



1. General information

Course: FINANCIAL MATHEMATICS**Type:** CORE COURSE**Degree:** 320 - UNDERGRADUATE DEGREE IN BUSINESS MANAGEMENT AND ADMINISTRATION (CR)**Center:** 403 - FACULTY OF LAW AND SOCIAL SCIENCES OF C. REAL**Year:** 1**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 54308**ECTS credits:** 6**Academic year:** 2023-24**Group(s):** 20 21 29**Duration:** C2**Second language:** English**English Friendly:** Y**Bilingual:** N**Lecturer:** MARTA ALONSO DÍEZ - Group(s): 20 21 29

Building/Office	Department	Phone number	Email	Office hours
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Lecturer: PEDRO GENTO MAHUENDA - Group(s): 20 21 29

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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
E02	Develop and enhance entrepreneurship, adaptability to change and creativity in any functional area of a company or organization.
E09	Ability to carry out a financial evaluation of the different assets of a company at different points in time and at different levels of risk.
E13	Ability to make logical representative models of the business reality
G01	Possession of the skills needed for continuous, self-led, independent learning, which will allow students to develop the learning abilities needed to undertake further study with a high degree of independence.
G04	Ability to use and develop information and communication technologies and to apply them to the corresponding business department by using specific programmes for these business areas.
G05	Capacity for teamwork, to lead, direct, plan and supervise multidisciplinary and multicultural teams in both national and international environments so as to create synergies which benefit organisations.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Know the exchange of economic resources over time between individuals, companies and financial institutions, which involves the analysis of investment decisions and financing in the company, the theory of portfolios, the valuation of assets and the functioning of the financial markets.

Search for information in order to analyze it, interpret its meaning, synthesize it and communicate it to others.

Work autonomously and with personal initiative.

Apply quantitative analysis of the company and its environment.

6. Units / Contents

Unit 1:**Unit 2:****Unit 3:****Unit 4:****Unit 5:**

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	E02 E09 E13 G01 G04	1.33	33.25	N	-
Class Attendance (practical) [ON-SITE]	Problem solving and exercises	E09 E13 G01 G04 G05	0.67	16.75	N	-
Problem solving and/or case studies [ON-SITE]	Combination of methods	E13 G01	0.1	2.5	Y	N
Final test [ON-SITE]	Assessment tests	G01 G04 G05	0.1	2.5	Y	Y
Other off-site activity [OFF-SITE]	Practical or hands-on activities	G01 G05	1.8	45	Y	N
Study and Exam Preparation [OFF-SITE]	Self-study	E13	2	50	N	-
Total:			6	150		
Total credits of in-class work: 2.2			Total class time hours: 55			
Total credits of out of class work: 3.8			Total hours of out of class work: 95			

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	70.00%	100.00%	
Self Evaluation and Co-evaluation	30.00%	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
Class Attendance (theory) [PRESENCIAL][Lectures]	33.25
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	16.75
Problem solving and/or case studies [PRESENCIAL][Combination of methods]	2.5
Final test [PRESENCIAL][Assessment tests]	2.5
Other off-site activity [AUTÓNOMA][Practical or hands-on activities]	45
Study and Exam Preparation [AUTÓNOMA][Self-study]	50
Global activity	
Activities	hours
Problem solving and/or case studies [PRESENCIAL][Combination of methods]	2.5
Class Attendance (theory) [PRESENCIAL][Lectures]	33.25
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	16.75
Final test [PRESENCIAL][Assessment tests]	2.5
Other off-site activity [AUTÓNOMA][Practical or hands-on activities]	45
Study and Exam Preparation [AUTÓNOMA][Self-study]	50
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Cruz Rambaud, S. y Valls Martínez, M.C	Introducción a las matemáticas financieras	Pirámide		978-84-368-2176-5	2008	
Baquero López, María José	Problemas resultados de matemática de las operaciones financieras	AC Thomson		84-7288-194-6		
García Boza, Juan	Problemas resueltos de matemática de las operaciones financieras	Pirámide				
González Catalá, Vicente T.	Análisis de las operaciones financieras bancarias y bursátil	Ciencias sociales		84-87510-29-9	1995	
Bonilla, M. Ivars, A. y Moya, I.	Matemática de las operaciones financieras : teoría y práctic	Thomson		978-84-9732-373-4	2011	
González Catalá, Vicente T.	Operaciones financieras bancarias y bursátiles : Curso Prác	Ciencias Sociales		84-87510-34-5	1999	
Miner Aranzábal, Javier	Curso de matemática financiera	Mcgraw-Hill		978-84-481-6100-2	2008	
Navarro Arribas, Eliseo	Fundamentos de matemáticas financieras	Antoni Bosch		84-95348-01-2	2001	
Pablo López, Andrés de	Matemáticas de las operaciones financieras	Universidad Nacional de Educación a Distancia		(O.C.) 84-362-4674-8	2002	
Valls Martínez, M.C. y Cruz Rambaud, S.	Introducción a las matemáticas financieras : problemas resue	Pirámide		978-84-368-2255-7	2009	

