

Course Specification Student Version

Course Title:	Preclinical Endodontics II
Course Code:	RDC 422
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 (1+1+0)
2. Level/year at which this course is offered: Level 8/Year 4
3. Pre-requisites for this course (if any): (RDC 421) Preclinical Endodontics -1
4. Co-requisites for this course (if any): None

B. Teaching Methods

1	Lecture
2	Simulation Labs

C. Course Description and Objectives

1. Course Description

This course is considered as a first step in endodontics. Accordingly, a dental student must be prepared to understand morphology of the root canal system and recognize the instruments and materials used during root canal treatment. Practically, demonstrate the steps root canal treatment procedure and are applied on mounted acrylic teeth as laboratory exercises.

2. Course Main Objective

The scope of this course is to provide the dental students with the knowledge and skills that would enable them to perform a proper access cavity preparation and apply different materials in endodontics. By the end of this course, the students should be able to:

- Identify different instruments and materials in endodontics.
- Perform root canal treatment of upper and lower molar teeth as well as perform retreatment of single canal.

3. Course Objectives

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

- Explaining the effect of caries and different restorative procedures on the pulp status.
- Showing the correct methodology for diagnosis for reaching the treatment plan.
- Being familiar with the different pulpal & periapical pathological status.
- Focusing on the aspects of endodontic microbiology, including pathogenetic, taxonomic, morphologic, and ecological issues.

D. Course Content

No	List of Topics
1	Introduction to course
2	Endodontic Radiography
3	Pulpal reaction to caries and dental procedures
4	Pulpal pathosis
5	Periapical pathosis
6	Endodontic microbiology & Immunology
7	Vital Pulp Therapy
8	Longitudinal Tooth Fractures
9	Preparation for Restoration
10	Non-surgical root canal retreatment
11	Bleaching of Discolored Teeth
12	Local Anesthesia in Endodontics
13	Simulation-based laboratory sessions

E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Simulation-Based Assessment	30%
2	Written Exam (Quizzes)	10%
3	Written Exam (Midterm)	10%
4	Case-Based Exam	10%
5	OSPE	10%
6	Written Exam (Final)	30%
	Total	100%

F. Learning Resources

Essential References	<ul style="list-style-type: none"> Endodontic principles and practices. Mahmoud Torabinejad and Richard 5th Walton; 6th Edition, 2020. Pathways of the Pulp. S. Cohen, and K. M. Hargreaves, K. Keiser.; 12th edition, 2020.
Supportive References	-
Electronic Materials	<ul style="list-style-type: none"> https://www.slideshare.net/ Course page on Vision Colleges Website (moodle)
Other Learning Materials	CD available with text books