

**COURSE DATA****DATA SUBJECT**

Code: 41092
Name: Clinical odontological research
Cycle: Master's Degree
ECTS Credits: 15
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
2006 - Master's Degree in Dental Sciences	Facultat de Medicina i Odontologia	1	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
2006 - Master's Degree in Dental Sciences	Clinical research in dentistry	COMPULSORY

COORDINATION

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SUMMARY

The second semester of the Master in Odontologic Sciences has a students (doctors and / or dentist) whose formative base already is very wide. Of a side they have received, in his respective masters, a professional training and an enormous baggage of knowledge in his respective scientific fields. The bases of the health as well as the fisiopatología of the disease and the preventive and therapeutic aspects have been widely developed.

On the other hand, in the first semester of the Master they have achieved the aptitudes and capacities demonstrated with the overcoming of the tests of evaluation of the first two modules, in relation to the bases necessary to be able to carry out a scientific work with the methodological desirable guarantees.

It can only, for this second semester, to know so in depth the specific topics in Odontology capable of major investigative need and / or of development, which they might, in outline to orientate the pupils to direct his worries in the field of the investigation. Thus, 15 credits will distribute between four big fields of knowledge that in the current Odonto-stomatology we recognize and that there constitute four Educational Units of



which stomatology's Department consists, and that were busy with developing before the students the new aspects, structural and of development that it encourage the student to implement, on these topics, the learned aptitudes in the modules I and II, and on them base of his knowledge as licenciates.

Thus, the distribution of the credits would be:

-3.5 credits ECTS of Medical - surgical dentistry.

-3.5 credits ECTS of Paediatrics dentistry and Orthodontics.

-3.5 credits ECTS of Conservative and Preventive dentistry

-3.5 credits ECTS of Prostodontics and Occlusion

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

The profile of recommended revenue is Licenciante or grade in Dentistry, Licenciante or grade in medicine and Medical specialists in Stomatology

Previous competences recommended for a better utilization of the master:

Knowledge of English language (level of reading and comprehension of scientific texts in the area of the Sciences of the Health).

Knowledge of computer science to level of advanced user of programs Word, Excel, Acces, PowerPoint.

COMPETENCES / LEARNING OUTCOMES

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Be able to integrate knowledge and handle the complexity of formulating judgments based on information that, while being incomplete or limited, includes reflection on social and ethical responsibilities linked to the application of knowledge and judgments.

Poseer las habilidades de aprendizaje que les permitan continuar estudiando de un modo que habrá de ser en gran medida autodirigido o autónomo

Saber aplicar los conocimientos adquiridos y ser capaces de resolver problemas en entornos nuevos o poco conocidos dentro de contextos más amplios (o multidisciplinares) relacionados con su área de estudio.

Saber comunicar sus conclusiones y los conocimientos y razones últimas que las sustentan a públicos especializados y no especializados de un modo claro y sin ambigüedades.



Ser capaces de trabajar en un grupo de investigación consolidado.

Ser competentes en el desarrollo de las técnicas de investigación propias del ámbito de la Estomatología y la Odontología, así como en la evaluación e interpretación de los resultados obtenidos mediante las mismas.

Ser competentes para la realización del diagnóstico, una vez recogidos los datos clínicos de exploración del paciente y posteriormente elaborar un diseño terapéutico adecuado

To have the ability to choose the more suitable laboratory technique or techniques to deal with the research problem set out.

DESCRIPTION OF CONTENTS

1. INVESTIGATION IN ORAL MEDICINE AND ORAL SURGERY

- Investigation in autoimmune pathology of the mucous oral one and investigation in tumour pathology of the oral cavity.
- Investigation in oral surgery thecnologies.
- Investigation in new anesthesiology contributions.
- Investigation in implantology.
- investigation in odontology special care.
- New aspects of the investigation in periodontal diseases.

2. INVESTIGATION IN PAEDIATRIC DENTISTRY AND ORTHODONTICS

- Investigation of morphological alterations and occlusion.
- Evolution of research and new diagnostic techniques in Orthodontics.
- Methodology of in-vitro research and research in humans in Orthodontics.
- Research in Pediatric Dentistry. New techniques and materials.
- Research in Pediatric Dentistry. Enamel defects and early childhood caries.

3. INVESTIGATION IN RESTORATIVE AND PREVENTIVE DENTISTRY

- Research in the pathophysiology of hard tissues and teeth.
- Research in Preventive and Applied Community Dentistry.
- Evolution and research of application materials in Conservative Dentistry.
- Development and research of new techniques in Conservative Dentistry.
- Research in Cariology.
- Research in Endodontics.



4. INVESTIGATION IN PROSTHODONTICS AND OCCLUSION

- Evolution and research of materials used in Prosthodontics on natural teeth and implants.
- Development and research of new techniques in Prosthodontics on natural teeth and implants.
- Research and development in digital dentistry techniques applied to Prosthodontics.
- Clinical investigation of occlusion pathology and sleep disorders.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	65,00
Laboratory	10,00
Total hours	75,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	20,00
Individual or group project	110,00
Independent study and work	100,00
Preparation of lessons	60,00
Preparation for assessment activities	0,00
Resolution of case studies	0,00
Total hours	290,00

TEACHING METHODOLOGY

The methodology will be: magisterial classes with support of projectors with presentations type power-point, practical classes with computers and diverse devices, classes of laboratory, as well as individual works and in group.

The gender perspective, respect for diversity and the sustainable development goals (SDGs) will be incorporated into teaching, whenever possible.

EVALUATION

The final grade for the course will be obtained by jointly evaluating the four modules of the course taught by the respective teaching units: Research in Medical-Surgical Dentistry, Research in Children's Dentistry and Orthodontics, Research in Restorative and Preventive Dentistry and Research in Prosthodontics and Occlusion.



In the final assessment, attendance to face-to-face classes will be taken into account as well as the participatory attitude of the student in them (10%), together with the assessment of the completion of the proposed work (20%), together with an exam written with 40 multiple choice questions about the contents of the subject (70%).

REFERENCES

- Ortodoncia. Principios y técnicas actuales. Graber; Vanarsdall Vig. Ed. Elsevier (2006).
- Fundamentos de medicina y patología oral. Cawson R.A; Odell E.W. Ed. Elsevier (2009)
- Cariología, prevención, diagnóstico y tratamiento contemporáneo de la caries dental. Zeif R; Bóveda C. Ed. Actualidades médico-odontológicas Latino-americana (1997)
- Periodontología clínica e implantología odontológica. Land; Karring. Ed. Médica-panamericana (2008).
- Odontología preventiva y comunitaria. Principios, métodos y aplicaciones. 3ª edición. Cuenca Sala E.; Baca García P. Ed. Elsevier Masson (2005).
- RECURSOS e-Salut: - ClinicalKey Student Medicina, Odontología y Enfermería. [<https://uv-es.libguides.com/RecursosSalut>]- Acces Medicina. [https://uv-es.libguides.com/Access_Medicina]- Médica Panamericana. [https://uv-es.libguides.com/Medica_Panamericana]