

UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Cour	se: ELECTRONICS	Co	ode: 56402				
Ту	pe: CORE COURSE	ECTS cred	dits: 6				
Degree: 357 - UNDERGRADUATE DEGREE PROGRAMME IN E ENGINEERING (TO)			TRICAL Academic y	vear: 2023-24			
Cent	ier: 303 - E.DE INGENIERÍA INDUSTRIAL Y A	EROESPOACIAL [OACIAL DE TOLEDO Group(s): 40				
Ye	ear: 2	Duration: C2					
Main language: Spanish				Second language:			
Use of additio languag		English Frien	English Friendly: N				
Web s	ite:		Biling	jual: N			
Lecturer: ALFONS	Lecturer: ALFONSO ISIDRO LÓPEZ DÍAZ - Group(s): 40						
Building/Office	Department	Phone number	Email	Office hours			
Sabatini / 1.37	INGENIERÍA ELÉCTRICA, ELECTRÓNICA, AUTOMÁTICA Y COMUNICACIONES	34926051364	Alfonso.Lopez@uclm.es				

2. Pre-Requisites

Not established

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

Not established

Course compe	tences
Code	Description
401	To understand and have knowledge in an area of study that moves on from the general education attained at secondary level and usually found at a level that, while supported in advanced text books, also includes some aspects that include knowledge found at th
	cutting edge of the field of study.
402	To know how to apply knowledge to work or vocation in a professional manner and possess the competences that are usually demonstrated by the formulation and defence of arguments and the resolution of problems in the field of study.
404	To be able to transmit information, ideas, problems and solutions to both a specialist and non-specialist audience.
405	To have developed the learning skills necessary to undertake subsequent studies with a greater degree of autonomy.
407	Knowledge of Information Technology and Communication (ITC).
408	Appropriate level of oral and written communication.
A12	Knowledge of basic materials and technologies that assist the learning of new methods and theories and enable versatility to adapt t new situations.
A13	Ability to take the initiative to solve problems, take decisions, creativity, critical reasoning and ability to communicate and transmit knowledge, skills and abilities in Electrical Engineering.
A15	Ability to work to specifications and comply with obligatory rules and regulations.
C04	Knowledge and use of the principles of the theory of circuits and electrical machinery.
C05	Knowledge of the fundamentals of electronics.
206	Knowledge of the fundamentals of automatisms and methods of control.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Application in electrical installations

Ability to analyze and design combinational and sequential digital circuits

Interpret and simplify block and flow diagrams

Ability to mathematically model physical systems

Ability to analyze analogue circuits with operational amplifiers

Ability to to analyze analogue and digital circuits using simulation tools

Ability to analyze simple electronic circuits

Know and know how to use the procedures employed for the analysis of circuits in sinusoidal regime

Use the main information support tools

6. Units / Contents			
Unit 1:			
Unit 1.1			
Unit 1.2			
Unit 1.3			
Unit 1.4			

Unit 1.5

	Unit		
	Unit	1.7	
Unit			
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Unit		2.5	
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	Unit		
	Unit		
	Unit	3.6	
Unit	4:		
	Unit	4.1	
	Unit	4.2	
	Unit	4.3	
	Unit	4.4	
	Unit	4.5	
	Unit		
	Unit		
	Unit	-	
	Unit		
		4.10	
Unit			
	Unit	-	
	Unit Unit		
	Unit		
Unit		5.4	
5111	Unit	61	
	Unit		
	Unit	•	
	Unit		
Unit			
	Unit	7.1	
	Unit	7.2	

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		1.2	30	N	-		
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises		0.4	10	N	-		
Laboratory practice or sessions [ON-SITE]	Practical or hands-on activities		0.6	15	N	-		
Self-study [OFF-SITE]	Self-study		3.6	90	N	-		
Progress test [ON-SITE]	Assessment tests		0.12	3	Y	N		
Final test [ON-SITE]	Assessment tests		0.08	2	Y	Y		
Total:				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				
Practicum and practical activities reports assessment	0.00%	30.00%					
Final test	0.00%	70.00%					
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).

A Assignments, source calendar and important datas	
9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	h a
Hours	hours
Progress test [PRESENCIAL][Assessment tests]	3
Final test [PRESENCIAL][Assessment tests]	2
Unit 1 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4.5
Self-study [AUTÓNOMA][Self-study]	14
Unit 2 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4.5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2
_aboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	5
Self-study [AUTÓNOMA][Self-study]	14
Unit 3 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4.5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2
aboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	5
Self-study [AUTÓNOMA][Self-study]	14
Unit 4 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4.5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2
Self-study [AUTÓNOMA][Self-study]	14
Unit 5 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4.5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	- 3
Self-study [AUTÓNOMA][Self-study]	14
Unit 6 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	
	4.5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2
aboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	2
Self-study [AUTÓNOMA][Self-study]	14
Jnit 7 (de 7):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	3
Self-study [AUTÓNOMA][Self-study]	6
Global activity	
Activities	hours
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	10
_aboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	15
Class Attendance (theory) [PRESENCIAL][Lectures]	30
Final test [PRESENCIAL][Assessment tests]	2
Self-study [AUTONOMA][Self-study]	90
Self-study [AUTÓNOMA][Self-study] Progress test [PRESENCIAL][Assessment tests]	90 3

Title/Link	Publishing house	Citv	ISBN	Year	Description
Electrónica Digital Fundamental y Programable	Marcombo		9788426716644	2010	
Principios de electrónica	Mc Graw Hill		13.978-8448156	2007	
Electrónica Digital	Mc Graw Hill		84-7615-843-2	1993	
Electrónica Analógica	Mc Graw Hill		84-7615-664-2	2000	
Anuntos dol profosor					Constituye la bibliografía fundamental de la asignatura. Son
	Electrónica Digital Fundamental y Programable Principios de electrónica Electrónica Digital	Title/LinkhouseElectrónica Digital Fundamental y ProgramableMarcomboPrincipios de electrónicaMc Graw HillElectrónica DigitalMc Graw HillElectrónica AnalógicaMc Graw Hill	Title/LinkhouseCitvElectrónica Digital Fundamental y ProgramableMarcomboPrincipios de electrónicaMc Graw HillElectrónica DigitalMc Graw HillElectrónica AnalógicaMc Graw Hill	Title/LinkhouseCitvISBNElectrónica Digital Fundamental y ProgramableMarcombo9788426716644Principios de electrónicaMc Graw Hill13.978-8448156Electrónica DigitalMc Graw Hill84-7615-843-2Electrónica AnalógicaMc Graw Hill84-7615-664-2	Title/LinkhouseCitvISBNYearElectrónica Digital Fundamental y ProgramableMarcombo97884267166442010Principios de electrónicaMc Graw Hill13.978-84481562007Electrónica DigitalMc Graw Hill84-7615-843-21993Electrónica AnalógicaMc Graw Hill84-7615-664-22000

Plataforma Moodle