

**Información del Plan Docente**

<b>Academic Year</b>	2017/18
<b>Faculty / School</b>	103 - Facultad de Filosofía y Letras
<b>Degree</b>	419 - Degree in Geography and Land Management
<b>ECTS</b>	6.0
<b>Year</b>	4
<b>Semester</b>	First semester
<b>Subject Type</b>	Compulsory
<b>Module</b>	---

**1.General information****1.1.Introduction****1.2.Recommendations to take this course****1.3.Context and importance of this course in the degree****1.4.Activities and key dates****2.Learning goals****2.1.Learning goals****2.2.Importance of learning goals****3.Aims of the course and competences****3.1.Aims of the course****3.2.Competences****4.Assessment (1st and 2nd call)****4.1.Assessment tasks (description of tasks, marking system and assessment criteria)****5.Methodology, learning tasks, syllabus and resources****5.1.Methodological overview**

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.

### 5.2.Learning tasks

Lecture sessions: 10 hours

Practical activities: Interactive, individual or group activities: 42 hours

Directed activities: 30 hours

Field work: 14 hours

Private study: 57 hours

Assessment: 3 hours

### 5.3.Syllabus

1. NATURAL ENVIRONMENT AS INTEGRATED SYSTEM

2. FACTORS: topography, climate, lithology, vegetation cover, topography and drainage network

3. ELEMENTS: interannual variation, seasonal variation of discharge, floods, droughts.

### 5.4.Course planning and calendar

The course is divided into 3 thematic blocks. The first block includes the theme 1; it runs during the first week of the term. The second thematic block includes the theme 2 and runs during the following nine weeks. The third block covers the theme 3 and develops during the final five week of the course.

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

DAVIE, T. (2006) : *Fundamentals of Hydrology*. 3ª edición. 169 p. Routledge. Londres.

GUAITA, N. y LANDA, L. (2008): *Agua y sostenibilidad: Funcionalidad de las cuencas*. 205 p. ExpoZaragoza 2008 - Observatorio de la Sostenibilidad en España (OSE) - Ministerio de Medio Ambiente y Medio Rural y Marino.

## 28329 - Integrated Analysis of the Natural Environment

MARTINEZ DE AZAGRA, A. y NAVARRO, J. (1995): *Hidrología Forestal*. Universidad de Valladolid.

PETTS, G. E. y AMOROS, C. (1996): *The fluvial hydrosystem*. Chapman & Hall. London.

SENCIALES, J.M. (1999): *Redes fluviales. Metodología de análisis*. Estudios y Ensayos, 34. 337 p. Universidad de Málaga.