA:	SPS			31
c)	Anterior clasp		3 / 2	K I
d)	Anterior clasp		3	
e)	Posterior clasp			- //
f)	Posterior clasp		127	
g)	Posterior clasp		6	
<b>IMPR</b>	ESSION WITH MODEL POURIN	VG		
b)	1st maxillary and mandibular impression			
	with model pouring			
c)	2 <sup>nd</sup> maxillary and mandibular			
۵۱	impression with model pouring			
d)	3 <sup>rd</sup> maxillary and mandibular impression with model pouring			
e)	4 <sup>th</sup> maxillary and mandibular			
,	impression with model pouring			
f)	5 <sup>th</sup> maxillary and mandibular			
	impression with model pouring			
<u>OCC</u>	<u>LUSAL SPLINT</u>			
d)	Oral examination			





e)	Impression record and model poring with base formation
f)	Bite registeration
g)	Articulation
h)	Wax-up and finishing of occlusal splint
i)	flasking
j)	Dewaxing
k)	Separating media application
I)	Packing
m)	Curing
n)	Deflasking
0)	Finishing
p)	Polishing
FIXE	D PROSTHODONTICS
a)	1 <sup>st</sup> All ceramic anterior crown preparation
b)	2 <sup>nd</sup> All ceramic anterior crown preparation
c)	1st PFM posterior crown preparation
d)	2 <sup>nd</sup> PFM posterior crown preparation
e)	Temporary crown fabrication





### **ASSESSMENT FORM FOR IMPRESSION**

#### KEY:

5	4	3	RY 2	IMPROVMENT 1
FXCFLI FNT	GOOD	FAIR	SATISFACTO	NEEDS

### **Alginate Impression Record:**

inate Impression Record:								
1.	Covering of unit							
2.	Chair positioning							
3.	Consent							
4.	Gloves		CO					
5.	Mask							
6.	Head cap	5_	20					
7.	Material		7					
X	IMPRESSION							
	TAKING	25	6					
11.5	Mixing of impression material		17.01					
2.	Selection of instruments		12/					
	a. Bowl		10					
	b. Spatula	5.7						
	c. Tray	الحتام						
3.	Chair positioning							
4.	Operator positioning							
5.	Method of impression taking							
6.	Water powder ratio							
7.	Final Impression							





### **ASSESSMENT FORM FOR TEETH SETUP**

#### KEY:

EXCELLENT	GOOD	FAIR	SATISFACTO RY	NEEDS IMPROVMENT
5	4	3	2	1

### Alginate Impression Record:

S. NO	STEPS	MARKS	REMARKS	SIGN
1.	RECORD BLOCK		G.	
76	a) DENTURE BASE			
	b) WAX RIM			
2.	ARTICULATION			
3.	MIDLINE			
4.	TEETH SETUP		S	
	a) OVERJET			
	b) OVERBITE			
	c) INCLINATION OF ANTERIOR TEETH	Park.		
,	d) CUSPID-CUSPID LINE	£.,	B	
	e) CUSPID-MOLAR LINE	Carlot Inc.		
	f) CUSPID RETROMOLAR LINE		7.57	
	g) molar relationship		6	
	h) POSTERIOR TEETH INCLINATION	2 - 51 0		
5.	FINISHING AND FISTUNING			





### **ASSESSMENT FORM FOR CLASP**

#### KEY:

5	4	3	2	1
EVCELLEIMI	GOOD	FAIR	RY	IMPROVMENT
FXCFLIENT	GOOD	FAIR	SATISFACTO	NEEDS

# TEETH SETUP FOR PARTIAL DENTURE:

S. NO	STEPS	MARKS	REMARKS	SIGN
1,	DESIGNING ON MODEL			
2.	WROUGHT WIRE CLASP FORMATION ON MOLAR			
3.	WROUGHT WIRE CLASP FORMATION ON PREMOLAR		S	
4.	WAXUP			
5.	TEETH SETUP			











### **LEARNING OUTCOMES**

	PEDIATRIC DENTISTRY
	ears of BDS Program, the dental graduate will be
Knowledge:	<ul> <li>Correlate the concepts of basic and clinical dental sciences to practice paediatric dentistry.</li> <li>Assess children presenting with common dental complaints, while carrying out examinations and relevant investigations to diagnose the problem.</li> <li>Develop critical thinking and reasoning to manage dental problems in children including caries, trauma, periodontal and orthodontic problems.</li> </ul>
Skills:	<ul> <li>Take history and conduct clinical examinations and investigations that allow collection of information required to evaluate the cause of a problem in a child.</li> <li>Determine the differential and definitive diagnosis by interpreting and correlating findings from history, clinical and radiographic examination together with other diagnostic tests.</li> <li>Formulate treatment plan relevant to specific needs of a child.</li> <li>Remove or otherwise treat carious tooth structure under rubber dam isolation, demonstrating appropriate instrument selection and manipulation of restorative material to restore tooth form, function and aesthetics.</li> <li>Treat teeth with pulpal diseases under rubber dam isolation using techniques such as indirect/direct pulp capping, pulpotomy to relieve pain and maintain pulp vitality or otherwise with root canal treatment where pulp is necrotic.</li> <li>Perform extractions, serial extractions or align teeth orthodontically where indicated.</li> <li>Demonstrate oral hygiene instructions, topical fluoride therapy and fissure sealing.</li> <li>Counsel the children regarding diet relevant to oral health</li> </ul>
Attitude:	<ul> <li>Demonstrate caring and ethical behavior and professional attitude to children.</li> <li>Establish a child patient- dentist relationship that allows effective delivery of dental treatment including communication to childs' parents or guardians, the knowledge and understanding of treatment proposed or advice given.</li> <li>Acknowledge that the child is the centre of care and that all the interactions including diagnosis, treatment planning and treatment have the child's best interests as the focus of that care.</li> <li>Demonstrate giving constructive feedback to the child and the parents/guardians while monitoring the accomplishment of oral health care, instructions and advice</li> </ul>





COURSE TOPIC: INTRODUCTION TO PEDIATRIC DENTISTRY						
La obura Tania	Learning Objectives	Mode	of Teaching	- Assessment Tools		
Lecture Topic		Lectures	Clinical	Assessment tools		
Introduction To Pediatric Dentistry	<ul> <li>➢ Discuss development of dentition.</li> <li>➢ Differentiate between primary and permanent teeth on the basis on structure composition and size</li> <li>➢ Explain the chronology of development of primary and permanent dentition</li> <li>➢ State exfoliation &amp; eruption timing, sequence of primary teeth, sequence of eruption permanent teeth eruption.</li> </ul>	Lecture (1)		Final Examination		

COURSE TOPIC: PAIN AND ANXIETY MANAGEMENT OF PEDIATRIC PATIENT					
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools	
reciore ropic	Learning Objectives	Lectures	Clinical	Assessifie iii 100is	
Pain And Anxiety Management Of Pediatric Patient	➤ List various pharmacological and non-pharmacological methods of pain and anxiety control.     ➤ Describe different behavioral management strategies for pediatric patients.     ➤ State different sedation techniques for pediatric patients.     ➤ Explain the dental management of children with special needs.     By the end of paedodontic OPD rotation the final student will be able to:     ➤ Demonstrate various behavioral management strategies on simulated pediatric patients.     ➤ Write down a prescription for pain and infection control in pediatric patients presenting with endodontic pain.	Lecture (2)	Tutorial/ Small Group Discussion On simulated patient	Class Participation Final Examination Google assignment	





