

Academic Year/course: 2022/23

28335 - Natural Risks Analysis

Syllabus Information

Academic Year: 2022/23

Subject: 28335 - Natural Risks Analysis

Faculty / School: 103 - Facultad de Filosofía y Letras

Degree: 419 - Degree in Geography and Land Management

ECTS: 6.0

Year:

Semester: Second semester

Subject Type: Optional

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.

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.

4.2. Learning tasks

The course includes the following learning tasks:

- Lectures (30 hours)
- Interactive, individual and/or group tasks (18 hours)
- Guided tasks (20 hours)
- Field work (12 hours). It is done in groups at the beginning of April (topic 3) and in the middle of May (topic 5).
- Autonomous work and study (64 hours)
- Assessment tasks (6 hours)

4.3. Syllabus

The course will address the following topics:

1. Analysis and management of natural risks: basic concepts, typology of risks, methodologies of analysis, management principles, forecast and prevention, natural risks and land management.
2. Meteorological and climatic risks: extreme temperatures, rainfall, drought, wind.

3. Hydrological risks: floods, extreme marine processes.
4. Risks from internal geodynamics: volcanoes, earthquakes, tsunamis.
5. Risks from external geodynamics: avalanches, slope processes, subsidences, other geomorphic processes.
6. Other natural risks: cosmic, physical, chemical and biological.

4.4. Course planning and calendar

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

<http://psfunizar7.unizar.es/br13/eBuscar.php?tipo=a>