



**Jordan University of Science and Technology**  
**Faculty of Dentistry**  
**Dental Surgery Department**

DENT381 Dental Anesthesia And Sedation
First Semester 2023-2024

<b>Course Catalog</b>
1 Credit Hours. This course is designed to introduce the 3rd year students to local anesthesia & dental sedation. It provides the basic and essential knowledge and practice of local anesthesia and sedation in dentistry. Furthermore, the course will cover the theoretical aspects of simple exodontia.

<b>Text Book</b>	
<b>Title</b>	Local anesthesia in Dentistry
<b>Author(s)</b>	Paul Robinson
<b>Edition</b>	1st Edition
<b>Short Name</b>	Robinson
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Malamed	Handbook of Local Anaesthesia	Stanley Malamed	7th Edition	
Extraction of Teeth	The Extraction of Teeth	Geoffrey L. Howe	2nd Edition	

<b>Instructor</b>	
Name	Dr. Saleh Alkadi
Office Location	-
Office Hours	
Email	stalkadi@just.edu.jo

<b>Class Schedule &amp; Room</b>	
Section 1: Lecture Time: Tue : 19:00 - 20:00 Room: 1000 منصة الكترونية	

<b>Tentative List of Topics Covered</b>		
Weeks	Topic	References
Weeks 1, 2, 3, 4, 5, 6	Introduction to the course Local anesthesia pharmacology & physiology Armamentarium of local anesthesia Maxillary anesthesia: anatomy & techniques Mandibular anesthesia: anatomy & techniques Supplemental LA techniques / How to overcome failed LA Complications of local anesthesia	From Robinson, From Malamed
Weeks 7, 8, 9	Introduction to dental sedation / oral sedation IV Sedation Inhalational sedation	From Malamed
Weeks 10, 11, 12	Exodontia (Introduction + instruments) Intra-alveolar & extra-alveolar extraction Complications of dental extraction	From Extraction of Teeth
Weeks 13, 14	Medical emergencies in the dental office	From Robinson, From Malamed

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Recall the components of local anesthetic cartridge action of each component indications & contraindications, dosing and maximum safe doses, types of local anesthetics and their indications and contraindications and side effects	10%	
Identify types & components of syringes, needles used	10%	
Be familiar with different infiltration and block techniques in the mandible as well as in the maxilla	10%	

Recognize and diagnose the signs and symptoms of dental and medical emergencies that might happen in the dental office either due to local anesthesia or due to extraction.	20%	
List different levels and techniques of dental sedation and discuss the advantages and disadvantages of each one.	25%	
Be able to diagnose clinically as well as radiographically the reasons and indications of extracting teeth. Predict & diagnose which teeth have to be extracted which ones he might attempt himself which ones he ought to refer to a specialist and how to manage the complications of tooth extraction and how to remove the roots once he fractures the tooth while extracting	25%	

Relationship to Program														
1. Knowledge	1. Knowledge	1. Knowledge	1. Knowledge	1. Knowledge	2. Cognitive:	2. Cognitive	2. Cognitive	2. Cognitive	2. Cognitive	2. Cognitive	2. Cognitive	2. Cognitive	3. Psychomotor/manual	3. Psychomotor/mani

Evaluation	
Assessment Tool	Weight
Midterm	40%
Final	60%

Policy	
Assessment policy	Midterm Exam 40% Attendance & participation in the discussion N-A Final Exam 60%

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