



# Course Specifications

<b>Course Title:</b>	Clinical Oral Surgery I
<b>Course Code:</b>	MDS ٣13
<b>Program:</b>	Bachelor of Dental Surgery (BDS)
<b>Department:</b>	Maxillofacial Surgery & Diagnostic Sciences
<b>College:</b>	College of dentistry
<b>Institution:</b>	Majmaah University

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## A. Course Identification

<b>1. Credit hours:</b> 4
<b>2. Course type</b>
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> 3rd year / 1st & 2nd semester
<b>4. Pre-requisites for this course (if any):</b> MDS 213
<b>5. Co-requisites for this course (if any):</b> None

## 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	15	50%
2	Blended	NA	NA
3	E-learning	NA	NA
4	Correspondence	NA	NA
5	Other ( clinic )	45	50%

## 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
<b>Contact Hours</b>		
1	Lecture	15
2	Clinic/Studio	45
3	Tutorial	-
4	Others (specify)	-
	<b>Total</b>	<b>60</b>
<b>Other Learning Hours*</b>		
1	Study	45
2	Assignments	15
3	Library	15
4	Projects/Research Essays/Theses	-
5	Others (specify)	-
	<b>Total</b>	<b>75</b>

\* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

## B. Course Objectives and Learning Outcomes

<p><b>1. Course Description</b></p> <p>This four-credit hours course consists of two parts; theory and clinical.</p> <p>The theoretical part (2 credit hours) is designed to provide dental students with basic knowledge related to oral surgery.</p> <p>The practical part (2 credit hour, 3 contact hours) provide students with skills needed to</p>
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administer local anesthesia and manage dental extraction case , either medically free or medically compromised cases with the ability to deal with emergency situations in dental office.

## 2. Course Main Objective

The main purpose for this course is to equip students with knowledge and essential skills to manage simple surgical cases under local anesthesia however the patient is medically fit or medically compromised case and to deal with emergency cases on dental chair.

## 3. Course Learning Outcomes

CLOs		Aligned PLOs
1	<b>Knowledge:</b>	
K3.18	Describe the basic facts and concepts needed for the diagnosis and treatment of simple oral surgery cases.	K3
2	<b>Skills :</b>	
S1.11	Differentiate between the normal and abnormal orofacial structures and functions in oral and maxillofacial region.	S1
S5.1	Summarize the medical emergencies in dental office and the principles of their management at the graduate level.	S5
S7.3	Perform hand-eye coordination skills for management of different clinical and surgical procedures.	S7
3	<b>Competence:</b>	
C3.2	Show effective communication skills with the patients, their families and all members of the health team including documentation for oral surgery case.	C3

## C. Course Content

No	List of Topics	Contact Hours
	<b>First semester</b>	
1	<ul style="list-style-type: none"> <li>➤ <b>Unit one: Infection Control in Surgical Practice ( part 1)</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Terminology and Concepts</li> <li>• Sterilization and Disinfection</li> </ul> </li> </ul>	1
2	<ul style="list-style-type: none"> <li>➤ <b>Unit one: Infection Control in Surgical Practice (part 2)</b> <ul style="list-style-type: none"> <li>• Surgical Staff Preparation</li> <li>• Clean versus sterile Technique</li> <li>• Sharps Management</li> </ul> </li> </ul>	1
3	<ul style="list-style-type: none"> <li>➤ <b>Unit two: Preoperative health status evaluation</b> <ul style="list-style-type: none"> <li>• History and Physical Examinations</li> <li>• Common Health Conditions</li> <li>• Review of Maxillofacial Regions ,Cardiovascular and Respiratory Systems</li> <li>• (ASA)Classification</li> <li>• General Anxiety-Reduction Protocol</li> </ul> </li> </ul>	1
4	<ul style="list-style-type: none"> <li>➤ <b>Unit three: Revision on LA techniques (part 1 )</b> <ul style="list-style-type: none"> <li>• Definition</li> </ul> </li> </ul>	1

