



1. General information

Course: COMPUTER ENGINEERING**Type:** BASIC**Degree:** 360 - UNDERGRAD. IN INDUSTRIAL ELECTRONICS AND AUTOMAT. ENGINEERING (TO)**Center:** 303 - E.DE INGENIERÍA INDUSTRIAL Y AEROSPOACIAL DE TOLEDO**Year:** 1**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 56304**ECTS credits:** 6**Academic year:** 2023-24**Group(s):** 41**Duration:** First semester**Second language:****English Friendly:** N**Bilingual:** N

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Lecturer: ENCARNACION MARIA MOYANO AVILA - Group(s): 41				
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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 programs 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	A07 A12 B03	0.68	17	N	-	
Workshops or seminars [ON-SITE]	Case Studies	A07 A12 B03	0.68	17	N	-	
Computer room practice [ON-SITE]	Guided or supervised work	A07 A12 B03	0.52	13	N	-	
Group tutoring sessions [ON-SITE]	Debates	A07 A12 B03	0.18	4.5	N	-	
Other off-site activity [OFF-SITE]	Self-study	A07 A12 B03	2.8	70	N	-	
Writing of reports or projects [OFF-SITE]	Project/Problem Based Learning (PBL)	A07 A12 B03	0.8	20	N	-	
Progress test [ON-SITE]	Assessment tests	A07 A12 B03	0.24	6	N	-	
Final test [ON-SITE]	Assessment tests	A07 A12 B03	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
Francisco Moya Fernández	Informática para ingenieros http://rawgit.com/FranciscoMoya/informatica-doc/gh-pages/docs/index.html				2017	Libro de texto interactivo recopilado a partir de notas de clase.
Allen Downey, Jeffrey Elkner, Chris Meyers	Aprenda a pensar como un programador con Python http://gnumbrella.org/2012/05/aprenda-a-pensar-como-un-programador-con-python/	Green Tea Press		0-9716775-0-6	2002	Libro introductorio en castellano, de contenido libre
John V. Guttag	Introduction to Computation and Programming using Python https://mitpress.mit.edu/books/introduction-computation-and-programming-using-python-0	MIT Press		9780-262-51963-2	2013	Excelente libro de introducción que sigue la misma filosofía que este curso.
Mark Pilgrim	Inmersión en Python 3				2009	Libro de contenido libre,

Andrés Marzal, Isabel Gracia	http://code.google.com/p/inmersionenpython3 Documentación de referencia de Python http://docs.python.org/ Introducción a la programación con Python http://www.uji.es/bin/publ/editions/ippython.pdf	algo más avanzado. Fundamentalmente serán necesarios los manuales de referencia del lenguaje y de la biblioteca de funciones Libro de contenido libre, nivel introductorio. Puede complementar al de texto.
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