SUBJECT TEACHING GUIDE

M1802 - Geomorphology and Geoarchaeology

Master's Degree in Prehistory and Archaeology

Academic year 2022-2023

1. IDENTIFYING DATA					
Degree	Master's Degree in Prehistory and Archaeology			Type and Year	Optional. Year 1
Faculty	Faculty of Humanities				
Discipline	Optional Subjects in Both Specialities				
Course unit title and code	M1802 - Geomorphology and Geoarchaeology				
Number of ECTS credits allocated	3	Term		Semester based (2)	
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. CIENCIA E INGENIERIA DEL TERRENO Y DE LOS MATERIALES
Name of lecturer	MIGUEL ANGEL SANCHEZ CARRO
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Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 1. DESPACHO (1080)
Other lecturers	

3.1 LEARNING OUTCOMES

- The student will be able to apply geological and geomorphological procedures in the area surrounding archaeological sites.

4. OBJECTIVES

- Description of the main geomorphological environments: fluvial, slopes, karst and lakes.
- Introduction to the analysis of the geological and geomorphological maps
- Introduction to the analysis of aerial photography and its uses in Geomorphology
- Achievement of a basic knowledge about Geoarchaeological topics
- Achievement of basic knowledge about optical microscopy applied to Geoarchaeology.

6. COURSE ORGANIZATION	
CONTENTS	
1	Weathering and soils. Principles of the micromorphology and uses in geoarchaeology.
2	Geomorphological processes. Geomorphological shapes caused by erosion and deposit. Introduction to aerial photography and uses in the geomorphological mapping of fluvial and slope areas.
3	Geoarchaeology: principles and uses
4	Geoarchaeology. Field and laboratory procedures.Managment of Geological Information with GIS. Field trip.
5	Field trip to the Miera River valley (glaciar geomorphology) or coast zone.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Practical activities in the laboratory of Geomorfphology of the Civil Engineering School.	Laboratory evaluation	No	Yes	50,00
Individual activities: Summary of the activities carried out in the laboratory of thin sections and during practical activities with SIG software.	Work	No	Yes	50,00
TOTAL				100,00

Observations

CLASS ATTENDANCE

If the health situation requires a modification of the class attendance the students participation will be checked using the tools available for the UC (time connection, students answers, MOODLE, etc)

CONTINUOUS ASSESSMENT ACTIVITY
Of the health situation requires a modification of the class attendance the activities for continuous assessment will be handled mainly using MOODLE.

SEMINARS, COMMON DISCUSSIONS, GROUP WORK PRESENTATION

If the health situation requires a modification of the class attendance the activity will be carried out through institutionals online platforms.

TUTORED WORKS
If the health situation requires a modification of the class attendance the interaction between student and professor will be carried out using the UC online platforms (MOODLE, videocalls, etc)

FIELD TRIP RECORDS

If the health situation requires a modification of the class attendance the activity will be replaced by a different one with similar value and features which won´t require the displacement of the student.

LUMNOS CON NECESIDADES ESPECIALES
En el caso de alumnos con necesidades especiales reconocidos por el SOUCAN, el profesor valorará la aplicación de las recomendaciones de este órgano en la medida de lo posible, con el fin de permitir la evaluación de dichos alumnos con las mismas garantías que el resto.

STUDENTS WITH SPECIAL NEEDS
In the case of students with special needs recognized by the SOUCAN, the teacher will assess the application of the recommendations of the SOUCAN as best as possible, in order to allow the evaluation of these students with the same guarantees as the rest.

Observations for part-time students

Students with partial dedication can participate in the different activities of evaluation.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

* Applied Geomorphology. Allison, R.J.. Edit. John Wiley and sons. 2002.
* Depositional sedimentary environments : with reference to terrigenous clastics. Reineck, H. E. and Singh, I.B. Springer-Verlag. 1973
* Encyclopedia of quaternary science. Elsevier. Acceso on line desde la BUC y en versión impresa para consulta en biblioteca.
* Rapp, G. & Gifford, J.A. (Eds.) (1985). Archaeological Geology. Yale University Press, London, 435 pp.
* Goldberg, P. & Macphail, R.I. (2006). Practical and theoretical Geoarchaeology. Blackwell Publishing, Oxford, - Harris, E.C.
* Rapp, G. & Hill, C.L. (1998). Geoarchaeology: the Earth-Science approach to archaeological interpretation. Yale University Press, London, 274 pp.