	<ul style="list-style-type: none"> <li>• General L.A injection considerations</li> <li>• Types of L.A injection procedures</li> </ul>	
5	<ul style="list-style-type: none"> <li>➤ <b>Unit three: Revision on LA techniques (part 2 )</b> <ul style="list-style-type: none"> <li>• Maxillary anaesthesia</li> <li>• Mandible anaesthesia</li> <li>• L.A complications</li> </ul> </li> </ul>	1
6	<ul style="list-style-type: none"> <li>➤ <b>Unit four: Revision on exodontia techniques ( part 1)</b> <ul style="list-style-type: none"> <li>• Indication and contraindication for exodontia</li> <li>• Clinical evaluation of teeth for removal</li> <li>• Radiographic examination of teeth for removal</li> <li>• Patient and dentist position</li> <li>• Forceps and elevator extraction</li> </ul> </li> </ul>	1
7	<ul style="list-style-type: none"> <li>➤ <b>Unit four: Revision on exodontia techniques ( part 2)</b> <ul style="list-style-type: none"> <li>• Modification for extraction of Iry teeth</li> <li>• Definition, Indication and contraindication of surgical extraction</li> <li>• Steps of extraction of complicated teeth and roots</li> <li>• Post extraction instructions and care of socket</li> </ul> </li> </ul>	1
8	<ul style="list-style-type: none"> <li>➤ <b>Unit five: Management of Medically Compromised Patients ( part 1 )</b> <ul style="list-style-type: none"> <li>• Angina pectoris patient</li> <li>• Myocardial infarction</li> <li>• Congestive heart failure</li> <li>• Hypertension</li> <li>• Coagulopathy</li> <li>• Asthma</li> <li>• COPD</li> </ul> </li> </ul>	1
9	<ul style="list-style-type: none"> <li>➤ <b>Unit five: Management of Medically Compromised Patients ( part 2 )</b> <ul style="list-style-type: none"> <li>• Renal disease</li> <li>• Hepatic problem</li> <li>• Diabetes</li> </ul> </li> </ul>	1
10	<ul style="list-style-type: none"> <li>➤ <b>Unit five: Management of Medically Compromised Patients ( part 3 )</b> <ul style="list-style-type: none"> <li>• Adrenal suppression</li> <li>• Hyperthyroidism</li> <li>• Seizure</li> <li>• Pregnancy</li> </ul> </li> </ul>	1
11	<ul style="list-style-type: none"> <li>➤ <b>Unit six: Wound Repair</b> <ul style="list-style-type: none"> <li>• Causes of tissue damage</li> <li>• Stages of Wound Healing</li> <li>• Factors That Impair Wound Healing</li> <li>• Types of Healing</li> <li>• Healing of Extraction Sockets</li> </ul> </li> </ul>	1
12	<ul style="list-style-type: none"> <li>➤ <b>Unit seven: Principles of Surgery ( Part 1 )</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Incisions</li> <li>• Surgical flap</li> <li>• Tissue handling and hemostasis</li> <li>• Dead space and edema control</li> <li>• Decontamination and debridement</li> </ul> </li> </ul>	1

13	<p>➤ <b>Unit seven: Principles of Surgery ( Part 2 )</b></p> <ul style="list-style-type: none"> <li>• Types of flaps</li> <li>• Types of suturing materials and packing</li> <li>• Types of needle</li> <li>• Types of common suturing techniques</li> </ul>	1
14	<p>➤ <b>Unit eight: Instrumentation for Basic Oral Surgery(part 1)</b></p> <p><b>Instruments used in</b></p> <ul style="list-style-type: none"> <li>• Incising tissue and elevating the mucoperiosteum</li> <li>• Retracting and grasping soft tissue</li> <li>• Controlling hemorrhage</li> <li>• Removing bone</li> <li>• Removing soft tissue from bony cavities</li> </ul>	1
15	<p>➤ <b>Unit eight: Instrumentation for Basic Oral Surgery(part 2)</b></p> <p><b>Instruments used in :</b></p> <ul style="list-style-type: none"> <li>• Suturing soft tissue</li> <li>• Holding the mouth open</li> <li>• Suctioning</li> <li>• Holding towels and drapes in position</li> <li>• Irrigation</li> <li>• Exodontia</li> </ul>	1
<b>Second semester</b>		
16	<p>➤ <b>Unit nine Principles of Differential Diagnosis and Biopsy</b></p> <ul style="list-style-type: none"> <li>• History and clinical examination of lesion</li> <li>• Biopsy definition</li> <li>• Indication of biopsy</li> <li>• Types and technique of biopsy</li> <li>• Final diagnosis</li> </ul>	1
17	<p>➤ <b>Unit ten: Principles of endodontic surgery</b></p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Indication and contraindication</li> <li>• Surgical technique</li> <li>• Root end filling materials</li> <li>• Complications</li> </ul>	1
18	<p>➤ <b>Unit eleven: Medical Emergencies in Dental Clinic( part 1 )</b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• patient medical history</li> <li>• determination of medical risk</li> <li>• Emergency drug box and equipment</li> </ul>	1
19	<p>➤ <b>Unit eleven: Medical Emergencies in Dental Clinic( part 2 )</b></p> <ul style="list-style-type: none"> <li>• Vasovagal syncope</li> <li>• Anaphylactic shock</li> <li>• Seizure</li> <li>• Stroke</li> <li>• Diabetic emergency</li> <li>• Adrenal insufficiency</li> </ul>	1
20	<p>➤ <b>Unit eleven: Medical Emergencies in Dental Clinic( part 3 )</b></p> <ul style="list-style-type: none"> <li>• Hyperventilation</li> <li>• Acute asthma</li> </ul>	1

