SUBJECT TEACHING GUIDE

M1980 - THE ENVIRONMENT AND METEOROLOGY

University Master's Degree in Data Science

Academic year 2019-2020

1. IDENTIFYING DATA					
Degree	University Master's Degree in Data Science			Type and Year	Optional. Year 1
Faculty	Faculty of Sciences				
Discipline	DATA LABORATORIES				
Course unit title and code	M1980 - THE ENVIRONMENT AND METEOROLOGY				
Number of ECTS credits allocated	3	Term		Semester based (2)	
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. MATEMATICA APLICADA Y CIENCIAS DE LA COMPUTACION
Name of lecturer	SIXTO HERRERA GARCIA
E-mail	sixto.herrera@unican.es
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 1. DESPACHO PROFESORES (1042)
Other lecturers	JOAQUIN BEDIA JIMENEZ

3.1 LEARNING OUTCOMES

- - To know the current data portals and repositories, and the tools and software used to analyze and work with climate data.
- Learn how to apply data mining techniques to climate analysis, including the current main problems addressed in this research field (e.g. climate change, downscaling, etc...)

4. OBJECTIVES

The data laboratory (datalab) will address the climate analysis and statistical downscaling of climate projections with data mining techniques.

6. COURSE ORGANIZATION

CONTENTS	
1	Basic concepts
2	Standards considered in Meteorology and Environment
3	Practical examples of commonly addressed problems in Meteorology and Environment.
4	Evaluation

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Evaluation of the reports of practices.	Activity evaluation with Virtual Media	Yes	Yes	60,00
Oral exposition of a practical application of the concepts learned.	Work	Yes	Yes	40,00
Laboratory sessions	Laboratory evaluation	No	No	0,00
TOTAL				100,00

Observations
To recover the subject the failed practices should be repeated.
Observations for part-time students
Same evaluation will be applied for both full and partial time students.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC