

## Master's Degree in Periodontology



### Master's Degree in Periodontology 2022-2025

#### Introduction

The Master's in Periodontology is a full-time 3-year postgraduate programme accredited by the European Federation of Periodontology (EFP), designed to train dentists in the specialised fields of periodontology and implantology. This programme prepares students to supervise clinical treatments, as well as how to teach and carry out research in surgical and periodontal implant dentistry. The course includes a theoretical module that covers clinical subjects related to periodontics, seminars that review and analyse contemporary and classic literature, courses on surgical and periodontal implantology, the relationship between periodontics and other specialised areas of dentistry, a study of clinical cases in periodontics, and clinical cases related to other areas of dental specialisation. During the practical part of this course students will receive training in all types of periodontal treatment and will carry out an individual research project in the area of periodontics and implantology.

#### Department responsible

Department of Periodontology  
Faculty of Dentistry

#### Course director

Dr José Nart

#### Programme director

Dr José Nart  
Dr Andrés Pascual

#### Coordinator

Dr Cristina Vallès

## Master's Degree in Periodontology

### Academic Board

Dr Desiré Abellan, Dr Matteo Albertini, Dr Mariana Baglivo, Dr Lucía Barallat, Dr Núria Bertos, Dr Gonzalo Blasi, Dr Manuel Cabezas, Dr Miguel Carreño, Dr Neus Carrió, Dr Beatriz de Tapia, Dr Pedro Diz, Dr Eduard Dominguez, Dr Inés Doria, Dr Cristina Esquinas, Dr José Espona, Dr Xavier Esteban, Dr Marta Galofré, Dr Berta García, Dr Raquel García, Dr Ricardo Garcia, Dr Pilar Golmayo, Dr Rodrigo González, Dr Santiago Jané, Dr Daniel Jiménez, Dr Ada Lapedra, Dr Paul Levi, Dr Cristina Llena, Dr Mireia Martí, Dr Josep Martínez, Dr Jaume Mestres, Dr Alberto Monje, Dr Carolina Mor, Dr Javier Mora, Dr Marta Muñoz, Dr José Nart, Dr Diana Palao, Dr Blanca Paniagua, Dr Andres Pascual, Dr Marta Peña, Dr Ramón Pons, Dr Vanessa Ruiz, Dr Juan Rumeu, Dr Antonio Santos, Dr Marzia Savoini, Dr Joan Takamoli, Dr Camilo Torres, Dr Cristina Vallés, Dr Javier Vilarrassa.

### Academic Board Cross-Disciplinary Subjects

Dr Ángela Donate, Dr Rut Fadó, Dr Natalia Felipe, Dr Víctor Gil, Dr Adrian González, Dr Josep Maria Huguet, Dr Javier Mareque, Dr Jordi Mas, Dr Maria Ángela Mayoral, Dr Antoni Parada, Dr Héctor Parellada, Dr Lissethe Peñate, Dr Mariana Ponte, Dr Ana Poveda, Dr Guillermo Rocafort.

### Guest lecturers

Dr Paul Levi Jr., Dr Francesco Amato

### Objectives

The advanced training course in periodontology is designed to train dental professionals to be specialists in the field of periodontics and implantology. This programme will prepare these professionals for clinical practice, academic teaching, and research in periodontics.

The programme consists of a theoretical programme that covers the clinical aspects of periodontics and includes seminars to review and analyse current and classic literature on periodontics, joint seminars on prosthodontics and periodontics, seminars on the interrelationship between periodontics and other dental specialities, presentations on clinical cases in periodontics, and joint clinical cases alongside other dental specialities. The practical side of the course includes treating all kinds of patients with periodontal diseases, from basic treatments to periodontal and mucogingival surgery and implantology. Students will also be required to conduct a periodontal research project focusing on clinical issues and/or laboratory aspects, over the course of the three year programme.

