SUBJECT TEACHING GUIDE

G2240 - Project Teams 1

BILINGUAL UC-CU CIVIL ENGINEERING PROGRAM

Academic year 2025-2026

1. IDENTIFYING DATA					
Degree	BILINGUAL UC-CU CIVIL ENGINEERING PROGRAM			Type and Year	Optional. Year 1
Faculty	School of civil Engineering				
Discipline					
Course unit title and code	G2240 - Project Teams 1				
Number of ECTS credits allocated	6	Term		Semester based (2)	
Web					
Language of instruction	English	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. CIENCIAS Y TECNICAS DEL AGUA Y DEL MEDIO AMBIENTE
Name of lecturer	JAVIER LOPEZ LARA
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Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 0. DESPACHO (0021)
Other lecturers	MARIA ARACELI PUENTE TRUEBA ELENA BLANCO FERNANDEZ LAURA CASTAÑON JANO

3.1 LEARNING OUTCOMES

- - Students will learn how to develop a design project
- Students will get group work skills as well as public presentation skills
- Students will learn about construction techniques, design considering ecological variables and hydrodynamic testing.

4. OBJECTIVES

Students will learn how to develop a design project, from the design of the device to its construction and testing.
Students will learn how to create an engineered solution taking into account not only the functionality and stability of the solution, but also considering ecological aspects looking for more sustainable solutions.
Students will learn about novel construction methods, hydrodynamics and model testing in the laboratory.
Students will learn to work in groups, organizing tasks and making decisions in a consensual manner. They will also improve their public presentation skills.

6. SUBJECT PROGRAM

CONTENTS	
1	Presentation, course overview and motivation of problem
2	Design of artificial reefs: construction methods
3	Design of artificial reefs: hydrodynamic considerations
4	Design of artificial reefs: ecological considerations
5	Hydrodynamic scaling
6	Construction of the design
7	Hydrodynamic testing
8	Analysis and presentation of results

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Presentation of preliminary design	Work	No	Yes	40,00
Final Presentation	Work	No	Yes	60,00
TOTAL				100,00

Observations

Class attendance is mandatory

Observations for part-time students

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Professor's notes uploaded to Moodle