

SUBJECT TEACHING GUIDE

G323 - Fundamentals of Computing

Degree in Chemical Engineering

First Degree in Chemical Engineering

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Degree in Chemical Engineering First Degree in Chemical Engineering			Type and Year	Core. Year 1 Core. Year 1
Faculty	School of Industrial Engineering and Telecommunications				
Discipline	Subject Area: Computer Science Basic Training Module				
Course unit title and code	G323 - Fundamentals of Computing				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Knowledge Field					
Web	https://web.unican.es/centros/etsiit/estudios/ asignaturas?p=113&c=2024				
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	PILAR BERNARDOS LLORENTE
E-mail	pilar.bernardos@unican.es
Office	E.T.S. de Ingenieros Industriales y de Telecomunicación. Planta: - 5. DESPACHO (S5018)
Other lecturers	MARIANO NOZAL GUTIERREZ JOSE DEMETRIO GOMEZ VAQUERO

4. OBJECTIVES

Knowing what is the purpose of computing and software applications and what are the pillars on which this discipline is settled.
Acquiring a logic-based reasoning methodology for problem-solving.
Ability to debug errors in the interpretation and execution of programs in a programming language.
Design quality and efficient programs to solve engineering problems.
Use computer tools such as spreadsheets and databases to solve engineering problems.

6. SUBJECT PROGRAM

CONTENTS

1	Fundamentals of computer science, hardware, software, applications, databases, use of computer and operating systems.
2	Computer programming. Basics of programming. Structured programming methodology.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Practical tests at the classroom and the computer lab.	Others	No	Yes	80,00
Continuous assessment	Others	No	Yes	20,00
TOTAL				100,00

Observations

- * A minimum score of 5 is required to pass the subject successfully.
- * To pass each test, you may be required to reach a minimum grade in the minimum basic knowledge module. Such a grade will be properly indicated before each test.
- * To access the theoretical final exam, it will be required to have previously submitted and passed successfully a minimum number of individual written assignments corresponding to this part of the subject. The guidelines and dates of delivery of such written assignments will be announced properly well in advance to each deadline.

Observations for part-time students

The assessment of part-time students enrolled in the subject will be similar to that of the full-time students.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Material de la asignatura en Moodle.