



## Course guides

# 33101 - EMRARN - Methodological Tools for Research on Natural Resources

Last modified: 25/06/2020

**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 2009). (Compulsory subject).  
MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2015). (Compulsory subject).  
MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2008). (Compulsory subject).

**Academic year:** 2020    **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 large group	30,0	66.67
Hours medium group	15,0	33.33

**Total learning time:** 45 h



## CONTENTS

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### 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

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### 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

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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.

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- Class attendance
- Carrying out individual exams

## BIBLIOGRAPHY

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**Basic:**

- Cordon García, José A.. Las Nuevas fuentes de información: la búsqueda informativa, documental y de investigación en el ámbito digital. 1a. Madrid: Pirámide, 2016. ISBN 9788436836455.
- Cassany, D. La cocina de la escritura. Barcelona, 1995. ISBN 8475969135.
- Rubió, J.; Puigpelat, F. Com parlar bé en públic. Barcelona: Mina, 2010. ISBN 8473065867.
- Cassany, Daniel. Afilar el lapicero : guía de redacción para profesionales. barcelona: Anagrama, 2007. ISBN 9788433962621.