



COLLEGE OF DENTISTRY

ORAL & MAXILLOFACIAL SURGERY

(2028)

STUDY GUIDE

YEAR	BDS 4th YR
BLOCK	I, II & III
SUBJECT	ORAL & MAXILLOFACIAL SURGERY

VISION

To emerge as a distinguished center of excellence in dental care and dental education, encouraging and disseminating research and patient care, recognized for empowering its students and faculty and producing dentists of excellence engaged in providing outstanding dental care and services in Balochistan.

MISSION

To lead Balochistan towards international quality of healthcare standards by educating and inspiring individuals to be exemplary dentists and researchers in dental health, scholars in discovery and adopters of innovative technology to improve the health and well-being of all.

OBJECTIVES OF THE STUDY GUIDE

This study guide is designed to facilitate the students of final year BDS in the subject of oral and maxillofacial surgery, during the year 2028. It is a complete description of the annual academic and clinical activities.

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INTRODUCTION:

Oral and Maxillofacial Surgery (OMFS) is the specialty of Dentistry that encompasses the art and science of the diagnosis and surgical management of diseases, injuries, and defects of the Oral and Maxillofacial region.

The OMFS curriculum is planned to train the students of final year BDS to be able to provide clinical services of Oral Surgery particularly of exodontia, in the practice of general dentistry. Lectures have been integrated with departments of operative dentistry, orthodontics and prosthodontics. It is also designed to develop instinct to become a lifelong learner and to take active part in Continual Dental Education (CDE).

The Department of Oral & Maxillofacial Surgery is based at Quetta College of Dentistry, Combined Military Hospital, Quetta. There are 12 Dental units in the department and 20 beds in CMH Ward of the department.

SCOPE & SEQUENCE:

Training in OMFS starts in 3rd year of BDS. Lectures / group discussions are being held once in a week with 8 weeks of clinical rotation of each batch in 3rd year. The students are taught how to administer local anesthesia and perform simple extraction of teeth. Principles of complicated exodontia and surgical oral & maxillofacial pathology course is integrated with the oral pathology curriculum in lectures.

During the 4th year of BDS, two lectures will be delivered weekly. Students will complete 10 weeks of clinical duties in the OMFS department and will accomplish their clinical requirements. Final year academic course is integrated with other dental specialties like Oral Pathology, Oral Medicine, Orthodontics, Prosthodontics, Operative dentistry and Periodontics.

CONTRIBUTIONS:

Course Director

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BDS, FCPS OMFS
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Contributors

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ACADEMIC SESSION 2028

The academic session will commence in the 1st week of April 2028. It will be expanded on 40 weeks, with a cumulative of 250 study hours.

Two lectures will be conducted in a week, by the senior faculty members. Each module will comprise of classroom teaching, hands on exercises, PBL sessions, test and small group discussions.

Remedial sessions will be conducted for the quick review of the module, where the facilitator will answer the questions of the students, and discuss their academic performance. Written feedbacks after each test will be taken from the students.

A monthly audit report is generated based on the attendance and test performance. Students are called for discussion and guided to improve their performance. A PTC will be called for the shortlisted students, for further discussion and counselling.

The course of oral surgery is integrated with other specialties as oral pathology, orthodontics, prosthodontics, operative dentistry and forensic odontology.

Revision classes will be conducted at the end of the academic session. Students will be given ample time for preparation before the sendup examination and the final professional examination.

The academic timetable of the session 2028 is as follows,

Tentative Weekly Time Table for Quetta College of Dentistry Final Year BDS (2028)						
Total weeks=12 weeks week 1						
Day/Time	8:30-9:30	9:30: - 10:30	10:30-11:00	11:00 - 3:30		
	LGIS			Clinical Rotations		
Monday	Operative	Prosthodontics	BREAK	Group A/B/C/D/E	2:00 – 3:30 peds group (HEC Courses)	
Tuesday	Orthodontics	OMFS		Group A/B/C/D/E	2:00 – 3:30 peds group (HEC Courses)	
Wednesday	OMFS	Pedodontics		Group A/B/C/D/E	2:00 – 3:30 peds group (HEC Courses)	
Thursday	Orthodontics	Oral biology		Group A/B/C/D/E	2:00 – 3:30 peds group (HEC Courses)	
Friday	Prosthodontics	Research/behavioral sciences/HEC general		11:00-1:15	1:15-1:45	1:45-3:300
				Group A/B/C/D/E	JUMMA NAMAZ	Group A/B/C/D/E

Duration: 40 weeks

1. **Orthodontics:** as per PMDC 250 hours
2 hours/week LGIS= $2 \times 40 = 80$
8 weeks **clinical rotation** each group
4.5 hours/day, for 5 days/week= $22 \text{ hours} = 180 \text{ hours} / 8 \text{ weeks}$
Total hours= $180 + 80 = 260$
2. **Operative:** as per PMDC 250 hours
2 hours/week LGIS= $2 \times 40 = 80$
8 weeks **clinical rotation** each group
4.5 hours/day, for 5 days/week= $22 \text{ hours} = 180 \text{ hours} / 8 \text{ weeks}$
Total hours= $180 + 80 = 260$
3. **Prosthodontics:** as per PMDC 250 hours
2 hours/week LGIS= $2 \times 40 = 80$
8 weeks **clinical rotation** each group
4.5 hours/day, for 5 days/week= $22 \text{ hours} = 180 \text{ hours} / 8 \text{ weeks}$
Total hours= $180 + 80 = 260$
4. **OMFS:** as per PMDC 250 hours
2 hours/week LGIS= $2 \times 40 = 80$
8 weeks **clinical rotation** each group
4.5 hours/day, for 5 days/week= $22 \text{ hours} = 180 \text{ hours} / 8 \text{ weeks}$
Total hours= $180 + 80 = 260$
5. **Pedodontics:** as per PMDC 100 hours
1 hour/2 weeks LGIS= 20 hours
8 weeks **clinical rotation** each group
3 hours/day for 5 days/week= $15 \text{ hours} = 120 \text{ hours} / 8 \text{ weeks}$
Total hours= 140 hours
6. **HEC Courses (research/behavioral science/ICT):** as per PMDC 100 hours
1 hour/week= 40 hours
1.5 hours/day, for 5 days/week= $7.5 \text{ hours} = 60$
Total hours= $40 + 60 = 100$

