UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: COMPUTER ENGINEERING
Code: 56304
Type: BASIC
ECTS credits: 6
Degree: 357 - UNDERGRADUATE DEGREE PROGRAMME IN ELECTRICAL ENGINEERING (TO)
Academic year: 2023-24
Center: 303 - E.DE INGENIERÍA INDUSTRIAL Y AEROESPOACIAL DE TOLEDO
Group(s): 40
Year: 1
Duration: First semester
Main language: Spanish
Second language:
Use of additional languages:
English Friendly: N
Web site:
Bilingual: N

Lecturer: **FRANCISCO MOYA FERNANDEZ** - Group(s): **40**

Building/Office	Department	Phone number	Email	Office hours
Sabatini 3ª planta	TECNOLOGÍAS Y SISTEMAS DE INFORMACIÓN	926295483	francisco.moya@uclm.es	

Lecturer: **ENCARNACION MARIA MOYANO AVILA** - Group(s): **40**

Building/Office	Department	Phone number	Email	Office hours
Sabatini / 1.54	TECNOLOGÍAS Y SISTEMAS DE INFORMACIÓN	926051487	encarnacion.moyano@uclm.es	

Lecturer: **DAVID MUÑOZ VALERO** - Group(s): **40**

Building/Office	Department	Phone number	Email	Office hours
Sabatini / 1.54	TECNOLOGÍAS Y SISTEMAS DE INFORMACIÓN		David.Munoz@uclm.es	

2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

Not established

4. Degree competences achieved in this course

Course competences

Code	Description
A07	Knowledge of Information Technology and Communication (ITC).
A12	Knowledge of basic materials and technologies that assist the learning of new methods and theories and enable versatility to adapt to new situations.
B03	Basic understanding of the use and programming of computers, operating systems, data bases information programs used in engineering.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Knowledge of basic materials and technologies that aid the preparation for learning new methods and theories and provide the versatility to adapt to new situations

Knowledge of the basics of the use and programming of computers, operating systems, data bases and information programmes with an application in engineering.

Knowledge of Information and Communication Technologies (ICT)

6. Units / Contents

Unit 1:
Unit 2:
Unit 3:
Unit 4:
Unit 5:
Unit 6:
Unit 7:
Unit 8:
Unit 9:
Unit 10:
Unit 11:
Unit 12:

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures		0.68	17	N	-	
Workshops or seminars [ON-SITE]	Case Studies		0.68	17	N	-	
Computer room practice [ON-SITE]	Guided or supervised work		0.52	13	N	-	
Group tutoring sessions [ON-SITE]	Debates		0.18	4.5	N	-	
Other off-site activity [OFF-SITE]	Self-study		2.8	70	N	-	
Writing of reports or projects [OFF-SITE]	Project/Problem Based Learning (PBL)		0.8	20	N	-	
Progress test [ON-SITE]	Assessment tests		0.24	6	N	-	
Final test [ON-SITE]	Assessment tests		0.1	2.5	Y	Y	
		Total:	**6**	**150**			
		Total credits of in-class work: 2.4					**Total class time hours: 60**
		Total credits of out of class work: 3.6					**Total hours of out of class work: 90**

As: Assessable training activity
Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System

Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Final test	0.00%	100.00%	
Total:	**0.00%**	**100.00%**	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject , an ordinary and an extraordinary one (evaluating 100% of the competences).

9. Assignments, course calendar and important dates

Not related to the syllabus/contents

Hours	hours
Computer room practice [PRESENCIAL][Guided or supervised work]	13
Group tutoring sessions [PRESENCIAL][Debates]	4.5
Other off-site activity [AUTÓNOMA][Self-study]	70
Writing of reports or projects [AUTÓNOMA][Project/Problem Based Learning (PBL)]	20
Progress test [PRESENCIAL][Assessment tests]	4
Final test [PRESENCIAL][Assessment tests]	2.5

Global activity

Activities	hours
Computer room practice [PRESENCIAL][Guided or supervised work]	13
Group tutoring sessions [PRESENCIAL][Debates]	4.5
Other off-site activity [AUTÓNOMA][Self-study]	70
Writing of reports or projects [AUTÓNOMA][Project/Problem Based Learning (PBL)]	20
Progress test [PRESENCIAL][Assessment tests]	4
Final test [PRESENCIAL][Assessment tests]	2.5
Total horas:	114

10. Bibliography and Sources

Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Andrés Marzal, Isabel Gracia	Introducción a la programación con Python			978-84-692-5869-9		Libro de contenido libre, nivel introductorio. Puede complementar al de texto.
	http://www.uji.es/bin/publ/edicions/ippython.pdf					
Francisco Moya Fernández	Informática para ingenieros				2017	Libro de texto interactivo recopilado a partir de notas de clase.
	http://rawgit.com/FranciscoMoya/informatica-doc/gh-pages/docs/index.html					
Allen Downey, Jeffrey Elkner, Chris Meyers	Aprenda a pensar como un programador con Python	Green Tea Press		0-9716775-0-6	2002	Libro introductorio en castellano, de contenido libre
	http://gnumbrella.org/2012/05/aprenda-a-pensar-como-un-programador-con-python/					
John V. Guttag	Introduction to Computation and Programming using Python	MIT Press		9780-262-51963-2	2013	Excelente libro de introducción que sigue la misma filosofía que este curso.
	https://mitpress.mit.edu/books/introduction-computation-and-programming-using-python-0					

Mark Pilgrim	Inmersión en Python 3 http://code.google.com/p/inmersionenpython3 Documentación de referencia de Python http://docs.python.org/	2009	Libro de contenido libre, algo más avanzado. Fundamentalmente serán necesarios los manuales de referencia del lenguaje y de la biblioteca de funciones