Lecture Topic	Learning Objectives	Mode	of Teaching	- Assessment Tools
reciole topic		Lectures	Clinical	Assessment tools
Prevention Of Dental Caries for pediatric patient	<ul> <li>Describe various medical conditions that may affect the management of pediatric patients.</li> <li>Discuss effects of diet on dental tissues.</li> <li>State various sources of sugars.</li> <li>Describe the effect of fluoride on the dental caries process.</li> </ul>	Lecture (3)		Class Participation Group Assignment Final Examination Mini CEX OSATS Google assignment
	<ul> <li>Discuss mechanism of action of fluoride</li> <li>Discuss management of accidental fluoride toxicity</li> <li>Explain the rationale of fluoride supplementation.</li> <li>Describe different vehicles of fluoride</li> </ul>		CBL on fluoride	
	delivery.  Explain the importance of parental counseling.  Describe the importance of dietary management and home care in caries prevention.  State the importance of regular		toxicity  Tutorial/ Small Group Discussion On patient	
	dental follow-ups.  Discuss the importance of fissure sealing and acid etch technique as a preventive measure.  Describe the placement of pit and fissure sealants and preventive resin restorations in primary teeth.			CTRV
	By the end of the paedodontics OPD rotation the student will be able to:  > Take a medical and dental history of a pediatric patient.  > Counsel parent/ guardian of a			
	pediatric patient regarding measures to prevent dental disease.  Demonstrate correct tooth brushing technique.			





Locturo Tonio	La sumina a Obia aliana	Mode of Teaching		A
Lecture Topic	Learning Objectives	Lectures	Clinical	- Assessment Tools
Local Anesthesia Technique For Pediatric Patient	<ul> <li>➤ Summarize new techniques for achieving topical anesthesia.</li> <li>➤ List non pharmacological pain control methods</li> <li>➤ Describe available topical anesthetic solutions.</li> <li>➤ Describe new techniques for achieving topical anesthesia.</li> <li>➤ List various techniques of local anesthesia administration.</li> <li>➤ Describe supplemental anesthesia techniques</li> <li>➤ Enlist contraindications of local anesthesia</li> <li>➤ Describe pain free anesthesia technique.</li> <li>➤ Interpret Possible complications of</li> </ul>	Lecture (2)	Tutorial/ Small	Final Examination OSATS
	local anesthesia.  By the end of paedodontic OPD rotation the		Group Discussion	

COURSET	OPIC: RESTORATIVE DENTISTRY	Y FOR PE	EDIATRIC DE	INTITION
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
	Learning Objectives	Lectures	Clinical	Assessifielli 100is
Restorative Dentistry For Pediatric Dentition	Discuss methods to detect and diagnose dental caries in primary teeth.  Describe the pattern of early childhood caries and its management.  Discuss the radiographic views that are of value in diagnosing dental caries.  Explain the importance of isolation when restoring teeth.  Explain the importance of matricing in proximal decay.  Describe restorative materials that can be used to restore a carious lesion.  Describe restoration of occlusal and proximal caries.  List the indications and techniques for stainless steel crowns and strip crowns.  Discuss alternative to conventional cavity preparation  By the end of the paedodontics OPD rotation the student will be able to:  Demonstrate history taking, examination and diagnosis in a pediatric patient presenting in OPD.  Diagnose dental caries in primary teeth based on clinical and radiographic examination.  Prepare cavities and fill with suitable material in children presenting in OPD.	Lecture (1)	Tutorial/ Small Group Discussion On Patient	Class Test Class Participation Final Examination Mini CEX OSATS Google assignment
	Demonstrate technique for stainless steel crown.			





Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
recipie tobic	Learning Objectives	Lectures	Clinical	Assessment took
Pulp Therapy For Primary And Young Permanent Teeth	<ul> <li>Describe the development of a tooth from its eruption to root maturation.</li> <li>Explain the need to save primary teeth.</li> <li>Describe the importance of case assessment.</li> </ul>	Lecture/ Flip classroom (2)		Class Test Class Participation Final Examination Google assignment
	<ul> <li>➢ Describe the stabilization of mouth in case of rampant caries.</li> <li>➢ Describe the indications, contraindications and procedures in primary dentition for:         <ol> <li>i) Pulp cap,</li> <li>ii) Pulpotomy,</li> <li>iii) Pulpectomy</li> <li>➢ Describe indications,</li> </ol> </li> </ul>	G//	CBL on Apexification	
	contraindications in young permanent dentition for:  i) Indirect pulp cap,  ii) Direct pulp cap,  iii) CvekPulpotomy,  iv) Apexogenesis,  v) Apexification  Pescribe the role of regenerative		Tutorial/Small Group Discussion	
	endodontics in the management of non-vital immature teeth.  By the end of the paedodontics OPD rotation the student will be able to:  Perform indirect pulp cap procedure on primary and young permanent teeth.  Formulate a treatment plan for the patient presenting with premature roots according to			CIPY





COURSE TOPIC: INHERITED ANOMALIES OF ENAMEL AND DENTIN				
Lecture Topic	Learning Objectives	Mode of Teaching		- Assessment Tools
recipie tobic		Lectures	Clinical	Assessifielli 100is
Inherited Anomalies Of Enamel And Dentin	List various inherited enamel and dentin defects.  Discuss the clinical problems associated and treatment objectives when managing inherited enamel and dentin defects.	Lecture (5)	CBL on inherited enamel and dentin defects. Tutorial/ Small Group Discussion	Class Test Class Participation Final Examination Google assignment
	Discuss the etiology, prevention, clinical features and management of:     i) Amelogenesis Imperfecta     ii) Dentinogenesis Imperfecta     iii) Molar Incisor hypomineralization.     iv) Dentin dysplasia	IG//		
	By the end of paedodontics OPD rotation final year student will be able to:  Diagnose (paper based cases only/ not on patients) on history, clinical and radiographic findings:  i) Amelogenesis Imperfecta  ii) Dentinogenesis Imperfecta			







COURS	COURSE TOPIC: PERIODONTAL DISEASES IN PEDIATRIC PATIENT				
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools	
Lectore Topic	Learning Objectives	Lectures	Clinical	Assessifielli 100is	
Periodontal Diseases In Pediatric Patient	<ul> <li>➤ Classify periodontal diseases in Children.</li> <li>➤ Discuss the etiology, clinical features and management of acute gingival conditions:</li> <li>I.Primary herpetic gingivostomatitis</li> <li>I.Necrotizing ulcerative gingivitis.</li> <li>➤ Discuss the etiology, clinical features and management of chronic gingivitis and periodontitis.</li> <li>➤ Discuss etiology, clinical features and management of drug induced gingival enlargement.</li> <li>➤ Discuss periodontal disease as a manifestation of various syndromes and systemic diseases in children.</li> </ul>	Lecture (3)	CBL on drug induced gingival enlargement. Tutorial/ Small Group Discussion	Class Test Class Participation Final Examination	

