

## 66704 - Global change and management of natural risks

### Información del Plan Docente

<b>Academic Year</b>	2016/17
<b>Academic center</b>	103 - Facultad de Filosofía y Letras
<b>Degree</b>	328 - Master's in Land and Environmental Planning
<b>ECTS</b>	6.0
<b>Course</b>	1
<b>Period</b>	Annual
<b>Subject Type</b>	Optional
<b>Module</b>	---

### **1.Basic info**

#### **1.1.Recommendations to take this course**

#### **1.2.Activities and key dates for the course**

### **2.Initiation**

#### **2.1.Learning outcomes that define the subject**

#### **2.2.Introduction**

### **3.Context and competences**

#### **3.1.Goals**

#### **3.2.Context and meaning of the subject in the degree**

#### **3.3.Competences**

#### **3.4.Importance of learning outcomes**

### **4.Evaluation**

### **5.Activities and resources**

#### **5.1.General methodological presentation**

The learning and teaching methodology developed in the course is aimed to promote the attainment of its objectives. A wide range of teaching and learning activities is implemented, such as interactive lessons, practical exercises, individual or group activities, directed activities, field work and private study.

A high level of student participation will be required from all students throughout the course.

Extensive material will be available *via* the Moodle site of the course. This offers a variety of resources including a

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repository of the lecture notes used in class, a course syllabus as well as other forms of course-specific materials, including a discussion forum.

### 5.2.Learning activities

Lecture sessions: 25 hours

Practical activities: Interactive, individual or group activities: 25 hours

Directed activities: 34 hours

Field work: 10 hours

Private study: 50 hours

Assessment: 3 hours

### 5.3.Program

Block I. GLOBAL CHANGE

Theme 1. The quaternary frame. Past climate changes

Theme 2. The instrumental period

Theme 3. Change scenarios and environmental impacts

Block II. NATURAL HAZARDS

Theme 4. Types and Risk Management

Theme 5. Climate risks

Theme 6. Hydrological risks

Theme 7. Avalanche risk

### 5.4.Planning and scheduling

The course is divided into two thematic blocks. The first block includes the following themes: 1, 3, and 3. The second thematic block includes the themes 4, 5, 6 and 7.

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For further details concerning the timetable, classroom and other information of the course please refer to the

"Facultad de Filosofía y Letras" web site (<https://fyl.unizar.es/horario-de-clases#overlay-context=horario-de-clases>)

### 5.5. Bibliography and recommended resources

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- Domonkos, P., Venema, V. Auer, I., Mestre, O. y Brunetti, M., ¿The historical pathway towards more accurate homogenization?, Advanced Scientific Research, núm. 8, 2012, p. 45-52
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