

2024-2025 Academic Year

Double Master's Degree in Periodontology and Implant Dentistry



2024-2027 Double Master's Degree in Periodontology and Implant Dentistry.



Introduction

The Double Master's Degree in Periodontology and Implant Dentistry is made up of the "University Master's Degree in Periodontology and Implant Dentistry"* of 120 ECTS and the "Master's Degree of Lifelong Learning in Advanced Periodontology and Implant Dentistry" of 60 ECTS.

Over the course of this Throughout this programme the students will be prepared to supervise clinical treatments, as well as how to teach and carry out research in surgical and periodontal implant dentistry. At the end of the three-years training programme, the students will obtain two degrees: a "University Master in Periodontology and Implant Dentistry" and a "Master's Degree of Lifelong Learning in Advanced Periodontology and Implant Dentistry".

The double master's degree in periodontology and implant dentistry is a full-time three-year postgraduate programme accredited by the European Federation of Periodontology (EFP), designed to train dentists in the specialised fields of periodontology and implantology. The programme 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 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.

Organizing Department

Department of Periodontology

Faculty of Dentistry

Course Director

Dr José Nart

Programme Directors

Dr José Nart / Dr Cristina Vallès

Coordinator

Dr Neus Carrió

Academic Staff

Dr Matteo Albertini, Dr Isabel Arroyo, Dr Mariana Baglivo, 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 Francesco Di Leone, Dr José Espona, Dr Marta Galofré, Dr Berta García, Dr Raquel García, Dr Alfonso Gil, Dr Pilar Golmayo, Dr Rodrigo González, Dr Santi Jané, Dr Daniel Jiménez, Dr Ada Lapedra,

Dr Cristina Llana, Dr Lise Maury, Dr Mireia Martí, Dr Josep Martínez, Dr Jaume Mestres, Dr Alberto Monje, Dr Carolina Mor, Dr Javier Mora, Dr Marta Muñoz, Dr Berta Montfort, Dr José Nart, Dr Diana Palao, Dr Germán Pardo, Dr Blanca Paniagua, Dr Marta Peña, Dr Ramón Pons, Dr Vanessa Ruiz, Dr Juan Rumeu, Dr Antonio Santos, Dr Marzia Savoini, Dr Costanza Soldini, Dr Joan Takamoli, Dr Camilo Torres, Dr Cristina Vallès, Dr Ana Vallés, Dr Javier Vilarrasa.

Academic Staff Cross-Disciplinary Subjects

Dr Ángela Donate, Dr Rut Fadó, Dr Natalia Felipe, Dr Víctor Gil, Dr Adrian González, Dr Josep Maria Huguet, 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.

Objectives

The training objectives of the Double Master's Degree in Periodontology and Implant Dentistry are:

- Train dental professionals to become experts in the field of Periodontics and Implantology.
- Prepare professionals in the field of clinical practice, academic teaching and research in Periodontics and Implant Therapeutics.
- Teach how to assess the scientific relevance of studies, recognise the limitations of articles, and become familiar with the literature.
- Enable professionals to perform a research protocol, a correct statistical analysis and teach how to write an article for publication.
- Provide students with the knowledge to develop and execute a research project in the form of a written paper suitable for publication in a journal.
- Integrate and link Periodontics with clinical case studies related to other areas of dentistry.
- Provide students with the necessary skills to plan and perform surgical procedures to treat complex multidisciplinary cases.

