

28316 - Physical Geography for Land Management I: Relief and Living Creatures

Syllabus Information

Academic year: 2023/24

Subject: 28316 - Physical Geography for Land Management I: Relief and Living Creatures

Faculty / School: 103 - Facultad de Filosofía y Letras

Degree: 419 - Degree in Geography and Land Management

ECTS: 6.0

Year: 2

Semester: Second semester

Subject type: Compulsory

Module:

1. General information

Goal of the subject: to acquire skills in techniques and methods (field and cartographic) for the study of processes and dynamics of the physical environment (relief and living beings), aligned with the Sustainable Development Goals (SDGs): Goal 6 (Goal 6.6), 12 (Goal 12.2), 13 (Goal 13.3), 15 (Goals 15.1, 15.2, 15.3, 15.4, 15.5 and 15.9).

Context and meaning of the subject in the degree: in relation to the planning of the physical environment, acquiring skills to interpret and relate the different elements and interact with other environmental disciplines.

Recommendations to take the course: to have taken subjects of the first course, and first semester of the second course, having passed the subjects related to the subject: Physical environment, Module: Tools and techniques

2. Learning results

In order to pass this subject, the students shall demonstrate they have acquired the following results:

- Define, explain and apply the general contents and essential concepts of Geomorphology.
- Define, explain and apply the general contents and essential concepts of Biogeography.
- Interpret and correctly apply field work methods in Geomorphology.
- Interpret and correctly apply fieldwork methods in Biogeography.
- Handle cartographic and statistical techniques for the analysis and quantification of distribution processes and geomorphological dynamics.
- Manage cartographic and statistical techniques for the analysis and quantification of distribution processes and biogeographic dynamics.
- Search and analyze basic information about landforms and living things.
- Interpret and adequately evaluate the different sources of information on relief and living beings
- Contextualize geomorphological and biogeographical information in the context of land use planning and the problems of today's society.

3. Syllabus

Block 1: Fieldwork methods in geomorphology and biogeography

1.1. Fieldwork methods in biogeography Introduction to plant anatomy and basic concepts of taxonomy Initiation to the use of botanical keys, species determination

Inventory methods and transects

1.2. Fieldwork methods in geomorphology

Methods and techniques for collecting information on geomorphological processes

Practical field trip to recognize morphologies and field techniques in Geomorphology

Block 2. Thematic geomorphologic and biogeographic mapping for management

2.1- Mapping of plant communities

2.2- Geomorphological mapping

Block 3: Field data analysis and interpretation

3.1- Statistical treatment and representation of field data

3.2- Interpretation of field data and its usefulness for management

4. Academic activities

Teaching-learning process:

Practical development, beginning with methodological sessions on how to carry out the work necessary to pass the subject.

It will continue with face-to-face activities in the computer classroom and laboratory for the resolution of problems and cases, complemented with special practices for the correction of cartographies, identification of geomorphological forms and processes, soils, inventory and biogeographical census.

It comprises the following activities:

Master Class

Problem solving and cases

Laboratory practices

Papers

Special practical classes

Assessment

Personal study.

5. Assessment system

I Call for Proposals

a) Continuous assessment system

Test 1. Individual delivery of thematic cartographies (25% of the grade).

Test 2. Individual report of the field work (25% of the grade).

Test 3. Final individual report on the results and conclusions of the practical study (50% of the grade).

Global assessment test

Test 1. Individual delivery of thematic cartographies (25% of the grade).

Test 2. Individual report of the field work (25% of the grade).

Test 3. Final individual report on the results and conclusions of the practical study (50% of the grade).

Assessment criteria

Correction of the proposed evaluation tests, taking into account both the development and structuring of contents, as well as their formal presentation, demonstrating an understanding of the processes and dynamics observed in the practical study.

II Call for Proposals

Test 1. Individual delivery of thematic cartographies (25% of the grade).

Test 2. Individual report of the field work (25% of the grade).

Test 3. Final individual report on the results and conclusions of the practical study (50% of the grade).

Assessment criteria

Correction of the proposed evaluation tests, taking into account both the development and structuring of contents, as well as their formal presentation, demonstrating an understanding of the processes and dynamics observed in the practical study.