

## SUBJECT TEACHING GUIDE

M2151 - Advances in Building Technology

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

Academic year 2022-2023

1. IDENTIFYING DATA			
Degree	Master's Degree in civil Engineering, Canal and Port Engineering		Optional. Year 1
Faculty	School of civil Engineering		
Discipline	CROSS CURRICULAR EDUCATION		
Course unit title and code	M2151 - 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	JOKIN RICO ARENAL

### 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. COURSE ORGANIZATION

##### CONTENTS

1	Innovation in construction: challenges of construction in the 21st century and digital transformation.
2	New techniques and procedures for the construction of structures, transport and energy infrastructures.
3	Advances in construction machinery: special equipment, automation and robotics in construction.

#### 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Delivery and presentation of practical exercises.	Work	No	Yes	75,00
Group project.	Work	No	No	15,00
Active participation.	Others	No	No	10,00
<b>TOTAL</b>				<b>100,00</b>
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.