TEACHING/LEARNING METHODOLOGY:

The modes of information transfer will include

- **Classroom teaching**
- **Hands on exercises**
- **PBL session**
- **Remedial session**
- **Video demonstrations of surgical techniques**
- **Small group discussions**
- **Group presentations**
- **Annual quiz competitions**
- **Written test & test discussions**

LEARNING RESOURCES:

1. Contemporary Oral & Maxillofacial Surgery (7th Ed) James R. Hupp, Myron R. Tucker
2. Killey's Fractures of Mandible (4th Ed) Peter Banks, Homer Charles Killey
3. Killey's Fractures of the middle third of the facial skeleton Homer Charles Killey, Peter Banks
4. Handbook of Oral & Maxillofacial trauma

REFERENCE BOOKS:

1. Peterson's Principles of Oral and Maxillofacial Surgery (3rd Ed, 2013)
Michael Miloro, G. E. Ghali, Peter E. Larsen, Peter D. Waite
2. Maxillofacial Surgery (2nd Ed, 2007)
Peter W. Booth, Stephen A. Schendel, Jarg-Erich Hausamen
3. Operative Oral and Maxillofacial Surgery (2nd Ed, 2009)
John Langdon, Mohan Patel, Robert Ord, Peter Brennan

Annual Academic calendar 2028

Final YEAR BDS 1st BATCH (SESSION 2028-2029)		
TENTATIVE ACADEMIC CALENDAR/FORECAST		
QUETTA COLLEGE OF DENTISTRY		
ACADEMIC/EXTRA-CURRICULAR ACTIVITIES	FROM	TO
COMMENCEMENT OF NEW SESSION	17 th Jan 2028	
BLOCK I (12 +1 week)		
BLOCK 1(6 Weeks)	17 th Jan 2028	25 th Feb 2028
EID UL FITAR HOLIDAYS (1 WEEK) Tentative	28th Feb 2028	3rd March 2028
BLOCK 1(6 Weeks)	6 th March 2028	14 th April 028
EOB EXAM I	17 th April 2028	21 st April 2028
BLOCK II (14+1 week)		
BLOCK II (1 week)	24 th April 2028	28 th April 2028
EID UL ADHA (TENTATIVE)	1st May 2028	5th May 2028
BLOCK II (13 Weeks)	8 th May 2028	4 th Aug 2028
MUHARRAM TENTATIVE	1st June 2028	2nd June 2028
EOB EXAM II	7 th Aug 2028	11 th Aug 2028
PAKISTAN DAY	14 AUGUST 2028	
BLOCK III (14+1 week)		
BLOCK III (14 WEEKS)	14 th Aug 2028	17 th Nov 2028
PRE PROF-LEAVE (1 WEEK)	20 th Nov 2028	24 th Nov 2028
PRE PROF-EXAM	27 th Nov 2028	8 th Dec 2028
PREP LEAVES (5 weeks)	11 th Dec 2028	19 th Jan 2029
ANNUAL/PROF EXAM DATE BY NUMS	AS PER NUMS	

Academic Assessment Policy:

The annual academic session will consist of several monthly and quarterly assessments, at the end of each module.

- **Monthly assessment:**
 - Written assessment will be conducted every 4th week of the month

- **Midterm:**
 - Course will be decided according to the modules covered
 - Students will be assessed by theory, TOACS and viva

- **Sendup:**
 - Will be held in the month of January, 2029
 - **Theory Examination** (3 hours duration)
 - Short essay type (SEQ) & multiple-choice questions (NUMS pattern)
 - **Viva/Oral Examination/OSCE**
 - **Clinical / Practical Examination**

Will be conducted on the same day as the viva, the pattern for the clinical exam will be the same as for the clinical test mentioned above

All results will be uploaded in the e-portal, and messaged to the students/parents.

Internal Assessment:

- Will be based upon written test, OSCE (observed / unobserved), clinical tests, open book test, presentations, and hands on exercises & assignments and no of credits.

POLICY FOR MISSED ASSESSMENTS:

- Students have to prove valid reason for missed assessments.
- Students should inform the HOD prior to the date of scheduled examination.
- Course director has discretionary power to accept reason only if found reasonable

Academic Attendance Policy:

- Thumb scan and an on-paper attendance will be marked in the lecture.
- Present will be mark for those who will come sharp on time
- Arrival after 7 minutes will be considered absent
- Arrival within 7 minutes will be consider late
- 3 late arrivals will be equal to one absent
- As soon as the portal attendance will be marked and submitted, the student as well their family will be notified.

Feedback system:

Written feedbacks will be taken after each test and module completion, to judge the level of difficulty perceived by the students and to overcome the discrepancies.

Anonymous feedbacks will be discussed among the facilitators and course director, to gain maximum benefits.

MONTHLY AUDIT REPORT:

In order to achieve good academic results, the department has been actively working under the supervision of the head of department. The students and the parents are kept well informed about the individual academic performance.

- A monthly audit report is generated, and submitted to the head of department. It comprises of the detailed academic participation of the individual faculty members, total number of lectures delivered in the month, and the number of tests conducted by the department.
- The top scorers are highlighted and encouraged for the next assessments.
- The failed students are called for test discussion and guidance.
- Monthly audit report also shows the number of students having attendance less than 75%.
- All these students are called for personal hearing, counseled, warned and guided.
- Parent teacher conference is the last step before the end of session, to ensure promising results in the university examination.

