



**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:
D313
3. Semester / Year:
Third 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 laboratory 2
7. Course administrator's name (mention all, if more than one)
Dr.Abbas Alaboudy Email: kufa54@iunajaf.edu.iq
8. Course Objectives

C o u r s e O b j e c t i v e s	<ul style="list-style-type: none"> • Understanding Oral Anatomy: 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. • Diagnosis and Treatment Planning: Learn how to diagnose oral and maxillofacial conditions requiring surgical intervention and develop appropriate treatment plans based on radiographic findings and patient needs. • Surgical Techniques: 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. • Patient Management: 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. • Radiation Safety and Protection: Understand principles of radiation safety and protection to minimize radiation exposure to patients, staff, and oneself during dental radiographic procedures. • Integration of Radiology with Oral Surgery Practice: Explore the role of radiology in oral surgery practice, including its importance in diagnosis, treatment planning, and follow-up evaluation of surgical outcomes. • Complication Management: 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 management. • Different types of dental forceps used in exodontia • Different types and uses of elevators in exodontia • Different techniques, instruments and complications of local anesthesia
--	---

9. Teaching and Learning Strategies

Strategy	<p>Lecture-Based teaching: Blackboard illustrations Power point presentation on Data show projector Teacher-student interaction or Question-answer In-lecture Quiz</p> <p>Laboratory based teaching; Demonstration for each laboratory step Monitoring student (Hands-on) performance under guided supervision</p>
-----------------	--

10. Course Structure

Week	Hou rs	Required Learning Outcomes	Unit or subject name	Learni ng metho	Evaluati on method
------	-----------	-------------------------------	-------------------------	-----------------------	--------------------------

1,2	2	<ul style="list-style-type: none"> • To know the different clinical steps of Diagnosis including <ul style="list-style-type: none"> Ø History taking <ul style="list-style-type: none"> · Demographic data · Chief complaint · History of present complaint · Past dental and medical history · Social and family history Ø Examination <ul style="list-style-type: none"> · Extra-oral examination · Intra-oral examination Ø Differential diagnosis 	Diagnosis in oral surgery	Lecture	
3,4	2	<ul style="list-style-type: none"> • To know the Communicable pathogenic organisms and Aseptic techniques • To understand different Techniques of Instrument Sterilization and Techniques of Instrument Disinfection • To identify Infection Control in Surgical Practice <ul style="list-style-type: none"> · Maintenance of Sterility · Surgical Field Maintenance · Operatory Disinfection · Surgical Staff 	Infection Control in Surgical Practice	Lecture	

5, 6	2	<ul style="list-style-type: none"> • To know Extraction of teeth <ul style="list-style-type: none"> · Definition. · Methods of extraction. • To understand Indications of teeth extraction. <ul style="list-style-type: none"> ü Severe caries. ü Severe periodontal disease. ü Pulp pathology. ü Apical pathology. ü Orthodontic reasons. ü Prosthetic considerations. ü Impacted teeth. ü others. • To Distinguish different Contra-indications of teeth extraction.as <ul style="list-style-type: none"> Ø Local contra-indications. Ø Systemic contra-indications. · Pre-extraction evaluation. Ø Clinical preoperative evaluation. 	Extraction of teeth and Contra indications of extraction.		
7,8	2	<ul style="list-style-type: none"> • To know the different preparation of <ul style="list-style-type: none"> · Light. · Position of the operator. · Position of the patient. · Height of the dental chair. • To Identify different Parts of dental forceps. • To recognize <ul style="list-style-type: none"> · Forceps for the maxillary teeth. <ul style="list-style-type: none"> ü Forceps of upper anterior teeth. ü Forceps of upper premolars. ü Forceps of upper molars. ü Bayonet of upper posterior teeth. • To Identify different types of dental forceps for, <ul style="list-style-type: none"> · mandibular teeth (anterior teeth, premolars, molars and Bayonet of lower posterior teeth. 	General arrangement for extraction and Dental forceps (types)		

9	1	<ul style="list-style-type: none"> • To Identify Techniques of forceps extraction and post-operative instructions • To know Soft tissue retraction, Handling of the forceps and Cheek retraction and support (the use of the non-working hand). • To Describe the application of the forceps blades to the tooth (tooth grasp), The displacement of the tooth from its socket. • To understand the Post- 	Techniques of forceps extraction and post-operative instructions		
10,11	2	<ul style="list-style-type: none"> • To Identify the elevator Mechanical principles of using different; • To comprehend the <ul style="list-style-type: none"> · Line of withdrawal. · Point of application. · Parts of dental elevators. · dental elevators. · Wheel and axil. · Fulcrum. · Wedging. • To understand the Combination of mechanical principles. • To know the different Clinical uses and Guiding principles of elevators. • To identify <ul style="list-style-type: none"> · Straight elevators. · Coupland's chisel. · Cryer's elevator. · Winter's elevator. · Apexo elevator. · Warwick-James elevator. 	Elevators		