COURSET	OPIC: ANOMALIES OF TOOTH	FORMA	TION AND E	RUPTION
Lecture Topic	Learning Objectives	Mode	of Teaching	- Assessment Tools
Lectore Topic	Leaning Objectives	Lectures	Clinical	Assessifient tools
Anomalies Of Tooth Formation And Eruption	<ul> <li>➢ Discuss the prevalence, etiology and management of variation in the number of teeth.</li> <li>➢ Discuss various anomalies in tooth size and their management.</li> <li>➢ Describe various anomalies of tooth form and their management.</li> <li>➢ Describe disturbances in eruption and exfoliation and its clinical significance.</li> <li>By the end of paedodontics OPD rotation final year student will be able to:</li> <li>➢ Diagnose anomalies of tooth size and form based on clinical and radiographic findings.</li> <li>➢ Diagnose disturbances in eruption and exfoliation based on history, clinical and radiographic findings</li> </ul>	Lecture/ Flip classroo m (5)	Tutorial/ Small Group Discussion  Tutorial/ Small Group Discussion	Class Test Class Participation Final Examination





COURSE TOPIC: THE PEDODONTIC-ORTHODONTIC INTERFACE				
Locture Tenie	Lograina Objectives	Mode	of Teaching	- Assessment Tools
Lecture Topic	Learning Objectives	Lectures	Clinical	Assessment tools
The Pedodontic- Orthodontic Interface	<ul> <li>Explain the importance of screening patients for orthodontic referral at the correct time.</li> <li>Define interceptive orthodontics.</li> <li>Describe the rationale and sequence of serial extractions.</li> <li>Summarize various space maintainers used in mixed dentition.</li> <li>List various habit breaking appliances in pediatric patients.</li> <li>By the end of paedodontics OPD rotation final year student will be able to:</li> <li>Formulate a referral letter to an orthodontist when required.</li> </ul>	Lecture (1)	Tutorial/ Small Group Discussion	Class Test Class Participation Final Examination

Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
Leciole Topic	Learning Objectives	Lectures	Clinical	Assessifient tools
Oral Surgery And Pathology In Pediatric Patients	Describe lesions affecting the oral soft tissues in children: i) Infections, ii) Ulcers, iii) Vesiculobullous, iv) White lesions, v) Cysts, vi) Tumors. Describe lesions affecting the jaws in children: i) Cysts, ii) Developmental, iii) Osteodystrophies, iv) Tumors.	Lecture (2)		Class Test Class Participation Final Examination





	COURSE TOPIC: DENTA	AL TRAU/	MA		
Lecture Topic	Learning Objectives	Mode	of Teaching	- Assessment Tools	
recipie tobic	Learning Objectives	Lectures	Clinical	Assessifie iii 100is	
History And Examination	Classify dento-alveolar injuries.  Dutline the importance of a detailed history of trauma including past medical and dental history.  List the questions to be inquired from a patient presenting with history of dental	Lecture (1)		Class Test Class Participation Group Assignment Final Examination Mini CEX	
	trauma.  Discuss the appropriate radiographs needed for an accurate diagnosis.  List and discuss appropriate investigations for patients with dental trauma.  By the end of paedodontics OPD rotation final year student will be able to:  Take comprehensive medical & dental history of the patient present with traumatic injuries in the OPD.	IG//	Tutorial/ Small Group Discussion (CBL) On patient/ Simulated patient		
Healing After Trauma	Perform extra and intraoral examination on a patient presenting with traumatic injuries in the OPD.  List the different types of healings	Lecture	Tutorial/ Small	Class Test	
	following dental trauma.  Describe the healing of pulp and factors affecting its healing.  Describe the healing of periodontium and factors affecting its healing.  Differentiate between various types of root resorptions:  i) External resorption,	(2)	Group Discussion	Class Participation Final Examination	
Injuries To Primary	<ul> <li>ii) Cervical resorption,</li> <li>iii) Internal resorption,</li> <li>iv) Replacement resorption.</li> <li>Discuss management of hard tissue</li> </ul>	Lecture		Class Test	
Dentition	injury in the following categories: i) Uncomplicated crown fracture, ii) Complicated crown fracture, iii) Crown-root fracture, iv) Root fracture.  > Describe management of soft tissue injury in following categories: i) Concussion,	(1)	65.5	Class Participation Final Examination	
	ii) Subluxation, iii) Extrusive luxation, iv) Lateral luxation, v) Intrusion, vi) Avulsion.  Pescribe the sequelae of injuries to the primary dentition.	510	(CBL) Tutorial/Small Group Discussion		
	By the end of paedodontics OPD rotation final year student will be able to:  Formulate a treatment plan for the patient presenting with traumatic injuries in the OPD.				
Injury To Permanent Dentition-Hard Tissue	<ul> <li>Explain management of hard tissue injury in the following categories:</li> <li>i) Enamel infraction,</li> <li>ii) Enamel fracture,</li> <li>iii) Enamel-dentin fracture,</li> <li>iv) Complicated crown fracture,</li> <li>v) Uncomplicated crown-root fracture,</li> <li>vi) Complicated crown-root fracture,</li> </ul>	Lecture (2)		Class Test Class Participation Final Examination	





Injury To Pormanont	vii) Root fracture.  Discuss the types and uses of splints.  Explain the duration of splint therapy in each injury.  Describe the procedure for placement of composite and wire splint.  By the end of paedodontics OPD rotation final year student will be able to:  Diagnose and formulate a treatment plan for the patient presenting with traumatic injuries in the OPD.	Lecture	(CBL) Tutorial/ Small Group Discussion	Class Test
Injury To Permanent Dentition-Luxation And	Describe management of soft tissue injury in following categories:	(3)		Class Test Class Participation
Avulsion	i) Concussion,			Final Examination
	ii) Subluxation, iii) Extrusive luxation,			
	iv) Lateral luxation,			
	v) Intrusion,		(CBL)	
	vi) Avulsion.		T 1 : 1/6 "	
	Describe duration of splint therapy in each injury.	In.	Tutorial/Small Group	
	Describe the rationale of delayed re-	4 <b>6</b> / A	Discussion	
	implantation of an avulsed tooth.			
	By the end of paedodontics OPD rotation final			
	year student will be able to:			
	Formulate a treatment plan for the patient presenting with traumatic injuries in the			
/ C	OPD.			

COURSE TOPIC: ADVANCED RESTORATIVE DENTISTRY				
Lecture Topic	Learning Objectives	Mode	of Teaching	Assessment Tools
Lectore Topic	Learning Objectives	Lectures	Clinical	Assessifielli 100is
Advanced Restorative Dentistry	▶ List the advanced restorative techniques.     ▶ Define bleaching     i) Non vital bleaching     ii) Vital bleaching chair     iii) Vital bleaching night guard     ▶ List causes of tooth discoloration.     ▶ Enumerate types of bleaching.     ▶ State indication and contraindications of     i) Non vital bleaching     iii) Vital bleaching chair	Lecture (4)		Class Test Class Participation Final Examination





