

### Información del Plan Docente

Academic Year 2016/17

**Academic center** 201 - Escuela Politécnica Superior

**Degree** 277 - Degree in Environmental Sciences

**ECTS** 6.0

Course

Period Four-month period

Subject Type Optional

Module ---

- 1.Basic info
- 1.1.Recommendations to take this course
- 1.2. Activities and key dates for the course
- 2.Initiation
- 2.1.Learning outcomes that define the subject
- 2.2.Introduction
- 3.Context and competences
- 3.1.Goals
- 3.2. Context and meaning of the subject in the degree
- 3.3.Competences
- 3.4.Importance of learning outcomes
- 4.Evaluation
- 5. Activities and resources

## 5.1.General methodological presentation

The learning methods and strategies designed for the "Scientific and Technical Documentation" course include:

- 1. Lectures. The lectures are designed to provide the students with advanced knowledge about the scientific/technical documentation and the use of bibliographic resources and databases.
- 2. Problem-solving and practical computer room sessions. Within this activity, the students will acquire advanced skills in the use of the most important scientific/technical databases and resources and internet search tools.
- 3. Project. This is a group activity. The students will undertake an exhaustive bibliographic search on a selected topic (preferably regarding Environmental Sciences), elaborate a written report and make an oral exposition.



## 5.2.Learning activities

- 1. Lectures (23 h). The main objetives of each lesson will be highlighted and an interactive environmet will be created for the discussion of the theory contents. The students will have a computer and internet access, in this manner they will follow practical examples.
- 2. Problem-solving and practical computer sessions (25 h). The students will have a computer and internet access. These sessions involve practical exhaustive bibliographic search and open-answer problems.
- 3. Project (12 h). The students will carry out this activity in small groups. The tutor will give the students regular feedback on progress. The project requires the students to construct logical reasoning to communicate efficiently. Teamwork skills will be acquired during this activity.

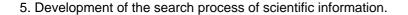
## 5.3.Program

#### **THEORY**

- 1. Scientific and Technical Information: characteristics and techniques
- 2. Types of Scientific and Technical information resources
- 3. Principles and techniques of the representation of scientific documents:
- 1. Documentary Analysis.
- 2. Bibliographic Repertory.
- 4. Network information systems.
- 5. Techniques for data recovery:
- 1. The planning of a search processes
- 2. Terminological approximation.
- 3. Resource and source selection.
- 4. Formulating the query.
- 5. Analysis and assessment of results
- 6. Library Catalogues:
- 1. Collective catalogues.
- 7. Internet Search Tools.
- 1. Directories.
- 2. Search Engines and Metasearch engines.
- 3. Social labelling.
- 8. Sources of scientific and technical information
- 1. Themed Directories.
- 2. Referencial Data Bases.
- 3. Directories of online magazines.
- 4. Institutional.
- 9. Electronic magazines
- 1. Editoriales platforms.
- 2. OpenAccess magazines.
- 10. Quality and productivity of publications and investigations: impact factors.

### **PROGRAM PRACTICALS**

- 1. Identification of types of scientific-technical documents and their components.
- 2. Index keyword proposals.
- 3. Making summaries of scientific documents.
- 4. Considering the necessities of information: identification, terminology and selection of resources.



- 6. Consulting and using with library catalogues.
- 7. Consulting directories.
- 8. Consulting search engines.
- 9. Using systems of social labeling.
- 10. Using themed directories.
- 11. Using referential databases.
- 12 Using magazine directories.
- 13 Consulting institutional respositories.
- 14 Explotación de plataformas de revistas electrónicas. Using electronic magazine platforms
- 15 Magazine search: OpenAccess.
- 16 Carrying out exercises with bibliometric indicators.

# 5.4. Planning and scheduling

Learhing 3 activity /	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
Week Class activities																			64
Lect2res2 2	2		2	2		2	1	2	2		2	2			2				23
Problem2solvand computer room sessions	Žinç	9	2	2		2	3	2	2		2	2			2				25
Project Evaluation Non-presenti	ial					2	1	1	2		2	2			2		4		12 4 86
Self-4stud4y 4	4	4	2	4	4	2	1	1	2	4	2	2	8	8	2	8	4		58
Teamwork TOT&AL 8 8	3	4 8	2 8	4 8	2 6	2 8	2 8	2 8	2 8	4 8	2 8	2 8	8	8	8	8	8		28 150



## 5.5.Bibliography and recomended resources

BB

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Madrid: Pirámide, D.L. 2002

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BC Jesús Tramullas (Coord.) . Zaragoza :

Trea, 2006

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Asociación Profesional de Especialistas

en Información, 2013