



1. General information

Course: FINANCIAL MATHEMATICS

Type: CORE COURSE

Degree: 317 - UNDERGRADUATE DEGREE IN BUSINESS MANAGEMENT AND ADMINISTRATION (AB)

Center: 5 - FACULTY OF ECONOMICS AND BUSINESS

Year: 1

Main language: Spanish

Use of additional languages:

Web site:

Code: 54308

ECTS credits: 6

Academic year: 2020-21

Group(s): 12 13

Duration: C2

Second language: English

English Friendly: Y

Bilingual: N

Lecturer: ANA MARIA ESCRIBANO LOPEZ - Group(s): 12 13

Building/Office	Department	Phone number	Email	Office hours
Facultad de CC Económicas y Empresariales/Despacho 3.07	ANÁLISIS ECONÓMICO Y FINANZAS	926052909	ana.escribano@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 autonomously and with personal initiative.

To apply the quantitative analysis of the company and its environment.

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

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.

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 G05	1.33	33.25	N	-	
Class Attendance (practical) [ON-SITE]	Combination of methods	E02 E09 E13 G01 G04 G05	0.67	16.75	N	-	
Problem solving and/or case studies [ON-SITE]	Combination of methods	E13 G01	0.16	4	Y	N	

Final test [ON-SITE]	Assessment tests	G01 G04 G05	0.1	2.5	Y	Y	
Study and Exam Preparation [OFF-SITE]	Self-study	E13 G01 G04	2	50	N	-	
Other off-site activity [OFF-SITE]	Combination of methods	E02 E13 G01 G04	1.74	43.5	Y	N	
Total:			6	150			
Total credits of in-class work: 2.26			Total class time hours: 56.5				
Total credits of out of class work: 3.74			Total hours of out of class work: 93.5				

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%	
Other methods of assessment	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][Combination of methods]	16.75
Problem solving and/or case studies [PRESENCIAL][Combination of methods]	4
Final test [PRESENCIAL][Assessment tests]	2.5
Study and Exam Preparation [AUTÓNOMA][Self-study]	50
Other off-site activity [AUTÓNOMA][Combination of methods]	43.5
Global activity	
Activities	hours
Final test [PRESENCIAL][Assessment tests]	2.5
Problem solving and/or case studies [PRESENCIAL][Combination of methods]	4
Study and Exam Preparation [AUTÓNOMA][Self-study]	50
Other off-site activity [AUTÓNOMA][Combination of methods]	43.5
Class Attendance (theory) [PRESENCIAL][Lectures]	33.25
Class Attendance (practical) [PRESENCIAL][Combination of methods]	16.75
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Valls Martínez, María del Carmen	Cálculo financiero: teoría y ejercicios	A.C.		84-7288-166-0	2006	
González Velasco, María del Carmen	Análisis de las operaciones financieras (150 supuestos resueltos)	Civitas		84-470-1618-8	2001	
Valls Martínez, María del Carmen	Problemas resueltos de matemática de las operaciones financieras	Pirámide		978-84-368-1703-4	2008	
Cruz Rambaud, Salvador	Introducción a las matemáticas financieras	Pirámide		978-84-368-2176-5	2008	
García Boza, Juan	Problemas resueltos de matemáticas de las operaciones financieras	Pirámide	Madrid		2002	
Miner Aranzábal, Javier	Matemática financiera	McGraw-Hill		978-84-481-9829-9	2004	
González Catalá, Vicente T.	Ejercicios sobre operaciones financieras, bancarias y bursátiles	Tebar Flores		84-73600-60-6	1985	
Sierra Fernández, María del Pilar	Préstamos bancarios: tipos y operativa: 50 ejercicios prácticos	Universidad de León, Secretariado de Publicaciones		84-7719-965-5	2001	
Bonilla Musoles, M., Ivars Escortell, A. y Moya Clemente, I.	Matemática de las operaciones financieras: teoría y práctica	Thomson		978-84-9732-373-4	2011	
Gil Peláez, Lorenzo	Matemática de las operaciones financieras	Editorial AC		84-7288-123-7	1989	
Meneu, Vicente, Jordá, María Paz y Barreira, María Teresa	Operaciones financieras en el Mercado Español	Ariel		84-344-2091-0	1994	
Pablo López, Andrés de	Matemática de las operaciones	Universidad Nacional de		84-362-3774-9	2000	

Alhabeeb, M. J.	financieras Mathematical finance	Educación a Distancia John Wiley & Sons		978-0-470-64184-2	2012
Baquero López, María José	Problemas resueltos de matemática de las operaciones financieras	AC: Thomson		84-7288-194-6	2003
González Catalá, Vicente T.	Análisis de las operaciones financieras bancarias y bursátil	Ciencias sociales,		84-87510-29-9	1995
González Velasco, María del Carmen	Análisis financiero de los préstamos hipotecarios	Universidad de León, Secretariado de Publicaciones		84-7719-966-3	2001
Pablo López, Andrés de	Matemática de las operaciones financieras	Universidad Nacional de Educación a Distancia		978-84-362-4675-6	2002
Gil Peláez, Lorenzo	Matemática de las operaciones financieras: Problemas resueltos	A.C.		84-7288-122-9	1999
Navarro Arribas, Eliseo y Nave Pineda, Juan M.	Fundamentos de matemáticas financieras	Antoni Bosch	Barcelona	84-95348-01-2	2001
Miner Aranzábal, Javier	Curso de matemática financiera	Mcgraw-Hill		978-84-481-6100-2	2008
Lozano Gutiérrez, María del Carmen	Curso de matemática financiera II: ejercicios prácticos	Universidad		84-7684-571-5	1994
Navarro Arribas, Eliseo	Matemáticas de las operaciones financieras	Pirámide	Madrid	978-84-368-4050-6	2019
Deyá Tortella, Bartolomé	Análisis de las operaciones financieras I	Universitat de les Illes Balears, Servei de Public		978-84-7632-977-1	2006
González Catalá, Vicente T.	Operaciones financieras bancarias y bursátiles: Curso Práctico	Ciencias Sociales		84-87510-34-5	1993
Pozo Carrero, Eloy	Problemas de matemática financiera	Esic		84-7356-131-7	1996
Valls Martínez, María del Carmen	Introducción a las matemáticas financieras: problemas resueltos	Pirámide		978-84-368-2255-7	2009