

SUBJECT TEACHING GUIDE

M2056 - Analysis of hydrometeorological risk Coastal and river flooding

Master's degree in integrated management of water systems

Academic year 2019-2020

1. IDENTIFYING DATA					
Degree	Master's degree in integrated management of water systems			Type and Year	Compulsory. Year 1
Faculty	School of civil Engineering				
Discipline					
Course unit title and code	M2056 - Analysis of hydrometeorological risk Coastal and river flooding				
Number of ECTS credits allocated	4	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. CIENCIAS Y TECNICAS DEL AGUA Y DEL MEDIO AMBIENTE				
Name of lecturer	FERNANDO JAVIER MENDEZ INCERA				
E-mail	fernando.mendez@unican.es				
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 0. DESPACHO (0054)				
Other lecturers	CESAR ALVAREZ DIAZ ANA CRISTINA RUEDA ZAMORA				

3.1 LEARNING OUTCOMES
- The student will know the different natural and technological risks that threaten the different aquatic systems
- The student will know and understand the components of risks: hazard, vulnerability, exposure,...
- The student will know the main methodologies and tools for flooding risk assessment
- The student will be able to discuss about flood risk management
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4. OBJECTIVES

To understand the different component of flooding risk at different spatial scales (Km, m) and temporal scales (events, hydrographs, seasonality, inter annual variability, trends, climate change)

To be able of applying different data bases for flood risk assessment

To understand ant to be able of using different mathematical , statistical and numerical models for flooding risk assessment.

6. COURSE ORGANIZATION

CONTENTS

1	1.Hazard
2	2. Hydraulic Models
3	3. Vulnerability and flooding risk assessment
4	2. Flooding Risk Management

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Practice 1	Work	No	Yes	40,00
Practice 2	Work	No	Yes	60,00
TOTAL				100,00
Observations				
Observations for part-time students				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC
Birkmann, J. (2006) Measuring vulnerability to natural hazards: towards disaster resilient societies, United Nations University
Informes Ejemplos de Riesgo de Inundación realizados por IH Cantabria
Presentaciones de aplicaciones de proyectos realizados por IH Cantabria