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### Programme

#### Theory

Over the duration of the course, we will analyse and discuss classical and modern literature on the following topics, taking a critical approach:

#### First year

##### Theory

##### **General aspects related to basic science**

- Head and neck anatomy
- Clinical pharmacology
- Microbiology
- Molecular and cellular biology

##### **Basic principles of clinical periodontology**

- Anatomy
- Epidemiology
- Microbiology
- Host-parasite interactions
- Occlusal trauma
- Periodontal pathology
- Clinical examination
- Disease classification
- Initial periodontal therapy
- Antibiotics in periodontal therapy
- Supportive periodontal therapy
- Osseointegration of dental implants
- Peri-implant infections

##### **Basic principles of periodontal surgery**

- Periodontal surgery: access-flap surgery
- Treating teeth with furcation defects
- Pre-prosthetic periodontal surgery
- Principles of regenerative periodontal therapy
- Principles of mucogingival therapy

##### **Principles of research methodology in periodontology**

- Biostatistics
- Research methodology
- Bibliographic research
- Science communication
- Developing a research protocol

## **Master's Degree in Periodontology**

### **Concepts and seminars on interdisciplinary periodontal treatment**

- Periodontics and orthodontics
- Periodontics and prosthodontics
- Periodontics and endodontics
- Periodontics and oral pathology

### **Review of classic periodontal literature**

#### **General aspects of oral medicine and pathology**

- Oral soft tissue injuries
- Systemic diseases, oral pathologies and their symptoms
- Effects of medication on the oral mucosa
- Allergic reactions
- Infectious diseases, especially viral and fungal diseases
- Premalignant and malignant lesions

### **Practical and preclinical programme**

#### **Practical seminar on periodontal examinations and intraoral photography**

#### **Practical seminar on initial periodontal therapy (scaling and root planing)**

#### **Clinical practice in periodontology**

- Examining and treating patients with periodontal diseases
- Radiographic examination of patients with periodontal diseases
- Treatment plan and treatment of patients with periodontal diseases
- Treatment plan and treatment of cases involving periodontics and orthodontics
- Treatment plan and treatment of cases involving periodontics and prosthodontics
- Treatment plan and treatment of cases involving periodontics and endodontics
- Supportive periodontal therapy

#### **Practical seminar on periodontal surgery and suture techniques**

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### Second year

#### Theory

##### **Advanced clinical periodontics**

###### *Regenerative periodontal therapy*

- Classification and diagnosis
- Clinical indications
- Surgical techniques
- Barrier materials
- Grafting materials
- Bibliographic evidence

###### *Mucogingival therapy*

- Classification and diagnosis
- Clinical indications
- Surgical techniques
- Bone grafts and substitutes
- Bibliographic evidence

###### *Tissue regeneration*

- Classification and diagnosis
- Clinical indications
- Surgical techniques
- Barrier materials
- Grafting materials
- Bibliographic evidence

##### **Basic implantology**

Examining patients who are candidates for implant therapy

- X-ray examination of implant patients
- Examining patients with implant-supported restorations
- Risk assessment for patients with implants
- Planning implant placement
- Dental implant macrodesigns and microdesigns

##### **Research methodology in periodontology**

- Data analysis
- Developing a research protocol

##### **Seminars on interdisciplinary periodontal treatments**

- Periodontics and orthodontics
- Periodontics and prosthodontics

##### **Review of current periodontal literature**

##### **Review of classic literature on implants**

##### **Oral medicine and pathology**

- Clinical case seminars

##### **Practical and preclinical programme**

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### **Clinical practice in periodontology**

- Examining and treating patients with incipient and advanced periodontal diseases
- Radiographic examination of patients with incipient and advanced periodontal diseases
- Treatment plan and treatment of patients with incipient and advanced periodontal diseases
- Treatment of mucogingival conditions
- Regenerative periodontal treatment and procedures (tooth and bone)
- Treatment plan and treatment of advanced cases involving periodontics and orthodontics
- Treatment plan and treatment of advanced cases involving periodontics and prosthodontics
- Treatment plan and treatment of advanced cases involving periodontics and endodontics
- Examination and installation of dental implants
- Examination and treatment of peri-implant diseases
- Supportive periodontal therapy and implant therapy

### **Practical seminar on mucogingival surgery and suture techniques**

### **Practical seminar on regenerative periodontal surgery and suture techniques**

### **Practical seminar on surgical implant placement**

### **Clinical instruction**

Clinical orientation and instruction with university students at the University Dental Clinic.

## **Third year**

### **Theory**

#### **Dental management and marketing**

Basic information on how to run and manage a dental clinic specialising in periodontology.