GUID	E TO CLINICAL SKILL LAB (COD)
Introduction	Clinicians are defined by their skill sets. From listening to procedures the continuum of skills that are garnered by learners and dental students are myriad. We believe learning is a life-long process. The emphasis on skill acquisition is one of the key features of the competency based curriculum and in many ways is its soul. The competency based undergraduate curriculum provides a framework for learning and assessing skills. The Clinical skill laboratory provides a supportive environment in which learners can acquire and practice skills and be observed and assessed.  As well as promoting personal professional development, PDC aims to maintain and develop competencies (knowledge, skills and attitudes) of the individual student and health care worker, essential for meeting the changing needs of patients and the health care delivery system, responding to the new challenges from the scientific development in medicine and dentistry, and meeting the evolving requirements of society.
Knowledge	Attitude Responsiveness Communication
Vision	The Clinical Skill Laboratory will be a local center of excellence and innovation for health care simulation, education, acquisition of skills, research, and health system integration to ensure patient safety
Mission	The Clinical Skill laboratory mission is in accord with the mission of College of dentistry (LCMD). The Clinical Skill laboratory will provide a replica of the patient care environment where students can apply cognitive, psychomotor, and affective skills and instructors can facilitate learning and objectively measure student performance and competency
Goals	<ul> <li>The goal of skill lab is to create an artificial replication of the real world situation in which students can gain knowledge and psychomotor skills and be able to critically think through complex scenarios in a safe and non-threatening environment.</li> <li>Develop new technical skills and refresh current competencies</li> <li>Playing a critical role in shaping patient safety initiatives by national and institutional assessment of needs for simulation-based education</li> <li>Keep up-to-date on best practices</li> <li>Learn how to incorporate the latest technologies, new learning methods and educational strategies into teaching.</li> <li>Explore inter-professional education</li> <li>Establishing local, regional and national partnerships</li> <li>Advancing the field of health care simulation through research and dissemination of our work in relevant local, regional and national forums</li> <li>Targeting multi-disciplinary health care teams, helping all members understand their roles and communicate effectively</li> </ul>
Skills Lab Protocols For Students	<ul> <li>Information shall be forwarded to all students regarding respective skill session a week prior through timetable.</li> </ul>





	COLLEGE OF DENTISTRY						
	<ul> <li>Punctuality and regularity is mandatory for all the students.</li> <li>Students are bound to follow safety guidelines of skill lab</li> <li>Student should follow the infection control protocols. All students should wear face masks in Skill lab premises and maintain social distancing.</li> <li>Logbook should be filled by students at the end of each session and should be signed by their respective supervisor/instructor</li> <li>At the end of session final assessment of the student should be done through questionnaire/test and attendance will be marked after clearing it.</li> <li>The attendance of the sessions will be counted in internal evaluations</li> <li>At the end of the session, students should be provided with the</li> </ul>						
Skills Lab Safety Guidelines	<ul> <li>feedback forms in which they give feedback</li> <li>The following guidelines for the smooth running of Skills and Simulation lab are presented and the students are expected to follow these.</li> <li>All students are encouraged to follow infection control protocols</li> <li>All students are directed to keep all their belongings in a separate area dedicated for this purpose.</li> <li>No student is allowed to use mobile phones into the learning area of skills lab.</li> <li>They are strictly prohibited to write anything on the manikins, tables, walls and blends etc.</li> <li>Needles and blades used in skills lab should not be reused and should be disposed of in the nearest sharps container.</li> <li>Soiled linen should be immediately sent to laundry.</li> <li>All tubes, catheters, dressings, tape, etc. must be removed and the area cleaned appropriately upon completion of simulated exercises.</li> <li>Manikins are to be left on the tables and not moved unless directed by the instructor.</li> <li>All drainage bags must be emptied, disposed of or cleaned appropriately for later use.</li> <li>Students who use the skills lab will keep the confidentiality and privacy of manikins. This rule will apply to all students who want to enter and use the skill lab manikins and any violation will result in disciplinary action against that student.</li> <li>Students are not to be left unattended by faculty or staff at any time.</li> <li>The doors to skills lab should be locked at all times when not in use.</li> <li>A first aid kit will be available all the time in the skill lab to be used in case of any injury to the student or faculty.</li> <li>No food and drinks will be allowed in skills lab.</li> <li>Students, staff and faculty must be aware that some of the equipment and supplies in the skill lab contains latex. Those with a known sensitivity / allergy to latex should contact the Director or coordinator. All users who suffer from a latex sensitivity / allergy should familiarize themselves with the policy and take preca</li></ul>						
Nominated Faculty	Coordinator PDC (Skill Lab) COD  (Assistant Professor Oral and Maxillofacial Surgery)  Dr. Samer (Instructor skill lab)						





PROFESSIONAL DEVELOPMENT CELL (SKILL LAB)							
Competencies	Learning Objectives	Teaching & learning Activities	Assessment tools	Outcomes			
Basic life support (BLS)  Biopsy Taking	<ul> <li>At the end of the session student of Final year BDS, should be able to:</li> <li>Analyze the conditions which needs BLS provision.</li> <li>Describe the method of Cardiopulmonary resuscitation in sequence.</li> <li>Describe the management of chocking in infants and adults</li> <li>Translate the steps of BLS provision.</li> <li>Perform the BLS following AHA guidelines</li> <li>At the end of the session</li> </ul>	Video, Practical demonstration followed by self on practice on manikin	Mini CEX, OSATS DOPS OSCE	By the end of the training program, students of Final year BDS should be able to: 1) Practice basic life support following the American heart association manual guidelines  Perform Incisional,			
	student of Final year BDS, should be able to:  Identify patient selection and preparation for biopsy  Describe optimal biopsy techniques  List potential complications  Describe all steps of the procedure correlating the antisepsis rules.  Recognize the advantages and disadvantages of choosing specific type of biopsy  Practice the Incisional, excisional, aspiration biopsies on models	demonstration		excisional and aspiration biopsies			
Primary Airway Management	At the end of the session student of Final year BDS, should be able to:  Name and label the major structures of the respiratory system on a diagram	Video, Role-play on manikin followed by self practice		Apply the primary airway management			





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	<ul> <li>List the signs of adequate breathing</li> <li>List the signs of inadequate breathing.</li> <li>Describe the steps in performing the head tilt—chin lift and jaw thrust</li> <li>Relate mechanism of injury to opening the airway</li> <li>Execute how to ventilate a patient artificially with a pocket mask</li> <li>Demonstrate the steps in performing the skill of artificially ventilating a patient with a bagvalve-mask</li> <li>Role-play how to measure and insert an oropharyngeal (oral) airway</li> <li>Role-play how to measure and insert a nasopharyngeal (nasal) airway.</li> </ul>	MEDIC.	
Orofacial Radiology	At the end of the session student of Final year BDS, should be able to:  Translate relevant anatomy, pathophysiology, technology and performance of examinations as it relates to the daily practice of orofacial radiology.  Interpret the basic plain film orofacial Radiograph  Differentiate between normal and abnormal findings on these radiographs.  Identify the needs of advising these Radiography  Analyze the harmful radiation doses and their effects	Presentation, CBL, small group discussion	Categorize the different orofacial plain radiographs





### **CODE OF CONDUCT**

#### STUDENT'S CODE OF CONDUCT

#### **PURPOSE:**

The purpose is to determine and set out general standards of conduct expected of student, provide examples of conduct that may be subject to disciplinary action by the institute and set out the process and procedures that it will follow when an allegation of non-academic misconduct is made. Students are expected to be aware of, and to conduct themselves in accordance with this Code.

Failure to fulfill these responsibilities may result in the withdrawal of privileges or the imposition of sanctions.

#### APPLICATION:

This Code applies to conduct that:

- a) Occurs on or near the premises of the Institute and Hostel.
- Occurs elsewhere in the course of activities sponsored by the institute, or where the conduct is alleged to adversely affect, disrupt, or interfere with another person's reasonable participation in Institute's programs or activities; or
- Occurs in the context of a relationship between the student and a third party that involves the student's standing, status, or academic record at the Institute

#### STUDENTS' GENERAL CONDUCT AND BEHAVIOUR:

#### **GENERAL CONDUCT:**

#### 1. Identity Card:

Students shall always carry the identity card issued by LCMD and must be displayed within college premises. Students without ID card may not be allowed to enter the college premises.

