

## SUBJECT TEACHING GUIDE

### G1973 - History and Heritage of Public Works

#### Degree in Civil Engineering

Academic year 2023-2024

1. IDENTIFYING DATA					
Degree	Degree in Civil Engineering			Type and Year	Optional. Year 3
Faculty	School of civil Engineering				
Discipline	HISTORY OF PUBLIC WORKS				
Course unit title and code	G1973 - History and Heritage of Public Works				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. TRANSPORTES Y TECNOLOGIA DE PROYECTOS Y PROCESOS
Name of lecturer	MARIA LUISA RUIZ BEDIA
E-mail	maria.ruiz@unican.es
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 0. DESPACHO (0084)
Other lecturers	

3.1 LEARNING OUTCOMES
- historical analysis as a tool to study civil engineering
- Use concepts of cultural landscape and heritage in the assessment of public works
- To place in time-space historical public works
- Know how to access to reliable information sources, to contrast contents, and use them to implement an own idea
- - Explain the meaning of "heritage of public works "
- Learn to identify the cultural values of public works
- Spanish and regional cultural laws. International protection of cultural heritage

#### 4. OBJECTIVES

Learn how the civil engineering heritage is valued
Historical-technical documentation and bibliography. Critical approach
Use historical knowledge in the profession of civil engineer
Understanding how public works give character to the landscape
Refurbishment projects. Reuse projects
Discuss examples of rehabilitation of public works
Learn to identify, analyze and assess public works in the field of cultural heritage

#### 6. COURSE ORGANIZATION

CONTENTS	
1	What does civil engineering know about cultural heritage? Basic notions about heritage
2	What can civil engineering do for its cultural heritage? Information sources about cultural heritage public works. Cases study.
3	What were the first public works like and where were they? Civil engineering in Ancient Ages.
4	How to know if some stones are Roman? Civil engineering in Classical Antiquity. Greco-Roman culture.
5	Superstition or silent revolution? Civil engineering in the Middle Ages.
6	Before ingenuity...or engineering? Civil engineering in Modern Ages. Renaissance engineering
7	What is it to be an Enlightened engineer? The beginning of modern engineering. Civil engineering in 18th century.
8	Tradition... or scientific thought? Civil engineering in 19th century
9	Are these public works also cultural heritage? Public works Spain 20th century

## 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Collaborative work	Work	No	Yes	30,00
Tasks (single/couple)	Others	No	Yes	50,00
Oral presentations	Others	No	Yes	20,00
TOTAL				100,00
Observations				
<p>Continuous assessment</p> <p>Classroom collaborative work</p> <p>Individual resits</p> <p>Students must recover only those parts of the subject that have failed (mark less than 5), not being able to attend any part that they have passed (mark higher than 5).</p> <p>Obtaining the minimum grade of 4 in a part of the subject allows the application in said call of the indicated weighting, but in case of not passing the subject, it will be replaced for all purposes by the grade obtained in said part in the recovery. .</p> <p>The marks obtained during the course will be kept until the extraordinary call.</p> <p>Only for duly justified reasons (eg health restrictions) the evaluation tests may be carried out remotely, with prior authorization from the Center's Management.</p> <p>In relation to the agreements adopted in the ordinary session of the School Board held on June 10, 2010, it is established that, with respect to the evaluation activities that are recoverable,</p> <ul style="list-style-type: none"> <li>• As a general criterion, and unless something else is specified in this guide, a student may only retake those activities that they have not passed, that is, those in which they have not obtained a minimum grade of five out of ten.</li> <li>• As a general criterion, and unless otherwise specified in this guide, in the recovery period the evaluation procedure for an activity will be the same as that of the activity that originates it.</li> </ul> <p>Note: According to royal decree RD 1125/2003 on the European credit system and the grading system in official university degrees valid throughout the national territory, the results obtained by the student in each of the subjects of the plan of studies will be graded based on the following numerical scale from 0 to 10, with the expression of a decimal, to which its corresponding qualitative grade may be added:</p> <p>0.0-4.9: Failed (SS). 5.0-6.9: Approved (AP). 7.0-8.9: Remarkable (NT). 9.0-10: Outstanding (SB).</p>				
Observations for part-time students				
<p>Students in a part-time dedication regime: a single ordinary evaluation will be established, and in its case extraordinary, which will consist of the individual resolution of a selection of the Tasks carried out during the course , which will be presented in writing, and which will be agreed upon. previously between teachers and students in this situation</p>				

## 8. BIBLIOGRAPHY AND TEACHING MATERIALS

### BASIC

[www.cehopu.cedex.es](http://www.cehopu.cedex.es)

[www.traianus.net](http://www.traianus.net)

[www.juaneloturriano.com](http://www.juaneloturriano.com)

[www.ropdigital.es](http://www.ropdigital.es)

SILVA SUÁREZ, M (Ed.) Técnica e ingeniería en España. Varios volúmenes. Zaragoza. Real Academia de Ingeniería - Institución Fernando El Católico

Congreso Internacional sobre Patrimonio de la Obra Pública y de la Ingeniería Civil. Cuenca- Toledo-Madrid Septiembre, 2023  
<https://www.congresopatrimoniodeobrapublica.es/>.

