

26431 - Geomorphological and Geoenvironmental Mapping

Información del Plan Docente

Academic Year	2018/19
Subject	26431 - Geomorphological and Geoenvironmental Mapping
Faculty / School	100 - Facultad de Ciencias
Degree	296 - Degree in Geology
ECTS	5.0
Year	4
Semester	Second semester
Subject Type	Optional
Module	---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. It favors the production of geomorphological and geoenvironmental mapping. A wide range of teaching and learning tasks are implemented, such as practice sessions, field work and 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 the course syllabus, a repository of complementary mapping information and aerial photographs used in class, as well as other course-specific learning materials.

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Further information regarding the course will be provided on the first day of class.

4.2.Learning tasks

This is a 5 ECTS course organized as follows:

* Practice sessions (3 ECTS: 30 hours). Three-hour sessions that take place every week in room 7 (Building C) aimed to produce geomorphological, active processes and homogeneous land units mapping documents. Students are provided in advance with task guidelines for each session.

* Field work (1 ECTS: 10 hours). Five-hour sessions that take place on the field aimed to i) the recognition of the local landscape including both erosive and accumulative landforms, ii) the description of surficial geological deposits and iii) the identification of active geomorphic processes. Students are provided in advance with task guidelines for each session.

Selected study area is located in the Iberian Range, Ebro Basin or Pyrenees.

* Autonomous work (1 ECTS: 10 hours). This learning task is aimed to study of regional and thematic papers and to prepare the final geomorphological and geoenvironmental report. This report will be evaluated in the case of classroom teaching.

4.3.Syllabus

The course will address the following topics:

Practical sessions

Topic 1. Geomorphological mapping

Topic 2. Geomorphic processes mapping

Topic 3. Homogeneous geomorphic land units mapping

Topic 4. Introduction to ArcGIS software use

Field work

Topic 5. Geomorphological field work in the study area

4.4.Course planning and calendar

This course is a first semester course. Classes will start the first academic week.

Students can refer to the Faculty of Sciences and Earth Sciences Department websites (<https://ciencias.unizar.es>;

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<https://cienciatierra.unizar.es/>) for timetable, classroom or assessment dates.

Further information regarding this course (examination, individual or group assignments...), will be provided on the first day of class.

Dates for each field trip will be published at the Earth Sciences Department website.

Tutorials: Office hours will be also provided the first day of class.

Provisional course planning:

* Week 1: topic 1

* Week 2: topic 1

* Week 3: topic 1

* Week 4: topic 1

* Week 5: topic 1

* Week 6: topic 2

* Week 7: topic 3

* Week 8: topic 4

* Week 9: topic 4

* Week 10: topic 4

* Fieldtrip 1: topic 5

* Fieldtrip 2: topic 5

4.5. Bibliography and recommended resources