Faculty members, student affair, administration staff and security staff are authorized to check ID cards at any time.

#### 2. Respect and Discipline:

- a) Students shall abide by rules and regulations of LCMD
- b) Students shall behave in a civilized manner during their stay in college. They must be co- operative with fellow students, faculty and staff and must not indulge in any action that is humiliating for others.
- c) Students shall avoid sitting on stairs, floors, and hallways.





- d) Students shall avoid gathering and shouting near the lecture halls, labs, office areas etc.
- e) Students shall avoid using mobile phones during lectures/practicals/tutorials/clinicals/ and in library
- f) Students shall present themselves with dignity befitting their status as mature, law abiding and responsible person and show tolerance toward religious, ethical, social and other differences.
- g) Students must not enter into any kind of monetary dealings with the teaching and non-teaching staff of the college, nor offer any gifts or gratifications in any form to them with a view to ease or resolve their academic related matters
- h) Refrain from any activity which is subversive of discipline and will bring the institute into disrepute

#### 3. Inappropriate use of language:

Students shall not use any such language or words that disturbs the other person emotionally or psychologically and/or is insulting.

#### 4. Outing during classes:

Students are to stay within the campus during the schedule of their classes/practicals/tutorials/ clinicals/exams. Should going out of the campus during these timings, should seek permission in writing from HoDs/ Principal/Registrar/Incharge Student Affairs.

#### 5. Usage of college premises:

Students must leave the college building after their classes are over unless they have specific assigned tasks or want to avail the library facilities. They are not expected to loiter in the college before or after their college timings.

#### 6. Substance abuse and addictions:

Students at no cost are expected to get into substance abuse as use of drugs and alcohol. If found involved in these will lead to strict disciplinary action.

Intoxicants as smoking, sheesha, tobacco, pan, chalia gutka chewing are strictly prohibited in college.

#### 7. Possession of items:

Students shall have in their possession only those items allowed by law and rules and/or college policies and rules





#### **DRESS CODE:**

#### 1. Principles:

Dress code is based on following principles:

- Safety and respect
- Self-worth and self discipline
- Cleanliness and hygiene
- Appropriateness to the learning environment
- Accordance to the social and cultural values

#### 2. General Attire

- Wearing and displaying of student ID cards
- Wearing of Doctor's white coat (for students of clinical years, surgical scrubs may be worn instead according to policy of the department of rotation)
- Wearing of proper attire

#### **Proper attire for Males:**

- Formal shirt/dress pants(Shalwar Kameez allowed on Fridays only) that are clean and ironed
- Formal shoes along with socks
- T-shirts, jeans, bermudas, shorts, sandals, knocking heels not allowed
- Short hair (no longer than nape of neck)
- Punk /spiked hairstyle not allowed
- Trimmed or shaved beard
- Neatly cut nails
- Visible tattoos not allowed

#### Proper attire for Females:

- Presentable, decent concealing dress that is clean and ironed.
- T-shirts, jeans. knocking heels not allowed
- Neatly tied hair
- Rattling jewelry not allowed
- Dupattas / chadders to be tucked inside doctor's white coat
- Doctor's white coat to be donned over the abayas (if worn by someone)
- Neatly cut nails
- Visible tattoos not allowed

#### 3. Library Rules:

#### a. Decorum:

- Students shall maintain silence in the library and shall not disturb others
- Smoking eating drinking talking chewing laughing is strictly prohibited in library
- Use of mobile phones is strictly prohibited in library
- While entering the library the students shall leave their personal belonging like bags, personal books, helmets etc at the counter outside library

#### b. Damage to library property

Student shall not deface, mark, cut, mutilate or damage the reading material of the library in any way. Those found doing so may be fined apart from being asked to pay the cost of the damage.

#### 4. Handling Of College Property:





- College's property is an asset for the students. It is the responsibility of the students not only to keep the property intact but to protect it as well
- Any item; book, journal, models, mannequins, bones, instruments, devices
  etc issued to the students to complete the assigned task must be returned
  in due time and in original condition. In case of any mishandling or
  damage, student would be asked to pay the cost of the damage
- Students must take care not to deface any part of the college premises.
   Writing on the walls is not allowed, pasting of any kind of posters, charts pamphlets etc of any kind is not permitted without prior permission of the Principal
- Tampering with notice board is prohibited

#### 5. Ragging (Zero Tolerance):

- Ragging in any form is strictly prohibited and most stringent actions will be taken against anyone caught ragging.
- Decorum Any conduct by students by words spoken, written or physical
  action that has the effect of teasing, treating or handling with rudeness or
  ridiculing a fresher or any other student or causes annoyance, hardship,
  physical or psychological trauma or raises a fear or apprehension will not
  be tolerated and is liable to strict disciplinary action
- Any act of financial extortion or forceful expenditure burden put on fresher or any other student is also ragging and at no cost will be tolerated.







#### DISCIPLINARY ACTION AGAINST STUDENT

The disciplinary action taken when the facts of the case warrant it will be determined by the severity of the offence. Persistent breaches of the same or similar rules will lead to progressively more severe action occurring.

#### A. INFORMAL ACTION

Where an allegation of misconduct is made, it does not necessarily follow that disciplinary procedures have to be invoked. Where the decision maker (HOD/ supervisor/ incharge) judges it appropriate, the allegation may be resolved informally by the provision of advice for future behavior. If the misconduct is Minor in nature and the concerned student accepts responsibility of the act, the concerned authority as the head of department, immediate supervisor, or incharge would counsel the student alongwith constructive feedback.

#### B. FORMAL ACTION:

### 1. MINOR OR INTRMEDIATE MISCONDUCT

1. STAGE 1- VERBAL WARNING

If the conduct does not meet acceptable standards, and where previous such minor misconducts have been committed and past counseling/s have not improved the conduct, a formal VERBAL WARNING would be given. The student will be informed of the reason of the warning. A brief note of verbal warning will be kept in student's record file in the concerned department. The HOD/ supervisor/incharge of concerned department will also send this note to the student affairs department for record keeping. However, it will be disregarded for disciplinary action after 2 months, subject to satisfactory conduct and performance.

Upto 2 VERBAL WARNINGS may be given Only HOD/supervisors/incharges are authorized to give verbal warnings.

#### 2. STAGE 2- FIRST WRITTEN WARNING

If the misconduct is more serious/ moderate in nature, or if it is





repeated within 6 months of the previous verbal warnings or even if another nature of minor misconduct is committed by the same student, a FIRST WRITTEN WARNING will be handed over to him/her. This will be inclusive of the details of the complaint and inappropriate circumstances, the improvement required and time scale within which to achieve that improvement. It will also warn the student that action under STAGE- 3 will be considered if there is no satisfactory improvement or any repetition of misconduct. The student shall be asked to submit a written apology admitting the misconduct and agreeing not to redo the same in other case will be responsible for the consequences.

A copy of the written warning alongwith the apology letter will be kept in the student's record file in the concerned department. One copy will be sent to the student affairs department which will keep it in the student's record file. However, it will be disregarded for disciplinary action after 6 months, subject to satisfactory conduct and performance.

Only HOD/supervisors/incharges will be authorized to give first written warnings.