NUMS EXAM SCHEDULE/RULES/REGULATIONS:

- 75% attendance is the eligibility criteria

COMPONENTS OF FINAL PROFESSIONAL UNIVERSITY EXAMINATION:

- Total 200 marks

<u>COMPONENTS OF FINAL PROFESSIONAL EXAMINATION</u>	<u>MARKS</u>
Internal assessment	20 marks
Theory exam: (45/MCQ + 15/SEQ)	90 marks
Viva/oral & clinical/ practical exam	90 marks

TOS FOR ORAL SURGERY FINAL PROFESSIONAL EXAMINATION

SR. NO.	TABLE OF SPECIFICATIONS	SEQs	MCQs
1.	Orofacial pain	1	1
2.	Salivary glands disorders	1	5
3.	Oncology	1	7
4.	Local anesthesia	1	11
5.	Maxillary antrum	1	2
6.	Basic principles of surgery	1	1
7.	Impactions	1	2
8.	Spread of infections	1	2
9.	Pre-prosthetic surgery	1	2
10.	Jaw cysts/tumors	1	1
11.	Tmj ankylosis	1	1
12.	Exodontia	1	3
13.	Oral and maxillofacial trauma	1	3
14.	Management of medically compromised patients	1	4
Total		15	45

ORAL AND MAXILLOFACIAL SURGERY
(BLOCK I)

Wk No	TOPIC	LEARNING OBJECTIVES At the end of lecture, student should be able to	MITS	LEARNING OUTCOMES	NUMBER OF LECTURES.	LECTURES DELIVERED BY.
01	ORIENTATION to ORAL & MAXILLOFACIAL SURGERY	KNOWLEDGE. -Describe role of maxillofacial surgery in health care system, domains of Oral Surgery. -Describe Multidisciplinary Team role/approach in a health care setting	LGIS	Appraise the significance of Oral and maxillofacial Surgery and its application	01	Prof. Mirza Tareen 1.introduction to oral and maxillofacial surgery
01, 02	PRINCIPLES OF EXODONTIA	KNOWLEDGE. -Describe Open & Closed extraction. -State the protocol to manage anxious patients before and during complicated exodontia. Describe various physical forces and their application in forceps and elevators used for exodontia. Describe radiographic interpretation in exodontia State the justification for leaving root fragments in the socket Enlist indications & contra-indications for open extractions Describe the etiology and management of Dry-socket . SKILL. -Use of forceps. -Use of different elevators.	LGIS SGD TUTORIAL PRACTICAL		03	Dr. Ahmed jawwad 1.priciples of routine exodontia. Lt.col Atta 2.Complex exodontias Lt.Col Atta 3.Impactions

		Investigation of displaced roots ,and planning to remove the displaced fragments. KNOWLEDGE. Identification of causes of impaction, classification of impaction. SKILL. Ordering appropriate investigations.				
03	MEDICAL EMERGENCY	KNOWLEDGE. -Evaluate a dental patient by Medical history & Physical examination. -Discuss the conditions when referral/ consultation to primary physician is required -patient with problems of the following systems: -CVS -Pulmonary -Renal -Hepatic system			02	1.Medical emergencies Dr. Mirza khan 2.Managment of medically compromised Patients. Dr. Ahmed jawwad
		Haematological Neurological Patients taking steroids and blood thinners -Assesment pregnant patient. Understanding the change is physiology. SKILL. Taking history and understanding the underlying cause. -team work with the primary physician of the patient. ATTITUDE. Taking consent.	-How common medical conditions effects a dental patient. -nexus of dental and medical health providers. -supplementing medications. -looking for signs and symptoms of patients with different needs.			

		Safeguarding patient privacy.				
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Wk No.	TOPICS	LEARNING OBJECTIVES	LEARNING OUTCOMES	MITs	ASSESSMENT TOOLS	NUMBER OF LECTURES	LECTURES DELIVERED BY
05,06	- TRAUMA -ATLS	Describe ATLS and BLS -State Etiology of Maxillofacial trauma				03	1.Etiology of trauma and ATLS. Lt.Col.Atta 2.Mandibular Fracture.
06	INFECTIONS Etiology. - MANDIBLE FRACTURE	KNOWLEDGE -Describe various factors airway (host management microorganisms, anatomical) that govern the spread of odontogenic infections. -Classify mandibular fractures SKILL -Evaluate patient with type and odontogenic or to maxillofacial infection -order and interpret radiographs related mandibular infections. ATTITUDE -Be open & informed consent methods of fracture guarding patient privacy.	At the end of term, student will be able to: -Identify a facial space infection, determine severity of disease and manage a patient with primary facial	LGIS / SGD Pract icle/ Dem onstration	MCQ SEQ VIVA OSCE	01	1.Etiology of odontogenic infections;Dr. anwar jawwad Zakir. 3.Mandibular fracture mangament. Dr. suleman
		treatment SKILL -Examine patient with suspected mandibular fracture diagnose mandibular fractures by eliciting signs & symptoms and order & interpret radiographic investigations related to mandible fracture					

07	FASCIAL SPACES.	Describe various primary & secondary facial spaces	KNOWLEDGE. -Understand anatomic boundaries of primary and secondary fascia spaces. -contents. Important drainage routes. _understand Terminologies as edema, cellulitis and abscess.	Lectures. Dissections. SBL	MCQS, SEQS. VIVA	02	Dr.Ahmed jawwad. 1. fascial space One. Dr.Ahmed Jawwad. 2.Fascial space Infection
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Wk no.	TOPICS	LEARNING OUTCOMES	LEARNING OBJECTIVES	MITTS	ASSESSMENT TOOLS	NO. OF LECTURES.	LECTURES DELIVERED BY
8	Odontogenic Vs Non-Odontogenic Infections.	-learning alarming sign of airway emergencies Associated with fascial spaces infs.	SKILLS. Signs and symptoms of fascial space infection. -appropriate examination and history taking. -ordering investigations relevant to the case. -knowledge Understanding Management plans. <u>KNOWLEDGE</u> -Describe spread, pathophysiology & management of following infections in head and neck i.Odontogenic infection to primary and secondary facial spaces ii.Cavernous sinus thrombosis/orbital cellulitis iii.mediastrinitis iv.Ludwig's angina v.Osteomyelitis, vi.Candidiasis, vii.Necrotizing fasciitis, viii.Actinomycosis	Case Presentations, -ward rounds. Intra and extra oral examination.	OSCE. VIVA.	01	1.Non Odontogenic infections Prof Dr.Mirza Tareen

