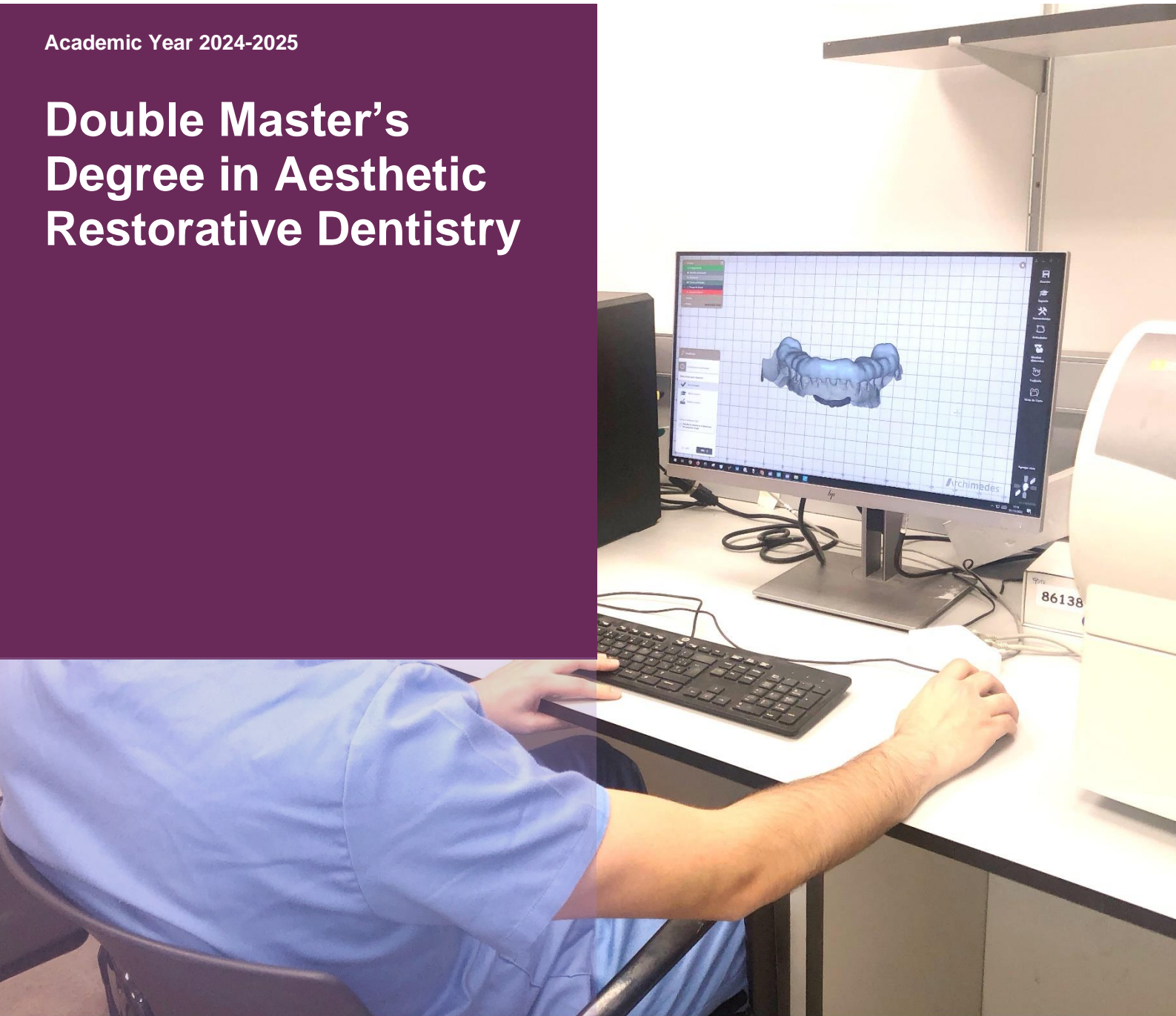


Academic Year 2024-2025

# Double Master's Degree in Aesthetic Restorative Dentistry



## 2024-2027 Double Master's Degree in Aesthetic Restorative Dentistry

### Introduction

The program in restorative dentistry is made up of the University Master's Degree in Aesthetic Restorative Dentistry\* of 120 ECTS and the Master's Degree of Lifelong Learning in Advanced Restorative Dentistry of 60 ECTS.

