

## Course Specification Student Version

Course Title:	Introduction to Local Anesthesia
Course Code:	OMC 311
Department:	Dentistry
Program:	Bachelor of Dentistry
College:	Vision College in Riyadh
Institution:	Vision College in Riyadh
Revised:	July 2025

## A. Course Identification

1. Credit hours: 1 (1+0+0)
2. Level/year at which this course is offered: Level 6/Year 3
3. Pre-requisites for this course (if any): GDC 211
4. Co-requisites for this course (if any): None

## B. Teaching Methods

1	Lecture
2	Case-based learning
3	Assignments

## C. Course Description and Objectives

### 1. Course Description

This is a pre-clinical didactic course during the 3rd year. It is an introductory course to oral and maxillofacial surgery. It consists of didactic components that cover the theoretical aspects of local anesthesia in dentistry.

### 2. Course Main Objective

The main purpose of this course is to understand the nature and the mode of action of the various local anesthetic agents and the techniques employed to block nerve conduction and produce anesthesia.

### 3. Course Objectives

**By the end of this course, students should be able to:**

- Discuss the neurophysiology of pain perception and action of local anesthesia
- Describe the anatomical landmarks related to local anesthesia.
- Discuss the properties of the commonly used local anesthetic drugs.
- Describe the different techniques of achieving local anesthesia in dental practice.
- Differentiate between different types of local anesthesia techniques for each condition.
- Distinguish between different drugs and armamentarium used in local anesthesia.
- Demonstrate discipline and ethics during academic study.

## D. Course Content

No	List of Topics
1	Neurophysiology and pathways of pain
2	Pharmacology of local anesthetics & vasoconstrictors
3	Physical evaluations and anatomical considerations related to local anesthesia.
4	Local anesthesia armamentarium.
5	Maxillary and mandibular techniques of local anesthesia.

## E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Assignments Evaluation	10 %
2	Case-based Assessment	10 %
3	Written Exam - Quizzes	10 %
4	Written Exam - Midterm	30 %
5	Written Exam - Final	40 %
	<b>Total</b>	<b>100%</b>

## F. Learning Resources

<b>Essential References</b>	<ul style="list-style-type: none"> <li>Handbook of Local Anesthesia. Stanley F. Malamed. Elsevier. 7th edition. 2020.</li> </ul>
<b>Supportive References</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Electronic Materials</b>	<ul style="list-style-type: none"> <li>LMS</li> <li>Malamed's Local Anesthesia Administration DVD. Stanley F. Malamed, Elsevier. 2nd edition. 2013.</li> </ul>
<b>Other Learning Materials</b>	<ul style="list-style-type: none"> <li>None</li> </ul>