

Course Specification Student Version

Course Title:	Applied Research in Dentistry
Course Code:	GDC 613
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: 2 (2+0+0)
2. Level/year at which this course is offered: Level 11/Year 6
3. Pre-requisites for this course (if any): GDC 311, GDC 411
4. Co-requisites for this course (if any): None

B. Teaching Methods

1	Lecture
2	Practical Session
3	Research Project

C. Course Description and Objectives

1. Course Description

This course is designed to improve dental students' knowledge and skill in the field of research in dentistry. The student will be exposed to scientific lectures about research in dentistry. Moreover, the students will be required to be involved in research activity. The activity is designed to apply knowledge gained to formulate a research proposal. This proposal can be used to execute a research project during the dental internship-year. The process of proposal formation will advance the student's skill in the field of research in dentistry.

2. Course Main Objective

By the end of this course, the student will be able to understand the research process and design a high standard research project.

3. Course Objectives

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

- Describe the dental research process.
- Demonstrate comprehensive understanding of research methods and analysis.
- Identify strengths and limitations of various quantitative and qualitative research designs.
- Discuss Ethical principles in conducting scientific research.
- Apply the knowledge to create an effective research proposal.
- Use technology and modern software for conducting effective research, including Google Forms, SPSS, EndNote, ... etc.
- Incorporate ethical principles in every step of research.
- Demonstrate a sense of leadership and teamwork collaboration.

D. Course Content

No	List of Topics
1	Introduction and Orientation
2	Research Steps
3	Research question and idea
4	Literature review
5	Information technology in research writing
6	Research proposal
7	Ethical consideration and institutional review boards
8	Data collection
9	Statistics
10	Study designs
11	Manuscript writing
12	Publication
13	Research Project

E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Research project Evaluation	20%
2	Written Exam (Quiz)	10%
3	Written Exam – Midterm	30%
4	Written Exam – Final	40%
	Total	100%

F. Learning Resources

Essential References	Critical Thinking: Understanding and Evaluating Dental Research, 3rd Edition by Donald Maxwell Brunette
Supportive References	Introduction to Research and Medical Literature for Health Professionals 5th Edition by J. Glenn Forister
Electronic Materials	LMS – MOODLE
Other Learning Materials	None

