

UNIVERSITY DIPLOMA IN ENDODONTICS

Main Language of Instruction:

French ☐ English ☒ Arabic ☐

Campus Where the Program Is Offered: CSM

OBJECTIVES

This advanced training program focuses on the diagnosis and treatment of pulpal and periradicular diseases, including:

- Different root canal shaping techniques.
- Different root canal obturation techniques.
- Endodontic microsurgery.

THE UD IN ENDODONTICS AIMS TO:

- Enable participants to calculate apical diameters and taper requirements for different tooth types.
- Select specific NiTi file systems based on canal curvature and metallurgy.
- Deliver information orally in a clear and effective manner.
- Convey information through written documents.
- Analyze facts to form a judgment.
- Apply relevant information according to needs.
- Make decisions based on solid argumentation.
- Assimilate and reproduce new information.

PROGRAM LEARNING OUTCOMES (COMPETENCIES)

- Analyze and interpret data
- Analyze the mechanical properties and metallurgical phases (austenite/martensite) of NiTi instruments.
- Apply relevant information according to needs
- Communicate effectively
- Demonstrate critical thinking
- Establish a reproducible glide path to prevent instrument fracture and canal ledging.
- Implement contemporary shaping protocols using various rotary and reciprocating systems.
- Master information acquisition

ADMISSION REQUIREMENTS

- Doctor of Dental Surgery (Practicing Doctorate)

PROGRAM REQUIREMENTS

17 Credits: Required Courses (17 credits)

Required Courses (17 Cr.)

Clinical Endodontics/Peer Tutoring (DU Endo) (1 Cr.), Pre Clinical Endodontics (DU Endo) (2 Cr.), The Science of Root Canal Therapy (3 Cr.), The Core of EndoScience (1 Cr.), Endodontic Topics Seminars and Clinical Presentations (1 Cr.), Endodontic Literature Analysis (1 Cr.), Advanced Endodontics (3 Cr.), Clinical Surgical Endodontics (DU Endo) (1 Cr.), Pre Clinical Surgical Endodontics (DU Endo) (1 Cr.), Clinical Endodontics (DU Endo) (3 Cr.).

COURSE DESCRIPTION

003ENC1P1	Clinical Endodontics/Peer Tutoring (DU Endo)	1 Cr.
The endodontic clinical tutoring course is a specialized clinical component of the Professional Training program at the Faculty of Dental Medicine (FMD). It is designed to facilitate the transition from theoretical knowledge to high-level clinical application.		
003PCL1P1	Pre Clinical Endodontics (DU Endo)	2 Cr.
This preclinical simulation course is designed to bridge the gap between theoretical knowledge and clinical practice in endodontics. Held in the FANT (Simulation) Lab, students will master the use of advanced magnification, 3D imaging interpretation, and contemporary mechanical instrumentation. The course focuses on high-precision techniques, including ultrasonic refining of access cavities and modern rotary NiTi preparation.		
003CAN1P1	The Science of Root Canal Therapy	3 Cr.
This course focuses on the technical and materials science aspects of root canal therapy. It bridges the gap between biological diagnosis and clinical execution by providing in-depth knowledge of endodontic metallurgy, precise canal scouting (glide path), and modern mechanical shaping concepts. Students will gain a sophisticated understanding of how instrument design and metal heat treatments influence clinical safety and efficiency.		
003BAE1P1	The Core of EndoScience	1 Cr.
This theoretical course establishes the scientific foundation of the UD in Endodontics. It covers the essential biological and diagnostic principles required to understand why and how endodontic therapy is performed. Students will explore the complexities of root canal anatomy, master the diagnosis of pulpal and periradicular diseases, and learn to integrate advanced 3D imaging and ultrasonic technologies into modern practice.		
003SEM1P1	Endodontic Topics Seminars and Clinical Presentations	1 Cr.
This course is dedicated to deepening theoretical and clinical knowledge through thematic seminars and the rigorous analysis of treated cases. It aims to develop students' critical thinking and their ability to justify therapeutic choices based on current scientific evidence (evidence-based dentistry).		
003AEN2P2	Endodontic Literature Analysis	1 Cr.
This course is dedicated to deepening theoretical and clinical knowledge through thematic seminars and the rigorous analysis of treated cases. It aims to develop students' critical thinking and their ability to justify therapeutic choices based on current scientific evidence (evidence-based dentistry).		
003AVA2P2	Advanced Endodontics	3 Cr.
The Advanced Endodontics course is designed to provide students with in-depth theoretical and practical knowledge in the field of advanced endodontics. It focuses on complex clinical scenarios, modern instrumentation techniques, and advanced biological approaches to root canal therapy.		
003CHE2P2	Clinical Surgical Endodontics (DU Endo)	1 Cr.
This course focuses on the clinical application of surgical endodontics. It covers the indications, protocols, and technical execution of periradicular surgery, enabling specialized practitioners to manage cases where non-surgical treatment has failed or is impossible.		
003PCL2P2	Pre Clinical Surgical Endodontics (DU Endo)	1 Cr.
This preclinical simulation course is designed to bridge the gap between theoretical knowledge and clinical practice in endodontics. Held in the FANT (Simulation) Lab, students will master the use of advanced magnification, 3D imaging interpretation, and contemporary mechanical instrumentation. The course focuses on high-precision techniques, including ultrasonic refining of access cavities and modern rotary NiTi preparation.		