

28302 - Geomorphology

Syllabus Information

Academic year: 2024/25

Subject: 28302 - Geomorphology

Faculty / School: 103 - Facultad de Filosofía y Letras

Degree: 419 - Degree in Geography and Land Management

ECTS: 6.0

Year: 1

Semester: First semester

Subject type: Basic Education

Module:

1. General information

Relief is considered as the dynamic scenario in which the relationships between the different elements and factors that make up the territory develop.

Specific goals are to know the fundamentals, concepts and methods for relief analysis.

Sustainable Development Goals (SDGs):6 (target 6.6), 12 (target 12.2), 13 (target 13.3), 15 (targets 15.1, 15.2, 15.3, 15.4, 15.5 and 15.9), 17: Partnerships to achieve objectives (targets 17.6 and 17.7)

The subject initiates the student in the general geographic knowledge that tries to lay the foundations of the different elements of the territory.

The knowledge of the relief is necessary to understand and approach the geographical relationships that are established in a specific territory and that are addressed in other subjects.

2. Learning results

The student, in order to pass this subject, must demonstrate the following results... To interpret the relief as an element that is part of the territory, where other geographic facts, both physical and human, are permanently related. To emphasize the dynamic character of the relief, whose changes present different spatial and temporal scales. Explain the different factors - endogenous and exogenous - that condition the genesis and modeling of the terrestrial relief. Differentiate the basic stages of development of geomorphological science. Interpret the geological map and aerial images as a working tool for relief analysis.

3. Syllabus

Unit 1.- Geomorphology, the science of relief.

Unit 2.- Planet Earth and Geodynamics.

Unit 3.- Terrestrial materials.

Unit 4.- Deformations of the Earth's Crust

Unit 5.- Structural reliefs and tectonic devices

Unit 6.- Reliefs and lithological substratum

Unit 7.- Weathering.

Unit 8.- Morphogenetic processes on slopes.

Unit 9.- Morphogenetic processes in watercourses.

Unit 10.- Climatic Geomorphology.

Unit 11.- Glacial and periglacial modeling.

Unit 12.- Wind modeling in hot deserts

Unit 13.- Coastal modeling.

Environmental geomorphology

4. Academic activities

* Theoretical sessions, in the form of master classes in the classroom, where the contents of the program are developed, preceded by downloading of teaching material from moodle.

* Practical laboratory sessions.

* Field practices.

* Personal study.

* Evaluation tests.

5. Assessment system

I Call for Proposals

Global assessment test

- Completion of a learning questionnaire, similar to a conventional exam (60%). Criteria: correctness of content and written expression.
- Delivery of an individual report on the field work (20%). Criteria: correct presentation of the contents and graphic material.
- Delivery of a review of a Geomorphology manual (5%). Criteria: synthesis capacity and correctness of the contents.
- Delivery of a team commentary (2-4 people) of a geological map and aerial photographs (15%). Criteria: teamwork and tool handling skills

II Call for Proposals

Global assessment test

Identical to the first call.

6. Sustainable Development Goals

6 - Clean Water and Sanitation

15 - Life on Land

17 - Partnerships for the Goals