	<ul style="list-style-type: none"> <li>• Choking and aspiration</li> <li>• Hypertensive crisis</li> <li>• Angina / Myocardial infarction</li> <li>• cardiac arrest</li> </ul>	
21	<p>➤ <b>Unit twelve: Odontogenic diseases of the maxillary sinus I</b></p> <ul style="list-style-type: none"> <li>• Embryology and anatomy</li> <li>• Clinical examination of the maxillary sinus</li> <li>• Radiographic examination of the maxillary sinus</li> <li>• Nonodontogenic infections of maxillary sinus</li> <li>• Odontogenic infections of the maxillary sinus</li> </ul>	1
22	<p>➤ <b>Unit twelve: Odontogenic diseases of the maxillary sinus II</b></p> <ul style="list-style-type: none"> <li>• Treatment of maxillary sinusitis</li> <li>• Antral pseudocysts</li> <li>• Complications of oral surgery involving maxillary sinus</li> <li>• Oroantral Communications</li> <li>• Oroantral Fistulae</li> </ul>	1
23	<p>➤ <b>Unit thirteen : Principles of management and prevention of odontogenic Infections( part 1)</b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Causes and types of infection</li> <li>• Spread of infection</li> <li>• Phases and fate of infection</li> <li>• Diagnosis of infection</li> <li>• General management of patient with infection</li> </ul>	1
24	<p>➤ <b>Unit thirteen : Principles of management and prevention of odontogenic Infections( part 2)</b></p> <ul style="list-style-type: none"> <li>• Common infection in the mouth</li> <li>• Fascial spaces infection( Anatomy, Etiology, Clinical Presentation and Treatment )</li> </ul>	1
25	<p>➤ <b>Unit thirteen : Principles of management and prevention of odontogenic Infections( part 3)</b></p> <ul style="list-style-type: none"> <li>• Ludwig's angina</li> <li>• Osteomyelitis</li> <li>• Chronic infection of jaws</li> </ul>	1
26	<p>➤ <b>Unit fourteen: Diagnosis and management of salivary gland disorders (part 1)</b></p> <ul style="list-style-type: none"> <li>• Embryology, anatomy and physiology of salivary glands</li> <li>• Diagnostic modalities of salivary glands</li> <li>• Salivary gland swellings</li> </ul>	1
27	<p>➤ <b>Unit fourteen: Diagnosis and management of salivary gland disorders (part 2)</b></p> <ul style="list-style-type: none"> <li>• Sialolithiasis</li> <li>• Traumatic salivary gland injuries</li> <li>• Complications of salivary gland surgery</li> </ul>	1
28	<p>➤ <b>Unit fifteen: Dental Implants ( part 1 )</b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Types of dental implant</li> <li>• Indication and contraindication</li> </ul>	1

	<ul style="list-style-type: none"> <li>• Classification of dental implants</li> <li>• Basic components</li> </ul>	
29	<ul style="list-style-type: none"> <li>➤ <b>Unit fifteen: Dental Implants ( part 2 )</b></li> <li>• Osseointegration</li> <li>• Requirements of successful implant</li> <li>• Treatment planning</li> <li>• Failure of dental implant</li> </ul>	1
30	<ul style="list-style-type: none"> <li>➤ <b>Unit sixteen: TMJ disorder</b></li> <li>• Anatomy of the temporomandibular joint</li> <li>• Evaluation of TMJ</li> <li>• Classification of TMJ Disorders</li> <li>• TMJ problems treatment</li> <li>• TMJ surgery</li> </ul>	1
<b>Total</b>		30

## D. Teaching and Assessment

### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge</b>		
K3.18	Describe the basic facts and concepts needed for the diagnosis and treatment of simple oral surgery cases.	<ul style="list-style-type: none"> <li>✓ Lecture</li> <li>✓ Clinical Session</li> </ul>	<ul style="list-style-type: none"> <li>• Written exams.</li> <li>• Oral exam.</li> <li>• Practical exam.</li> <li>• OSPE / OSCE.</li> <li>• Assignments.</li> </ul>
<b>2.0</b>	<b>Skills</b>		
S1.11	Differentiate between the normal and abnormal orofacial structures and functions in oral and maxillofacial region.	<ul style="list-style-type: none"> <li>✓ Lecture</li> <li>✓ Clinical Session</li> </ul>	<ul style="list-style-type: none"> <li>• Written exams.</li> <li>• Oral exam.</li> <li>• Practical exam.</li> <li>• OSPE / OSCE.</li> <li>• Assignments.</li> <li>• Case based scenario / Problem based learning.</li> <li>• Weekly assessment.</li> <li>• Approved procedures documented in logbook.</li> </ul>
S5.1	Summarize the medical emergencies in dental office and the principles of their management at the graduate level.	<ul style="list-style-type: none"> <li>✓ Lecture</li> <li>✓ Clinical Session</li> </ul>	<ul style="list-style-type: none"> <li>• Written exams.</li> <li>• Oral exam.</li> <li>• Practical exam.</li> <li>• OSPE / OSCE.</li> <li>• Assignments.</li> <li>• Case based scenario / Problem based</li> </ul>



Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
			learning. • Weekly assessment. • Approved procedures documented in logbook.
S7.3	Perform hand-eye coordination skills for management of different clinical and surgical procedures.	✓ Lecture ✓ Clinical Session	• Written exams. • Oral exam. • Practical exam. • OSPE / OSCE. • Assignments. • Case based scenario / Problem based learning. • Weekly assessment. • Approved procedures documented in logbook.
<b>3.0</b>	<b>Competence</b>		
C3.2	Show effective communication skills with the patients, their families and all members of the health team including documentation for oral surgery case.	✓ Clinical Session	• Practical / clinical exam. • OSPE / OSCE. • Case based scenario / Problem based learning. • Approved procedures documented in logbook.

## 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Mid-year exam	15 <sup>th</sup>	20%
2	Activities (Quiz)	7 <sup>th</sup>	10%
3	Weekly assessment	Weekly	30%
4	Final theory	31 <sup>th</sup>	20%
5	Final Practical	30 <sup>th</sup>	20%

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

The student shall avail the consultancy during the displayed office hours

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	<ul style="list-style-type: none"> <li>Contemporary oral and maxillofacial surgery 6th edition.</li> <li>Oral surgery by Fragiskos, 1st edition.</li> <li>Local anesthesia handbook by Malamed, 6th edition.</li> </ul>
<b>Essential References Materials</b>	<ul style="list-style-type: none"> <li>Journal of Oral and Maxillofacial Surgery.</li> <li>International Journal of Oral and Maxillofacial Surgery.</li> </ul>
<b>Electronic Materials</b>	<ul style="list-style-type: none"> <li><a href="http://www.pubmed.com">http://www.pubmed.com</a></li> <li><a href="http://www.sdl.com">http://www.sdl.com</a></li> </ul>
<b>Other Learning Materials</b>	<ul style="list-style-type: none"> <li>Power point and videos</li> </ul>

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	<ul style="list-style-type: none"> <li>Lecture rooms should be large enough to accommodate 30 students.</li> <li>Well-equipped dental clinics.</li> </ul>
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> <li>One computer, projector, active-board, video set connected to projector.</li> </ul>
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> <li>Dental clinic equipped by dental chair, autoclave, personal protective equipment, sink, trash for medical waste, local anesthesia and surgical instruments for dental extraction.</li> </ul>

## G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	<ul style="list-style-type: none"> <li>✓ Course Evaluation Survey</li> <li>✓ Quality of Exam Survey</li> </ul>
	Faculty	<ul style="list-style-type: none"> <li>✓ CLO Mapping with teaching &amp; assessment.</li> <li>✓ Course Blueprinting</li> <li>✓ Grade Analysis</li> <li>✓ Psychometric Analysis</li> </ul>
	Peers	Grade Verification
Extent of achievement of course learning outcomes	Faculty member / Quality assurance committee	<ul style="list-style-type: none"> <li>✓ Direct assessment outcome analysis</li> <li>✓ Course report preparation</li> </ul>
Quality of learning resources, etc	Students / Faculty	<ul style="list-style-type: none"> <li>✓ Academic advising survey</li> <li>✓ Student experience survey</li> </ul>

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

## H. Specification Approval Data

<b>Council / Committee</b>	Department Council
<b>Reference No.</b>	
<b>Date</b>	