#### 3. STAGE 3- FINAL WRITTEN WARNING

If there is still failure to improve and/or conduct or performance is still unsatisfactory, a FINAL WRITTEN WARNING will be handed over to the student. This will give details of the complaints, the improvement required and time scale within which to achieve that improvement. It will also warn the student that case will be forwarded to the Student affairs department and strict disciplinary action under STAGE- 4 will be considered if there is no satisfactory improvement or any repetition of misconduct.

The student shall be asked to submit a written apology admitting the repetition of misconduct and agreeing not to redo the same in other case will be responsible for the consequences.

A copy of the written warning alongwith the apology letter will be kept in the student's record file in the concerned department. One copy will be sent to the student affairs department which will keep it in the student's record file. However, it will be disregarded for disciplinary action after 3 months, subject to satisfactory conduct and performance

Only the highest designation of the concerned department as





HOD/incharge will be authorized to give final written warnings. Depending upon the policy of the individual department, or as per discretion of the HOD/incharge of the concerned department, the HOD/ incharge in addition to giving the final written warning may impose penalties as:

- Suspension from academic activities; lectures/ tutorials, practicals/OPDs for up to 3 days to 7 days
- Allowed to attend academic activities but being marked as absent
- Suspension to avail library facilities or no permission to participate in cultural or sports events.
- Assignments/tasks
- Sent for community service
- Restitution for damage of property
- Monetary or any other fine







#### 4. STAGE 4- REFERAL TO STUDENT AFFAIRS

If the conduct or performance is still unsatisfactory and the student fails to reach the prescribed standards within 3 months of the final written warning or if another misconduct of serious nature is committed by the same student then a written complaint in the incident form duly signed by the HOD and mentioning the details along with the copies of previous notes of verbal and written warnings (if any) shall be forwarded to the department of Student Affairs to deal with the case.

Till the time the Student Affairs decides the action to be taken, the student may be suspended from all sorts of academic activities or even visiting the institute.

Only highest designation in the dept; HOD / incharge is authorized to file this complaint.

After receiving the complaint, the Student Affair Incharge will consider the allegations and may do any of the following:

- Meet with the student suspected of the misconduct;
- investigate further by any means deemed necessary and appropriate;
- refer the matter to the Chairperson Disciplinary Committee

If the Student Affair Incharge believes that the suspected misconduct does not require corrective action or that the Committee is not likely to find facts that would result in disciplinary action, the Student Affair Incharge may discontinue further action. Upon discontinuing further action, the Student Affair Incharge will notify the Committee and the student named in the allegations in writing of their decision.

If the Student Affair Incharge believes that non-academic misconduct has occurred, he may determine what, if any, steps the student could take to correct or resolve the matter. If the student agrees to the resolution proposed by the Student Affair Incharge, an agreement outlining the steps to be taken by the student will be drawn up and signed by the student. If the student does not agree, the student affair will refer the matter to the Disciplinary Committee.

#### 2. GROSS MISCONDUCT

If the incharge student affairs finds the misconduct committed by the student to be of Gross nature then the student affairs will directly





forward the case to disciplinary committee or a written complaint in the incident form duly signed by the HOD and mentioning the details may be directly forwarded to the Disciplinary Committee to deal with the case, by the concerned HOD. A copy of the complaint/incident form would be sent to the department of student affairs to be kept into the student's record file.

The student shall be informed of all the proceedings.

Till the time the disciplinary committee decides the action to be taken, the student shall be suspended from all sorts of academic activities or even visiting the institute.

Only highest designation in the dept; HOD / incharge is authorized to file this complaint

### C. THE PROCEDURE AND THE DISCIPLINARY HEARING:

- Where necessary, prior to any disciplinary hearing by the committee, an investigation will be conducted into the circumstances of the alleged offence. The purpose of this investigation will be to establish a fair and balanced view of the facts relating to any disciplinary allegations.
- The investigation may involve interviewing and taking statements from the alleged student and any witnesses and/or reviewing relevant documents. Investigative interviews are solely for the purpose of fact finding and no disciplinary action would be taken until the hearing has been held.
- The investigator/s would be one or more of the members of the disciplinary committee in addition to the incharge student affairs
- Proceedings will be treated in confidence and records kept as confidential as practically possible.
- If decided by the committee the student may be suspended from all academic activities during the investigation. However, this suspension is not a disciplinary action and does not imply that the decision has already been made.
- At the conclusion of the investigation, the investigator/s will write the
  findings and present it to the chair disciplinary committee together
  with copies of statements, interview notes and any other evidence
  that has been collected within 3 working days.
- Based upon the investigation, the chair disciplinary committee will decide, whether the matter can be resolved informally without





recourse to the formal hearing or if a disciplinary hearing needs to be arranged.

- In case a disciplinary hearing needs to be arranged, the student will be informed about the date, time and place, either verbally or in written.
- Failure to attend the hearing without any valid reason, by the student, will be treated as misconduct in itself.
- The purpose of the disciplinary hearing is to review the evidence and the enable the student to respond to any allegations that have been made against him.
- The hearing will be inclusive of all members of the Disciplinary Committee and presence of the investigator would be must. (if any member, secretary or chair of the committee is a part of the incidence or involved in any way, will not be included in the entire process)
- The student will NOT have a right to call for a witness or an advocate.
- The chair may recall any of the witnesses or interviewees if required.
- The chair may call for a meeting with parents of the student
- The hearing may have additional sittings if further investigations are required.
- Within 5 working days of the hearing, the committee shall present the report alongwith its conclusive decision to the Principals, College of Dentistry, and/or College of Medicine.
- The Principal/s shall make the final decision.
- The student shall be informed once final decision has been made by the Principal/s.
- The committee reserves the right to omit any of the above mentioned stages or procedure if and when the need is felt and depending upon the gravity of the misconduct and the circumstances.
- · An adequate record of the all the proceedings shall be maintained

#### D. LEVELS OF DISCIPLINARY ACTIONS FOLLOWING HEARING:

In arriving at a decision to what sanctions to impose for violation of code of conduct, depending upon the nature of infraction and the extent and gravity of the conduct, the Committee may decide to impose any of the following sanctions:

Written apology and undertaking from the student and/or parents





- Withholding/ withdrawing scholarship/ fellowship and other benefits
- Debarring from appearing in test/ examination or other evaluation processes
- Withholding test /exam results
- Debarring from representing the institution in any regional, national or international meet, tournament, festival etc.
- Monetary fine
- Restitution for the damage of property
- Prolonged suspension from academic, Co curricular /extra curricular activities. (in certain circumstances, readmission may be required following completion of suspension period)
- Suspension from hostel
- Cancellation of admission
- Rustication/expulsion from institution for an indefinite period or permanent(in which case student will not be considered to readmission)
- FIR with local police in case of student has alleged to have committed a criminal offence

#### E. APPEAL:

Any student who believes he/she has been disciplined unjustly may pursue a grievance within 5 working days of the receiving decision from the committee. (this excludes those misconducts that fall under the zero tolerance policy)

### F. ZERO TOLERANCE:

Zero tolerance refers to the set of discipline policies and practices that mandate predetermined consequences that are typically severe, punitive and enforced with immediate effect. Circumstances where the accused would be liable to expulsion from institute at first offence include but not limited to:

- A serious threat of violence against another student, faculty or staff
- Actual violence or physical assault
- Supplying illegal drugs to others in the college
- Sexual assault
- Carrying and using banned items as weapons
- Ragging of students within college and/or hostel premises





