

29308 - Scientific documents in odontology

Syllabus Information

Academic year: 2023/24

Subject: 29308 - Scientific documents in odontology

Faculty / School: 229 - Facultad de Ciencias de la Salud y del Deporte

Degree: 442 - Degree in Odontology

ECTS: 6.0

Year: 1

Semester: Second semester

Subject type: Optional

Module:

1. General information

The general objective of the subject is to provide the future dentist with the intellectual resources of the human and social sciences applied to the practice of dentistry, as well as the technical resources of the documentary sciences (ICT) that are essential in research and clinical practice.

To introduce the student to the basic methodology of the scientific method, the critical analysis of scientific publications and the methodological aspects necessary to develop a research work.

These approaches and objectives are aligned with the following Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>), such that the acquisition of the learning results of the subject provides training and competence to contribute to some extent to their achievement: o Goal 1: End of poverty.

- Goal 3: Health and Wellness.
- Goal 4: Quality Education.
- Goal 5: Gender Equality.
- Goal 8: Decent Work and Economic Growth
- Goal 10: Reduction of Inequalities
- Goal 16: Peace, Justice and Strong Institutions
- Goal 17: Alliances to Achieve goals.

No specific training is required to take the subject.

2. Learning results

- Understands dentistry in terms of a sociocultural subsystem and knows how to identify and value its constituent elements in any conventional discourse or source of information (press, cinema, scientific journal articles, painting, teaching program, etc.).
- Associates the main models of health care and professional practice to their specific historical context, scientific paradigms and research methods.
- Knows the principles of scientific research in terms of social function and institutional structure, language, methodology and publication standards, as well as the quality criteria and sources of scientific and clinical information currently used.
- Knows and can apply information gathering methods and techniques.
- Knows how to read an original article as the public report of a research, evaluate other types of articles in a medical journal, choose the most appropriate bibliographic database accessible online for a given medical topic, and evaluate the quality of web information provided by search engines such as Google.
- Knows how to pose and solve a simple research problem in the context of a supervised group work, as well as how to prepare a structured written report.

Importance of learning results

The subject contributes to acquire a more precise, complex and critical awareness of the social and professional reality in which students are being trained. Stimulates the dedication to research required in their profession. Provides knowledge to access all the necessary sources that allow them to be continuously updated in a profession that is evolving very fast.

3. Syllabus

PROGRAM OF THEORETICAL CLASSES:

1. Concept of health. Health inequality.
2. Scientific-technological system (R+D+i).

3. Sources of information. Scientific communication. How to search for and use scientific information.
4. Bibliometric indicators and dissemination of publications.
5. Research Methodology I. Models of change and scientific progress.
6. Research Methodology II. Efficient search of scientific literature.
7. Research methodology III. The presentation of the Research Paper.
8. Structure and theory of the medical act. Scientific language and technicalities. The Dental Classification of diseases: ICD-OS
9. Itineraries of health recovery and medical act. Clinical history and research.
10. Health Economics Research. Basic Concepts.

PROGRAM OF PRACTICAL CLASSES:

1. Types of scientific-medical documents and Vancouver standards.
2. Type of journals and type of articles. Structural and methodological analysis of an article.
3. Phases and types of research. Analysis of the material, methods and bibliography of an article. Management programs of bibliographic information.
4. Bibliographic resources of the University of Zaragoza.
5. Spanish bibliographic databases (IBECS, ISOC).
6. International bibliographic databases (PubMed).
7. General search engines (Google) and other databases (WOS/JCR, TrypDatabase, Cochrane)
8. The clinical record. Types of documents and usefulness of the data.

4. Academic activities

The subject has 6 ECTS and is organized as follows:

- Lectures (3 ECTS: 30 hours). Full group sessions of 50 minutes each. The teacher will explain the theoretical contents, which are available beforehand on the Moodle virtual platform.
- Practical sessions (2 ECTS: 20 hours). Sessions where students work on problem-solving tasks or case studies. In small groups, students develop a bibliographical research and write an essay guided by the teacher. At the end of the term, they will submit a written report and perform an oral presentation.
- Autonomous work (1 ECTS: 10 hours). Time dedicated to study the subject contents and prepare the sessions and the assignments.

The schedule of classes and practices, due dates for assignments and other details of the subject will be presented on the first day of class. They will also be available in the Moodle of the subject.

Relevant information regarding schedules and exam calendars can be consulted on the website of the Degree of Dentistry: <https://fccsyd.unizar.es/es/odontologia/grado-en-odontologia>

5. Assessment system

CONTINUOUS ASSESSMENT

- 1.1. EXERCISES: individual multiple-choice activities, questionnaires, short essays and observation notes, which serve to evaluate the assimilation of the basic notions covered in the lectures.
- 1.2. PRACTICE NOTEBOOK: Exercises and questionnaires designed by the teacher, which will serve to guide and evaluate the learning of the analysis of scientific texts and search and analysis of bibliographic or clinical information that have been programmed.
- 1.3. DIRECTED RESEARCH WORK: Writing a paper on a topic chosen during the term: it will evaluate the process of development of the documentation work of each group through written reports and group tutoring sessions of each phase of the work.
- 1.4. FINAL OBJECTIVE TEST: Questionnaire of 30 multiple-choice questions, corresponding to the syllabus of the subject.

SINGLE GLOBAL EVALUATION MODALITY: FINAL EXAM

Planned for those students who have not been able to regularly follow the activities scheduled in the subject. It is a double theoretical-practical test:

1. Theory: 20 multiple-choice questions and the development of 2 topics on the learning objectives of the subject.
2. Practical exercise on how to perform a bibliographic search.