



1. General information

Course: FINANCIAL MATHEMATICS**Type:** CORE COURSE**Degree:** 318 - UNDERGRADUATE DEGREE IN BUSINESS MANAGEMENT AND ADMINISTRATION (TO)**Center:** 6 - FACULTY OF LAW AND SOCIAL SCIENCES**Year:** 1**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 54308**ECTS credits:** 6**Academic year:** 2023-24**Group(s):** 40 41 45 43**Duration:** C2**Second language:** English**English Friendly:** Y**Bilingual:** N**Lecturer:** LAURA GARCIA JORCANO - Group(s): 40 41 45 43

Building/Office	Department	Phone number	Email	Office hours
San Pedro Mártir / Economía Financiera	ANÁLISIS ECONÓMICO Y FINANZAS	5172	Laura.Garcia@uclm.es	

Lecturer: MARIA SALOME MARTIN GARCIA - Group(s): 43

Building/Office	Department	Phone number	Email	Office hours
San Pedro Mártir	ANÁLISIS ECONÓMICO Y FINANZAS		salome.martin@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
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

Work independently and with personal initiative.

Apply the quantitative analysis of the company and its environment.

To know the exchange of economic resources over time between individuals, companies and financial institutions, which involves the analysis of investment and financing decisions in the company, portfolio theory, asset valuation and the functioning of financial markets.

Search for information, its analysis, interpretation, synthesis and transmission

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]	Combination of methods	E09 E13 G01 G04 G05	0.67	16.75	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	1.6	40	Y	N	
Study and Exam Preparation [OFF-SITE]	Self-study	E13 G01 G04	2	50	N	-	
Problem solving and/or case studies [ON-SITE]	Combination of methods	E13 G01	0.3	7.5	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
Other methods of assessment	30.00%	0.00%	
Final test	70.00%	100.00%	
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][Combination of methods]	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
Problem solving and/or case studies [PRESENCIAL][Combination of methods]	2.5
Global activity	
Activities	hours
Other off-site activity [AUTÓNOMA][Practical or hands-on activities]	45
Class Attendance (theory) [PRESENCIAL][Lectures]	33.25
Class Attendance (practical) [PRESENCIAL][Combination of methods]	16.75
Problem solving and/or case studies [PRESENCIAL][Combination of methods]	2.5
Final test [PRESENCIAL][Assessment tests]	2.5
Study and Exam Preparation [AUTÓNOMA][Self-study]	50
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Cítv	ISBN	Year	Description
Bonilla, M., Ivars, A. y Moya, I.	Matemática de las operaciones financieras: teoría y práctica	Thomson D. L.	Madrid		2006	
Baquero López, María José	Problemas resueltos de matemática de las operaciones financieras	AC Thomson		84-7288-194-6	2003	
Cruz Rambaud, Salvador	Introducción a las matemáticas financieras	Pirámide		978-84-368-2176-5	2008	
Deyá Tortella, Bartolomé	Análisis de las operaciones financieras I	Universitat de les Illes Balears, Servei de Pub		978-84-7632-977-1	2006	
García Boza, Juan	Problemas resueltos de matemáticas de las operaciones financieras	Pirámide	Madrid		2002	
Gil Peláez, Lorenzo	Matemática de las operaciones financieras	Editorial AC		84-7288-123-7	1989	
Gil Peláez, Lorenzo	Matemática de las operaciones financieras : Problemas resueltos	AC		84-7288-122-9	1999	
González Catalá, Vicente T.	Análisis de las operaciones financieras bancarias y bursátiles	Ciencias sociales		84-87510-29-9	1995	
González Catalá, Vicente T.	Ejercicios sobre operaciones financieras, bancarias y bursátiles	Tebar Flores		8473600606	1985	
González Catalá, Vicente T.	Operaciones financieras bancarias y bursátiles : Curso Práctico	Ciencias sociales		84-87510-34-5	1993	
González Velasco, María del	Análisis de las operaciones					

Carmen	financieras (150 supuestos resueltos)	Civitas	84-470-1618-8	2001
González Velasco, María del Carmen	Análisis financiero de los préstamos hipotecarios	Universidad de León, Secretariado de Publicacio	84-7719-966-3	2001
Lozano Gutiérrez, María del Carmen	Curso de matemática financiera II : ejercicios prácticos	Universidad	84-7684-571-5	1994
Meneu, Vicente	Operaciones financieras en el Mercado Español	Ariel	84-344-2091-0	1994
Miner Aranzábal, Javier	Curso de matemática financiera II : ejercicios prácticos	Mcgraw-Hill	978-84-481-6100-2	2008
Miner Aranzábal, Javier	Matemática financiera	Mcgraw-Hill	84-481-9829-8	2004
Navarro Arribas, Eliseo	Fundamentos de matemáticas financieras	Antoni Bosch	84-95348-01-2	2001
Pablo López, Andrés de	Matemática de las operaciones financieras	Nacional de Educación a Distancia	84-362-4675-6 (v.1)	2000
Pablo López, Andrés de	Matemática de las operaciones financieras	Universidad Nacional de Educación a Distancia	84-362-4058-8 (v.2)	2002
Pozo Carrero, Eloy	Problemas de matemática financiera	Esic	84-7356-131-7	1996
Sierra Fernández, María del Pilar	Préstamos bancarios : tipos y operativa : 50 ejercicios prácticos	Universidad de León, Secretariado de Publicacio	84-7719-965-5	2001
Valls Martínez, María del Carmen	Cálculo financiero: teoría y ejercicios	AC	84-7288-166-0	2006
Valls Martínez, María del Carmen	Introducción a las matemáticas financieras : problemas resueltos	Pirámide	978-84-368-2255-7	2009
Valls Martínez, María del Carmen	Problemas resueltos de matemáticas de las operaciones financieras	Pirámide	978-84-368-1703-4	2008
Alhabeeb, M. J.	Mathematical finance	John Wiley & Sons	978-0-470-64184-2	2012
Navarro Arribas, Eliseo	Matemáticas de las operaciones financieras	Pirámide	Madrid 978-84-368-4050-6	2019