

Course guide

33101 - EMRARN - Methodological Tools for Research on Natural Resources

Last modified: 04/05/2023

Unit in charge: Manresa School of Engineering
Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering.
Degree: MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2015). (Compulsory subject).
Academic year: 2023 **ECTS Credits:** 5.0 **Languages:** Spanish

LECTURER

Coordinating lecturer: FRANCESC XAVIER DE LAS HERAS CISA

Others: Personal de biblioteca de la BCUM.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

3. Capacity to use the scientific and technical information to respond efficiently to any demand of the preparation of an analytical method for the characterization of a natural or anthropogenic material.

Generical:

1. The ability to communicate effectively orally and in writing.
2. The ability to take the initiative and be creative.

TEACHING METHODOLOGY

Students must attend scheduled face-to-face classes. Practical exercises carried out on a regular basis and a bibliographic research assignment related to the content of the subject will be assessed.

Students taking this subject are assessed as described below.

- Reading and comprehension of the content of the subject and activities: 20% of the final mark
- Assignment: 80% of the final mark

LEARNING OBJECTIVES OF THE SUBJECT

To supply specialised tools to access the information sources that students need to carry out an engineering research assignment. It's a practical course that aims to help students who wish to carry out research with their bibliographic research, so that they can provide full, rigorous and current information.

STUDY LOAD

Type	Hours	Percentage
Hours medium group	15,0	33.33
Hours large group	30,0	66.67

Total learning time: 45 h

CONTENTS

1. Introduction

Description:

Digital identity. The value of research. The value of information in the research process. The Library

Full-or-part-time: 7h

Theory classes: 3h

Self study : 4h

2. Scientific communication

Description:

Types of scientific documents. Reference management. Search strategy. Search tools

Full-or-part-time: 30h

Theory classes: 12h

Self study : 18h

3. Information resources in the natural resources scope

Description:

Open access source. Databases (Scopus, WoS)

Full-or-part-time: 37h

Theory classes: 15h

Self study : 22h

4. Written communication

Description:

Readability. Text creation. Textual markers. Written efficiency improvement of the scientific paper.

Full-or-part-time: 15h

Theory classes: 6h

Self study : 9h

5. Oral communication

Description:

Verbal communication. Non-verbal communication

Full-or-part-time: 7h

Theory classes: 3h

Self study : 4h

ACTIVITIES

Title of the activity 1: Individual exam

Description:

Individual exams in the classroom to assess theoretical concepts and problem solving related with the content of the subject

A) Continuous assessment

Exam 1: Contents 1 & 2 (20% final score)

Exams 2 & 3: Content 3 (2 parts, 40% final score)

Exam 4: Content: 4 (25% final score)

Exam 5: Content: 5 (15% final score)

B) Unique Exam lasting 6 h will be done: Contents from 1 to 5

Specific objectives:

To understand the theoretical concepts of the related contents

Material:

Statements

Delivery:

Solving the exams and writing the results

Full-or-part-time: 23h

Theory classes: 9h

Self study: 14h

GRADING SYSTEM

Students taking this subject are assessed as described below.

- Reading and comprehension of the content of the subject and activities: 20% of the final mark
- Exam results: 80% of the final mark

Students must attend exams and hand in assignments to be assessed.

EXAMINATION RULES.

- Class attendance
- Carrying out individual exams

BIBLIOGRAPHY

Basic:

- Cordon García, José A. Las nuevas fuentes de información: la búsqueda informativa, documental y de investigación en el ámbito digital. Madrid: Pirámide, 2016. ISBN 9788436836455.
- Rubió, J.; Puigpelat, F. Com parlar bé en públic. Barcelona: Mina, 2010. ISBN 8473065867.
- Cassany, Daniel. La cuina de l'escriptura. Barcelona: Empúries, 1993. ISBN 8475963994.
- Cassany, Daniel. Afilar el lapicero: guía de redacción para profesionales. 2a ed.. Barcelona: Anagrama, 2013. ISBN 9788433977236.