

Academic Year/course: 2022/23

28329 - Integrated Analysis of the Natural Environment

Syllabus Information

Academic Year: 2022/23

Subject: 28329 - Integrated Analysis of the Natural Environment

Faculty / School: 103 - Facultad de Filosofía y Letras

Degree: 419 - Degree in Geography and Land Management

ECTS: 6.0

Year: 4

Semester: First semester

Subject Type: Compulsory

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

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 lectures, practical exercises, individual and group tasks, guided tasks, field work, autonomous work and study.

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

4.2. Learning tasks

The course includes the following learning tasks:

- Lectures (20 hours)
- Individual and/or group tasks (34 hours)
- Field work (6 hours)
- Autonomous work and study (84 hours)
- Assessment tasks (6 hours)

4.3. Syllabus

The course will address the following topics:

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.

4.4. Course planning and calendar

The course is divided into 3 sections. The first section includes topic 1; it runs during the first week of the semester. The

second section includes topic 2 and runs during the following nine weeks. The third section covers topic 3 and is developed during the final five week of the course.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the 'Facultad de Filosofía y Letras' website (<https://fyl.unizar.es/horario-de-clases#overlay-context=horario-de-clases>)

4.5. 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.
- 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.