

## Course Specification Student Version

<b>Course Title:</b>	Evidence-Based Dentistry
<b>Course Code:</b>	GDC 411
<b>Department:</b>	Dentistry
<b>Program:</b>	Bachelor of Dentistry
<b>College:</b>	Vision College in Riyadh
<b>Institution:</b>	Vision College in Riyadh
<b>Revised:</b>	July 2025

## A. Course Identification

1. Credit hours: 2 (1+1+0)
2. Level/year at which this course is offered: Level 8/Year 4
3. Pre-requisites for this course (if any): GDC 311, GDC 312
4. Co-requisites for this course (if any): None

## B. Teaching Methods

1	Lecture
2	Practical Session
3	Case-based learning (CBL)

## C. Course Description and Objectives

### 1. Course Description

This course is designed to introduce dental students to the principles and practices of Evidence-Based Dentistry (EBD). It will equip the students with the skills to critically appraise scientific literature, identify high-quality evidence and apply it to clinical decision-making.

### 2. Course Main Objective

The main objectives for this course are to describe the principles of EBD and its importance in clinical practice, to search for and retrieve relevant scientific evidence, and to critically appraise the research studies.

### 3. Course Objectives

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

- Describe the core principles of EBD.
- Identify the resources used to search for the best evidence.
- Explain the methods for critical appraisal of different primary studies and systematic reviews.
- Describe clinical practice guidelines.
- Identify the difference between statistical and clinical difference.
- Enumerate the guidelines that are used to avoid being misled by the studies' results.
- Describe the challenges and solutions for implementing EBD into clinical practice.
- Apply critical appraisal skills to evaluate research studies relevant to dentistry.
- Access and interpret online resources and guidelines related to scientific research.
- Demonstrate respect for the ethical principles of research.
- Demonstrate teamwork collaboration and working effectively with others.

## D. Course Content

No	List of Topics
1	Principles of evidence-based dentistry
2	Searching for the best evidence
3	Appraisal and usage of published scientific articles in dentistry
4	Systematic reviews and meta-analysis
5	Clinical practice guidelines
6	Clinical and statistical differences
7	Misleading data and results
8	Implementation of evidence into practice
9	Practical sessions

## E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Written Exam (Midterm)	20%
2	Written Exam (Quiz)	10%
3	Assignment Evaluation	20%
4	Final Practical Exam (Case-based Exam)	20%
5	Written Exam (Final)	30%
	<b>Total</b>	<b>100%</b>

## F. Learning Resources

<b>Essential References</b>	How to use Evidence-Based Dental Practice to Improve Your Clinical Decision – Making by American Dental Association.
<b>Supportive References</b>	1. Evidence-Based Decision Making: A Translational Guide for Dental Professionals. 1st ed., 2009 2. Selected published articles in dentistry (JADA) and others
<b>Electronic Materials</b>	LMS – MOODLE
<b>Other Learning Materials</b>	None

