

Master's Degree in Advanced Aesthetic Restorative Dentistry (MREA)

Master's Degree in Advanced Aesthetic Restorative Dentistry (MREA) 2020-2023

Presentation of the course

Dentistry is one of the Health Sciences and, as such, the professionals who practice in this field must be trained to prevent, diagnose and treat the different oral diseases suffered by their patients. They also need to take into account the characteristics and needs of the society in which their practice is based.

Restorative Dentistry is the branch of Dentistry that is responsible for treating occlusal-masticatory function and anatomy, speech and aesthetics related to the stomatognathic system. All of these issues are caused by caries, periodontal disease or trauma, and are treated with dental prosthetics or adhesive dentistry procedures. The incorporation of techniques involving dental adhesion and dental hard tissues has had a significant impact on dentistry. In terms of human prosthetics, a dental prosthesis is a procedure that artificially restores the absence of one, several or even all of the teeth and their adjacent tissues. Dental therapeutics, in traditional terms, refers to restoring areas of the mouth without affecting the teeth as a whole. Procedures relating to adhesive dentistry, dental therapeutics and dental prosthetics consist of using several types of materials that adhere to dental hard tissues (enamel or dentine). Once they have bonded to the tooth surface, the materials and tooth behave as a single unit. 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.

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Organising department

Department of Restorative Dentistry
Faculty of Dentistry

Chairman and Programme Director

Dr Miguel Roig Cayón

Coordinator

Dr Akram Ali Hussein

Academic Board

Dr Akram Ali, Dr Ramón Asensio, Dr Mónica Badrena, Dr Juan Basilio, Dr Josep Cabratosa, Dr Oriol Cantó, Dr Mitchel Chávez, Dr Cristina Corominas, Dr Santiago Costa, Dr Pablo de la Cuadra, Dr José Espona, Dr Pilar Fenoy, Dr Josep Antoni Ferrándiz, Dr Óscar Figueras, Dr Mercedes Forero, Dr Edgar García, Dr Herminio García, Dr Josep M^a Huguet, Dr Luis Jané, Dr Mark Lodge, Dr Jaume Llena, Dr José M^a Martínez, Dr Roberto Manrique, Dr Juan Ricardo Mayoral, Dr Raúl Medina, Dr Javier de Medrano, Dr Killian Molina, Dr Sergio Morelló, Dr Jorge Ortega, Dr Bárbara Pàmies, Dr Antoni Parada, Dr Lissethe Peñate, Dr Natalia Felipe, Dr Jordi Tomás, Dr Francisco Real, Dr Joan de Ribot, Dr Miguel Roig, Dr Javier Roldán, Dr Antonio Ruíz, Dr Maite Salagaray, Dr Enric Soler, Dr Joan Soliva, Dr José Suárez, Dr Luis Valdés, Dr Marta Vallès, Dr Jean Vilanova, Dr Fernando Durán Sindreu, Dr Francesc Abella, Dr Marc García, Dr Federico Hernández Alfaro, Dr José Nart, Dr Juan Ricardo Mayoral, Dr Pablo Altuna, Dr Carolina Mor

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Objectives

The Faculty of Dentistry at the Universitat Internacional de Catalunya feels that it is necessary to offer the dental profession a Master's Degree in Advanced Aesthetic 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 master's 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.

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Program of the course

Curriculum

1st year subjects
Dental anatomy
The basics of dental adhesion
Introduction to aesthetic diagnosis
Biostatistics(cross-disciplinary research)
Science communication(cross-disciplinary research)
Scientific Evidence in Operative Dentistry
Introduction to Prosthetic Implantology
Bibliographic Research(cross-disciplinary research)
Research Methodology
Direct Operative Dentistry
Multidisciplinary Clinical Planning. Discussion of Clinical Cases I
Removable Prosthesis
Oral Restoration, Surgery and Periodontics I
Multidisciplinary Restorative Therapeutics. Clinic I
Final Master's Degree Project I
Direct and Indirect in Vitro Operative Techniques I
Indirect Operative Techniques and Adhesive Prosthesis
Laboratory Techniques for Fixed Prosthesis
Laboratory Techniques for Fixed Non-Adhesive in Vitro Prosthesis
Laboratory Techniques Applied to Aesthetic Diagnosis
Adhesive in Vitro Prosthetic Techniques
2nd year subjects
Multidisciplinary Clinical Planning .Discussion of Clinical Cases II
Multidisciplinary Restorative Therapeutics. Clinic II
Optional module
3rd year subjects
Advanced Multidisciplinary Restorative Therapeutics. Clinic III
Advanced Multidisciplinary Restorative Therapeutics. Clinic III
Direct and Indirect in Vitro Operative Techniques II
Scientific Evidence in Restorative and Aesthetic Dentistry
Oral Restoration, Surgery and Periodontics II
Oral Restoration, Orthodontics and Occlusion
Final Master's Degree Project II