Wk no.	TOPICS	LEARNING OUTCOMES	LEARNING OBJECTIVES	MITTS	ASSESSMENT	NUMBER OF	LECTURE -S
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					TOOLS.	LECTUR-ES	DELIVER-ED BY
8	WOUND REPAIR.	Wound repair and management. Also understanding different wound healing mechanism.	<p><u>KNOWLEDGE</u></p> <p>•anatomic layers and wound healing mechanisms.</p> <p><u>SKILL</u></p> <p>Repair of different oral mucosa layers</p> <p><u>ATTITUDE</u></p> <p>Respect patients Acquire Informed Consent.</p>	Lectures, SBL, CBL, SGDS	SEQS, MCQS, VIVA	01	1.Wound repair and management Dr.Suleiman Khan

9	INFECTION CONTROL IN SURGICAL PRACTICE	At the end of term, student will be able to: -Universal infection control protocols	<p><u>KNOWLEDGE</u></p> <p>-Discuss factors (host, microorganisms, anatomical) that govern the spread of infections.</p> <p><u>SKILL,</u></p> <p>Enforcing infection control protocols.</p>	Lecture SGD Demonstrations , Practice	SEQS MCQS VIVA	02	1.infection control introduction. Lt.Col Atta. 2.Infection Control measures. Dr.Suleiman Khan
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10	Management of Hospital patients.	At the end of term, student will be able to: -identify needs of different patients, That are admitted in the wards.	<u>KNOWLEDGE</u> Identification of needs of different patients. <u>SKILL</u> Understanding different medical conditions. <u>ATTITUDE</u> Respect patients Acquire Informed Consent	LGIS Prac-Ticle SDG	SEQS, MCQS SGDS.	01	Management of Hospitalized Patients. Dr.Zakir Hussain
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Wk no.	TOPICS	LEARNING OUTCOMES	LEARNING OBJECTIVES	MITs	ASSESMEN-T TOOLS	NUMBER OF LECTURES	LECTURES DELIVERED BY
10	LOCAL ANESTHESIA	Use of dental Anesthesia, Dosages.	History , Discovery,co -mmon Formulation Present use. Classification. Molecular Make up.	Lectures.	MCQS	01	Introduction to local anesthesia. Prof Dr. Mirza Tareen

Wk no. 11,12	LOCAL ANESTHESIA ARMAMENTARIUM.	Understanding the needle, Cartridge And local anesthetic syringe.	KNOWLEDGE Different -Type of needles -cartridge Their color codes. SKILL Loading the syringe.	Lecture Demos,	SEQS MCQS. VIVA OSCE	01	1.Local Anesthesia Armamentarium. Dr. Ahmed jawwad.
	LOCAL INFILTRATE & BLOCK ANATOMY	Revisiting Anatomy of The common block	KNOWLEDGE Foramina and bony landmarks.	Demos	SEQS MCQS. VIVA OSCE	01	1.Anatomy relevant to mandibular block and maxillary infiltrate. Dr.Zakir
	MAXILLARY TECHNIQUES	Understanding Maxillary Local Anesthesia Techniques.	KNOWLEDGE Various methods to anesthetize the maxillary teeth. Difference between a nerve block SKILL Performing Maxillary techniques ATTITUDE Obtaining informed Consent.	Lectures Demos Exodontia rotations		01	1.Maxillary anesthesia techniques Dr.Ahmed Jawwad

Wk no.	TOPICS.	LEARNING OUTCOMES.	LEARNING OBJECTIVES	MITTS.	ASSESMENT TOOLS.	NUMBER OF LECTURES	LECTURES DELIVERED BY.
12	MANDIBULAR TECHNIQUES	Understanding when to use mandibular technqies. -performing mandibular techniques		LGIS, SGD	MCQS,SEQS	01	1.Mandibular anesthesia techniques. Dr.Zakir Hussain

Week	Lecture 1	Lecture 2
1	Introduction to oral and maxillofacial surgery	Principles of routine exodontia
2	Complex Exodontia	Impactions
3	Medical emergencies	Management of medically compromised patients.
4	Principles of surgery	Wound Repair
5	Etiology of trauma and ATLS	Maxillary Fractures
6	Mandibular fractures	Facial spaces anatomy
7	Facial space infections management	Non- Odontogenic infections
8	Antibiotics prophylaxis	Wound, repair & managment
9	Infection control introduction	Infection control measures
10	Management of hospitalized patients	Introduction to local anesthesia
11	Local anesthesia armamentarium	Relevant anatomy of block
12	Maxillary block and infiltrate technique	Mandibular block and infiltrate techniques

**ORAL AND MAXILLOFACIAL SURGERY
(BLOCK II)**

Week No.	Topic/ Theme	Learning Outcomes	Learning Objectives	MITs	Asses sment Tool	No Lec s	Lectures Delivered by
01, 02	Trauma: DentoAlv eolar Fractures	At the end of term student will be able to: <ul style="list-style-type: none"> •Diagnose and order relevant investigations 	At the end of lecture, student should be able to: <p>KNOWLEDGE</p> <ul style="list-style-type: none"> •Describe facial soft tissue and dentoalveolar injuries 	LGIS CBL SGD	MCQ SEQ VIVA	03	Lecture No1. Dentoalveolar Fractures introduction. Dr.Ahmed jawwad. Lecture No.2 Dentoalveolar # Classification scheme Dr.Ahmed Jawwad Lecture No.3 Dentoalveolar # Management. Lt.col Atta

	<ul style="list-style-type: none"> • Make appropriate referral related to Oral & Maxillofacial trauma presenting in Emergency or Out Patient Units • Diagnose & manage dentoalveolar & mandible fractures by closed methods 	<ul style="list-style-type: none"> • Classify dento-alveolar and soft tissue injury Define abrasion, contusion, laceration and diagnose these injuries by history and clinical examination State etiology of maxillofacial (hard and soft tissue) &dento-alveolar trauma 				
		<p>SKILL Evaluate dento-alveolar trauma by history, clinical and radiological examination Manage dento-alveolar</p> <ul style="list-style-type: none"> • Evaluate dento-alveolar trauma by history, clinical and radiological examination • Manage dento-alveolar 	Demonstrations / Practical	OSCE		

			injuries and keep up to date with current guidelines				
			<u>ATTITUDE</u> <ul style="list-style-type: none"> • Respect patients • Acquire Informed Consent 	Demonstrations / Practical	OSCE		
2. 3	ATLS & Mandible Fractures	<ul style="list-style-type: none"> • Discuss the various airway management maneuvers • Discuss classification, principles of management and complications of mid face fractures 	<u>KNOWLEDGE</u> <ul style="list-style-type: none"> • State etiology of maxillofacial trauma • Describe ATLS and BLS • Describe various airway management maneuvers (surgical & non-surgical) • Classify mandibular fractures according to the type, site and favorability to reduction • Enlist complications of mandibular 	LGIS SGD	MCQ SEQ VIVA	03	Lecture No.1 ATLS Dr.Mirza Lecture No.2 Mandibular # relevant anatomy and classification Lt.Col Atta Lecture No.3 Management of Mandibular # mangament open vs close.

