

## 66713 - Environmental planning field techniques and case solving

### Syllabus Information

**Academic year:** 2024/25

**Subject:** 66713 - Environmental planning field techniques and case solving

**Faculty / School:** 103 - Facultad de Filosofía y Letras

**Degree:** 328 - Master's in Land and Environmental Planning

**ECTS:** 6.0

**Year:** 1

**Semester:** Annual

**Subject type:** Optional

**Module:**

### 1. General information

The master's degree provides advanced training for academic, research and professional competence. The subject responds to these three types of competence, since field techniques and environmental problem solving can be developed in the teaching, research and professional activity linked to environmental consulting and planning of the natural environment. Thus, the main objectives of the subject are:

- To present and analyse different environmental issues.
- To manage experimental techniques in the field that are appropriate to the cases.
- To perform statistical and/or cartographic processing of the information obtained in the field.
- To apply the results obtained in the planning of the natural environment.

These goals are aligned with the following SDGs: 6 (Objectives 6.4, 6.5, 6.6. A), 9 (9.5 and 9.A), 13 (13.1 and 13.3) and 15 (15.1, 15.2, 15.4, 15.5 and 15.9).

### 2. Learning results

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

- Select the appropriate field techniques to solve specific environmental problems.
- Design the methodological process to carry out the experimental work in the field.
- Characterize and analyse environmental processes.
- Provide solutions to environmental problems, from the treatment of experimental data, and integrate them in the planning of the natural environment.
- Skilfully handle experimental instrumentation in the field.
- Select, handle and interpret thematic environmental cartography and other planning tools.
- Interpret data extracted in the field and provide a diagnosis of different environmental problems.

### 3. Syllabus

Topic 0. Presentation.

Topic 1. Field techniques for the analysis of hydro-geomorphological processes in semi-arid environments in environmental planning.

Topic 2. Field techniques for the analysis of hydrogeographic processes in environmental planning.

Topic 3. Field techniques for the analysis of biogeographic and dendrochronological processes in environmental planning.

Topic 4. Field techniques for the analysis of geomorphological processes in mountain environments in the planning of the natural environment.

Topic 5. Field techniques for the location, measurement and georeferencing of natural processes in environmental planning.

### 4. Academic activities

The subject is based on an eminently experimental learning process, with theoretical classes (expository sessions in the classroom in which different work techniques and their application to the resolution of environmental problems are presented), practical classes in the classroom (for the computerized and/or cartographic treatment of field information), field work in which the selection of environmental elements/factors/processes to be analysed is specified and experimental techniques and thematic cartographies related to environmental problems are handled. There is also a debate on the results obtained as well as a planning proposal. This is in addition to personal study and assessment tests.

### 5. Assessment system

## **FIRST CALL**

### *a)Continuous assessment system*

Test 1: Active participation in the theoretical-practical sessions developed in the classroom, laboratory-cabinet or field. It will represent 10% of the final valuation. Assessment criteria: attention and active participation in the different learning activities.

Test 2: Preparation of a practical dossier based on the use of the main field techniques and the processing and analysis of the data obtained. The dossier will also include a report of the work carried out in the field. It represents 90% of the final grade of the subject. Assessment criteria: precision in the use of the techniques, scientific rigor in the treatment and analysis of the data, clarity in the presentation of the results obtained with the technique, good presentation of the written text as well as the graphic and cartographic material in the dossier.

### *b)Global assessment test*

Written exam (10%) and delivery of a practical dossier (90%). Criteria identical to those of the continuous assessment system.

## **SECOND CALL**

### *a)Global assessment test*

Written exam (20%) and delivery of a practical dossier (80%).

## **6. Sustainable Development Goals**

6 - Clean Water and Sanitation

13 - Climate Action

15 - Life on Land