

***** Dental School Theoretical Course Overview Form*****

Course Title: Pulp and Periapical Complex	Course Code: 211406	Program Level: DDS
Credits and Format: 1 Theoretical Unit	Prerequisite: Oral histology	Offered by: Endodontics Department
Academic Year: 2026 - First Semester	Course Coordinator: Dr. Iranmanesh	Email: pedram.iranmanesh@yahoo.com
Instructors: Dr. Maleki, Dr. Khalesi, Dr. Kargahi, Dr. Iranmanesh, Dr. Havaei, Dr. ZahediNejad, Dr. Enteghad, Dr. Mohammadi		Contact Number: 03137925546 Availability: Tuesday mornings

Main Objective of the Course: By the end of this course, students will gain comprehensive knowledge of pulp tissue in both healthy and diseased states. They will learn to identify the causes and mechanisms of pulp and periradicular diseases, with a focus on the microbiology and immunology of these tissues.

Specific Objectives of the Course:

- 1- Develop an understanding of embryological and histological aspects of pulp and periradicular region.
- 2- Acquire knowledge of histopathological features associated with pulp and periradicular diseases.
- 3- Understand microbiological and immunological principles within the scope of endodontics.
- 4- Familiarize with essential endodontic materials and instruments.
- 5- Receive comprehensive guidance on access cavity preparation for various types of teeth.
- 6- Learn the step-by-step process of root canal preparation.
- 7- Master the detailed procedures involved in root canal filling.

Cognitive Scope: By course completion, students will be able to explain the structure and components of pulp tissue, as well as identify histopathological changes in pulp and periradicular regions.

Emotional Scope: Students will actively engage by asking questions throughout the learning process and contributing to group discussions.

Behavioral Scope: By the end of the course, students will be equipped to classify various types of pulp and periradicular diseases.

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Primary References:

- 1- Torabinejad M. Walton RE. *Endodontics: Principles and Practice. Last Edition*
- 2- Cohen S, Hargreaves KM. *Pathways of the Pulp. Last Edition*

Recommended Additional Reading:

- 1- Neville Oral and Maxillofacial Pathology. Last Edition
- 2- White and Pharoah's Oral Radiology. Last Edition

Evaluations	Date	Points
Unannounced quiz	-	2
Mid-term Exam	December 2025	9
Final exam	January 2025	9

Anticipation of presenting professional ethics topics: N/A

Class Rules and Regulations: In adherence to educational policies regarding student absences and tardiness:

1. Students are permitted a maximum absence limit of four-seventeenths of a credit. Exceeding 3 absences will result in the course grade being recorded as zero.
2. Absences within the allowable limit (up to 3 sessions) will still incur penalties:
 - A half-grade deduction for the first and second absences.
 - A full-grade deduction for the third absence.
3. Any instance of tardiness will be treated as an absence.

Definitions: In accordance with educational guidelines on student absence and tardiness in theoretical classes:

- **Absence:** Any instance of tardiness in a theoretical class is regarded as an absence.
- **Tardiness:** Any delay in attending a theoretical class is treated as an absence.
- **Excused Absence:** An absence officially approved by the Faculty's Vice Chancellor for Education within two weeks of the missed class. To request approval, students must submit their application along with the required documentation. The review results are then communicated to the relevant groups. For medical-related absences, necessary documentation includes a doctor's certificate validated by a university-approved physician. Excused absences within the allowable limit will not result in grade deductions.

Class Representative Responsibilities:

1. Communicate class schedules and locations to students and professors.
2. Notify students and the Vice Chancellor about midterm and final exam dates and venues.

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3. Guide students on organizing and attending virtual classes.

Periapical Pulp Complex Course Presentation Schedule – First Semester

Class Duration: 1 hour **Schedule:** Tuesday, 9:00 AM - 10:00 AM **Venue:** Classroom 4, New Dental Building

#	Date	Title	Instructor	Reference
1	29 Sep 2026	Histopathological Characteristics of Pulpal Diseases	Dr. Maleki	Neville Oral and Maxillofacial Pathology
2	6 Oct 2026	Histopathological Characteristics of Periradicular Disease	Dr. Kargahi	Neville Oral and Maxillofacial Pathology
3	13 Oct 2026	Spread of Endodontic Infections to Adjacent Tissues	Dr. Kargahi	Neville Oral and Maxillofacial Pathology
4	20 Oct 2026	Healing Mechanisms in Pulpal and Periradicular Disease	Dr. Khalesi	Neville Oral and Maxillofacial Pathology
5	27 Oct 2026	Essential Endodontic Instruments	Dr. Zahedinejad	Endodontics: Principles and Practice
6	3 Nov 2026	Access Cavity Preparation for Anterior Teeth	Dr. Mohammadi	Endodontics: Principles and Practice
7	10 Nov 2026	Access Cavity Preparation for Premolars	Dr. Mohammadi	Endodontics: Principles and Practice
8	17 Nov 2026	Access Cavity Preparation for Molars	Dr. Mohammadi	Endodontics: Principles and Practice
Coordination with the Vice Education Officer for mid-term exam				
9	24 Nov 2026	Key Materials in Endodontics	Dr. Zahedinejad	Endodontics: Principles and Practice
10	1 Dec 2026	Canal Cleaning and Shaping: Part 1	Dr. Enteghad	Endodontics: Principles and Practice
11	8 Dec 2026	Canal Cleaning and Shaping: Part 2	Dr. Enteghad	Endodontics: Principles and Practice
12	15 Dec 2026	Techniques for Filling Root Canals	Dr. Zahedinejad	Endodontics: Principles and Practice
13	22 Dec 2026	Microbiology in Endodontics	Dr. Havaei	Endodontics: Principles and Practice
14	29 Dec 2026	Immunological Responses in Endodontic	Dr. Havaei	Endodontics: Principles and Practice
15	5 Jan 2027	History and Terminology in Endodontics	Dr. Iranmanesh	Endodontics: Principles and Practice
Coordination with the Vice Education Officer for final exam				