Thanks to new adhesion techniques and new dental materials, over the last few years the term Restorative Dentistry has emerged in the dental profession in Europe and the United States of America, as a meeting point between two prosthetics and dental therapeutics, two areas that were initially different and now share the same goals and therapeutics.

Restorative dentistry is a broad subject, and all the knowledge involved in a Dentistry degree is required to understand it fully. It also requires a mastery of many specific techniques involved in both diagnosis and restorative treatment. These techniques mean oral rehabilitation is more comfortable for the patient and ensure a good long-term prognosis. The concept of restorative dentistry is currently integrated within the broad context of the patient as a functional unit who requires integral and multidisciplinary treatment, one facet of which is restorative treatment.

### Organising Department

Department of Restorative Dentistry

Faculty of Dentistry

### Chairman and Programme Director

Dr Miguel Roig Cayón

### Coordinator

Dr Pilar Fenoy

### Academic Staff

Dr Akram Ali, Dr Pablo Altuna, Dr Josep Cabratosa, Dr Jordi Cano, Dr Oriol Cantó, Dr Santiago Costa, Dr Javier De Medrano, Dr Pilar Fenoy, Dr Oscar Figueras, Dr Pau Galbán, Dr Armando Gil, Dr Rodrigo González, Dr Jaime Guinovart, Dr Luis Jané Chimeno, Dr Luís Jané Noblom, Dr Jose Gabriel Martinez Colmenares, Dr Kilian Molina, Dr Carolina Mor, Dr Sergio Morelló, Dr Antonio Morelló, Dr Miguel Roig, Dr Enric Soler, Dr Juan Torres, Dr Marta Vallés.

## **Objectives**

The Faculty of Dentistry at the Universitat Internacional de Catalunya feels that it is necessary to offer the dental profession a programme in Restorative Dentistry. Our university would also like students to receive advanced training, with clear knowledge of dental research in the field of dentistry. This programme will therefore provide:

- Scientific training and surgical expertise in the field of aesthetic restorative dentistry.
- An understanding of new materials and technologies related to aesthetic restorative dentistry.
- Training in research methods.

## Course Programme

### Curriculum

Subjects in year one
Basic Adhesion Techniques
Basic Aesthetic Diagnosis
Bibliographical Research (Cross-Disciplinary. Research.)
Biostatistics (Cross-Disciplinary. Research.)
Dental Anatomy
Direct Operative Dentistry
Direct and Indirect in Vitro Operative Techniques I
Final Master's Degree Project I
Indirect Adhesive in Vitro Prosthetic Techniques
Indirect Operative Techniques and Adhesive Prosthesis
Introduction to Prosthetic Implantology
Laboratory Techniques Applied to Aesthetic Diagnosis
Laboratory Techniques for Fixed Non-Adhesive in vitro Prosthesis
Laboratory Techniques for Fixed Prosthesis
Multidisciplinary Clinical Planning. Clinical Cases Discussions I

Multidisciplinary Restorative Treatment. Clinic I
Oral Restoration, Surgery and Periodontics I
Removable Protheses
Research Methodology and Ethics (Cross-Disciplinary. Research.)
Scientific Communication (Cross-Disciplinary. Research.)
Scientific Evidence in Operative Dentistry
Subjects in year two
Multidisciplinary Clinical Planning. Clinical Cases Discussion II
Multidisciplinary Restorative Treatment. Clinic II
Elective Module
Subjects in year three
Direct and Indirect in vitro Operative Techniques II
Master's Thesis II
Multidisciplinary Restorative Treatment. Clinic III
Oral Restoration, Orthodontics and Occlusion
Oral Restoration, Surgery and Periodontics II
Scientific Evidence in Restorative and Aesthetic Dentistry

Elective subjects offered
Endodontics Module
Implants Module
Periodontology Module
Radiology Module
Surgery Module
TMJ Module

### **Theoretical – Practical Programme**

The curriculum is designed to offer the student all the necessary skills to become a specialist in advanced aesthetic restorative dentistry.

