Universitat de Lleida

DEGREE CURRICULUM

PHYSICAL GEOGRAPHY

Coordination: BATALLA VILLANUEVA, RAMON J.

Academic year 2021-22

PHYSICAL GEOGRAPHY 2021-22

Subject's general information

Subject name	PHYSICAL GEOGRAPHY
Code	101161
Semester	2nd Q(SEMESTER) CONTINUED EVALUATION
Typology	

Degree	Course	Character	Modality
Bachelor's Degree in Geography	1	COMMON	Attendance-based
Double degree: Bachelor's degree in Geography and Bachelor's degree i Tourism	1	COMMON	Attendance-based

Course number of credits (ECTS)	6
Type of activity, credits, and groups	

Activity type	PRAULA	TEORIA
Number of credits	0.5	5.5
Number of groups	1	1

Coordination	BATALLA VILLANUEVA, RAMON J.
Department	ENVIRONMENT AND SOIL SCIENCES
Teaching load distribution between lectures and independent student work	- Face-to-face teaching (classroom or online): 60 hours - Student's autonomous work: 90 hours
Important information on data processing	Consult this link for more information.
Language	Catalan
Distribution of credits	- Theory (classroom or online): 5.5 - Practical work (classroom and fieldwork): 0.5

PHYSICAL GEOGRAPHY 2021-22

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
BATALLA VILLANUEVA, RAMON J.	ramon.batalla@udl.cat	4,5	
VERICAT QUEROL, DAMIAN	damia.vericat@udl.cat	1,5	

Subject's extra information

This subject develops basic contents in Physical Geography necessary for the student to be able to interpret other aspects of Geography such as the occupation of the territory and the use of natural resources, especially in the Mediterranean context.

Learning objectives

O.1. To learn the basic functioning of the main elements and processes of the physical environment: water, climate, relief.
O.2. To comprehend the relations between the main elements and processes of the natural environment and the human activity.

The course shall be developed in person and / or virtual modes depending on the limitations or restrictions imposed by the competent bodies (University of Lleida, Generalitat de Catalunya, Gobierno de España) during the course of the corresponding semester. All the contents and methodological axes have already been adapted to guarantee the achievement of the subject's competencies in whatever way it is finally taught. In the event that the field sessions cannot be carried out, they will be replaced by theoretical classes in which techniques and methods will be presented during specific presentations.

Learning outcomes:

- Knowledge of the main elements and processes of the physical environment

- To know the vocabulary and conceptual tools of climatology

- To know the vocabulary and conceptual tools of structural geology

- To know the vocabulary and conceptual tools of dynamic geomorphology. Identify the main types of rocks. and its characteristic erosive forms

- To know the terrestrial biomes and their differential characteristics. Identify the different plant landscapes, in particular the Mediterranean

- To know the environmental characteristics of semi-arid plans

- To know the operation and dynamics of river transport

- Understand human interference in natural dynamics at various scales

- Reflect on natural resources and their evolution

- Ability to properly manage resources

- Ability to capture and process data and analyze time series (climate, water ...)

- Training for fieldwork in physical geography, and in particular in the study of water processes

- Ability to apply geographical techniques, and description and research in specific situations in the territory and the natural environment

- Knowledge of the main elements and processes related to water in Catalonia, the Iberian Peninsula and the Mediterranean region

Competences

CB1 Possess and understand knowledge in an area of study that starts from the basis of secondary education general, and is usually found at a level that, while supported by advanced textbooks, also includes some aspects involving knowledge from the forefront of their field of study

CB2 Apply their knowledge to their job or vocation in a professional way and have the skills which are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study

CB5 Know how to develop the learning skills necessary to undertake further studies with a high degree of autonomy

CG1 Assess the mechanisms of society's interaction with the environment

CG3 Characterize the spatial diversity of territories

CE1 Manage and use the methods and techniques of analysis and interpretation of statistical sources

CE2 To know the foundations and the specific scientific terminology of each branch of Geography

CE4 Use the information from topographic cartography

CE6 Acquire the skills and methodologies of the geographer's fieldwork

CE1311 Acquire the habits of analysis of the geographic data to proceed to his orderly and reasoned exhibition, either through an oral presentation or through a written report

CT2 Acquire a significant command of a foreign language, especially English

CT3 Acquire training in the use of new technologies and information and communication technologies

