

28329 - Integrated Analysis of the Natural Environment

Información del Plan Docente

Academic Year	2016/17
Academic center	103 - Facultad de Filosofía y Letras
Degree	419 - Degree in Geography and Land Management
ECTS	6.0
Course	4
Period	First semester
Subject Type	Compulsory
Module	---

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.

5.2.Learning activities

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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.Program

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.Planning and scheduling

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.

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

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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.