

26706 - Research and new technology

Información del Plan Docente

Academic Year	2017/18
Faculty / School	104 - Facultad de Medicina 229 - Facultad de Ciencias de la Salud y del Deporte
Degree	304 - Degree in Medicine 305 - Degree in Medicine
ECTS	6.0
Year	1
Semester	First semester
Subject Type	Basic Education
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The module consists of three types activities which address three different pedagogic functions. They provide distinct tools to the students because they are based on the following areas of knowledge: scientific method, medical documentation and history of medicine.

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The basics of the three areas are presented -either summarized or explained in depth - in the seminars. The lab sessions allow the students to get to know knowledge management, documentation and scientific communication techniques. Various stages of research are covered in Module Tasks conducted by a teacher, who sets the topic and procedures according to his or her field of expertise. The module tasks are to be developed in small groups of students.

5.2.Learning tasks

Lectures . Their goal is to present topics related to history of health, disease and medical assistance, as well as general or theoretical questions related to the scientific method and medical documentation. Audio visual media and the Internet are used to support the explanations. The lesson schedule can be found on each centre's Moodle website. Thirty one on-hour lessons are taught in Zaragoza, on a three lessons per week basis. Two lessons per week are taught in Huesca.

Lab sessions and computer workshops : Two main types of hands on activities are developed: 1) Observing, quantifying, analysing and valuing scientific of medical media - papers, clinical history records; 2) Getting to know new information and communication technologies (ITC) applied to biomedical research and assistance. Practical exercises are used to guide the sessions, note observations and carry out complementary exercises. They are used by teaches as a mean for evaluating the student's work.

ADD/Moodle . It represents the teacher's standard way to provide learning material and notify changes. Students shall use it to submit the Module Tasks reports, attend on-line personal interviews and get feedback on the evaluation results.

Seminars. These activities allow to apply basic concepts acquired in the seminars or the lab sessions. They also allow the student to get to know the basic techniques for historical or documental research working as a team. They are carried out in small groups conducted by a teacher, depending on the topics proposed by each teacher. The Module Tasks Guide -handled by teachers to each team- will define the method to follow. Questions sessions with the leading teacher will always take place in the afternoons, and their time schedule will be confirmed when necessary. The final presentation of the Module Task results shall be always written. Vancouver style is advised for citing.

5.3.Syllabus

PROGRAM OF THEORETICAL CLASSES: AGENDA

I. Methodology and Documentation

1. Scientific and technological system (I+D+i)
2. Sources of information. Scientific communication
3. Bibliometric indicators and dissemination of publications
4. Methodology of scientific research (I)
5. Methodology of scientific research (II)
6. Methods of collecting information. Surveys
7. Health information systems. Demographic sources
8. Qualitative research: life stories

II. History and theory of medicine

09. Origin and distribution of diseases
10. Historical evolution of health care
11. Structure and function of the hospital: main models
12. Historical genealogy of the health professions
13. Professional profile of the doctor: a gender perspective

14. Models of teaching and learning medicine
15. The morphological sciences
16. The functional sciences
17. The science of pathology and clinical
18. The therapeutic sciences
19. Scientific and social structure of physician-patient relations
20. Scientific language and medical terminology
21. Patterns of the change and progress in science

III. Health system

22. Medicine as social and cultural system
23. Alternative Medicines: scientific and cultural structure
24. Coexistence of medical systems in developed societies
25. Itineraries for recovering health
26. Medical history and research
27. Health concept in Medicine
28. Social inequality and health
29. Rationality and decision making: MBE, guidelines and protocols.
30. Medical registers and social inequality (I)
31. Medical registers and social inequality (II)

PROGRAM WORKSHOPS (2 hours / session)

Methodology and scientific and medical documentation

1. Types of scientific and medical documents and standards Vancouver
2. Types of medical journals. Analysis of the structure of the journal articles
3. Stages and types of research: analysis of the material and methods and bibliography
4. Global analysis of a journal article and bibliographic information management
5. Data processors I: Excel
6. Data processors II: SPSS
7. Bibliographic resources of the University of Zaragoza.
8. Medical databases from Spanish literature
9. International bibliographic databases
10. Scientific impact databases (WOS). Webs' information searchers (Google)
11. Clinical records. Document types and usefulness of the data.

5.4.Course planning and calendar

Each centre (Zaragoza, Huesca) will make public its seminars and lab sessions schedule in the corresponding ADD/Moodle website.

5.5.Bibliography and recommended resources

Zaragoza:

- | | |
|-----------|---|
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García, E. Sánchez Oriz] . - 1ª ed.
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- BB** López Piñero, José María. Introducción a
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- BB** Manual de epidemiología y salud pública
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