

## 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

## Master's Degree in Periodontology

### Academic Board

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### 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.

## Master's Degree in Periodontology

### 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

## Master's Degree in Periodontology

### **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**

## Master's Degree in Periodontology

### 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

## Master's Degree in Periodontology

### **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.

## Master's Degree in Periodontology

### 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)

## Master's Degree in Periodontology

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.

## Master's Degree in Periodontology

### 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  $\geq 85$**  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.

## Master's Degree in Periodontology

### 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.

## Master's Degree in Periodontology

### 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

## Master's Degree in Periodontology

### Tuition fees

**First year:**

€ 25,640\*

**Second year:**

€ 24,840\*

**Third year:**

€ 21,001\*

\*Annual registration fees are included (€480/year).

\*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.

### 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)

## Master's Degree in Periodontology

### 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.
- Payment of €90 and payment receipt sent by mail\*\*
- 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.

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