

Master's Degree in Periodontology

Master's Degree in Periodontology 2021-2024



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

Chairman

Dr José Nart

Programme director

Dr José Nart

Dr Andrés Pascual

Coordinator

Dr Cristina Vallès

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Academic Board

Dr Desiré Abellan, Dr Matteo Albertini, Dr Francesco Amato, Dr Mariana Baglivo, Dr Lucía Barallat, Dr Núria Bertos, Dr Gonzalo Blasi, Dr Manuel Cabezas, Dr Neus Carrió, Dr Beatriz de Tapia, Dr Pedro Diz, Dr Inés Doria, Dr Cristina Esquinas, Dr José Espona, Dr Francisco Esteban, Dr Rut Fadó, Dr Marta Galofré, Dr Berta García, Dr Raquel García, Dr Iñigo Gastaminza, Dr Víctor Gil, Dr Pilar Golmayo, Dr Adrian González, Dr Rodrigo González, Dr Josep Maria Huguet, Dr Daniel Jiménez, Dr Paul Levi, Dr Javier Mareque, Dr Mireia Martí, Dr Jordi Mas, Dr Maria Ángela Mayoral, Dr Kyrenia Medina, Dr Jaume Mestres, Dr Alberto Monje, Dr Carolina Mor, Dr Javier Mora, Dr Marta Muñoz, Dr José Nart, Dr Noelia Navarro, Dr Diana Palao, Dr Blanca Paniagua, Dr Antoni Parada, Dr Héctor Parellada, Dr Andres Pascual, Dr Marta Peña, Dr Lissethe Peñate, Dr Vicente Platón, Dr Ramón Pons, Dr Rosario Puglisi, Dr Angels Pujol, Dr Guillermo Rocafort, Dr Rosalía Rodríguez, Dr Ernest Rojo, Dr Vanessa Ruiz, Dr Juan Rumeu, Dr Antonio Santos, Dr Marzia Savoini, Dr Giorgio Stropa, Dr Jian Takamoli, Dr Núria Vallcorba, Dr Cristina Vallés, Dr Adaia Valls, Dr Javier Vilarrassa.

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 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 programme, 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

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Principles of research methodology in periodontology

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

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

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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

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.

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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

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)

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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.

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.

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Materials

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.

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 ≥ 85** or Cambridge Certificate of Advanced English ≥ 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.

Last academic year, the Clinic received around 82,000 visits.

The UIC Barcelona University Dental Clinic has 88 dentistry booths, all of which are equipped with cutting-edge technology.

- 88 general booths, including
- 4 booths for special patient care
- 19 surgical booths
- Conscious sedation booths

The Clinic has two prosthetics laboratories with cutting-edge digital imaging technology, which allows students to practice the latest techniques in all areas of dentistry.

Exclusive laboratory dedicated to CAD-CAM technology. The equipment available in this laboratory includes:

- Three milling machines: Lyra, Cerec, Roland
 - One ceramic oven
 - 13 intraoral scanners (four 3Shape; one 3M; one Omnicam Cerec; four Carestream; one Primescan; one Itero (loan); one Aadva (loan); and one Medit scanner).
 - One 3D printer
- A variety of design programmes: nine exocad; ten 3shape and two Cerec; four Exoplan; one Simplant and one Implant Studio.

We have built **six new laboratories**, one of which is dedicated to dentistry research.

The pre-clinical laboratory, a technological laboratory, is fitted with **95 dental simulators** with phantom models, oral cavities simulation tools, and **X-ray and digital radiology equipment** for practising dentistry using the **Simudont virtual reality simulator**. This laboratory allows students to practice dentistry procedures under very real conditions before treating actual patients.

For complementary tests, all dental equipment is fitted with intraoral radiology. The centre has two diagnostic imaging rooms for taking panoramic dental X-rays with three CBCT/iCat machines.

Digital technology and implant-prosthetic planning programmes allow students to learn and work with the latest technologies from day one.

- Option to stream dentistry treatments and procedures live.
- Smart storage for delivering and collecting equipment.
- Sterilisation service for medical equipment and instruments.
- Dentistry management software to keep track of students' and patients' progress

The technology available to our students helps them gain awareness of the daily reality at a clinic and prepares them in all theoretical and practical aspects of working in the safest and most professional way.

