

## Master's Degree in Endodontics online

### Master's Degree in Endodontics Online 2022-2024

#### Introduction

Preserving teeth is the basis of dentistry. Currently endodontics is one of the specialisations within dental practice that is experiencing increased demand due to the lack of specialised professionals who can manage the high level of difficulty it involves. Knowledge of radicular anatomy and dental pulp states is a challenge to a general dentist. It is important for odontologists to acquire the knowledge and skills that are necessary to tackle endodontic treatment and retreatments independently of the difficulties that these may involve.

The proposal to offer an online Master's degree in Endodontics is due to the high demand in endodontics within the dentistry sector. This master's degree is set out as a top level programme within the university system, although without achieving the highest level of qualification offered by the European Master's Degree in Endodontics. Due to the current economic situation many students who opt for part-time study find areas lacking in module-based or short programmes, since they believe that they will not provide enough work placements or fall short in terms of literature reviews and research methods. Master's Degree in Endodontics Online students will be odontologists who want to increase their knowledge in endodontics, with an education based on evidence, combining clinical placements with scientific knowledge, but who are unable to take a full-time or semi-exclusive three-year master's degree.

#### Organising Department

##### Area director

Dr Fernando Duran-Sindreu

##### Programme director

Dr Anais Ramírez

##### Coordinator

Dr Karem Marfisi

#### Teaching staff

Dr. Francesc Abella, Dr. Luís Miguel Da Silva, Dr. Susana de Noé, Dr. Guillermo Doria, Dr. Fernando Durán-Sindreu, Dr. Ivan Garrido, Dr. Corneliu Gherasim, Dr. Adriana Gómez-Rojas, Dr. Gonzalo Gómez, Dr. Sergio Irazusta, Dr. Sergio Lopes Quaresma, Dr. Karem Marfisi, Dr. Sergio Morelló, Dr. Saddy Moscoso, Dr. Alejandro Núñez, Dr. Javier Pascual, Dr. Rui Pereira Da Costa, Dr. Artur Filipe Pereira, Dr. Kenneth Pineda, Dr. Anais Ramírez, Dr. Gustavo Rodríguez, Dr. Xavier Ruíz, Dr. Ahmed Seyam, Dr. Gracia Tena, Dr. Jordi Tomás, Dr. Violeta Visús,

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### Objectives

This master's degree will provide:

- Training as an expert in the field of endodontics.
- Knowledge of new materials and technologies related to endodontics.

Once students have completed this master's degree, they will be qualified to clinically tackle cases of endodontics or reendodontics in order to understand and value scientific articles on endodontics and be able to undertake a bibliographical review.

It is for that reason that the objectives of this master's degree are:

- To diagnose the problems that concern the periapical pulp complex.
- To acquire the clinical and cognitive abilities to tackle endodontic problems.
- To be able to make decisions when faced with endodontic failure.
- To be able to undertake endodontics and reendodontics.
- To be familiar with apical surgery and intentional reimplantation.
- To be able to deal with orthograde retreatments.
- To understand scientific articles related to endodontics.
- To design a research project.
- To relate endodontics to other areas of dentistry.

### Course Programme

The programme will be implemented based on a series of teaching activities, which we have grouped into the following types:

- Online theoretical learning based on masterclasses
- Preparation of topics based on guided reading of the selected literature
- Preclinical practicums based on tutorials and undertaken at UIC Barcelona
- Clinical practicums at UIC Barcelona

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### Theoretical part

The theoretical concepts of the subject will be transmitted through masterclasses and guided reading. Seminars will be carried out (discussion on the topics read and prepared at home by both professors and students) to help students interpret the available data. In the discussion of cases, these will be presented by students or professors and there will be a discussion of this based on scientific literature.

#### 1 - Basic endodontics

- Pulpoperiapical pathology
- Endodontic diagnosis
- Endo-perio lesions
- Vertical fractures
- Reabsorbtions
- Dental traumatology

#### 2- Making decisions in endodontics

- Endodontics prognosis.
- Reendodontics prognosis.
- Apical surgery prognosis and intentional reimplant
- Endo versus implants.
- Endodontics treatment plan.

#### 3- Clinical concept in endodontics

- Pulp chambers
- Determination of the length of the project
- Tools in endodontics
- Disinfection in endodontics
- Obturation
- Endodontic emergencies
- Anaesthetics in endodontics
- Vital pulp therapy

#### 4 - Advanced Endodontics

- Managing endodontic problems
- Reendodontics
- Perforations
- Open apice management
- Periapical surgery and intentional reeimplant
- Autotransplantation
- Reconstructing a tooth after root canal treatment

#### 5- Treatment Planning: Discussion of practical cases

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### **Practical part**

#### 1 Clinical techniques

Undertaking in vitro practicums. Students will be provided with guidelines to undertake preclinical practicums, and through tutorials students should undertake the exercises they have been given. Students will take photographs at specific moments, which must be sent to be evaluated by the lecturers and professors. Practicums in laboratories will also be carried out in the inpatient clinic in the university (4 weeks during each academic year).

#### 2- Endodontics Clinic

Practicums undertaken at the UIC Barcelona University Dental Clinic (CUO) with patients under the guidance of professors and lecturers from the Department of Endodontics.

For a total of 8 weeks the students will combine practice on patients under an optical microscope. Different treatments will be programmed to be able to face it in daily practice.

### **Final Master's Degree Project**

Students can opt to present a well-documented research project with current supporting literature, or undertake a literature review, always under the supervision of their tutor.

### **Courses and conferences**

Students must attend at least one scientific conference in the field of endodontics (ESE, AEDE or SEOC).

### **Methodology and evaluation**

Students will be evaluated for the different modules and materials, taking the following into account:

- Written tests (exams).
- Acquisition of knowledge of clinical, technological and surgical skills through continuous assessment.
- Defence of your final Master's Degree Project and the presentation of cases before a jury.

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### Material\*

\*provisional list. The final list will be provided to students before the start of the programme.

Material which the student must supply:

- Laptop (minimum requirements for network connection 10/100).
- Reflex Camera + Macro Lens 90mm – 100mm + Macro flash anular. The camera must have the option to record video.
- Rotary material: turbine, micromotor, adaptor and contra angle.
- Electric endodontic micromotor with torque control. Must have the option to be used in continuous rotation and reciprocation motion.
- Dental periapical radiovisiography
- Elements obturation unit or similar.
- To access the CUO every student will be expected to wear a protective 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.

### Admissions process

Students must hold a qualification that equips them to exercise dentistry-oral surgery in their country or origin or residence.

Interview with the programme director or coordinator via Skype where they will evaluate the students' academic and personal skills, as well as their ability to work in a team.

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### 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.

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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.

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### Basic Information

#### Calendar

September 2022 to July 2024

#### Online part

Weekly seminars on Mondays and Tuesdays from 9-11 p.m.

The student will organise clinical sessions with their tutor (these are currently being undertaken on the *Teams* platform) to talk about clinical cases and research work.

Students must complete the weekly programmed laboratory time during the times that suit them best.

#### On-site part

Students will attend four intense weeks per academic year at the university.

From 9 to 21 January (2 weeks)

From 10 to 20 July (2 weeks)

#### Pre-registration date

From January 2022

#### Price

##### First year:

19.320 €\*

##### Second year

18.904 €\*

*\*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 the second year (2023-2024) has not yet been approved by the University's Board of Governors and is subject to index-linked increases in relation to the CPI.*

#### Number of places

Participation in this programme is limited.

#### Certification

120 ECTS Master's Degree in Endodontics

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### 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  
[infodonto@uic.es](mailto:infodonto@uic.es)

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