CT5 Acquire essential notions of scientific thought

Subject contents

PHYSICAL GEOGRAPHY

THE SCIENTIFIC METHOD

HIDROLOGY

H1. THE HYDROLOGICAL CYCLE. WATER BUDGET

H2. EVAPORATION AND EVAPOTRANSPIRACIÓ

H3. PRECIPITATION AND INTERCEPTION

H4. SOIL WATER, INFILTRATION AND RUNOFF

H5. GROUNDWATER

H6. WATER RESOURCES

CLIMATOLOGY

C1. INTRODUCTION TO CLIMATOLOGY

STRUCTURAL GEOMORPHOLOGY

G1. INTERNAL STRUCTURE OF EARTH

G2. ROCKS

CLIMATIC GEOMORPHOLOGY

D1. MORPHOCLIMATIC LANDSCAPES

D2. QUATERNARY CLIMATES

PROCESS GEOMORPHOLOGY

P1. GRAVITATIONAL PROCESSES

P2. WEATHERING

P3. EROSIONAL PROCESSES

P4. FLUVIAL DYNAMICS

STUDY CASES

Methodology

- Face-to-face or online sessions in the classroom
- Classroom practices (face-to-face or online) related to the theoretical content of the subject

- Problems' solving
- Field work to learn hydrometric measurements and sampling techniques (data collection, calculations, report preparation and presentation of the work)
- Individual and group tutorials
- Weekly monitoring of the progress of each practice in the classroom (virtual)
- Continuous delivery of exercises
- Use of computer tools and statistics: databases
- Demonstration of tools by teachers (face-to-face or through videoconferences)
- Specific work outside the classroom by the student
- Doubts solving through videoconferences
- Solving problems demonstration videos
- Set-up of forums (Virtual Campus) for the discussion of problems that arise when carrying out the practical exercises

Development plan

The subject gives the theorethical contents that will be further develop in a practical way within the subject Mètodes d'Estudi del Medi Físic.

Information on data protection in audiovisual recording: in accordance with current regulations on the protection of personal data, we inform you that:

- The University of Lleida - UdL- is responsible for the recording and use of your images and voice (contact details of the representative: General Secretariat. Plaça Víctor Siurana, 1, 25003 Lleida; sg@udl.cat; contact details of the data protection delegate: dpd@udl.cat).

- Your recorded image and voice will be used exclusively for the purposes inherent in the teaching of the subject.

- Your recorded image and voice will be kept until the end of the current academic year, and will be destroyed in the terms and conditions provided for in the regulations on conservation and disposal of administrative documents of the UdL, and the document evaluation tables approved by the Generalitat de Catalunya (http://www.udl.cat/ca/serveis/arxiu/).

- Your voice and image is essential to teach in this subject, and teaching is a right and a duty of the teaching staff of the Universities, which must exercise with freedom of chair, as provided in article 33.2 of the Law Organic Law 6/2001, of December 21, of universities. For this reason, the UdL does not need your consent to record your voice and image for this sole purpose, to teach in this subject.

- The UdL will not transfer the data to third parties, except in the cases strictly provided for in the Law.

- You can access your data; request rectification, deletion or portability; oppose the treatment and request its limitation, as long as it is compatible with the purposes of teaching, by writing to dpd@udl.cat. You can also submit a complaint to the Catalan Data Protection Authority, through the Authority's electronic office (https://seu.apd.cat) or by non-electronic means.

Evaluation

- Continuous evaluation through practical exercises developed during the teaching period (50%)

- Final exam following indications given in the Facultat de Lletres academic guide (50%)

- Both parts, including all the practical exercises have to be approved to pass the subject. Final qualification is calculated as the mean of the two parts: exam and practical exercises (50% each).

- ALL theoretical and practical materials given in the classroom are subjected to evaluation, including the Geografia Física Textbook available in the Campus Virtual (.pdf format)

- Participation in formative activities (classroom, practical exercises, field visits) will be taken into account (up to 10%) in the final mark of the subject

- Any attempt to plagiarize classroom and field practices will automatically lead to not passing the course

Note: The evaluation is continuous. Students who combine their studies with a full-time job are entitled to request an alternative assessment within 5 days from the beginning of the semester. For more information, send an email to academic@lletres.udl.cat or contact the Secretariat of the Faculty of Arts.

Bibliography

STRAHLER, A. (1987): Geografía Física. Omega, Barcelona, 767 p., together with particular references related to each of the subject contents.

BALASCH, J.C., BATALLA, R.J., MÀSICH, J.M., VERICAT, D. (2016) (eds.): Geografia física. Fundació per la Universitat Oberta de Catalunya. Barcelona, 408 p.

In addition, lecturers will supply specific references in relation to subject contents.