There will be 5 modules. The modules one and two will include subjects related to the field of aesthetic restorative dentistry, while module three will include subjects related to laboratory techniques for oral rehabilitation and module four is dedicated to the Master's Degree Thesis.

#### **Module 1**

SCIENTIFIC FOUNDATIONS OF AESTHETIC RESTORATIVE DENTISTRY

#### **Module 2**

ADVANCED AESTHETIC RESTORATIVE DENTISTRY - CLINICAL PRACTICE

#### **Module 3**

MULTIDISCIPLINARY AESTHETIC RESTORATIVE DENTISTRY. LABORATORY TECHNIQUES

#### **Module 4**

MASTER'S DEGREE THESIS

#### **Module 5**

ELECTIVE MODULE

### **Module 1**

#### **SCIENTIFIC FOUNDATIONS OF AESTHETIC RESTORATIVE DENTISTRY**

“Scientific Foundations in Aesthetic Restorative Dentistry”, is divided into two parts. The first brings together all the subjects related to anatomy, physiology, dental pathology, and effect of aging in teeth and oral environment. The second part will feature scientific methodology, biostatistics, bibliographic research, and scientific communication. Other subjects will include topics on studying the new technologies and materials that industry has made available to the profession. The Clinical practice and laboratory activities will be carried out in the facilities at the University Dental Clinic.

Introduction of treatments in dental prosthetics, prosthetic implantology, and temporomandibular joint dysfunction will also be covered, both traditional and well-established concepts in the field of aesthetic restorative dentistry, reviewing current scientific literature.

### **Module 2**

#### **AESTHETIC RESTORATIVE DENTISTRY - CLINICAL PRACTICE**

This module brings together all the subjects related to clinical practice in aesthetic restorative dentistry that will be covered during the three academic years of the Master's course. The UDC and LAB activities will be carried out in the facilities at the University Dental Clinic. This module also includes the clinical sessions held in the departments of Prosthetics, Pathology, Dental Therapeutics, Periodontics, Orthodontics and Surgery. These are multidisciplinary sessions that will help the student understand the pathologies of their patients avoid new problems and ensure the aesthetic and functional oral rehabilitation of the patient.

### **Module 3**

#### **MULTIDISCIPLINARY AESTHETIC RESTORATIVE DENTISTRY.LABORATORY TECHNIQUES**

Module 3 includes the laboratory practice necessary for students to learn how to perform direct and indirect surgical techniques. Students will also learn how to make the prostheses needed during the treatments carried out in the clinic. In addition, the module includes theoretical and practical laboratory training for removable prosthesis treatments, as well as treatments for temporomandibular dysfunction. Special focus will be placed in management of elder patients, their treatment and maintenance. The UDC and LAB activities will be carried out in the facilities at the University Dental Clinic.

#### **Module 4**

##### **MASTER'S DEGREE PROJECT THESIS**

This module will be carried out by the students in the master's program. It involves the " Master's Degree Thesis", (TFM) and is based on a clinical or research project idea approved during the first semester.

During the first semester of the master's degree, ideas for the Master's Degree Thesis will be submitted for approval by the Master's program academic staff. During the second, third and fourth semesters, students will complete the Master's Degree Thesis Module 4 is worth 6 ECTS, and students should have learned the methods required to carry out the practical part of the research and actively develop their " Master's Degree Thesis".

The content of the MASTER'S DEGREE THESIS may have a clinical or research profile depending on each student and prior approval from the Master's program academic staff.