#### TYPES OF MISCONDUCT BY STUDENTS

Misconduct means conduct prejudiced to good order or working discipline contrary to LCMD's regulations and /or student's code of conduct

#### A. MINOR MISCONDUCT

Minor misconduct refers to the behavior which breaches the standards of conduct set out in the STUDENT'S CODE OF CONDUCT (2.1C), but where the extent, seriousness or impact of the breach is not substantial. However, misconducts that are committed repeatedly even when the student has previously been counseled about the standards of conduct required by the LCMD will not be considered as minor. It is not possible to include each and every type of act that is labeled as misconduct. However following is the list that provides examples of Minor Misconduct. In addition is to be highlighted that inclusion of an example in the list does not mean that the misconduct can only be dealt with as minor: judgments will always be needed to be made about the scale of the misconduct and any aggravating circumstances which may justify the misconduct being dealt with as Gross Misconduct

- Verbal abuse or intimidation
- Failure to comply with explicit rules or regulations particularly in nondesignated areas: smoking in premises, eating pan chalia gutka, talking loudly in library, causing disturbance in lectures, practical's and examinations, entering into unauthorized area, littering in college
- Failure to accomplish assigned tasks by the superiors
- Uninformed absenteeism and late arrivals and early leaves.
- Refusal to respond to reasonable requests by senior faculty or nonfaculty staff, e.g. refusing to confirm identity when asking to do so, refusing to wait for the turn or stand in a queue, refusing to obey when asked to not to sit on floors, stairways etc
- Causing distress to others by excessive or unacceptable levels of noise
- Causing minor damage to property as defacing or tearing of library books
- Anti social behavior which causes distress to others and/or





reputational harm to LCMD's relationship with its stake holders.

- Violation of dress-code of LCMD
- Playing any games at inappropriate places like corridors, lecture halls etc.
- Wastage of water and electricity
- Meaninglessly arguing with the seniors with no justification of view point
- Sleeping during academic sessions
- Misuse of college's property







#### B. MODERATE MISCONDUCT

All those minor misconducts committed repeatedly and intentionally, to damage or stop the work process, even after student counseling and advice may be classified as moderate misconduct but may not be limited to these.

#### C. GROSS MISCONDUCT

A Gross Misconduct is an act or behavior that is harmful or dangerous influence to others at the institute typically involving flagrant or willful violation of law, policy or standards of performance or conduct. Gross Misconduct may result in any level of discipline up to and including immediate dismissal at the Disciplinary Committee's discretion. Examples of acts classified under Gross Misconduct include but may not be limited to these:

- Verbal abuse or intimidation to the level that is highly objectionable,
- Ragging and/or bullying
- Violent behavior or that causing physical harm
- Sexual harassment
- Serious negligence which causes unacceptable loss, damage or injury
- Serious violation of health and safety rules jeopardizing the health and safety of self and/or others
- Possession and/or consumption of alcohol or intention to supply
- Possession and/or consumption of substances of abuse or intention to supply
- Possession of weapons or dangerous instruments or intention to supply
- Taking recourse to unfair means during examination and assessment.
- Damage to or destruction of LCMD's property; equipment devices of the institute rendering it useless.
- Damage to or destruction of private property of fellows, senior and/or junior faculty or non-faculty staff, patients or other visitors.
- Anti-social activities against the Institute and/or State
- Breach of security
- Disrespect to the faculty or non-faculty staff to the point that it is threatening
- Possession / use of pornographic material (books, magazines, CDs, internet)
- Publishing /distributing materials that may be damage /tarnish





LCMDs image

- Gambling in any form
- Indulging in any form of criminal activities
- Affiliation active involvement in political activities within campus
- Theft, fraud, corruption and deliberate falsification of records
- Unauthorized possession of institute's items, such as documents, exam papers, keys or ID cards etc. with the intention to misuse them.
- Forgery or furnishing false information regarding of one's identity, marks, qualification etc
- Bribing an employee of college with the intention of inducing the employee to perform unauthorized/illegal job for one's own benefit.
- Serious repeated and intentional violations of LCMD's rules and regulations and code of conduct even after giving of written warnings will be considered as Gross







### FLOW CHART OF SOPS IN CASE OF BREACH OF CODE OF CONDUCT BY THE STUDENT

### A. INFORMAL ACTION

Minor misconduct, first time, student accepts responsibility; case resolved by counseling and advice by HOD

#### **B. FORMAL ACTION**

Minor misconduct or intermediate misconduct or repetition

#### **STAGE 1- VERBAL WARNING**

Repitition of previous misconducts or no improvement in conduct

#### **STAGE 2- FIRST**

#### WRITTEN WARNING

Intermediate or more seious misconduct, repeated overtime

#### STAGE 3- FINAL

#### WRITTEN WARNING

Failure to improve or other misconducts by same student

### STAGE 4 – CASE REFERRED TO STUDENT AFFAIRS WITH CONCLUSIVE DECISION PRESENTED TO PRINCIPAL IN 5 WORKING DA

MINOR/ INTERMEDIATE MISCONDUCT RESOLUTION BY STUDENT AFFAIRS

COMPLIANCE

NON COMPLIANCE

**RECORD MAINTENANCE** 

REVIEW OF INFORMATION & INVESTIGATIVE FINDINGS BY THE DISCIPLINARY COMMITTEE

CASE RESOLUTION WITHOUT HEARING BY THE COMMITTEE

DISCIPLINARY
HEARING BY
THE COMMITTEE

**GROSS MISCONDUCT** 

CASE REFERRED TO
DISCIPLINARY COMMITTEE

INVESTIGATION
REPORT GENERATED BY
INVESTIGATOR IN 3
WORKING DAYS PRESENTED
TO COMMITTEE

FINAL REPORT ALONGWITH CONCLUSIVE DECISION PRESENTED TO PRINCIPAL/S COD/COM IN 5 WORKING DAYS

DISCIPLINARY ACTION TAKEN

FINAL DECISION INFORMED TO STUDENT

PRINCIPAL/S COD/COM

FINAL DECISION BY THE

**RECORD MAINTENANCE** 

APPEAL BY THE STUDENT





	RECOMMENDED BOOKS									
S. No	Subject	Book								
1.	Oral Surgery	<ul> <li>Contemporary oral &amp; maxillofacial surgery by Mayron R. tucker 5<sup>th</sup> edition</li> <li>Local anesthesia in dentistry by Geoffery L. howe 5<sup>th</sup> edition</li> <li>Medical Emergency in Dentistry by Scully</li> <li>Local Anesthesia by Mallamaid</li> <li>Killey's Fracture of the mandible by Peter Banks 5<sup>th</sup> edition</li> <li>Killey's Fracture of the middle third of the facial skeleton by Peter Banks 5<sup>th</sup> edition</li> <li>Perterson's principles of Oral &amp; Maxillofacial Surgery by Peter Waite 4<sup>th</sup> Edition</li> <li>Oral &amp; Maxillofacial Pathology by Neville 4<sup>th</sup> Edition</li> <li>Textbook of Oral &amp; Maxillofacial Surgery by Neelima Anil Malik 4<sup>th</sup> Edition</li> </ul>								
2.	Operative Dentistry	<ul><li>Summitt's Fundamentals of Operative Dentistry</li><li>Sturdevant's Art and Science of Operative Dentistry</li></ul>								
3.	Endodontics:	<ul> <li>Endodontics: Principles and Practice (Torabinejad, Fouad &amp; Walton)</li> <li>Harty's Endodontics in Clinical Practice</li> <li>Cohen's Pathways of the Pulp</li> </ul>								
4.	Pediatric Dentistry:	Pediatric Dentistry (Richard Welbury)								
5.	Orthodontics	Contemporary Orthodontics by William R.Proffit 6th Edition								
6.	Prosthodontics	<ul> <li>Partial denture <ol> <li>McCracken's</li> <li>Nallaswamy</li> <li>Removable partial denture by Stevard</li> <li>Complete denture <ol> <li>Zarb</li> <li>John J.Manappallil</li> <li>Fenn</li> <li>Temporomandibular joint and maxillofacial Prosthesis</li> </ol> </li> <li>Zarb <ol> <li>John J. Manappallil</li> <li>Tyson (Reference Book)</li> </ol> </li> <li>Material <ol> <li>McCabe</li> <li>Crowns and Bridges</li> <li>Planning and Making Crowns and Bridges (Bernard G N Smith)</li> <li>Contemporary Fixed Prosthodontics (Stephen F. Rosenstiel)</li> <li>Fundamentals of Fixed Prosthodontics (Shillingburg)</li> </ol> </li> <li>Implants <ol> <li>Contemporary Fixed Prosthodontics (Stephen F. Rosenstiel)</li> </ol> </li> </ol></li></ul>								