			<ul style="list-style-type: none"> Describe open & closed methods of fracture reduction & treatment 				
			<p>SKILL Examine patient</p> <ul style="list-style-type: none"> with suspected mandibular fracture Diagnose mandibular fractures by eliciting signs & symptoms and Interpret radiographic investigations related to mandible fracture Formulate a treatment plan for mandibular fractures in adults and children Perform MMF via eye lets on study models 	Demonstrations / Practical	OSCE		
			<p>ATTITUDE</p> <ul style="list-style-type: none"> Respect patients Acquire informed consent 	Demonstrations / Practical	OSCE		
04, 05	Mid-Face, NOE & ZMC Fractures	<ul style="list-style-type: none"> Discuss classification, principles of management and complications of mid face fractures 	<p>KNOWLEDGE</p> <ul style="list-style-type: none"> Classify mid face fractures (Lefort I, II & III) Discuss principles of management of 	LGIS	MCQ SEQ VIVA	03	<p>Lecture No1. Midface # Dr.zakir</p> <p>Lecture No2. NOE. Dr. Ahmed Jawwad</p>

							Lecture No 3 ZMC # Dr. Mirza khan
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			<p>fractures of mid-face</p> <ul style="list-style-type: none"> • Discuss principles of management of fractures of zygomatic bone, arch, frontal bone and nasoorbitoethmoid (NOE) complex fracture • Enlist complications of mid and upper face fractures 				
05, 06	Fire Arm Injury	<ul style="list-style-type: none"> • Discuss management of fire arm injuries 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe considerations in the management of pediatric and geriatric maxillofacial trauma • Describe principles of management of fire arm injuries involving the face 	LGIS	MCQ SEQ VIVA	03	<p>Lecture No1 Ballistics Dr.Ahmed jawwad Lecture No2 Classification of fire arm injury. Dr Ahmed jawwad Lecture No.3 Reconstruction scheme of blastic trauma Dr.Zakir</p>
07	Pathology (Biopsy)	<p>Identify a potentially malignant lesion, can describe and perform steps of biopsy Describe features of malignant lesion and order relevant investigations</p>	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe the adjuncts to clinical screening of suspicious lesions • State the indications of biopsy • Describe each type of soft and hard tissue biopsy • Describe principles of biopsy • Describe methods of specimen orientation 	LGIS/ SGD	MCQ SEQ VIVA	01	<p>Lecture No.1 Dr Mirza Khan</p>

		Identify jaw cysts and tumours Order relevant investigatio ns, formulate treatment plan	<p><u>SKILL</u></p> <ul style="list-style-type: none"> •Record history of a patient with potentially malignant lesions in oral and maxillofacial region 	Demonstrations / Practical	OSCE		
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		<p>Manage a patient who has been irradiated, can identify a patient at risk of MRONJ & Osteoradionecrosis</p> <p>Identify a patient with sinus pathology/ oroantral communication/fistula</p> <p>Describe management of patient having root displaced in maxillary sinus</p>	<ul style="list-style-type: none"> Order and interpret relevant investigations Write a biopsy request form for histopathological examination and properly handle biopsy specimen Follow up of a biopsy patient 				
			<p>ATTITUDE</p> <ul style="list-style-type: none"> Respect patients Acquire informed consent 	Demonstrations / Practical	OSCE		
07, 08	Jaw Cysts	Discuss classification, indications and techniques for the management of jaw cysts	<p>KNOWLEDGE</p> <ul style="list-style-type: none"> Classify jaw cysts (odontogenic and non-odontogenic) Differentiate between radicular, dentigerous and keratocyst State the indications, advantages, disadvantages and techniques for the management of jaw cysts and cyst-like lesions i.e., enucleation, marsupialization, enucleation followed by marsupialization, enucleation with curettage 	LGIS/ SGD	MCQ SEQ VIVA	03	<p>Lecture No 1. Odontogenic cyst Dr.ahmed jawwad Lecture No.2 Non. Odontogenic cyst. Dr.Zakir Lecture No.3 Surgical Management.</p>
09, 10	Jaw Tumor	Identify jaw cysts and tumors Discuss management of jaw tumors	<p>KNOWLEDGE</p> <ul style="list-style-type: none"> Describe the management of jaw tumors based on the types of resection: 	LGIS/ SGD	MCQ SEQ VIVA	04	<p>Lecture No 1 Odontogenic jaw tumors. Dr.zakir</p>

			marginal, segmental, partial, total and composite				Lecture No 2. Non. Odontogeni c tumors. Dr. zakir Lecture No 3. Begin vs malignant tumors. Dr ahmed jawwad Lecture No.4 Manageme nt of jaw tumors Lt.Col.Atta
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			<ul style="list-style-type: none"> • Describe the management of benign soft tissue tumors • Describe the management of potentially malignant (pre-malignant) lesions • Describe the management of malignant tumors of the oral cavity according to the following factors: <ul style="list-style-type: none"> i. Histopathology ii. Grade and extracapsular spread iii. TNM staging • State the general principles of OMF reconstruction • Describe the biology of bone reconstruction and define osteoinduction, osteo-conduction, osteopromotion and osteo-genesis • Classify bone grafts on the basis of source and vascularity 				
11	Maxillary Sinus Disease	<ul style="list-style-type: none"> • Discuss treatment of sinusitis • Discuss oro-antral communication 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Evaluate a patient with maxillary sinus disease • Describe odontogenic and non-odontogenic infections of maxillary sinus and their differential diagnoses 	LGIS	MCQ SEQ VIVA	02	Lecture No1. Maxillary sinus disease. Dr ahmed jawwad Lecture No2. Management of maxillary disease. Dr. Zakir