The MASTER'S DEGREE THESIS should be developed throughout the master's course under the supervision of the corresponding tutor. At the beginning of the course the master's coordinator will assign a tutor to each student, depending on the study topic they have chosen.

#### **Module 5**

##### **ELECTIVE SUBJECT MODULE**

Surgery, implants, periodontics, endodontics.

In Module 5, the student will choose one of the areas listed. Each subject will be taught by the corresponding department.

##### **Courses and conferences**

During their studies, all our students will be expected to attend conferences and courses taught by renowned specialists in the field of restorative dentistry. They are also expected to attend scientific conferences, such as those organised by the Spanish Stomatological Prosthesis and Aesthetics Association (Sociedad Española de Prótesis Estomatológica y Estética) and the Spanish Conservative Dentistry Association (Sociedad Española Odontología Conservadora), and to participate with oral communications and posters. Students will be notified with sufficient time to allow them to schedule any activities that may be affected by the timing of these courses and conferences.

They are also expected to publish the results of their research in high-impact journals.



## **Methodology and evaluation**

The student will be evaluated in the different modules and subjects, taking into account:

Direct and personal participation.

Written tests (exams).

Theoretical, technical and clinical knowledge related to the pathologies.  
pathologies.

Acquisition of knowledge of clinical, technological and surgical skills.

Scientific literature review methodology.

Case Method. presentation format.

Problem solving and initiatives.

Dentist-patient communication.

Progression in the student's training.

Defence of the Master's thesis before an examination board.

Defence of clinical case planning and execution.

## **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 m<sup>2</sup> 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 metres squared.  
374 reading places throughout the library and three study rooms

### **Material\***

\*provisional list

In order to study this master's programme all students must have the following equipment:

- Reflex Camera
- Rotary instruments (Contra-angle, Handpiece)
- Surgical instruments
- Electronic spatula for wax modelling
- Semi adjustable articulator (Artex)
- A list of material will be provided at the beginning of the course.

### **Materials to be purchased by the student:**

- Personal protection face screen
- Protective eyewear glasses, however if they use prescription glasses or magnifying loupes, protective eyewear will not be required.

## Basic information

### Calendar

September 2024 to July 2027 (except the month of August)

### Timetable

Full time programme (the schedule provided before classes begin)

### Pre-registration date

From January 2024

## Fees

### 1r Course

21774€\*

### 2o Course

21794€\*

### 3rd Course

21794€\*

Years two and Three of the programme will consist of subjects in the University Master's Degree in Aesthetic Restorative Dentistry and of the Master's Degree of Lifelong Learning in Advanced Restorative Dentistry.

\*This amount includes the annual enrolment fees are included (€494/year).

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

Completion of the three-year programme is compulsory.

## Places available

The number of places available is limited.

## Accreditation

120 ECTS "University Master's Degree in Aesthetic Restorative Dentistry".

60 ECTS Master's Degree of Lifelong Learning in Advanced Restorative Dentistry

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

## General admission requirements

To be accepted in the Programme of Restorative Dentistry, the following is required:

- Hold a degree in Dentistry, or a degree in Medicine specialising in Dentistry.

## Admission process

- Personal interview: the personal interview will be conducted with the the Master's programme director and coordinator. Academic merits, teamwork skills and professional experience will be evaluated.
- English test: written English test (B2 level recommended).

To start the admission process, you must complete the programme's admission form on the University's website ([www.uic.es/dentistry](http://www.uic.es/dentistry)), and submit all the required documentation:

- Bachelor's degree\*
- Academic 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. (The degree qualification does not need to be officially homologated).

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

\*\*Nom-refundable administration fees.

Once all documentation has been received and checked for validity, the registration fee (€90\*\*) must be paid and proof of payment sent by email to: [infodonto@uic.es](mailto:infodonto@uic.es) (formed UIC Barcelona graduates are exempt from this fee).

## Contact:

Paola Lago  
Marta Utset  
[infodonto@uic.es](mailto:infodonto@uic.es)

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