Course programme

Theoretical programme

General aspects related to basic science

Head and Neck Anatomy
Clinical Pharmacology

Microbiology
Molecular and Cellular Biology

Basic Fundamentals 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 Fundamentals of periodontal surgery

Periodontal surgery: access-flap surgery and resective surgery
Pre-prosthetic periodontal surgery
Principles of regenerative periodontal therapy
Principles of mucogingival therapy

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

Biostatistics
Research methodology
Bibliographic research
Scientific communication
Developing a research protocol
Data analysis
Developing a research protocol

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

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
- Substitutes materials
- Bibliographic evidence

Tissue Regeneration

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

Concepts and seminars on interdisciplinary periodontal treatment

- Periodontics and Orthodontics
- Periodontics and Prosthodontics
- Periodontics and Endodontics
- Periodontics and Oral Pathology

Oral implantology and prosthetics

- Current concepts in implant prosthetics

Oral medicine and pathology

- Clinical case seminars

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

Review of classic and current literature on implants

Practical and preclinical programme

Clinical work in periodontology

Examination and treatment of patients with incipient and advanced periodontal diseases
Radiographic examination of patients with incipient and advanced 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
Treatment of mucogingival conditions
Regenerative periodontal treatment and procedures (tooth and bone)
Examination and implantation of dental implants
Examination and treatment of peri-implant diseases
Supportive periodontal therapy and implant therapy
Treatment of mucogingival conditions
Sinus floor elevation
Practical seminar on 1st visit and Gesden Software
Practical seminar on clinical practice guideline
Practical seminar on periodontal examinations and intraoral photography
Practical seminar on X-ray examination
Practical seminar on subgingival instrumentation
Practical seminar on periodontal surgical instruments
Practical seminar on suture
Practical seminar on crown lengthening and resective surgery
Practical seminar on mucogingival surgery
Practical seminar on regenerative periodontal surgery
Practical seminar on surgical implant placement
Practical seminar on sinus floor elevation techniques
Practical seminar on medit and exocad software
Practical seminar on blueSky software

Clinical instruction

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

Methodology and evaluation

The main learning activities carried out in the mandatory subjects are:

- Master Classes
- Practical classes
- Seminars or conferences
- Individual and/or group work
- Case method for the analysis and resolution of clinical cases
- Laboratory
- Practical workshops
- Preparation of cases and/or simulations
- Self-study activities

- External work practices
- Master's Thesis (TFM)

The evaluation systems used in the mandatory subjects are:

- Continuous evaluation
- Theoretical exam
- Master's Thesis defence

Facilities

At UIC Barcelona, clinical practices with real patients are fundamental in training high-level professionals.

The UIC Barcelona Faculty of Dentistry has state-of-the-art digital equipment that brings students close to the reality of day-to-day life and prepares them in all theoretical and practical aspects of working in a clinic in the safest and most professional way.

We currently have the following facilities available:

The UIC Barcelona University Dental Clinic has 88 dental booths, all of which are equipped with the most cutting-edge technology: 88 booths for general care, 4 booths for special needs patients and 16 booths for surgery and conscious sedation.

The Clinic attended around 75,000 appointments in the last academic year.

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

The Faculty has a dedicated CAD CAM technology laboratory with the following equipment:

- Four milling machines:
- 13 intraoral scanners (four 3Shape, one 3M, one Cerec Omnicam, two PrimeScan, one Itero, two Carestream, one Medit, one Shinning)
- Three 3D printers
- Design software: nine Exocad, eleven 3shape and two Cerec
- Four Exoplan, one Geomagic, one BlueSky
- One ceramic furnace
- One zirconia sintering furnace
- 2cbct and 1iCat
- One Teckscan
- One SDI Matrix

All dental equipment is fitted with intraoral radiology for additional testing. The centre has two diagnostic imaging rooms for panoramic dental X-rays with two CBCT. 3D iCat imaging machines.

Digital technology and prosthetic-implant planning software programs allow students to learn and work with the latest technologies from day one. We have a design room with 14 computers (CAD) and a new CAM lab (milling machines, printers) for student training.

- Option to stream dentistry treatment live
- Computerized storage for material delivery and collection
- Sterilisation service for medical equipment and instruments

All the resources are current, and the University has agreements with different industries in the sector, thus promoting the relationship between the industry, universities and R+D+I.

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

We have six new laboratories, one of which is dedicated to dental research.