			<ul style="list-style-type: none">• Describe treatment of sinusitis• Classify oro-antral communication according to size and describe their management according to the time elapsed				
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			<ul style="list-style-type: none"> • Enlist the common maxillary sinus tumors of odontogenic and nonodontogenic origin, and describe their management • Describe difference between oroantral communication and fistula and their management • Describe post-operative sinus precautions 				
12	Surgical Endodontics	<ul style="list-style-type: none"> • Discuss appropriate procedure, flap, technique and (root-end filling) materials for surgical endodontics 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Evaluate a patient with a periapical pathology and order and interpret relevant investigations • Discuss indications for surgical endodontic procedures • List contraindications for surgical endodontics • Select appropriate procedure, flap, technique and (root-end filling) materials for surgical endodontics 	LGIS	MCQ SEQ VIVA	01	Lecture 01. Surgical endodontics Lt.col Atta
12, 13	Management of Patients Undergoing Radiation Therapy & MRONJ	<ul style="list-style-type: none"> • Describe the dental management of a patient undergoing radiotherapy to the oral & maxillofacial region 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • State the mechanism of action of radiotherapy, regimes of radiotherapy and list its adverse oral effects • Describe the dental management of a 	LGIS	MCQ SEQ VIVA	02	Lecture No.1 Etiology of ORNJ, MRONJ Lt.Col.Atta Lecture No.2 Management of MRONJ Dr. suleman khan

			<p>patient undergoing radiotherapy to the OMF region</p> <ul style="list-style-type: none">• Define osteoradionecrosis• Describe its stages and management				
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			<p>plan</p> <ul style="list-style-type: none">• State the dental management of a patient undergoing systemic chemotherapy• Define MRONJ• State the management of a patient at risk of MRONJ needing dental extraction				
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13. 14	IMPLANT SURGERY:	At the end of term, student will be able to: •Identify a facial space infection, determine severity of disease and manage a patient with primary facial space infection	<u>KNOWLEDGE</u> •Discuss factors (host, microorganisms, anatomical) that govern the spread of odontogenic infections	LGIS/ SGD	MCQ SEQ VIVA	03	Lecture No1. Introduction to implant. Dr suleman khan Lecture No.2 Planning of implant surgery Lecture No . Compliations and peri implantitis
			<u>SKILL</u> • Evaluate a patient with an odontogenic or maxillofacial infection • order and interpret relevant investigations	Practical	OSCE		
			<u>ATTITUDE</u> • Respect patients • Acquire Informed Consent	Demonstrations / Practical	OSCE		

PRACTICAL

Week & Date	Topic/ Theme	Learning Objective	M.I.Ts	Assessment Tools	Instructor
01	Orientation to OMFS	<ul style="list-style-type: none"> • Orientation to OMFS • Perform Chair & Operator Positioning • Obtain appropriate History perform Clinical Examination • Perform Prescription Writing 	*SGD/ Demo *Practical	*OSPE *VIVA *DOPS	Dr Zakir
02	Local Anesthesia	Identify & Describe LA <ul style="list-style-type: none"> • Armamentarium • Dosage 	*SGD/ Demo *Practical	*OSPE *VIVA *DOPS	Dr Ahmad Jawad

		<ul style="list-style-type: none"> • Complications • anatomical landmarks for various LA techniques <p>Perform various techniques of Nerve Blocks & local anesthesia</p>			
03	Exodontia	<ul style="list-style-type: none"> • Identify and select appropriate Armamentarium • Describe and apply Principles of instruments used in exodontia • Application and Handling of elevators & forceps. • Interpret Radiological findings related to exodontia: Periapical &OPG , impacted canine & 3rd molars 	*SGD/ Demo *Practical	*OSPE *VIVA *DOPS	Dr Suleiman
04	Medical Management of Compromised Patients TMJ and Pathology	<ul style="list-style-type: none"> • Describe Common Medical Emergencies with Prevention, Diagnosis & Management • Enlist Emergency trolley drugs • Operate & handle Oxygen Cylinder • Perform Clinical Examination of TMJ, Salivary Glands and Lymph Nodes • Perform Reduction of Dislocated TMJ on skull models 	*SGD/ Demo *Practical *PBL	*OSPE *VIVA	Lt Col Muhammad Atta
05	Basic Principles of Surgery	<ul style="list-style-type: none"> • Describe various suturing material types, their application , specification of suturing needle and suture • Perform various Suturing Techniques • Draw and label various surgical flaps used in minor oral surgery • Identify and use of appropriate size/number blade according to purpose 	*SGD/ Demo *Practical	*OSPE *VIVA *DOPS *Assignment	*Dr Zakir
		<ul style="list-style-type: none"> • Handling of Surgical Blade , placement and removal from BP Handle 			

		<ul style="list-style-type: none"> Describe Principles of Surgical Incision Describe principles of Incision & Drainage Describe Principles of Flap Design 			
06	Oral & Maxillofacial Trauma	<ul style="list-style-type: none"> Describe various reduction & fixation techniques used in maxillofacial fracture management Make Eye-lets with wire & wire handling Perform Maxillo-Mandibular Fixation on Models Placement of arch bar on models Radiological interpretation of Trauma patient (OPG & CT Scan) Identification of armamentarium for Major & Minor Surgical Procedures PBL 	*SGD/ Demo *Practical *PBL	*OSPE *VIVA *Assign- ment	Dr Ahmad Jawad
07	ASSESSMENT WEEK	<ul style="list-style-type: none"> Complete and Submit LOG BOOKS Submit Assignments End of Rotation Ward Test 		*DOPS *OSPE *VIVA *Assign- ments *Attendanc e	Lt Col Atta

