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VALUES
FORWARD.

COURSE 2023-2024

European Master's Degree in Endodontics





Universitat
Internacional
de Catalunya
Faculty of dentistry

uic.es/dentistry

European Master's Degree in Endodontics 2023-2026

Introduction

Endodontics is a clinical discipline that encompasses teaching microbiology, biology, biomaterials, tissue engineering, epidemiology and clinical techniques to cure or prevent pulpal and pulpoperiapical diseases. The European endodontics programme is designed to train professional dentists and stomatologists in the field of endodontics. The programme prepares participants to run clinical practices, teach or undertake research in endodontics.

The course consists of a theoretical module that addresses topics in clinical endodontics, seminars on classical and contemporary literature review and analysis and the relationship between endodontics and other specialised areas of dentistry, and the study of endodontics clinical cases that involve other areas of specialisation. The programme also addresses more complicated clinical cases such as non-surgical root canal retreatments, endodontic microsurgery, intentional replantation and the reconstruction of endodontically-treated teeth.

Organising Department

Department of Endodontology
Faculty of Dentistry

Chairman

Dr Fernando Durán-Sindreu

Programme Director

Dr Francesc Abella

Coordinator

Dr Marc García

Academic Board

Dr Francesc Abella, Dr Carla Bóveda, Dr Pablo Bragado, Dr Carlota de España, Dr Susana de Noé, Dr Fernando Durán-Sindreu, Dr Guillermo Doria, Dr Marc Encinas, Dr Marc García, Dr Ana Bárbara Giordano, Dr Adriana Gómez-Rojas, Dr Gonzalo Gómez, Dr José Antonio González, Dr Sergio Irazusta, Dr Patricia Labraca, Dr Mª Jesús López, Dr Karem Marfisi, Dr Carolina Mor, Dr Sergio Morelló, Dr Maria Moreu, Dr Gonzalo Olivieri, Dr. Carles Pressegué, Dr Anaïs Ramírez, Dr Andrea Natalia Ricco, Dr Gustavo Rodríguez, Dr Xavier Ruiz, Dr Victoria San Román, Dr Jordi Tomás, Dr Héctor Vilà, Dr Violeta Visús, Dr João Nuno Campante Moreira Prina, Dr. Lola Vázquez De Sola.

Academic board cross-disciplinary subjects

Dr Angela Mayoral, Dr Josep M.ª Huguet, Dr Rut Fadó, Dr Angela Donate, Dr Andrés Pascual, Dr Javier Mareque, Dr Lissethe Peñate, Dr Guillermo Rocafort, Dr Héctor Parellada, Dr Mariana Ponte, Dr Antoni Parada, Dr Víctor Gil, Dr Ana Poveda, Dr Adrian González, Dr Jordi Mas, Dr Adaia Valls.

Objectives

The programme's main objective is to prepare professionals with the highest qualifications to diagnose problems of pulpoperiapical origin in addition to finding and implementing the best solution to solve them.

Students will also learn:

1. To critically analyse the literature, enabling them, once the programme is over, to adapt to changes that specialisation in endodontics will undoubtedly experience.

2. To teach endodontics in terms of aetiology, pathogenesis, epidemiology and treatment of pulpoperiapical diseases.

3. To work together with other areas of dentistry.

4. To undertake research (guided by a teacher).

Course programme

Theoretical Programme

We will analyse and critically discuss the traditional and modern literature through seminars on the following topics:

- Dental pulp biology
- Pulpoperiapical pathology
- Dental pulp regeneration
- Endo-perio lesions
- Resorption
- Pain management
- Vital pulp therapy
- Relationship between pulpal and systemic diseases
- Non-odontogenic pain
- Perforations
- Instrumentation
- Root anatomy
- Anatomy of the head
- Microbiology
- Root canal irrigation
- Intracanal medication
- Dental traumatology
- Endodontic microsurgery
- Reconstruction of endodontically treated teeth
- Management of teeth with open apex
- Working length
- Prognosis
- Diagnosis
- Immunology
- Obturation
- Non-surgical root canal retreatment
- Management of complications in endodontics
- Dental radiology
- Pharmacology

Practical Programme

Laboratory Programme

Students must perform 100 root canals *ex vivo* in the first trimester, before attending to patients.

Clinical Practice

Students must perform 250 treatments throughout the three-year programme, with a minimum of 50 non-surgical root canal retreatments, 15 microapical surgeries and 2 intentional reimplantations.

Courses and conferences

Students must attend and present a paper at two national conferences (AEDE or SEOC) and at an international congress (ESE, AAE or IFEA).

Methodology and evaluation

• Continuous evaluation of the practical and theoretical modules, scientific papers and research projects.

• In order to graduate, students must have passed all theoretical exams. At the end of the programme, all students must present and defend five clinical cases.

Material*

*Provisional list. The final list will be provided to the students before the start of the classes.

Students must own the following:

- Electronic root apex locator. It can be individual (for example Propex Pixi, Dentpsly) or integrated into an endodontic micromotor.
- Electric endodontic micromotor with torque control. Must have the option to be used in continuous rotation and reciprocation motion.
- Rotary material: turbine, micromotor, adaptor (*) and contra angle
- Reflex Camara + Macro Lens 90mm – 100mm + Macro flash anular. The camera must have the option to record video.
- Laptop (minimum requirements for network connection 10/100)
- Dental periapical radiovisiography (Kodak 6000 or similar)
- Obturation unit
- Intraoral mirrors
- X-ray positioning devices
- Ultrasonic tips for endodontics
- To access the CUO every student will be expected to wear aprotective face screen and use total protection goggles, except if they are wearing prescription glasses or magnifying loupes, in which case the total protection glasses will not be necessary.

