

SUBJECT TEACHING GUIDE

M1502 - Advanced Programming

Master's Degree in Mathematics and Computing

Academic year 2019-2020

1. IDENTIFYING DATA					
Degree	Master's Degree in Mathematics and Computing			Type and Year	Compulsory. Year 1
Faculty	Faculty of Sciences				
Discipline					
Course unit title and code	M1502 - Advanced Programming				
Number of ECTS credits allocated	3	Term	Semester based (1)		
Web	https://moodle.unican.es/course/view.php?idnumber=M1502				
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	ANTONIO SANTIAGO COFIÑO GONZALEZ				
E-mail	antonio.cofino@unican.es				
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 1. DESPACHO PROFESORES (1027)				
Other lecturers	ALVARO LAVIN GULLON				

3.1 LEARNING OUTCOMES

- Learning how to design algorithm, data structures and its programming with a high-level computing language.

4. OBJECTIVES

Learning how to design algorithm, data structures and its programming with a high-level computing language.

6. COURSE ORGANIZATION

CONTENTS

1	Programing paradigms. Programing language. Development and debugging environment. Scientific libraries, packages and software.
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7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Resolution of theoretic-practice problems	Activity evaluation with Virtual Media	Yes	Yes	100,00
TOTAL				100,00
Observations				
<p>The final qualification corresponds to the weighted mean of the qualifications obtained in all the task done during the course. If the final qualification is lower than 5 (over 10), the recuperation consists in the realization and evaluation of all the tasks with a qualification lower than 5.</p> <p>The minimum qualification for each task is 3 and all the task should obtain at least this qualification to obtain the final qualification as the weighted mean.</p> <p>The evaluation procedure of each recoverable activity is equivalent to the original activity.</p>				
Observations for part-time students				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Python Scientific Lectures Notes, <http://scipy-lectures.github.io>