

**1. General information****Course:** BUSINESS ADMINISTRATION**Type:** ELECTIVE**Degree:** 356 - UNDERGRADUATE DEGREE PROGRAMME IN ELECTRICAL ENGINEERING (CR)**Center:** 602 - E.T.S. INDUSTRIAL ENGINEERING OF C. REAL**Year:** 4**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 56446**ECTS credits:** 6**Academic year:** 2021-22**Group(s):** 20**Duration:** First semester**Second language:** English**English Friendly:** Y**Bilingual:** N**2. Pre-Requisites**

Not established

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

The structure of the curriculum makes teaching in the field of economics increasingly scarce in engineering careers. This fact is detrimental to the training of future professionals, since these are issues that are of absolute importance in most jobs that many students will access as professionals in their future. That is why it is to reinforce all the contents already seen in the degree in subjects of the area of Industrial Engineering with a wide range of issues of practical nature, so that students end up understanding and applying to the reality that surrounds them what was previously seen at a more theoretical level.

4. Degree competences achieved in this course**Course competences**

Code	Description
A02	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.
A04	To be able to transmit information, ideas, problems and solutions to both a specialist and non-specialist audience.
A05	To have developed the learning skills necessary to undertake subsequent studies with a greater degree of autonomy.
A07	Knowledge of Information Technology and Communication (ITC).
A08	Appropriate level of oral and written communication.
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.
A14	Knowledge to undertake measurements, calculations, evaluations, appraisals, studies, give expert opinions, reports, work plans and similar tasks.
A18	To have organization and planning skills used in businesses and other institutions and organizations.

5. Objectives or Learning Outcomes**Course learning outcomes**

Description

Knowledge of the operation of competitive and non-competitive markets

Knowledge of how to model, analyze, simulate and control dynamic systems

Use of software to resolve mathematical problems that occur in electrical engineering

6. Units / Contents**Unit 1: Introduction to Macroeconomics****Unit 2: Applications I****Unit 3: Introduction to quantitative analysis****Unit 4: Applications II****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	A02 A04 A05 A07 A08 A13 A14 A18	1.3	32.5	N	-	
Class Attendance (practical) [ON-SITE]	Problem solving and exercises	A02 A04 A05 A07 A08 A13 A14 A18	1	25	N	-	
Progress test [ON-SITE]	Assessment tests	A02 A04 A05 A07 A08 A13 A14 A18	0.1	2.5	Y	N	
Study and Exam Preparation [OFF-SITE]	Self-study	A02 A04 A05 A07 A08 A13 A14 A18	2.6	65	N	-	

Writing of reports or projects [OFF-SITE]	Guided or supervised work	A02 A04 A05 A07 A08 A13 A14 A18	1	25	Y	N
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%	Written exam and hands-on with computer
Projects	50.00%	0.00%	
Progress Tests	50.00%	0.00%	
Total:	100.00%	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
Progress test [PRESENCIAL][Assessment tests]	2.5
Study and Exam Preparation [AUTÓNOMA][Self-study]	65
Writing of reports or projects [AUTÓNOMA][Guided or supervised work]	25
Unit 1 (de 4): Introduction to Macroeconomics	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	6
Unit 2 (de 4): Applications I	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	6
Unit 3 (de 4): Introduction to quantitative analysis	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	6
Unit 4 (de 4): Applications II	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	8.5
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	7
Global activity	
Activities	hours
Progress test [PRESENCIAL][Assessment tests]	2.5
Writing of reports or projects [AUTÓNOMA][Guided or supervised work]	25
Class Attendance (theory) [PRESENCIAL][Lectures]	32.5
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	25
Study and Exam Preparation [AUTÓNOMA][Self-study]	65
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Martínez, J.C.	La Economía de Mercado. Virtudes e inconvenientes http://www.eumed.net/cursecon/index.htm	Universidad de Málaga			2000	
Pedregal, D.J.	Análisis cuantitativo de problemas de organización industrial	UCLM			2013	
Pedregal, D.J.	Manual de Macroeconomía. Todo lo necesario para entenderla http://www.lulu.com/shop/diego-jos%C3%A9-pedregal-tercero/macroeconom%C3%ADa/paperback/product-15696810.html	Lulú		978-1-4477-1113-1	2011	
Krugman, PR, Wells, R	Introduction to Macroeconomics	Worth Publishers	New York	9781464110375	146411	2015
Hyndman, R., Athanasopoulos, G.	Forecasting: principles and practice https://www.otexts.org/fpp					