(*) Brand and type of adaptor must be previously confirmed.

Admissions process

Personal interview: The personal interview will be carried out with the Master's Coordinator and Director. Academic merits will be valued, as will the ability to work in a team and professional experience.

Facilities

UIC Barcelona believes that clinical practice on patients is crucial for training high-level professionals. The differentiation of our programs is marked by practice on patients.

The University Dental Clinic has 88 dental boxes, all of them equipped with state-of-the-art dental technology:88 generalist booths, including 4 booths used for special patient care and 16 booths for surgeries and for conscious sedation.

The University Dental Clinic made approximately 82.000 visits in the last year.

The Clinic has two prosthetic dental laboratories, with the most up-to-date CAD/CAM units that allow students to apply the latest techniques in all areas of dentistry.

The equipment that this laboratory includes are:

- 4 milling machines: Lyra, Cerec, Roland and VHF K5
- 11 intraoral scanners (2 Carestream and 2 Trio Move), 1 Cerec yielded by Henry Schein, 1 3M yielded by 3M, 1 Trios 3Shape yielded by ETK Implants Iberia, 1 Trios 3Shape by Straumann, 1 Primescan by Dentsply, 1 Medit by Klockner and 1 Itero by Align.
- 1 3D printer
- 6 exocad design programs, 1 of 3shape and 2 of Cerec.

We have created **6 new laboratories**, one of them focused on dental research.
1 pre-clinical laboratory with **95 training simulators** and **digital radiology.** This facility allows students to train with augmented reality techniques before treating patients. With this step, virtual reality is introduced into the preclinical practices of students, helping to improve their training and it is also a great tool as a new teaching methodology. It is one more step in the innovation and improvement of the training of students. We also have a scanner and digital printer in the same laboratory.

UIC Barcelona also has 1 dental research laboratory.
2 diagnostic imaging rooms for taking panoramic dental X-rays and latero-lateral and posterior-anterior teleradiographies, periapical radiographs and CBCT scans.

Digital technology and implant-prosthetic planning programs allow students to train and work from the beginning with the latest technologies.

- Possibility of broadcasting dental interventions live.
- Smart storage room for delivery and collection of material.
- Sterilization unit for medical materials and instruments.

All resources are up-to-date and the university has agreements with different industries in the sector, thus strengthening ties between industry, universities and RDI.

The technology available to our students brings them closer to the reality of the day to day and prepares the student in all theoretical and practical aspects to be able to work in the clinic with maximum safety and professionalism.

We also have dentistry management software to keep track of students' and patients' progress.
We have 6 endodontic microscopes (Zeiss and Zumax)

Places in classrooms
2,355 places in the classrooms
88 places in the Clinic (dentistry booths)
192 places in gyms
120 places in IT classrooms
420 places in laboratories
415 m2 of laboratory facilities dedicated to research

Places in study rooms
361 seminars, multifunctional rooms and a Library study room.

Places in Libraries
The Library on our Sant Cugat campus measures 1,201.53 metres squared.
402 places for reading across the Library and three study rooms.

Basic information

Calendar

September 2023 to July 2026

Timetable

First year:

Mondays	8 a.m. – 1.30 p.m.
Tuesdays	8 a.m. - 6 p.m.
Wednesdays	8 a.m. – 1.30 p.m.
Thursdays	8 a.m. - 2 p.m. (1st semester) 8 a.m – 6 p.m (2nd semester)
Fridays	8 a.m. – 2 p.m. (1st semester) 8 a.m – 11 a.m. (2nd semester)

Second year:

Mondays	8 a.m. - 2 p.m.
Tuesdays	2 p.m. - 8 p.m.
Wednesdays	8 a.m. - 2 p.m.
Thursdays	8 a.m. - 2 p.m.
Fridays	9 a.m. - 5 p.m.

Third year:

Mondays	10 a.m. - 2 p.m.
Tuesdays	8 a.m. - 2 p.m.
Wednesdays	8 a.m. - 2 p.m.
Thursdays	8 a.m. - 6 p.m.
Fridays	3 p.m – 7 p.m

Pre-registration date

From January 2023

Fees

First year:
€20.770*

Second year:
€19.740*

Third year:
€13.988*

*Annual registration fees are included (€480/year). The annual registration fees have not yet been approved by the University's Board of Governors.
The price for second and third year (2024-2025 and 2025-2026) has not yet been approved by the University's Board of Governors and is subject to an index-linked increase.

Places available
The seats available are limited.

Accreditation
180 ECTS, European Master's Degree in Endodontics.

Documentation required for pre-registration

- A filled-in pre-registration form
- 1 attested copy of the corresponding degree qualification (with an original stamp)*
- 1 Academic Certificate of qualifications (original or attested photocopy)*
- A photocopy of your national ID card (DNI) or passport.
- Payment of €90** and payment receipt sent by mail (Except for former UIC Barcelona degree students).
- Copy of CV listing courses and conferences attended.
- Letters of recommendation (recommended, not compulsory)

*For students from outside the European Union, both their qualifications and their degree qualification must be attested via the diplomatic route or carry a Hague Apostille stamp. (The degree qualification does not need to have been officially homologated).
*Candidates who are in the last year of their degree programme must provide a list of the qualifications they have obtained up until the date they register.
**Not reimbursable for administration fees.

Send to:
Paola Lago
Marta Utset
infodonto@uic.es

Faculty of Dentistry
Universitat Internacional de Catalunya
Hospital General Building
C/ Josep Trueta, s/n
08195 Sant Cugat del Vallès (Barcelona)