

SUBJECT TEACHING GUIDE

585 - Advances in Building Technology

Master's Degree in civil Engineering, Canal and Port Engineering

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Master's Degree in civil Engineering, Canal and Port Engineering			Type and Year	Optional. Year 1
Faculty	School of civil Engineering				
Discipline	CROSS CURRICULAR EDUCATION				
Course unit title and code	585 - Advances in Building Technology				
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. TRANSPORTES Y TECNOLOGIA DE PROYECTOS Y PROCESOS				
Name of lecturer	PABLO PASCUAL MUÑOZ				
E-mail	pablo.pascualm@unican.es				
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 1. DESPACHO PABLO PASCUAL MUÑOZ (1012)				
Other lecturers	JORGE RODRIGUEZ HERNANDEZ				

3.1 LEARNING OUTCOMES	
-- Acquire technical knowledge on the latest advances in machinery and procedures for the construction of public works.	
- Ability to face the incorporation of technological innovations in the construction process.	

4. OBJECTIVES

- To provide students with complementary training to facilitate their incorporation into the construction engineering market .
- To provide knowledge on the main challenges faced by the construction industry in the coming years .
- To provide students with the latest advances in infrastructure construction technology .
- To introduce students to the R+D+i in construction engineering.

6. SUBJECT PROGRAM

CONTENTS

1	Block 0.- Challenges and barriers in the construction of the 21st century.
2	Block 1.- Advances towards the digitalization of construction.
3	Block 2.- New construction techniques and materials.
4	Block 3.- Advances towards sustainability in construction.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Delivery and presentation of practical exercises.	Work	No	Yes	80,00
Group project.	Work	No	No	10,00
Active participation in class.	Others	No	No	10,00
TOTAL				100,00
Observations				
Observations for part-time students				
Part-time students are exempted to attend practical classes. In their case, the evaluation will be carried out through an individual work equivalent to the set of practices/exercises delivered by full-time students, and whose content and date of delivery and presentation will be set by the teacher at the beginning of the course.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Apuntes de clase.