### **EXAMINATION**

Term IV/ Prof-Term I Term II Term III Pre-Prof Examination Examination **Continuous Assessment:** This will include: 1. Term I 2. Term II 3. Term III 4. Term IV/ Pre-Prof Examination 5. Prof Examination Continuous Assessment will have a weightage of 20 % of all Exams. The college will send your continuous assessment marks directly to JSMU. Prof-Exam conducted by JSMU will include: 1. Theory paper of One Best Answer 2. OSCE Exam 3. Continuous Assessment results





### **SCHEME OF EXAMINATION**

The following scheme of examination has been approved by the competent authority for the year 2025.

AE MEA											
TOS											
Exam		OS	OSPE								
	MCQs	Observed Station	Unobserved Station	Internal Evaluation							
Term I	50	3	7	LSI							
Term II	50	3	7	RY							
Term III	75	6	6	+ >							
Pre-Prof.	<b>Pre-Prof.</b> 90 8 9 10 + 15										
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### MARKS DISTRIBUTION ACCORDING

### TO JINNAH SINDH MEDICAL UNIVERSITY

SUBJECT	THEORY EXAM	PRACTICAL EXAM	INTER EVALUA CONTIN ASSES	TOTAL MARKS		
	(MCQs)	(OSCE)	THEORY	OSCE		
Oral Surgery	90	135	10	15	250	
Operative Dentistry	90	135	10	15	250	
Orthodontics	90	135	10	15	250	
Prosthodontics	90	135	135 10		250	
	TOTAL	1000				

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### INTERNAL EVALUATION CLINICAL THEORY

THEORY (10 Marks)										
		Atten	Google Assignments (1.5 Marks)							
Roll No	Name	Above 90% (03)	80-89% (02)	75-79% (01)	< 75% (0)	submitted (1.5)				

THEORY (10 Marks)											
Participation Classr (01 M	oom	Term Exam (4.5 Marks)							Total		
Pre-assignment	class activities Participation		Term 1			Term 2			Term 3		Marks (10)
(0.5)	(0.5)	Present (0.5)	Pass (0.5)	Position (0.5)	Present (0.5)	Pass (0.5)	Position (0.5)	Present (0.5)	Pass (0.5)	Position (0.5)	

### **INTERNAL EVALUATION CLINICAL PRACTICAL**

	Practical (15 Marks)											
		Att	endance (2	Marks)		Log Book & Patie	nt Quota (2 Marks)					
Roll No	Name	Above 90% (2)	80-89% (1.5)	75-79% (01)	< 75% (0)	Complete & Good remarks (2)	Complete & satisfactory remarks (1)					

	Practical (15 Marks)												
_	Assess 6 Marks	_	Term Exam (3 Marks)					Attitude / Behavior (02)		Total			
Present	Pass	Position	Term	1	Term	II	Term	III	Communication skills (faculty, colleagues,	Attire	Marks (15)		
		(2)	Present (0.5)	Pass (0.5)	Present (0.5)	Pass (0.5)	Present (0.5)	Pass (0.5)	non -faculty) (1.5)	(0.5)			





### INSTRUCTIONS FOR THE STUDENT

#### Attire:

All Students must wear white lab coat with name tags / ID- Cards and college monogram

#### Girls:

- Culturally and socially acceptable dressing
- No excessive make-up and ornaments
- Hair properly set and tied up
- Proper sandals or shoes no stilettos or slippers

#### Boys:

- ❖ Decent dressing
- Neatly pressed and clean pant / ShalwarKameez
- Shirt tucked in pant
- Only Shoes no chappals or sandals
- ♦ Hair properly cut and set with clean shaved or well-groomed beard

#### Discipline:

- ❖ Students are not allowed to roam around in the college in their spare time
- Students are advised not to talk loudly in the corridor/classes/lab/wards/OPD
- Use of mobile phone during classes/lab/wards/test/examination is strictly prohibited
- Drinks and eatables are not allowed specifically in class rooms except in cafeteria and common room

#### Damage/Loss:

- ❖ Students should take care of their belongings, the college will not be responsible for any losses
- Any damage/loss of college's equipment/asset by student will have to be compensated by students (caution money)

#### **Library Timings**:

- Monday to Friday 8am to 8pm
- Saturday 9am to 4pm

#### Attendance:





- ♦ The eligibility to appear in the university examination is 75% & above.
- ♦ The university examination forms will only be issued on 75% of cumulative attendance.
- ♦ The 75% of each student overall attendance comprises of:
  - ❖ Lectures/ OPD/ Wards/ Tutorials 60%
  - ❖ Assignments & Assessments (module/term/Pre-Prof Exam.) 15%
- ♦ It is mandatory for each student to appear at least in any two of the internal college based examinations i.e. (module/ term/ Pre-Prof Exam.)
- ❖ Exam had two components i.e. theory and OSCE; each student shall appear in both and attendance will mark as double (one lecture & one OPD/Practical); in case only appear in either OSPE or Theory will be considered absent for the entire subject.
- ❖ Passing all module/ term/ Pro-Prof examination had additional advantage i.e. each theory exam. (Two lectures) and each OSCE/ OSPE (two OPD/Practical attendance)
- Students appearing in supplementary exam (one/two papers) should have to attend all lecture/wards/OPDs/Tutorial, whereas students with supplementary exam in three-four subjects will be allowed to resume schedule classes soon after their last subject exam

As per given SOP's by the Examination Department, all students shall follow the rules & regulations strictly

#### Interdictions:

- Use of narcotics in any form in LCMD, DSH and LCSSH, will not be tolerated
- Smoking is strictly prohibited
- Students should not indulge in any political activities

Students who fail to comply with the LCMD policies, strict action may be taken by the Department of Student Affairs and LCMD Disciplinary Committee.

#### **DEPARTMENT OF STUDENT AFFAIRS**

Students should contact Department of Student Affairs for complains/grievances, attendance issues, counseling sessions, mentoring sessions or any student related matters

Addressing any other department is strongly discouraged and will be taken into account by Department of Student Affairs

An Affidavit is required by the obtained by the student to follow the rules policies of the institution; otherwise their examination form may not be issued.