Week	Lecture 1	Lecture 2
1	Introduction to DentoAlveolar Fractures	DentoAlveolar Fractures Classifications
2	DentoAlveolar Fractures Managment	ATLS
3	Mandibular fractures relevant anatomy & Classification	Management of Mandibular fractures
4	Midface fractures	NOE Fractures
5	Zygomatic fractures	Ballistics
6	Classification of fire arm injury	Reconstruction scheme of Ballistics trauma
7	Biopsy	Odontogenic Cyst
8	Non Odontogenic Cyst	Surgical Management of Jaw Cyst
9	Odontogenic Jaw Tumors	Non Odontogenic Jaw Tumors
10	Benign vs malignant tumors	Management Of Jaw Tumor
11	Maxillary sinus disease	Management Maxillary sinus disease
12	Surgical endodontics	Etiology of ORNJ, MRONJ
13	Management of MRONJ	Introduction to implants
14	Planning of implants surgery	Complications and peri-implantitis

**ORAL AND MAXILLOFACIAL SURGERY
(BLOCK III)**

S. No.	Topic/ Theme	Learning Outcomes	Learning Objectives	MIT S	Assessment Tool	Number Of Lectures.	
0 1,0 2	Pre-prosthetic surgery.	<ul style="list-style-type: none"> At the end of term, student will be able to: <ul style="list-style-type: none"> Identify problem list and formulate a treatment plan for a patient acquiring dental prosthesis Perform basic surgical preprosthetic procedures like Alveoloplasty, Tori removal Order appropriate investigations and formulate treatment for a patient seeking dental implants 	<p><u>KNOWLEDGE</u></p> <p>At the end of term, student will be able to:</p> <p>Enlist objectives of pre-prosthetic surgery</p> <p>Describe ridge extension, augmentation and correction (osteotomies) procedures for mandible and maxilla</p> <p>Describe the principles of following surgical procedures: alveoloplasty-simple, intraseptal (Dean's), tuberosity reduction, exostosis and undercuts correction, tori removal, mylohyoid ridge reduction, genial tubercle reduction, retromolar pad reduction, lateral palatal soft tissue excess removal, unsupported hypermobile tissue removal, inflammatory fibrous hyperplasia removal, labial and lingual frenectomy</p>	LGIS	MCQs SEQs VIVA	04	<ol style="list-style-type: none"> 1. Introduction to preprosthetic. Dr.Zakir. 2.Maxillary procedures. Dr.suleman 3. Mandibular procedures. Dr.Mirza 4.Contemporary ridge augmentation methods Lt.Col.Attar

03	Pain (Orofacial Pain)	<ul style="list-style-type: none"> Identify a patient with orofacial pain, diagnose the type and formulate a treatment plan Make referral when required 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> Describe the pathophysiology of neuropathic pain Classify oro-facial pain according to site and etiology Diagnose trigeminal neuralgia and describe its management options. Differentiate trigeminal neuralgia from pre-trigeminal neuralgia, odontalgia, post-herpetic neuralgia, neuroma, burning mouth syndrome, glossopharyngeal neuralgia and headache Classify various types of headaches according to clinical features 	LGIS	MCQs SEQs VIVA	02	1.oro facial pain, diagnosis. Lt Col Atta 2. Treatment strategies . Dr. Ahmed Jawwad
04	(Tm joint)	<ul style="list-style-type: none"> Acquire history, clinically examine & diagnose a patient with TMJ problem/pathology Manage the patient conservatively 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> Evaluate a patient with TMJ disorder Classify TMJ disorders as: myofascial, internal derangement (Wilke's), systemic arthritis conditions, chronic recurrent dislocation, ankylosis, neoplasia and infections 	LGIS SGD	MCQs SEQs VIVA	02	1.Tm j disease (02) Lt.col Atta

05	Salivary Gland Disease.	Examine Salivary Gland, acquire appropriate history & diagnose a patient with SG pathology Order & interpret relevant investigations Make referral when required	<p><u>KNOWLEDGE</u></p> <p>Describe pathophysiology and presentation of obstructive, retentive, infectious and neoplastic salivary gland disease</p> <p>Describe various diagnostic modalities for salivary gland disorders</p> <p>Describe the principles of management of the following salivary gland disorders: sialolithiasis, mucocele, ranula, infections, traumatic injuries to salivary glands, pleomorphic adenoma, Warthin's tumor, mucoepidermoid carcinoma, adenoid cystic carcinoma, adenocarcinoma</p>	LGIS SGD	MCQs SEQs VIVA	02	<p>1. Salivary Gland diseases.</p> <p>Dr. Suleman</p> <p>2. Surgical management</p> <p>Dr. Zakir</p>
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06,07	Dento-facial deformity & orthognathic surgery	□Diagnose and refer to relevant specialty for a patient with dentofacial deformity	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Enlist causes of dentofacial deformities • evaluate a patient with dentofacial deformity • Order and interpret relevant investigations • Describe the pre-surgical preparation for orthognathic surgery patient • Describe the surgical treatment options (osteotomies) for the following: mandibular excess, mandibular deficiency, maxillary and mid-face deficiency, combination deformity & Facial asymmetry • Define Distraction Osteogenesis, describe the role and advantages of distraction osteogenesis in OMF region 	LGIS	MCQs SEQs VIVA	04	<p>1.introduction to orthognathic procedure. Dr.Zakir .</p> <p>2. diagnosis and generating problems list. Dr.suleman</p> <p>3.Maxillary osteotomies Lt.Col.Atta</p> <p>4.Mandibular osteotomies. Dr. Mirza</p>
08	Cleft lip & palate	<ul style="list-style-type: none"> • Describe etiology & incidence of Cleft Lip and Palate • Diagnose and formulate the problem list in a patient with CLP 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe incidence and etiology of cleft lip & palate • Explain Cleft Lip and Palate (CLP) pathogenesis at embryological level • name the number of different types of rare facial clefts in addition to cleft lip and palate • Classify cleft lip and palate for communication and record keeping 	LGIS	MCQs SEQs VIVA	02	<p>1.Introduction to cleft and palate anomaly. Dr. Zakir Hussain</p> <p>2.Diagnosis and formulation of treatment plan.</p>

