

SUBJECT TEACHING GUIDE

M1980 - THE ENVIRONMENT AND METEOROLOGY

University Master's Degree in Data Science

Academic year 2020-2021

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	JOAQUIN BEDIA JIMENEZ			
E-mail	joaquin.bedia@unican.es			
Office	E.P. de Ingeniería de Minas y Energía. Planta: + 2. DESPACHO (239)			
Other lecturers	SIXTO HERRERA GARCIA			

3.1 LEARNING OUTCOMES

- 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

In particular, this 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				
If the student's final grade is less than 5 out of 10, then the recovery will consist of completing each of the tasks in which he / she would have obtained a grade lower than 5 out of 10. The procedure for evaluating a recoverable activity will be equivalent to the original activity.				
Observations for part-time students				
Attendance is required, so the same assessment will be applied as for full-time students, taking into account their availability in terms of deadlines for the assignments.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC