



**Islamic University in Najaf - Faculty Of Dentistry  
Quality Assurance and Academic Accreditation unit**

# **Course Description**

**Department of Oral & Maxillofacial Surgery**

2024

## Course Description Form

1. Course Name:
Oral surgery
2. Course Code:
D413
3. Semester / Year:
Forth year
4. Description Preparation Date:
16-4-2024
5. Available Attendance Forms:
Available
6. Number of Credit Hours (Total) / Number of Units (Total)
Theoretical 2 clinical 4
7. Course administrator's name (mention all, if more than one)
Dr.Abbas Alaboudy Email: kufa54@iunajaf.edu.iq
8. Course Objectives

<b>C o u r s e O b j e c t i v e s</b>	<ul style="list-style-type: none"> <li>• <b>Understanding Oral Anatomy:</b> Gain a comprehensive understanding of oral and maxillofacial anatomy, including the structure and function of the teeth, jaws, temporomandibular joints (TMJ), and surrounding soft tissues.</li> <li>• <b>Diagnosis and Treatment Planning:</b> Learn how to diagnose oral and maxillofacial conditions requiring surgical intervention and develop appropriate treatment plans based on radiographic findings and patient needs.</li> <li>• <b>Radiographic Techniques:</b> Acquire proficiency in various radiographic techniques commonly used in oral and maxillofacial imaging, including intraoral periapical, panoramic, cephalometric, and cone-beam computed tomography (CBCT) imaging.</li> <li>• <b>Interpretation of Radiographs:</b> Develop skills in interpreting radiographic images to identify normal anatomical structures, pathological conditions, developmental anomalies, and signs of disease or injury.</li> <li>• <b>Surgical Techniques:</b> Acquire basic surgical skills relevant to oral and maxillofacial surgery, such as tooth extraction, biopsy, soft tissue management, and suturing, with an emphasis on integrating radiographic findings into treatment planning and execution.</li> <li>• <b>Patient Management:</b> Learn strategies for effective patient management before, during, and after oral surgery procedures, including obtaining informed consent, managing anxiety, and providing postoperative care instructions based on radiographic findings.</li> <li>• <b>Radiation Safety and Protection:</b> Understand principles of radiation safety and protection to minimize radiation exposure to patients, staff, and oneself during dental radiographic procedures.</li> <li>• <b>Integration of Radiology with Oral Surgery Practice:</b> Explore the role of radiology in oral surgery practice, including its importance in diagnosis, treatment planning, and follow-up evaluation of surgical outcomes.</li> <li>• <b>Complication Management:</b> Gain knowledge and skills in recognizing and managing common complications associated with oral surgery procedures, with an awareness of how radiographic findings can aid in diagnosis and</li> </ul>
<b>9. Teaching and Learning Strategies</b>	
<b>Strategy</b>	<p><b>Lecture-Based teaching:</b>  Blackboard illustrations  Power point presentation on Data show projector  Teacher-student interaction or Question-answer  In-lecture Quiz</p> <p><b>Laboratory based teaching;</b>  Demonstration for each laboratory step  Monitoring student (Hands-on) performance under guided supervision</p>
<b>10. Course Structure</b>	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1,2	2	<ul style="list-style-type: none"> <li>• To know about the hypertensive patient regarding, Dental management and Oral Manifestations</li> <li>• To recognize Cardiovascular diseases including;               <ul style="list-style-type: none"> <li>· Ischemic heart diseases</li> <li>· Angina pectoris</li> </ul> </li> <li>• To understand the Dental management of;               <ul style="list-style-type: none"> <li>· Myocardial infarction (MI)</li> <li>Ø Heart failure</li> <li>· Oral manifestations</li> <li>Ø Cardiac arrhythmia</li> <li>Ø Infective endocarditis</li> <li>Ø Rheumatic fever</li> <li>Ø Rheumatic heart Disease</li> <li>Ø Congenital heart disease</li> </ul> </li> <li>• To comprehend the Oral</li> </ul>	Cardiovascular diseases	Lecture	
3	1	<ul style="list-style-type: none"> <li>• To know the Dental management of the patient with bleeding disorder as               <ul style="list-style-type: none"> <li>ü Hemophilia</li> <li>ü Von Willebrand's disease</li> <li>ü Thrombocytopenia</li> <li>Ø Blood dyscrasias</li> <li>Ø Disorders of the RBCs</li> <li>· others</li> <li>· Surgical Field Maintenance</li> </ul> </li> <li>• To recognize and understand the related Operatory Disinfection and Surgical Staff Preparation</li> <li>• To comprehend the</li> </ul>	bleeding disorder:	Lecture	

4	2	<ul style="list-style-type: none"> <li>• To know the Oral manifestations of different endocrine diseases</li> <li>• To understand the Oral complications of different endocrine diseases</li> <li>• To Distinguish the dental management of different endocrine diseases including <ul style="list-style-type: none"> <li>Ø Thyroid diseases <ul style="list-style-type: none"> <li>· Hyper- and hypothyroidism</li> </ul> </li> <li>Ø Adrenal insufficiency <ul style="list-style-type: none"> <li>· Adrenocortical insufficiency and adrenal</li> </ul> </li> </ul> </li> </ul>	Endocrinology	Lecture	
5	2	<ul style="list-style-type: none"> <li>• To know the Oral manifestations of different Pulmonary diseases</li> <li>• To recognize the Oral complications of different Pulmonary diseases.</li> <li>• To Distinguish the dental management of different endocrine diseases including <ul style="list-style-type: none"> <li>Ø Asthma</li> <li>Ø Chronic obstructive pulmonary diseases</li> </ul> </li> </ul>	P u l m o n a r y diseases	Lecture	
6	1	<ul style="list-style-type: none"> <li>• To Identify the Dental management and Oral manifestations and complications of Viral hepatitis</li> <li>• To know the Dental management and Oral</li> </ul>	Liver Diseases	Lecture	
7	1	<ul style="list-style-type: none"> <li>• To know the different Oral complications and manifestations of Chronic kidney disease</li> <li>• To recognize the Dental management of <ul style="list-style-type: none"> <li>ü Dialysis Patients</li> </ul> </li> </ul>	Chronic kidney disease and dialysis	Lecture	

8	1	<ul style="list-style-type: none"> <li>• To know the different Oral complications and manifestations of Neurologic disorders</li> <li>• To recognize the Dental management of Neurologic disorders including <ul style="list-style-type: none"> <li>Ø Epilepsy</li> <li>Ø Cerebrovascular accidents</li> </ul> </li> </ul>	Neurologic disorders	Lecture	
9	1	<ul style="list-style-type: none"> <li>• To know the possible oral manifestations related to Pregnant patient</li> </ul> <p>Pharmacokinetics of local anesthetics. To understand their components</p> <ul style="list-style-type: none"> <li>• To understand the standard car and precaution for a pregnant patient including; <ul style="list-style-type: none"> <li>ü Treatment timing</li> <li>ü Dental radiographs</li> <li>ü Drugs in pregnancy</li> </ul> </li> </ul>	Pregnancy	Lecture	
10	1	<ul style="list-style-type: none"> <li>• To know the possible oral manifestations related to AIDS and HIV infection</li> <li>• To understand the standard car and precaution for a AIDS and HIV infection including; <ul style="list-style-type: none"> <li>ü Asymptomatic patient.</li> <li>ü Symptomatic patient.</li> </ul> </li> </ul>	AIDS and HIV infection	Lecture	
11	1	<ul style="list-style-type: none"> <li>• To know the possible oral manifestations related to Rheumatologic and connective tissue disorders</li> <li>• To understand the standard car and precaution for a Rheumatologic and connective tissue disorders including; <ul style="list-style-type: none"> <li>· Rheumatoid arthritis</li> </ul> </li> </ul>	Rheumatologic and connective tissue disorders	Lecture	
12	1	<ul style="list-style-type: none"> <li>• To know the Dental management and Oral manifestations and</li> </ul>	Allergy	Lecture	

13	1	<ul style="list-style-type: none"> <li>• To know the Radiation effects on normal tissues in the path of the external beam in Patients on radiotherapy</li> <li>• To identify the dental manifestation, complication and dental management in Patients on radiotherapy</li> <li>• To know the effect of chemotherapy on normal tissues</li> <li>• To recognize the Dental</li> </ul>	Patients on radiotherapy and chemotherapy	Lecture	
14	1	<ul style="list-style-type: none"> <li>• To comprehend the possible Odontogenic infections and fascial space infections</li> <li>• To understand the Spread of odontogenic infections</li> <li>• To recognize the factors that influence the spread of odontogenic infections</li> </ul>	Odontogenic infections and facial space infections	Lecture	
15	1	<ul style="list-style-type: none"> <li>• To know the Infection of spaces in relation to the lower jaw</li> <li>• To recognize the Infection of spaces in relation to the upper jaw</li> </ul>	Facial space infections	Lecture	
16	1	<ul style="list-style-type: none"> <li>• To recognize the Principles of treatment of odontogenic infections.</li> <li>• To know the Principles for the use of appropriate antibiotics.</li> <li>• To understand the Sinus</li> </ul>	Principles of treatment of odontogenic infections	Lecture	

17,18	2	<ul style="list-style-type: none"> <li>• To know the Principles of oral cavity Flaps including Ø Flaps in oral cavity <ul style="list-style-type: none"> <li>· Incision</li> <li>· Flap design</li> <li>· Types of Mucoperiosteal Flaps</li> <li>· Flap reflection</li> </ul> </li> <li>• To comprehend the Suturing principles and Techniques including; <ul style="list-style-type: none"> <li>· Suture Materials</li> <li>· Needles</li> <li>· Needle Holder</li> <li>· Tissue Forceps</li> <li>· Suture Scissor</li> </ul> </li> <li>• To know the main indications for surgical extraction of teeth</li> <li>• To recognize the steps of surgical extraction including; <ul style="list-style-type: none"> <li>· Indications for leaving</li> </ul> </li> </ul>	Principles of Flaps, suturing and management of difficult extraction	Lecture	
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18,19 20,21	4	<ul style="list-style-type: none"> <li>• To know the definition and stages of eruption</li> <li>• To comprehend the impacted <b>lower third molars</b> including; <ul style="list-style-type: none"> <li>ü indications for removal</li> <li>ü Classification</li> <li>ü Clinical examination</li> <li>ü Radiographic examination and assessment</li> </ul> </li> <li>• To recognize the complications of surgical extraction of lower third molar</li> </ul> <p>To understand the possible other lines of surgical extraction of lower third molar</p> <ul style="list-style-type: none"> <li>• To comprehend the impacted <b>upper third molars</b> including; <ul style="list-style-type: none"> <li>ü Surgical extraction</li> <li>ü Complications</li> </ul> </li> <li>• To comprehend the impacted <b>maxillary canine</b> including; <ul style="list-style-type: none"> <li>ü Classification</li> <li>ü Clinical examination</li> <li>ü Radiographic assessment</li> <li>ü Options of treatment</li> </ul> </li> <li>• To comprehend the impacted <b>mandibular canine.</b></li> <li>• To understand the management of other types</li> </ul>	Principles of management of impacted teeth	Lecture	
22	1	<ul style="list-style-type: none"> <li>• To understand the principles and basic techniques corticotomy assisted orthodontic treatment and labial frenectomy.</li> <li>• To know the basics of temporary skeletal</li> </ul>	Surgical aids to orthodontics	Lecture	

23	1	<ul style="list-style-type: none"> <li>• To understand the principles of endodontic surgery including; Definition and indications for &amp; contraindications.</li> <li>• To recognize for the important considerations &amp; factors Associated with</li> </ul>	Principles of endodontic surgery	Lecture	
24	1	<ul style="list-style-type: none"> <li>• To know the surgical procedure to perform biopsy</li> <li>• To know the indications to do it or not</li> <li>• To understand the factors that determines success</li> <li>• To know the microsurgical technique</li> </ul>	Surgical procedure for biopsy	Lecture	
25	1	<ul style="list-style-type: none"> <li>• To know the Osteomyelitis Definition, Classification, Etiology &amp; pathogenesis</li> <li>• To recognize the clinical presentation, Diagnostic imaging &amp; Microbiology</li> <li>• To understand the possible treatment protocol including; surgical, antimicrobial and hyperbaric oxygen</li> <li>• To know the other types of osteomyelitis including; infantile, focal sclerosing, diffuse sclerosing and</li> </ul>	Osteomyelitis and osteonecrosis of the jaw	Lecture	
26	1	<ul style="list-style-type: none"> <li>• To know the radiation osteomyelitis and osteoradionecrosis including; <ul style="list-style-type: none"> <li>· Definition</li> <li>· Etiology</li> <li>· Stages</li> <li>· Treatment</li> <li>· Prevention</li> </ul> </li> <li>• To comprehend the medication related osteonecrosis of the jaw including their; <ul style="list-style-type: none"> <li>· Definition</li> <li>· Pathophysiology</li> <li>· Clinical presentation and staging</li> </ul> </li> </ul>	Radiation induced osteomyelitis and osteoradionecrosis	Lecture	

27,28	2	<ul style="list-style-type: none"> <li>• To recognize Implant Components</li> <li>• To know the different implant Macro- &amp; micro-design.</li> <li>• To understand the specifics of implant- hard Tissue Interface and implant- Soft Tissue interface</li> <li>• To recognize the biomechanical considerations in implant treatment</li> <li>• To understand the basics of the pre-operative assessment for treatment Planning.</li> <li>• To know the principles of final implant treatment</li> </ul>	Dental Implants: Basic Concepts and Techniques	Lecture	
29	1	<ul style="list-style-type: none"> <li>• To know the Biopsy in oral and maxillofacial surgery including; <ul style="list-style-type: none"> <li>· Lesion Medical &amp; oral history</li> <li>· Examination &amp; Diagnosis</li> <li>· Differential Diagnosis</li> <li>· Biopsy Principles</li> <li>· Contraindication</li> <li>· Excisional Biopsy</li> </ul> </li> </ul>	Biopsy in oral and maxillofacial surgery	Lecture	
30	1	<ul style="list-style-type: none"> <li>• To know the specification of Diagnostic imaging in oral and maxillofacial surgery including; <ul style="list-style-type: none"> <li>· Classification:</li> <li>· Types of imaging as conventional ultrasonography, computed</li> </ul> </li> </ul>	Diagnostic imaging in oral and maxillofacial surgery	Lecture	

### 11.Course Evaluation

First semester 20%

1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz, assessment & assignments) 6 (laboratory steps evaluation & requirements) 4 (1<sup>st</sup> semester final lab.) 6 (1<sup>st</sup> semester final written.)

Second semester 20%

1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz, assessment & assignments) 6 (laboratory steps evaluation & requirements) 4 (1<sup>st</sup> semester final lab.) 6 (1<sup>st</sup> semester final written.)

Final 60%

20 (Final lab. Exam and/or Oral exam) 40 (Final written Exam)

12.Learning and Teaching Resources	
Required textbooks	<ul style="list-style-type: none"> <li>▪ Dental Management of the Medically Compromised Patient, Ninth Edition, 2018</li> <li>▪ Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier).</li> </ul>
Main references (sources)	<ul style="list-style-type: none"> <li>▪ Notes of lectures Course.pdf</li> </ul>
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> <li>▪ Andreas Filippi / Fabio Saccardin / Sebastian Kühl; Basic Oral Surgery.1st Edition 2022</li> </ul>
Electronic References, Websites	<ul style="list-style-type: none"> <li>▪ <a href="https://pocketdentistry.com/basic-and-complex-exodontia-and-surgical-management-of-impacted-teeth/">https://pocketdentistry.com/basic-and-complex-exodontia-and-surgical-management-of-impacted-teeth/</a></li> <li>▪ Principles and Techniques of Exodontia. Oral and Maxillofacial Surgery for the Clinician, 2004</li> </ul>