60629 - Complementary skills for chemical research

Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	542 - Master's in Chemical Research
ECTS	6.0
Course	1
Period	Annual
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

5.2.Learning activities

Lectures (20 hours), seminars (20 hours) and the preparation of an academic report written in English and its oral presentation (10 hours)

5.3.Program

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1. Finding scientific information:

- Primary and secondary sources (papers, monographs, reviews, ...)
- Searching tools and evaluation of the results.
- Library catalogues
- Databases
- Sources in internet. Downloading full texts
- Databases in the web: Web of Science, Scopus, ScienceDirect,...
- Databases for Chemistry: Beilstein database, Gmelin database, SciFinder, ...
- Databases for Crystallography: CSD, ICSD
- Reference managers
- Patents (Espacenet, European Patent Office (EPO) database,...)

2. Scientific politics: basic aspects, strategic programmes, research projects (preparation and evaluation), grants,...

3. Laboratory security. Regulations. Action protocols.

4. Introduction to the main features of a scientific academic text. Analysis and production of English-written texts on specialised chemistry. Experimental research papers, abstracts and scientific dissemination papers.

5. Introduction to the main features of the academic oral English. Analysis and practice of oral genres on specialised chemistry (short talks and oral presentations).

5.4.Planning and scheduling

5.5.Bibliography and recomended resources

BIBLIOGRAPHY
1. Sos Peña, Rosa. Técnicas de documentación científica: teoría y práctica. Valencia: Promolibro, 1996.
2. J. Oriol Colomer Guillamon, et al, Manual de Seguridad en el laboratorio. Ed. CARL ROTH SL, 2002, Barcelona.
3. Armer, Tamzen, Cambridge English for Scientists. Cambridge: Cambridge University Press, 2011.
4. Real Academia de Ciencias Exactas, Físicas y Naturales, 1996, Vocabulario Científico y Técnico. Madrid: Espasa.