

## 66713 - Environmental planning field techniques and case solving

### Syllabus Information

**Academic Year:** 2019/20

**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

#### 1.1.Aims of the course

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#### 1.2.Context and importance of this course in the degree

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#### 1.3.Recommendations to take this course

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### 2.Learning goals

#### 2.1.Competences

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#### 2.2.Learning goals

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#### 2.3.Importance of learning goals

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### 3.Assessment (1st and 2nd call)

#### 3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

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### 4.Methodology, learning tasks, syllabus and resources

#### 4.1.Methodological overview

The methodology followed in this course is oriented towards achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as participative sessions, practical exercises, individual or group activities, guided activities, field work and autonomous work.

Students are expected to participate actively in the class throughout the course.

Classroom materials will be available via Moodle. These include a repository of the lecture notes used in class, the course syllabus, as well as other course-specific learning materials, including a discussion forum.

## 4.2. Learning tasks

The course includes the following learning tasks:

- Lectures: 10 hours
- Practical, interactive, individual or group activities: 10 hours
- Guided activities: 10 hours
- Field work: 30 hours

## 4.3. Syllabus

The course will address the following topics:

Introduction: presentation of the course

Topic 1. Field techniques for the analysis of hydro-geomorphological processes in semiarid areas and the natural environment planning.

Topic 2. Field techniques for the analysis of hydro-geographical processes and the natural environment planning.

Topic 3. Field techniques for the analysis of biogeographical and dendrochronological processes and the natural environment planning.

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

Topic 5. Field techniques for locating, measuring and georeferencing of natural processes in relation to the natural environment planning.

## 4.4. Course planning and calendar

The course is divided into five topics. Each topic includes both lecture sessions and practical activities. Each topic runs during three sessions (2 hours/session) of the semester. In April/May the students and lecturers will have a field trip (three days in the field). Academic activities and sessions will finish after the written exam (theoretical part) takes place. Lectures and practical activities take place in a classroom with capacity for 18 students, 12 computers with Internet access, projector and blackboard.

Field work will take place in different parts of the Aragonese geography with appropriate physical tools and previous field experience (cartography, publications, reports, etc.)

- The hydromorphology field will be developed in two nearby rivers but with different dynamics.
- Field work referred to dendrochronology be held in ravines (dendrogeomorphology) and forests (dendroecology) from the Zaragoza's environment.
- The application of field techniques in biogeography will be held in several representative ecosystems of the Aragonese territory, with data and previous field experience.

## 4.5. Bibliography and recommended resources

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