

## 60443 - Master's Dissertation

### Syllabus Information

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**Academic year:** 2023/24

**Subject:** 60443 - Master's Dissertation

**Faculty / School:** 100 - Facultad de Ciencias

**Degree:** 541 - Master's in Geology: Techniques and Applications  
624 - Master's in Geology: Techniques and Applications

**ECTS:** 12.0

**Year:** 1

**Semester:** Annual

**Subject type:** Master Final Project

**Module:**

### 1. General information

The main objective of this subject is for the student to apply the concepts, methods and techniques developed during the master's degree in a specialized work of a personal nature.

In short, the aim is to introduce the student to the world of scientific research, if possible through their integration in an existing research group (through their tutor), or in the world of applied geology, through the application of specific techniques to solve specific geological problems.

It is intended that the student becomes familiar with the scientific method and is able to face new problems with autonomy and independence, acquiring the necessary theoretical and practical knowledge on a geology topic, and is able to do the work with rigor and critical sense.

SDG 4

### 2. Learning results

Upon completion of the subject, the student will be able to:

- Design and develop a geology work with autonomy.
- Know the basic aspects, both theoretical and practical, related to the chosen topic of work.
- Know how to structure a work in a coherent way.
- Use the techniques learned in the master for the total or partial solving of a problem.
- Analyse the data obtained through the application of different techniques and transmit and argue the interpretations generated from them.
- Express their knowledge in a written report and defend it orally before an expert audience.

### 3. Syllabus

The master's final project (MFP) does not have a specific program or classroom teaching per se. However, in order for students to have a clear idea of the possible topics for a MFP, all students are provided with a list of the lines of research in which the MFP can be framed. The list is arranged alphabetically by line of research. Within each line, the researchers working on it and the centre or company where they work are listed. The list can be found in section 4 of the following page:

<https://cienciatierra.unizar.es/docencia/master-universitario-en-geologia-tecnicas-y-aplicaciones>

### 4. Academic activities

The activities of each MFP are included in the project's proposal that the directors must submit before November 15 of each academic year. Such proposals are reviewed by the Quality Assurance Committee.

The complete list of proposals is accessible through the Department of Earth Sciences website:

<https://cienciatierra.unizar.es/docencia/master-universitario-en-geologia-tecnicas-y-aplicaciones>

### 5. Assessment system

The student must have passed the 48 ECTS corresponding to the rest of the subjects of the master's degree in order to be able

to defend the MFP. The topic of the work chosen for the MFP must be endorsed by a tutor.

For the assessment of the work, the student must submit a manuscript, in Spanish or English, describing the objectives and interest of the work, the methodology followed, the results obtained and the conclusions. The report must meet the following length and format requirements (not including appendices):

Number of pages: 25-60.

Typeface: Times New Roman, 12 point.

Line spacing: 1.5 lines.

Margins: 3 cm (bottom, top, left, right).

Numbered pages.

This report will be graded from 0 to 10 and will represent 80% of the final grade of the subject.

The oral presentation and defence of the MFP will be in front of a board of examiners in Spanish or English. The recommended duration is 20 minutes and in no case should it exceed 30 minutes. The presentation will be followed by a question-and-answer session with the board of examiners. The presentation and the answer to the questions posed by the board of examiners will be graded from 0 to 10 and will account for 20% of the final grade. Only the work presented will be assessed and not the student's curriculum. Both the assessment of the report and the defence will be carried out by means of a rubric, which can be consulted on the web page of the Department of Earth Sciences.