

**COURSE DATA****DATA SUBJECT****Code:** 34734**Name:** Introduction to research into dentistry and the publication and dissemination of results**Cycle:** Undergraduate Studies**ECTS Credits:** 6**Academic year:** 2025-26**STUDY (S)**

Degree	Center	Acad. year	Period
1206 - Degree in Dentistry	Facultat de Medicina i Odontologia	2	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1206 - Degree in Dentistry	Introduction to research in dentistry, publication and dissemination of results	ELECTIVES

COORDINATION

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SUMMARY

It's an optional subject that offers to the student an introductory vision of how the science works in dentistry, and the way of thinking and acting of the science for the acquisition of new knowledge applied to a branch of knowledge with peculiar characteristics like dentistry.

This must stimulate the student's critical thinking, necessary in a world that changes rapidly, and allow him imply with more safety in works of investigation of different type and aim.

The subject is divided in 2 big thematic units that are given by two different departments: Department of Stomatology and the Department of History of the Science and Documentation.

PREVIOUS KNOWLEDGE**RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE**



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

OTHER REQUIREMENTS

It's advisable to have previous knowledge of statistics, managing of computers and capacity for reading scientific papers in English.

COMPETENCES / LEARNING OUTCOMES

1206 - Degree in Dentistry

Conocer, valorar críticamente y saber utilizar las fuentes de información clínica y biomédica para obtener, organizar, interpretar y comunicar la información científica y sanitaria.

Conocer el método científico y tener capacidad crítica para valorar los conocimientos establecidos y la información novedosa.

Promover el aprendizaje de manera autónoma de nuevos conocimientos y técnicas, así como la motivación por la calidad.

Saber compartir información con otros profesionales sanitarios y trabajar en equipo.

DESCRIPTION OF CONTENTS

1. DENTAL RESEARCH

- Topic 1: The scientific method. Causality and confusion. Phases of the investigation.
- Topic 2: Ethics in research.
- Topic 3: Types of studies. Experimental studies and observational studies: cross-sectional, case-control and cohort studies.
- Topic 4: Sampling and sample size. Power of a study.
- Topic 5: Frequency and association measurements. Sensitivity and specificity. Agreement. Survival.
- Topic 6: Design and validation of questionnaires.
- Topic 7: Preparation of a research protocol.
- Topic 8: Evidence-based dentistry (OBE) and critical reading.
- Topic 9: Systematic review and meta-analysis.

Practice: Analysis and interpretation of data using SPSS:

Practice 1: Cross-sectional study.

Practice 2: Analyzing the confusion and the modification of the effect.

Practice 3: Experimental study.

Practice 4: Cohort and survival study.

Practice 5: Diagnostic tests.



Practice 6: Validation of questionnaires.

2. PUBLICATION AND DISSEMINATION OF RESULTS.

Topic 1: The transfer of scientific-technical information.

Topic 2: Scientific information in health sciences.

Topic 3: Databases in health sciences.

Topic 4: Writing and publication of scientific work.

Topic 5: The bibliographic reference.

Topic 6: Open Access to scientific information.

Topic 7: Evaluation and impact of information sources and scientific literature.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	27,00
Computer classroom practice	18,00
Classroom practices	15,00
Total hours	60,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	30,00
Independent study and work	50,00
Preparation of lessons	10,00
Preparation for assessment activities	0,00
Resolution of case studies	0,00
Total hours	90,00

TEACHING METHODOLOGY

Theoretical classes:

The theoretical orientation of the teacher, by means of magisterial participative classes close to the recommended bibliography they constitute practices the base of the constructive learning process of the pupil

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Practical classes: The practical application of the theoretical contents materializes in the accomplishment of several practices with obligatory character. The works, depending on the content can be realized individually or collectively and are submitted to the calendar of presentation established by the teacher. The use of computers is an important prop in the learning of our aims. Practices are realized in the classroom of computer science for the accomplishment of search of scientific information in databases.

Tutorships: The tutorships constitute a weekly space of meeting and debate between the teacher - student with the aim to solve problems of learning during the course.

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

EVALUATION

The evaluation is divided into:

1. Theoretical test (50%): it will consist of a continuous evaluation through questionnaires with multiple choice questions. The questionnaires will evaluate theoretical contents of the two main thematic units of the subject: on the one hand research and on the other, publication and dissemination of results. It is a requirement to answer all the questionnaires and obtain at least a 5 in the average of all. The non-completion of the questionnaires will suppose the failure in the continuous evaluation, having to pass a written test consisting of 50 multiple choice questions with 4 possible answers, of the that only one is correct to pass the course.

2. Practical work (50%): It consists of a series of practical exercises on the subject, individually or in groups. This practical work represents a final 50% and is approved with the completion of all the proposed practices, having to obtain at least a 5 on average. It is mandatory to attend a minimum of 80% of the practices and the presentation of the final work of practices consisting of the realization of a scientific poster and a critical reading.

The final mark is obtained by measuring the theoretical mark and the practical mark. It is a requirement to access the advance call for this subject, that the student has successfully completed all of their practices.

Attendance at practical activities is mandatory. The student is considered to meet this requirement if he or she has attended a minimum of 80% of these activities and has adequately justified the impossibility of attending the remaining sessions due to the occurrence of a cause of force majeure. It will be essential to comply with this requirement to pass the subject.

Students are reminded of the great importance of carrying out evaluation surveys of all the teaching teachers of this subject.



REFERENCES

BASIC

- Argimon Pallàs, J. M. a., & Jiménez Villa, J. (2004). Métodos de investigación clínica y epidemiológica. Barcelona: Elsevier.
- Cordón García, J. A., Alonso Arévalo, J., Gómez Díaz, R., & López Lucas, J. (2012). Las nuevas fuentes de información: información y búsqueda documental en el contexto de la Web 2.0. Madrid: Pirámide
- Cordón García, J. A., López Lucas, J., & Vaquero Pulido, J. R. (1999). Manual de búsqueda documental y práctica bibliográfica. Madrid: Pirámide. -Greenhalgh, T. (2000). Cómo interpretar un artículo médico: fundamentos de la medicina basada en la evidencia (1a ed.). Barcelona: Medical Trends.
- López Yepes, J. coord. (2006). Manual de Ciencias de la Documentación. Madrid: Pirámide. - Martín Vega, A. (1995). Fuentes de información general. Gijón: Trea.
- Ramón Torrell, M. J. (2000). Métodos de investigación en odontología: bases científicas y aplicaciones del diseño de la investigación clínica en las enfermedades dentales. Barcelona: Masson. -Reyes Gómez, F. de los. (2010). Manual de bibliografía. Madrid: Castalia.
- Villa, J. J., Pallàs, J. M. A., Zurro, a. M., Tarrés, M. V., Argimon, J. M., Jiménez, J., & Vilardell, M. (2010). Publicación científica biomédica. Cómo escribir y publicar un artículo de investigación. Barcelona: Elsevier.

e-Health Resources

- ClinicalKey Student Medicina, Odontologia 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]