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Surgery Module
Periodontics Modules
Implantology Module
Radiology Modules
Module 1 TJD: Clinical Internship in Craneomandibular Dysfunction and Oro-Facial Pain.
Endodontics Module: Clinical Internship in Endodontics and Dental Traumatology.

Theoretical – Practical Program

The study plan for the Master's Degree in Advanced Aesthetic Restorative Dentistry is structured over three academic years, during which the student must complete 180 ECTS. The curriculum is designed to offer the student all the necessary skills to become a specialist in advanced aesthetic restorative dentistry.

The current qualification system will be used to assess students.

The 180 ECTS will be distributed over 5 modules. The first two years will include subjects related to the field of aesthetic restorative dentistry, while the third year will include subjects related to laboratory techniques for oral rehabilitation and the fourth year 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

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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

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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.

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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 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 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 assessed in a number of different ways. Continuous assessment will be the main method used.

- In the laboratory sessions, students will be assessed on their direct and personal participation in the activity. Students will be assessed on how well they have acquired the knowledge and skills necessary to handle laboratory equipment in terms of dental and biomedicine materials.
- In the seminars, students will be assessed on their direct and personal participation in the seminars themselves. Students will be assessed on their theoretical, technical and clinical knowledge related to the patient and their pathology. Additionally, students will be evaluated on their ability to solve problems in clinical situations where not all the information is provided, and how clinical cases are presented (ability to communicate, spoken expression and body language, use of bibliographic databases and computer resources, and so on). Clinical cases will be presented in a suitable computer format (like "Microsoft Office PowerPoint Presentation") and will be included on the clinical documentation of each patient. Teaching staff should be able to be consult them at any time.
 - After the FMP has been assessed by the Scientific Committee, the student will be able to defend their Final Master's Degree Project before a panel chosen by the Board.

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Material

In order to study for this master's all students must equip themselves with:

2 Examination set (mirror, sickle probe, pliers)	1 Set Intraoral Mirrors
1 Periodontal probe	1 Camera reflex
1 clamp forceps	Ring-Twin flash
1 Young's arch	Lens Macro min100
1 Rubber dam punch	1 Contraster
2 Clamp No. 1	1 Wax spatula
1 Clamp No. 5	1 Turbine or red contaangle handpiece
1 Composite spatula	1 Contra-angle handpiece blue
1 Clamp No 7	1 Micro-Motor + straight Handpiece
1 Cement spatula	1 PTD drill head (operative dentistry and prosthesis)
2 Clamp No. W8A	1 Veneer kit
2 Clamp No. 212	1 Inlay-Onlay Kit
3 Gold-plated spatulas for composite	1 BOPT technique kit
1 Crown gauge	Drills for straight handpiece
1 Straight Pair of Scissors	1 Set Magnifying Loupes min 3,5 x
1 Scalpel handle/holder	1 Cup for alginate
1 Bone trimmer	1 Spatula for alginate
1 Mosquito forceps - curved	1 Spatula for plaster
1 Complete dental X-Ray series compatible with the system of the University Dental Clinic (CUO)	1 Cup for plaster
1 Mosquito forceps - straight	Set of screwdrivers and ratchet screwdrivers compatible with CUO implants
1 Small spoon excavator	1 Electric spatula for waxing
1 Uniject syringe	1 PKT instrument set

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Articulator Semiadjustable with facebow	1 Lecron spatula / carver
1 Laptop computer (PC/Mac) with WiFi connection	1 Set of heads for hand milling
	1 Bib support chain

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General admission requirements

To be accepted onto the Master's Degree in Advanced Aesthetic Restorative Dentistry, you will require the following:

1. Either a degree in Dentistry, or a degree in Medicine specialising in Dentistry.
 2. To be enrolled on or have completed the MUORE course (Master's Degree in Aesthetic Restorative Dentistry). The access routes are as follows:
 - a) Enrolled on MUORE*: (Must be enrolled on MUORE part time from the 2nd year onwards)
1st year: 60 ECTS MUORE
2nd year: 40 ECTS MUORE + 20 ECTS MREA
3rd year: 20 ECTS (2nd year of MUORE) + 40 ECTS MREA
 - b) If you have completed MUORE: The 120 ECTS for MUORE will be validated, with the student completing the remaining 60 ECTS for MREA.
- All the ECTS completed and passed in the MUORE will be accepted as part of the MREA study plan

Similarly, applicants may be accepted if they hold a degree from education institutions outside the European Area of Higher Education without their degrees being officially approved, if the University deems that the applicant has received an education that is equivalent to official Spanish university degrees and that provides access to postgraduate learning in the country that issued the degree. Access by this means shall not, in any way, imply the recognition of the applicant's previous degree, nor its recognition for any purpose other than studying for the Master's degree. This is all without prejudice to the other entry requirements set out in current legislation or established later with regard to being accepted to study on an official Master's degree course.

3. **A personal interview:** The personal interview will be carried out with the Master's Coordinator and Director. Academic merits will be valued, as well as the ability to work in a team and professional experience.
4. **English test:** This involves reading a text in English and then summarising it. An oral exam (B2 level recommended).

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Admission process:

The admission tests consist of a balanced assessment of your academic record, personal profile, motivations and skills.

Body responsible for admission.

The body responsible for admission is made up of the director of the Master's course, the Master's coordinator and the director of the department. The admission's body decides which students will be admitted based on the considerations detailed above.

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Facilities

UIC Barcelona believes that clinical practice on patients is crucial for training high-level professionals.

The University Dental Clinic is located on university grounds and has:

- 88 booths equipped with state-of-the-art dental technology:
 - 80 general booths.
 - 2 booths for special patient care.
 - 6 surgical booths.

- 5 laboratories:
 - 2 prosthetic dental laboratories with the most up-to-date CAD/CAM units that allow students to apply the latest techniques in all areas of dentistry.
 - 1 dental research laboratory.
 - 1 regenerative medicine laboratory.
 - 1 pre-clinical laboratory with 95 training simulators and digital radiology. This facility allows students to train with augmented reality techniques before treating patients.

- 3 radiology and 3D units for complementary tests with planning programs for both implantology and prosthetics, which give students hands-on experience with the latest technologies.

- Units equipped for live broadcasting of surgical interventions.

- 2 diagnostic imaging rooms for taking panoramic dental X-rays and latero-lateral and posterior-anterior teleradiographies, periapical radiographs and CBCT scans.

- Treatment planning room.

- Smart storage room for delivery and collection of material.

- Sterilisation unit for medical materials and instruments.

- Administrative control software for patients and students.

UIC Barcelona has signed several RDI agreements with manufacturers to strengthen ties between the University and industry.

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Basic information

Calendar

From September 2020 to July 2023 (except the month of August)

Schedule

Dates and times.

Monday to Friday, mornings and afternoons

Pre-registration date

From January 2020

Fees

1st Year

22.031,20 €*

2nd Year

21.472 €*

3rd Year

20.816 €*

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

The price for second and third year (2021-2022 and 2022-2023) has not yet been approved by the University's Board of Governors and is subject to an index-linked increase.

Places available

There are 8 places available

Accreditation

180 ECTS, Master's Degree in Advanced Aesthetic Restorative Dentistry and University Master's Degree in Aesthetic Restorative Dentistry.

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Documentation required for pre-registration

- Pre-enrolment form.
- A certified copy of the relevant undergraduate degree*.
- Transcript of grades (original or certified copy) *.
- Photocopy of National Identity Document (DNI) or passport.
- Receipt for payment of €90 by bank transfer**.
- Curriculum vitae with courses and conferences attended.
- Letter/s of recommendation (not obligatory).

*For students from outside the European Union, both the academic record and degree certificate must be processed through diplomatic channels or bear The Hague Apostille.
Candidates in the last year of their degree programme must provide a list of the qualifications they obtained before their registration date.

**Processing fees are non-refundable

Send to:

Cristina Junquera
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)

Universitat Internacional de Catalunya
Faculty of Dentistry



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Bank details

The fee 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: Paseo de Gracia, 5, 4^a pl. - 08007 BARCELONA

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 Disfunción Craneomandibular y Dolor Orofacial
 Máster en Gerodontología, Pacientes especiales y con compromiso médico

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)