

## SUBJECT TEACHING GUIDE

M1802 - Geomorphology and Geoarchaeology

Master's Degree in Prehistory and Archaeology

Academic year 2019-2020

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	Yes	Mode of delivery	Face-to-face

Department	DPTO. CIENCIA E INGENIERIA DEL TERRENO Y DE LOS MATERIALES				
Name of lecturer	MIGUEL ANGEL SANCHEZ CARRO				
E-mail	miguelangel.sanchez@unican.es				
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. Management of Geological Information with GIS. Field trip.

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Practical activities in the laboratory of Geomorphology 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				
Observations for part-time students				

8. BIBLIOGRAPHY AND TEACHING MATERIALS
BASIC
<ul style="list-style-type: none"> <li>* Applied Geomorphology. Allison, R.J.. Edit. John Wiley and sons. 2002.</li> <li>* Depositional sedimentary environments : with reference to terrigenous clastics. Reineck, H. E. and Singh, I.B. Springer-Verlag. 1973</li> <li>* Encyclopedia of quaternary science. Elsevier. Acceso on line desde la BUC y en versión impresa para consulta en biblioteca.</li> <li>* Rapp, G. &amp; Gifford, J.A. (Eds.) (1985). Archaeological Geology. Yale University Press, London, 435 pp.</li> <li>* Goldberg, P. &amp; Macphail, R.I. (2006). Practical and theoretical Geoarchaeology. Blackwell Publishing, Oxford, - Harris, E.C.</li> <li>* Rapp, G. &amp; Hill, C.L. (1998). Geoarchaeology: the Earth-Science approach to archaeological interpretation. Yale University Press, London, 274 pp.</li> </ul>