- Oral implantology
- Ridge reconstruction procedures
- Regenerating peri-implant defects
- Maxillary sinus elevation
- Implants in the cosmetic zone
- Implant complications
- Treatment of peri-implant lesions

#### **Research methodology in periodontology**

- Final data analysis
- Presentation of student research projects

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### **Seminars on interdisciplinary periodontal treatments**

Periodontics and implantology  
Periodontics and orthodontics  
Periodontics and prosthodontics

### **Oral implantology and prosthetics**

Current concepts in implant prosthetics

### **Review of current literature on implants**

### **Oral medicine and pathology**

Clinical case seminars

### **Practical and preclinical programme**

#### **Practical seminar on initial implant placement**

#### **Clinical practice in periodontology**

Examining and treating patients with incipient and advanced periodontal diseases  
Radiographic examination of patients with incipient and advanced periodontal diseases  
Treatment plan and treatment of patients with incipient and advanced periodontal diseases  
Treatment of mucogingival conditions  
Regenerative periodontal treatment and procedures (tooth and bone)  
Treatment plan and treatment of advanced cases involving periodontics and orthodontics  
Treatment plan and treatment of advanced cases involving periodontics and prosthodontics  
Treatment plan and treatment of advanced cases involving periodontics and endodontics  
Examination and installation of dental implants  
Sinus floor elevation  
Examination and treatment of peri-implant diseases  
Supportive periodontal therapy and implant therapy

#### **Practical seminar on sinus floor elevation techniques**

#### **Clinical instruction**

Clinical orientation and instruction with university students at the University Dental Clinic.

## Master's Degree in Periodontology

### Courses and conferences

SEPA annual conference and research meetings

EFP Conferences

Evening continuous training sessions on periodontics and implantology run by the COEC

ITI Study Club meetings

EAO conferences and osteology conferences

### Methodology and evaluation

- Practical and theoretical modules, science communication and research projects will be evaluated every quarter or semester.
- In order to graduate, students must have passed all the exams for the theory subjects, must have completed at least 50 clinical cases, and must have performed a minimum of 100 periodontal surgical procedures and 40 implants. At the end of the course, all students must present and defend five clinical cases, including at least two involving implants, in addition to their research project.

### Materials\*

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

In order to study this Master's course, students must bring the following equipment:

- A digital reflex camera with 105 mm focal length and ring flash.
- Laptop or computer access (USB, etc.).
- Surgical instruments (as recommended by the department)
- Professional magnifying lenses (minimum: 2.5X)
- Rotary instruments: dental turbine, adapter (\*), contra-angle, handpiece and micromotor.
- Surgical box
- Phosphor imaging plates for X-rays
- 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.

\*The model and compatibility of the adapter is pending confirmation.

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### Admissions process

- **Personal interview:** A personal interview will be held with the programme coordinator and course director. They will assess the academic merit and class rank of each candidate, as well as the ability to work in a team.
- **TOEFL  $\geq 85$**  or Cambridge Certificate of Advanced English  $\geq 176$ .
- At least one year of work experience after obtaining the Degree in Dentistry.
- Training in research and statistics will be viewed positively.
- Entrance exam based on chapters 1 to 8 (pages 1-516) of the book *Clinical Periodontology and Implant Dentistry* by Lang and Lindhe.

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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 2025

#### Timetable

##### First year:

Monday: 8 a.m. - 2 p.m.  
Tuesday: 8 a.m. - 2 p.m.  
Wednesday: 8 a.m. to 8 p.m.  
Thursday: 10 a.m. - 2 p.m.  
Friday: 8 a.m. - 2 p.m.

##### Second year:

Monday: 8 a.m. - 8 p.m.  
Tuesday: 8 a.m. - 8 p.m.  
Wednesday: 8 a.m. to 8 p.m.  
Thursday: 8 a.m. - 8 p.m.  
Friday: 8 a.m. - 2 p.m.

##### Third year:

Monday: 8 a.m. - 8 p.m.  
Tuesday: 8 a.m. - 8 p.m.  
Wednesday: 8 a.m. to 5 p.m.  
Thursday: 8 a.m. - 8 p.m.  
Friday: 8 a.m. - 4 p.m.

#### Pre-enrolment

Open from January 2022

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### Tuition fees

**First year:**  
€ 26.010 €\*

**Second year:**  
€ 25.200 €\*

**Third year:**  
€ 21.298 €\*

*\*Includes annual enrolment fees (€480 per year). The University Board of Governors has not yet approved the annual enrolment fee.*

*The price for the second and third year (2023-2024 and 2024-2025) is pending confirmation from the UIC Board of Governors, and may be subject to increases in relation to the CPI.*

### Places available

The seats available are limited

### Accreditation

Master's Degree in Periodontology: 180 ECTS

Certification from the European Board of Periodontology (students who pass the exam)

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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:

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