SUBJECT TEACHING GUIDE

G171 - Geomorphological Processes

Degree in Geography and Land Planning

Academic year 2025-2026

1. IDENTIFYING DATA					
Degree	Degree in Geography and Land Planning			Type and Year	Compulsory. Year 2
Faculty	Faculty of Humanities				
Discipline	Theoretical and methodological Fundamentals in Geography				
Course unit title and code	G171 - Geomorphological Processes				
Number of ECTS credits allocated	6	Term		Semester based (2)	
Knowledge Field	History, archaeology, geography, philosophy and humanities				
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. GEOGRAFIA, URBANISMO Y ORDENACION DEL TERRITORIO
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Other lecturers	MANUEL GOMEZ LENDE

4. OBJECTIVES
The aim of the course is to provide the keys to understanding the genesis of the terrestrial relief. Essentially, the aim is to familiarise students with the following aspects:
- To understand the essential processes that allow morphologies to be interpreted as dynamic phenomena.
- To understand the specific functioning of these processes and the factors that characterise them , determining the interactions between them.
- Establish the spatial and temporal dimension of geomorphological events in the different scalar environments.
- Relate the genesis of modelling forms and their current functioning with their possible evolution.

6. SUBJECT PROGRAM	
CONTENTS	
1	INTRODUCTION
2	SLOPE PROCESSES
3	FLUVIAL PROCESSES
4	LITORAL PROCESSES
5	GLACIAL PROCESSES
6	GEOMORPHOLOGICAL PROCESSES AND GLOBAL CHANGE
7	Practical and theoretical exercises

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
The test will evaluate the degree of fulfilment of the objectives and skills acquired by the student. the student. It will therefore include both theoretical and practical content.	Written exam	Yes	Yes	50,00
Practical exercises to be carried out at the same time as the theoretical content. They will be set and developed in the classroom, although the student will have to complete them as independent work.	Work	Yes	Yes	40,00
Students, in groups of two, will work on a case study. The format of the presentation will be specified at the beginning of the course. The grade for this activity will be The grade for this activity will be the same for both members of the group.	Work	Yes	Yes	10,00
TOTAL				100,00

Observations

The hours of laboratory practice consist of a field trip with several stops to Llanes (Asturias). Only in case of justified inconvenience, the evaluation of this part will be carried out by means of the elaboration of a similar work, but adapted to the conditions of the student.
On the other hand, the practical work with computers will be carried out in the Computer Classrooms of the Faculty of Philosophy and Arts.

In order to pass the course, it will be necessary to have participated in ALL the programmed activities and to present ALL the exercises associated with them. To average with the rest of the evaluation activities it will be NECESSARY to have passed the exam.

It is recommended to take special care in the presentation of the work and, in particular, in the correct use of materials (maps, graphs, tables) included in the same (rigor in the citation of sources and provenance). Fraudulent performance of the assessment tests or activities will result directly in a grade of '0' for the subject in the corresponding exam session, thereby invalidating any grade obtained in all the assessment activities for the extraordinary exam session.

The evaluation of the recoverable activities in the extraordinary call will be the same as in the ordinary call. Students enrolled in several subjects of different courses whose exams coincide will not have the right to modify the established assessment dates, nor to the celebration of additional exam dates. Only the situations indicated in Article 22 of the UC regulations will be considered.

In accordance with the instructions received from the University of Cantabria, in the event that the health situation makes it necessary to modify the face-to-face conditions towards a mixed teaching scenario (Scenario 2) or virtual teaching (Scenario 3), the assessment of the subject will be carried out in the following way:
- The part corresponding to the evaluation of the field trips would become part of the collective work.
- The tutoring of work will preferably be carried out through the tools available on the UC's institutional platforms (MOODLE chats and forums, video calls, etc.).
- The sharing or oral/written presentation of the work will be carried out through institutional platforms.

Observations for part-time students

In the event of any justified inconvenience on the part of the part-time students to carry out any of the practical activities described above, these parts will be
activities described, the assessment of these parts will be carried out by means of the evaluation of a similar work adapted to their conditions, and with the same weight in the final mark as the one applied in general,
adapted to their conditions, and with the same weight in the final mark as that applied in general.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

MANUALES

Anhert, F (1998). Introduction to Geomorphology. London: Arnold.
Atkinson, D. (2004). Weathering, slopes and landforms. London: Hodder and Stoughton.
Bull, W.B. (1991). Geomorphic Responses to Climatic Changes. Oxford: Oxford University Press.
Easterbrook, D.J. (1999). Surface processes and landforms. Upper Saddle River (N.J.): Prentice-Hall.
Embleton, C.; Thornes, J. (1979). Process in Geomorphology. London: Edward Arnold.
Gregory, K.J. (2010). The earth's land surface: Landforms and processes in geomorphology. London: SAGE.
Gregory, K.J.; Lewin, J. (2014). The basics of geomorphology. London: SAGE.
Gutiérrez Elorza, M. (2008) Geomorfología. Madrid: Pearson Educación.
Huggett, R.J. (2003). Fundamentals of geomorphology. London- New York: Routledge.
Pedraza Gilsanz, J. (1996). Geomorfología. Principios, métodos y aplicaciones. Madrid: Rueda.
Ritter, D.F.; Kochel, C.; Miller, J.R. (2011). Process geomorphology. Long Grove (IL): Waveland.
Sharma, V.K. (2010). Introduction to process geomorphology. Boca Raton (FL): Taylor & Francis.

DICCIONARIOS

Goudie, A. (1985). The encyclopaedic dictionary of Physical Geography. Oxford: Blackwell.
Whittow, J.B. (1988). Diccionario de Geografía Física. Madrid: Alianza Editorial.