

SUBJECT TEACHING GUIDE

M1470 - R&D&I for Civil Engineering

Master's Degree in Civil Engineering

Academic year 2019-2020

1. IDENTIFYING DATA					
Degree	Master's Degree in Civil Engineering			Type and Year	Optional. Year 2
Faculty	School of civil Engineering				
Discipline	Optional Training				
Course unit title and code	M1470 - R&D&I for Civil Engineering				
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	JOSE LUIS MOURA BERODIA
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Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 0. DESPACHO DEL DIRECTOR (0013)
Other lecturers	FRANCISCO BALLESTER MUÑOZ ANGEL IBEAS PORTILLA JUAN IGNACIO TEJERO MONZON CESAR ANTONIO OTERO GONZALEZ AMAYA LOBO GARCIA DE CORTAZAR ANA LORENA ESTEBAN GARCIA DANIEL CASTRO FRESNO JORGE RODRIGUEZ HERNANDEZ DIEGO FERREÑO BLANCO CARLOS RICO DE LA HERA

3.1 LEARNING OUTCOMES

- Understand the specific characteristics of research and assess the potential for application in the field of civil engineering.

Being able to search bibliographic databases, especially in virtual environments.

To know the different qualitative and quantitative methodologies and assess their suitability for different research questions.

Know the plans of R & D at national level, its strategic lines, as well as European program.

Acquire the basic knowledge and skills to implement the different techniques for collecting and producing information .

Learning to use the techniques of data analysis.

Acquire specific vocabulary for research.

4. OBJECTIVES

To know the specific databases of scientific publications in Journals and Proceedings

To know Databases Patent and Trademark

To distinguish the different mechanisms to protect intellectual

To know the program lines and R & D of our economic environment

To know draft texts as appropriate to the scientific and industry standards .

Locate a research activity in the triedro Science-Technology-Technology

6. COURSE ORGANIZATION

CONTENTS

1	Industrial protection. Patent, Marks. Spanish Patent Office. European Office Others Patents.
2	The National Plan for R & D. Lines - Actions - Sectors. EU Framework Programs. Other Programs
3	The R & D at the University of Cantabria. Groups of R & D: Case Studies. In publication. In Transfer. In Financed projects. In Contracted Projects

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Classroom practices	Others	No	No	35,00
Coursework: 65% Classroom practice: 35%	Work	No	Yes	65,00
<p>Note: According to the Royal Decree RD 1125/2003 on the European system of credits and the system of qualifications in university degrees of official character and validity throughout the national territory, the</p>				
TOTAL				100,00
Observations				
<p>Regarding those evaluation activities that the students can resit, the following general criteria were adopted at the regular meeting of the Civil Engineering School Board held on June 10, 2010:</p> <ul style="list-style-type: none"> - A student can only resit an evaluation activity that has not passed (i.e. a grading lower than 5 out of 10). - The evaluation activity in the resitting period will follow the same procedure and will have the same guidelines as in the ordinary period. <p>Note:</p> <p>According to Spanish regulations (RD 1125/2003) about the European credit system and the grading system for University degrees, each course will be graded using a linear scale between 0 and 10 with a precision of a decimal. According to that grading, a qualitative rating may be added:</p> <p>0.0-4.9: Suspenso (SS). Fail</p> <p>5.0-6.9: Aprobado (AP). Satisfactory</p> <p>7.0-8.9: Notable (NT). Good</p> <p>9.0-10: Sobresaliente (SB). Excellent</p>				
Observations for part-time students				
<p>For part-time students, the evaluation system will be:</p> <p>Work Course: 65%</p> <p>Exam online: 35%</p> <p>Class attendance is not required.</p>				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

BASES DE DATOS DE JCR, SCOPUS, INSPEC, ETC
 PAGINA WEB DE LA OEPM
 PÁGINAS WEB SOBRE EL PLAN NACIONAL DE I+D