12, 13	2	<ul style="list-style-type: none"> • To Identify the possible complication of exodontia as; <ul style="list-style-type: none"> · Failure to secure anesthesia. · Failure to remove the tooth with either forceps or elevator. · Fracture of crowns and roots, alveolar bone, maxillary tuberosity, adjacent or opposing tooth, mandible. · Dislocation of the temporo-mandibular joint (T.M.J.). · Root Displacement into soft tissue, tissue spaces & maxillary antrum. • To know the management of <ul style="list-style-type: none"> · post extraction Excessive bleeding. · Damage to surrounding soft tissues. · Post-operative pain. 	Complications of dental extraction		
14	1	<ul style="list-style-type: none"> • To Identify different Basic surgical instruments used for; <ul style="list-style-type: none"> · recording VD · tissues incision. · mucoperiosteum elevating. · controlling hemorrhage. ü Hemostat (artery forceps). <ul style="list-style-type: none"> · grasping tissues. · bone removing as (bone cutter and bone nibbler), Bone file, and Surgical burs. • To identify Instruments used to remove soft tissues from bony defects. • To understand the different soft tissue instruments as; <ul style="list-style-type: none"> · Surgical curette. · Needles, Needle holder, Suture materials and Scissors. • To know the instruments used for soft tissues retraction, Cheek retractor and Muco-periosteal 	Basic surgical instruments		

15	1	<ul style="list-style-type: none"> • To know the Neurophysiology • To comprehend the Mode and site of action of local anesthetic 	Introduction to local anesthesia		
16,17	2	<ul style="list-style-type: none"> • To know the Pharmacokinetics of local anesthetics. To understand their components • To understand Metabolism and Systemic actions of local anesthetics • To know the Vasoconstrictors different; <ul style="list-style-type: none"> · Mode of action · Dilutions of 	Pharmacology of local anesthesia		
18,19	2	<ul style="list-style-type: none"> • To know the surgical anatomy of; <ul style="list-style-type: none"> · Trigeminal nerve: <ul style="list-style-type: none"> ü Ophthalmic branch ü Maxillary branch ü Mandibular branch • To understand the importance of. 	Surgical anatomy in local anesthesia		
20	1	<ul style="list-style-type: none"> • To identify the different instruments used for local anesthesia as The Syringe, The Needle and The Cartridge • To recognize the Additional Armamentarium needed and 	Instruments of local anesthesia		

21,22, 23	3	<ul style="list-style-type: none"> • To know the local anesthesia Basic injection techniques in maxilla Techniques of (Local infiltration, superior alveolar nerve block, and also the Greater palatine and Nasopalatine nerve block • To understand the local anesthesia Basic injection techniques in mandible as (Inferior alveolar, Buccal, Mental and Incisive nerve blocks) • To be familiar with the Gow-Gates technique and Vazirani-Akinosi closed-mouth mandibular block • To comprehend Supplemental injection techniques as 	Techniques of local anesthesia		
24,25, 26	3	<ul style="list-style-type: none"> • To know the different local anesthesia Complications as; <ul style="list-style-type: none"> · Local Complications <ul style="list-style-type: none"> ü Needle breakage ü Paresthesia ü Facial nerve paralysis ü Ocular complications ü Trismus ü Soft tissue injury ü Hematoma • To comprehend the possible problems of ; <ul style="list-style-type: none"> ü Pain or Burning on injection ü post injection Infection, Edema or tissue Sloughing • To identify the possibility of Postanesthetic intraoral lesions • To recognize the possible 	Arrangement Of Artificial Teeth		
27	1	<ul style="list-style-type: none"> • To recognize Computer controlled local anesthetic delivery • To know Articaine hydrochloride • To understand Local anesthesia reversal 	Advances in local anesthesia		

28	1	<ul style="list-style-type: none"> To comprehend Sedation techniques as Oral, sublingual, transdermal, intranasal, intramuscular, intravenous and inhalational To know the Nitrous oxide, Complications and medicolegal considerations 	C o n s c i o u s sedation		
29	1	<ul style="list-style-type: none"> To know Types of general anesthesia used in dentistry and their Advantages, Disadvantages, Indications 	Fundamentals of g e n e r a l anesthesia		
30	1	<ul style="list-style-type: none"> To Overview the medical emergencies in addition to Basic measures, equipment and drugs To detect the Common emergencies as <ul style="list-style-type: none"> ü Collapse ü Anaphylaxis ü Cardiac arrest ü collapse due to hypoglycemia ü Fits and convulsions ü Adrenal crisis 	M e d i c a l emergencies during dental treatment		

11.Course Evaluation

First semester 20%

1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz, assessment & assignments) 4 (laboratory steps evaluation) 5 (1st semester final lab.) 7 (1st semester final written.)

Second semester 20%

1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz, assessment & assignments) 4 (laboratory steps evaluation) 5 (1st semester final lab.) 7 (1st semester final written.)

Final 60%

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

12.Learning and Teaching Resources

Required textbooks

- Essentials of Complete Denture Prosthodontics 3rd/ 2015 (Reprint 2021). Sheldon Winkler. AITBS Publishers & Distributors, 3rd Ed. 2021
- Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier)

Main references (sources)

- Hand book of local anesthesia 7th edition Stanely F. Malamed ,

Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none"> ▪ Malamed SF. Allergy and toxic reactions to local anesthetics. Dent Today. 2003 Apr;22(4):114-6, 118-21.
Electronic References, Websites	<ul style="list-style-type: none"> ▪ https://pocketdentistry.com/local-complications-of-dental-local-anesthesia/ ▪ Ho JTF, van Riet TCT, Afrian Y, Sem KTHCJ, Spijker R, de Lange J, Lindeboom JA. Adverse effects following dental local anesthesia: a literature review. J Dent Anesth Dent Med. 2004;22(4):207-207