

COURSE 2024-2025

# Aesthetic Restorative Dentistry Programme



## Aesthetic Restorative Dentistry Programme 2024-2027

### Presentation

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

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 education on a further level, 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.

## Program of the course

### Curriculum

Subjects in course 1
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 Prostheses
Introduction to Prosthetic Implantology
Laboratory Techniques Applied to Aesthetic Diagnosis
Laboratory Techniques for Fixed Non-Adhesive in Vitro Prostheses
Laboratory Techniques for Fixed Prostheses
Multidisciplinary Clinical Planning. Discussion of Clinical Cases 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 course 2
Multidisciplinary Clinical Planning. Discussion of Clinical Cases II
Multidisciplinary Restorative Treatment. Clinic II
Optative Module
Subjects in course 3
Direct and Indirect in Vitro Operative Techniques II
Final Master's Degree Project 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 Program**

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 first two modules will include subjects related to the field of aesthetic restorative dentistry, while the third module will include subjects related to laboratory techniques for oral rehabilitation and the fourth module is dedicated to the Final Master's Degree Project.

### **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**

FINAL MASTER'S DEGREE PROJECT

### **Module 5**

OPTIONAL MODULE

**Module 1****SCIENTIFIC FOUNDATIONS OF AESTHETIC RESTORATIVE DENTISTRY**

This module is made up of two subjects. The first, “Scientific evidence in Aesthetic Restorative Dentistry”, is made up of two parts. The first brings together all the subjects related to scientific literature on dental pathology and treatments, dental prosthetics, prosthetic implantology, and temporomandibular joint dysfunction. The subjects will go over both traditional and well-established concepts in the field of aesthetic restorative dentistry, as well as in current scientific literature. The second part will feature scientific methodology, biostatistics, bibliographic research and science communication. The second subject includes topics on studying the new technologies and materials that the industry puts at the disposal of the profession. The UDC and LAB activities will be carried out in the facilities at the University Dental Clinic.

**Module 2****AESTHETIC RESTORATIVE DENTISTRY - CLINICAL PRACTICE**

This module brings together all the subjects related to clinical practice in aesthetic restorative dentistry that have been covered over the two 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 their patients' pathologies, prevent 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 necessary prostheses 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. The UDC and LAB activities will be carried out in the facilities at the University Dental Clinic.

### **Module 4**

#### **FINAL MASTER'S DEGREE PROJECT**

This module will be carried out by the students on the master's course. It is made up of the "Final Master's Degree Project", based on a clinical or research project idea approved during the 1st semester.

During the 1st semester of the master's degree, Final Master's Degree Project ideas will be submitted for approval from the Master's teaching staff. During the 2nd, 3rd and 4th semesters, students will complete the Final Master's Degree Project. Module 4 is worth 6 ECTS, and students should have learned the methods required to carry out for the practical part of the research and actively develop their "Final Master's Degree Project".

The content of the FINAL MASTER'S DEGREE PROJECT may have a clinical or research profile depending on each student and with the approval of the Master's teaching staff.

The FINAL MASTER'S DEGREE PROJECT should be carried out throughout the Master's course under the supervision of the corresponding tutor. At the beginning of the course the Master's coordinator will assign each student with a tutor, depending on their chosen study topic.

### **Module 5**

#### **OPTIONAL SUBJECT MODULE**

Surgery, implants, periodontics, endodontics.

In Module 5, the student will choose between one of the subjects indicated. Each one of the subjects will be taught by the corresponding department.

#### **Courses and conferences**

During their studies, all our students will be expected to attend conferences and courses imparted 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 Prostheses 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 programme 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 of the patients.  
pathologies.

Acquisition of knowledge of clinical, technological and surgical skills.

Methodology of scientific literature review.

Form of presentation of the Case Method.

Problem solving and initiatives.

Dentist-patient communication.

Progression in the student's training.

Defense of the Master's thesis before an examining board.

Defense of planning and execution of clinical cases.

## 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 Zumar 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 for this master's all students must equip themselves with:

- Camera reflex
- 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 shield
- Full protection glasses, except in the case of wearing corrective glasses or magnifying glasses which will not need full protection glasses

## Basic information

### Calendar

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

### Schedule

Full time program (the schedule will be sent prior to the start of the program.)

### Pre-registration date

From January 2024

### Fees

**1r Course**  
21760€\*

**2o Course**  
21780€\*

**3rd Course**  
21780€\*

The second and third years of the program will be composed by subjects of the Master's Degree\* and the Advanced Master's Degree.

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

The price for the second and third years (2025-2026 and 2026-2027) has not yet been approved by the University's Board of Governors and is subject to an index-linked increase.

It is mandatory to complete the three years of the programme.

### Places available

The seats available are limited.

### Accreditation

120 ECTS Master's Degree in Aesthetic Restorative Dentistry\*.  
60 ECTS Master's Degree of Lifelong Learning in Restorative Dentistry

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

## General admission requirements

To be accepted in the Programme of Restorative Dentistry, you will require the following:

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

## Admission process

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

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

- Bachelor's degree\*
- Academic transcript of grades\*
- ID or Passport
- Curriculum Vitae
- Signed document with general terms and conditions
- 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 program must provide a list of the qualifications they have obtained up until the date they register.

\*\*Not reimbursable for 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](mailto:infodonto@uic.es) (UIC Barcelona graduate alumni 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)