

## SUBJECT TEACHING GUIDE

M1826 - Data bases and technology of geographical information

Master's Degree in Historical and Territorial Heritage

Academic year 2020-2021

1. IDENTIFYING DATA					
Degree	Master's Degree in Historical and Territorial Heritage			Type and Year	Optional. Year 1
Faculty	Faculty of Humanities				
Discipline					
Course unit title and code	M1826 - Data bases and technology of geographical information				
Number of ECTS credits allocated	3	Term	Semester based (1)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. GEOGRAFIA, URBANISMO Y ORDENACION DEL TERRITORIO				
Name of lecturer	OLGA DE COS GUERRA				
E-mail	olga.decos@unican.es				
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 1. DESPACHO PROFESORES (1022)				
Other lecturers					

### 3.1 LEARNING OUTCOMES

- To know and to use properly the specific language of Geographic Information Technologies to apply it in the analysis of heritage.
- To apply of Geographic Information Technologies (mainly Database Management Systems (DBMS) and Geographical Information Systems (GIS) to draw and analyze the territorial heritage value.
- To include in informatics systems different applied cases related to the heritage study , and to create methodological proposals.

#### 4. OBJECTIVES

- To share theoretic and practical knowledge to solve spatial heritage problems, using Geographic Information Technologies.
- To show technical tools to design cartography and analyze spatial patterns of heritage resources.
- To explain the process to develop an applied digital Project to analyze spatial relations in areas with heritage elements.
- To show the phases to develop an applied project to analyze areas with heritage elements.

#### 6. COURSE ORGANIZATION

##### CONTENTS

1	TO SYSTEMATIZE ALPHANUMERIC DATABASES IN TERRITORIAL HERITAGE PROJECTS.
2	GEOGRAPHICAL INFORMATION SYSTEMS APPLIED TO HISTORIC AND TERRITORIAL HERITAGE.

#### 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Practical work	Work	Yes	Yes	100,00
TOTAL				100,00
Observations				
The subject assessment is based on a practical work. Students have to solve a practical work, using Geographical Information Technologies.				
Observations for part-time students				
Attention and evaluation to part-time students will be made according to the provisions of the UC rules for such cases.				

#### 8. BIBLIOGRAPHY AND TEACHING MATERIALS

##### BASIC

CABRERA SÁNCHEZ, G. (2001): Sistemas gestores de bases de datos. Madrid: Paraninfo.

GUTIERREZ PUEBLA, J. y GOULD, M. (1994): SIG: Los Sistemas de Información Geográfica. Madrid, Síntesis.

OLAYA, V. (2014): Sistemas de Información Geográfica. Tomos I y II. Disponible en formato Pdf en <https://volaya.github.io/libro-sig/>