We have eight Zeiss Extaro and Zumax OMS 2360 high-resolution microscopes.

Pre-clinical laboratory, a technological laboratory, has 95 dental simulators, with phantom head models, which are oral cavity simulation tools, and X-ray and digital radiology equipment for practising dentistry using the Simudont virtual reality simulators. This step introduces virtual reality in the student's pre-clinical practicums, enhancing their learning experience and it is also a great tool as a new teaching methodology. It is a step forward in innovation and improvement in student training. This new laboratory allows students to practice real-life-like dentistry before they practice on patients.

Places in classrooms:

2,355 places in classrooms
88 places in clinics (dentistry booths)
192 places in gyms
120 places in IT classrooms
420 places in laboratories
415 m² of laboratory space 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 meters squared.
374 reading places throughout the library and three study rooms

Required material*

*Provisional list. The final list will be given to students before classes begin.

In order to study this Master's programme, 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

At the CUO every student will be expected to wear a protective face screen and use protective eyewear, however if they use prescription glasses or magnifying loupes, eyewear will not be necessary.

Basic information

Calendar

September 2024 to July 2027

Timetable

First year:

Full time programme (the schedule will be provided before classes begin)

Second year:

Full time programme (the schedule will be provided before classes begin)

Third year:

Full time programme (the schedule will be provided before classes begin))

The second and third years of the programme will consist of subjects from the University Master's Degree in Periodontology and Implant Dentistry and the Master's Degree of Lifelong Learning in Advanced Periodontology and Implant Dentistry.

Pre-registration date

From January 2024

Fees

First year:

27.844.00 €*

Second year:

26.408 €*

Third year:

24.030 €*

*this amount includes Annual enrollment fees(€494/year).

The amount for the second and third year (2025-2026 and 2026-2027) is still pending approval by the University's Board of Governors and is subject increase based on the Spanish Consumer Price Index (IPC).

Places available

The number of places available is limited.

Accreditation

120 ECTS, "University Master's Degree in Periodontology and Implant Dentistry" *

60 ECTS, ""Master's Degree of Lifelong Learning in Advanced Periodontology and Implant Dentistry"

**Specific name pending of approval by Board of Governors.*

Admission profile

The admission of the students to the Double Master's Degree in Periodontology and Implant Dentistry at the Universitat Internacional de Catalunya is governed by its own selection process that involves the passing of the University's own admission tests and the submission of specific documentation, always in compliance with the provisions set forth in article 18 of Royal Decree 822/2021.

- Hold a Bachelor's degree in Dentistry (or equivalent).
- English C1 level as per the Common European Framework of Reference for Languages or equivalent is recommended. Languages or equivalent and will be verified during the interview with the candidate.
- One year of work experience after completion of the Bachelor's degree is highly recommended.

Admission criteria

The admission tests consist of a weighted evaluation of the academic record, personal profile, motivations and aptitudes, which will have the following criteria:

- Personal interview
- Academic record
- Specific test

It is mandatory to complete the three years of the Double Master's Degree in Periodontology and Implant Dentistry.

Admissions process

To start the admission process, you must fill in the programme's admission form which can be found on the university's website (www.uic.es/dentistry), and submit all the required documentation:

- Bachelor's degree*
- Certificate of Qualifications (transcript)*
- ID or Passport
- Curriculum Vitae
- General Terms and conditions document signed.
- Letter(s) of recommendation (recommended, not compulsory)

*For students from outside the European Union, both their qualifications and their degree qualification must be attested through diplomatic route or carry a Hague Apostille stamp. (The degree qualification does not need to be officially homologated).

Candidates who are in the last year of their degree programme must provide an academic certificate of the qualifications they have obtained at the time they register.

**Non-refundable administration fees.

Once all documentation has been received and checked for validity, you must pay the registration fee (€90**) and send the payment receipt sent by mail to: infodonto@uic.es (UIC Barcelona graduate alumni are exempt from this fee).

Contact:

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