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.

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Basic information

Calendar

September 2021 to July 2024

Timetable

First year:

Monday: 8 a.m. - 2 p.m.

Tuesday: 8 a.m. - 2 p.m.

Wednesday: 8 a.m. - 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. - 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 2021

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Tuition fees

First year:

€ 25,640*

Second year:

€ 24,840*

Third year:

€ 21,001*

*Annual registration fees are included (€480/year). The annual registration fees have not yet been approved by the University's Board of Governors.

*The prices for second and third year (2022-2023 and 2023-2024) have not yet been approved by the University's Board of Governors and are subject to an index-linked increase.

*Programme pending final approval

Places available

There 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-enrolment

- Pre-enrolment form
- Certified copy of a relevant university degree*
- Academic record (original or certified copy)*
- Photocopy of the student's national Identity Document (DNI) or passport.
- Proof of payment of €90 via bank transfer**
- Curriculum vitae detailing attendance to courses and conferences
- Letter/s of recommendation (not compulsory).

* For students from outside the European Union, both their academic record and degree certificate must be officially certified or must have the Hague Apostille attached to them.

Candidates in the final year of their degree programme must submit a list of qualifications obtained before the date of registration.

**Administration fees are non-refundable.

Send to:

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Paola Lago
infodonto@uic.es
Faculty of Dentistry
Universitat Internacional de Catalunya
Hospital General Building
C/ Josep Trueta, s/n
08195 Sant Cugat del Vallès (Barcelona)

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Bank details

The fees can be paid in the following bank account held by the Universitat Internacional de Catalunya, Fundació Privada. The student's name and program should be entered in payee details.

- Bank: BANCO SANTANDER
- IBAN code: ES63 0049 1806 9429 1189 8561
- SWIFT/BIC code: BSCHEMM
- Address: Passeig de Gràcia, 5, 4^a pl. - 08007 BARCELONA

Admission application form 2021-2022

Personal details

Name					
First Surname			Second Surname		
Date of Birth	/	/	Sex	Male	Female
E-mail			Mobile phone		
Address					
Country			City		
Postal Code			Nationality		
Country of Birth			Place of Birth		
NIF/NIE		Foreign ID*		Passport number	
Usual Language					
What language do you want to receive information in?			English	Spanish	

*Born outside of Spain or non-Spanish nationality

Master's Degrees / Postgraduate Degrees*

Másteres presenciales / On-Site Master's Degrees

Master's Degree in Periodontology
 European Master's Degree in Endodontics
 International Master's Degree in Oral Surgery (IMOS)
 Máster en Odontopediatría Integral y Hospitalaria
 Máster en Ortodoncia y Ortopedia Dentofacial
 Máster Universitario en Odontología Restauradora Estética
 Master's Degree in Advanced Aesthetic Restorative Dentistry
 Máster en Gerodontología, Pacientes especiales y con compromiso médico
 Double Master Degree in Periodontology and Prosthodontics

Postgrados / Postgraduate Degrees

RC en Periodoncia
 RC en Prótesis bucal
 RC en Implantología Oral
 RC en Ortodoncia
 RC en Odontopediatría
 RC en Técnicas Quirúrgicas Aplicadas a la Cavidad Oral
 Postgrado en Odontología Integrada Avanzada
 Postgrado Avanzado en Radiología Oral y Maxilofacial
 Postgrado en Creación y Gestión de la Clínica Dental
 Postgrado de Actualización en Odontología Europea

Másteres Online / Online Master's Degrees

Master's Degree in Endodontics Online
 University Master's Degree in Research in Dentistry
 Máster en Estética Dental Online
 Máster en Odontopediatría Integral y Hospitalaria Online

Academic information – Degree from the university of origin

University		Country			
Degree					
Type of degree	Graduate	University Master's degree holder	Master's degree holder	Other	
Year	/	/			

How did you find out about the UIC Barcelona (Spain)?

Word of mouth (through friends, school, ...) Visit to the university The website Fairs Advertising Other

Send to: infodonto@uic.es
 Faculty of Dentistry - Universitat Internacional de Catalunya
 C/ Josep Trueta, s/n 08195 Sant Cugat del Vallès (Barcelona)

*Programmes pending final approval