

Course Specification Student Version

Course Title:	Dental Pharmacology-2
Course Code:	PHL 511
Department:	Basic Medical Sciences
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 10/ Year 5
3. Pre-requisites for this course (if any): PHL 311
4. Co-requisites for this course (if any): None

B. Teaching Methods

1	Interactive Lectures
2	Assignments

C. Course Description and Main objective

1. Course Description

This course deals with most important principles of clinical pharmacology and drug therapy in addition to clinical aspects of drugs implicated in dentistry. The course will provide the students a thorough understanding of the classes of drugs commonly used in dental practice. Emphasis will be on the mechanism of action, clinical indications, side effects, and important drug interactions of each drug class.

2. Course Main Objective

The aim of this course is to widen the dental students' knowledge on the pharmacological action and therapeutic application of range of drugs used in the dental practice that would enable them to write an appropriate prescription while considering the patient's general and medical condition. Furthermore, drug therapy principles such as patient compliance, significance of taking drug history, proper writing of prescriptions, and hazards of drug use during pregnancy and lactations are also considered.

2. Course Objectives:

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

1. Identify major classes, therapeutic uses, mechanism of action, side effects, dental implications, and contraindications of commonly prescribed medications in dentistry.
2. Discuss the principles of prescribing drugs during pregnancy and lactation.
3. Describe the essential elements as well as the legislative principles of prescription writing of the commonly used drugs in the dental field, including controlled drugs.
4. Formulate appropriate evidence-based patient's centered management strategies.
5. Recognize the importance of ethical and professional responsibilities in the dentistry profession.

D. Course Content

No.	List of Topics
1	Introduction to the Course
2	Non-steroidal Anti-inflammatory Drugs (NSAIDs)
3	Opioid Analgesics and Antagonists
4	Corticosteroids
5	Antihypertensive Drugs
6	Drugs Affecting Blood
7	General Chemotherapy
8	Antibacterial Drugs-1
9	Antibacterial Drugs-2
10	Antiviral Drugs
11	Antifungal Drugs
12	Drug Use During Pregnancy and Lactation
13	Rational Prescribing & Prescription Writing

E. Assessment tools

#	Assessment task	Percentage of Total Assessment Score
1	Quizzes	10%
2	Assignments	30%
3	Midterm Exam	20%
4	Final Written Exam	40%
	Total	100%

F. Learning Resources

Required Textbooks	1. Essentials of Pharmacology for Dentistry (English, Paperback, Tripathi KD, 4 th Edition)
Essential Reference Material	1. Vanderah T.W. (2024), Katzung's Basic & Clinical Pharmacology, 16e. McGraw Hill. Access Medicine . 2. Whalen K. (2022), Lippincott Illustrated Reviews: Pharmacology, 8e. Wolters Kluwer.
Electronic Material	LMS resources 1. Drug Bank Online 2. Medical Pharmacology 3. Drugs.com