			<ul style="list-style-type: none">• Enlist the OMF problems faced by a cleft patient, from prenatal period till life long				Dr.Zakir Hussain
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			<ul style="list-style-type: none"> • Constitute a team for the treatment of a cleft patient • Describe the treatment of a cleft patient according to the sequence and surgical procedures • Enlist various syndromes associated with Cleft Lip and Palate (CLP) • Explain various surgical procedures for CLP repair 				
09,10	Hospitalized patients, general anesthesia & Conscious Sedation.	<ul style="list-style-type: none"> • Follow the protocols for Major Oral & Maxillofacial Surgical procedures in a hospital setting • Discuss preparation of a patient undergoing General Anaesthesia 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Describe when to hospitalize a dental patient for management • Evaluate a patient for Oral and Maxillofacial surgery under General Anaesthesia • List pre-operative management of patient for major oral surgery: investigations and consults with reference to ASA status • Describe assessment of fitness, normal, abnormal cardiac and respiratory signs, premedication, anesthetic and analgesia medication • Describe the technique of endotracheal intubation 	LGIS SGD	MCQs SEQs VIVA	03	<ol style="list-style-type: none"> 1. Identifying patients with special needs. Lt.Col.At a 2. General Anesthesia Dr. Suleman . 3. Conscious Sedation. Lt.Col.At a
			<p><u>SKILL</u></p> <ul style="list-style-type: none"> • Answer a referral consultation letter • Provide care for hospitalized patient 	Practical	OSCE		

			<ul style="list-style-type: none"> • Record operative notes • Write a hospital discharge letter 				
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10	Facial cosmetic surgery		<p>KNOWLEDGE.</p> <ul style="list-style-type: none"> . understanding facial aesthetic units. . understanding different aesthetic procedures and outcomes. <p>SKILL.</p> <p>Examination of the patients, and ordering appropriate investigation and maintaining records.</p>	LGIS SGD		0 1	1.Facial cosmetic surgery. Dr.Ahmed jawwad.
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11,12	Oral Cancer	<ul style="list-style-type: none"> • Introduction to oral cancer. • Discuss preparation of a patient with oral cancer 	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Diagnosis and history taking of the oral cancer patient. • Biopsy taking and ordering appropriate investigation. • Describe assessment of fitness. 	LGIS SGD	MCQs SEQs VIVA	04.	<p>1.Etiology of oral cancer Lt.Col.Ata</p> <p>2.TNM classification. Dr. Suleman.</p> <p>3.Surgical management. Lt.Col.Atta.</p> <p>4. Chemo , Radio and rehabilitation. Dr.Zakir</p>
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13,14	Recent advances in oral and maxillofacial surgery. Problem Solving.	<ul style="list-style-type: none"> • CADCAM • CBCT • Robotics surgery. <p>1. Medico-Legal Consideration.</p> <p>2. Rational of Pharmacological therapy in dental practice.</p>	<p><u>KNOWLEDGE</u></p> <ul style="list-style-type: none"> • Recent Advances. • Robotics surgery. • CADCAM impimentation. <p><u>KNOWLEDGE.</u></p> <p>Understanding the legal side of dental practice. Common drugs used in dental practice with indication and contraindication</p>	LGIS SGD	MCQs SEQs VIVA	01. 02	<p>1. Recent advances Lt.Col.Atta.</p> <p>1.Medico-legal consideration. Dr.suleman</p> <p>2.Rational of pharmacological therapy. Dr.Zakir</p>
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14	Soft Tissue Injury .		<u>KNOWLEDGE</u> Understanding mechanism of soft tissue injury and management	LGIS SGD	MCQs SEQs VIVA	01.	1. Soft tissue injury. Dr. Suleman
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PRACTICAL

S. No.	Topic/ Theme	Learning Objective	MITs	Assessment Tools
01.	Basic Principles of Surgery	<ul style="list-style-type: none"> <input type="checkbox"/> Identify various suturing material types, their application, <input type="checkbox"/> specification of suturing needle and suture <input type="checkbox"/> Perform various Suturing Techniques <input type="checkbox"/> Draw and label various surgical flaps used in minor oral surgery <input type="checkbox"/> Identify and use of appropriate size/number blade according to purpose and anatomical region <input type="checkbox"/> Handle the surgical Blade, placement and removal from BP handle 	Practical	OSCE
02.	Oral & Maxillofacial Trauma	<ul style="list-style-type: none"> <input type="checkbox"/> Identify various reduction & fixation techniques used in maxillofacial fracture management <input type="checkbox"/> Make Eye-lets with wire & wire handling <input type="checkbox"/> Maxillo-Mandibular Fixation on Models <input type="checkbox"/> Practice placement of arch bar on models 	Practical	OSCE
03.	Examination of Oral & Maxillofacial Region	<ul style="list-style-type: none"> <input type="checkbox"/> Perform Clinical Examination of TMJ, Salivary Glands and Lymph Nodes <input type="checkbox"/> Identify of armamentarium for Major & Minor Surgical Procedures 	Practical	OSCE
04.	Student Presentations & Radiology	<ul style="list-style-type: none"> <input type="checkbox"/> Interpret Radiological findings related to exodontia: Periapical & OPG (impacted canine & 3rd molars) 	Practical	OSCE Student presentations
05.	Ward Test	END OF ROTATION WARD TEST	-	-

1. OMFS

Week	TOPIC	No. of Lectures
01	□Pre-prosthetic Surgery	02
02	Pre-prosthetic Surgery	02
03	□Orofacial Pain	02
04	□TMJ Disorder	02
05	□Salivary Gland Disorders	02
06	Dentofacial Deformity	02
07	Orthognathic Surgery	02
08	Cleft Lip and Palate	02
09	□General Anesthesia and and conscious Sedation	02
10	□Conscious sedation and Facial Cosmetic Surgery	02
11	□Oral Cancer	02
12	Oral Cancer	02
13	Recent advancement in OSMF surgery Problem solving	02
14	Problem Solving Soft tissue injuries	02

Learning Resources

2.Oral And Maxillofacial Surgery

1. Contemporary Oral and Maxillofacial Surgery, 7th Edition, James R. Hupp
2. Handbook of Local Anesthesia, 7th Edition, Stanley F.Malamed
3. Fractures of the Facial Skeleton, 2nd Edition, Peter Banks
4. Scully's Medical Problems in Dentistry, 7th Edition, Crispian Scully
5. Internet Sources