

**1. General information****Course:** ECONOMIC ANALYSIS AND FINANCE**Type:** ELECTIVE**Degree:** 316 - UNDERGRADUATE DEGREE IN ECONOMICS**Center:** 5 - FACULTY OF ECONOMICS AND BUSINESS**Year:** 4**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 53334**ECTS credits:** 4.5**Academic year:** 2019-20**Group(s):** 10**Duration:** First semester**Second language:** English**English Friendly:** Y**Bilingual:** N**Lecturer:** FRANCISCO ESCRIBANO SOTOS - Group(s): 10

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**2. Pre-Requisites**

Basic knowledge about mathematical and financial concepts, such as calculus and numerical series, progressions, logarithms, derivation and basic integration, interest rates and financial transactions, among others. Therefore, students should be also enrolled in the subject Financial Management.

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

Objective of the course

The purpose of this elective subject is to increase knowledge about Finance, specifically regarding valuation of Fixed-Income Securities, Term Structure of Interest Rates (in the first part of the course), and Portfolio Management, among others (during the second half of semester).

Relationship with other subjects

This subject is related with many others, because of concepts such as interest rate, financial transactions, loans and valuation of financial assets (directly interrelated with Economic Policy, Basic Accounting, Principles of Economics, Mathematics, Statistics, Introduction to Econometrics, Economic History, Financial System, etc.).

Relevance for the professional career

The subject, together with "Financial Management", is an essential part of the background in a degree in Economics as well as the professional career, both in private enterprise, a financial institution or a public entity. The role of this subject is essential because of the relevance of the financial aspects. In addition, training in finance can be complemented with another elective subject: "Mathematical Modelling for Finance".

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

Code	Description
E02	Understand the role of institutions and economic agents in economic and social activities.
E03	Ability to find economic data and select relevant facts.
E04	Analytical skills to identify and anticipate relevant economic and legal issues and the different alternative solutions.
E06	Application of professional criteria to the analysis of problems, based on the use of technical tools.
E15	Ability to develop relevant financial information for business decision-making.
G02	Ability to understand the ethical responsibility and the code of ethics of professionals working in the field of economics. To know, respect and contribute to the fulfillment of the commitments related to gender equality, non-discrimination, human rights legislation and development cooperation.
G04	Ability for the use and development of information and communication technology in the development of professional activity.

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

Description

Train the student to listen to and defend arguments orally or in writing

Train the student to search for information in order to analyze it, interpret its meaning, synthesize it and communicate it to others.

Train the student to work out problems in creative and innovative ways.

Train the student to raise the ethical exercise of the profession, becoming aware of social responsibility in decision-making

**6. Units / Contents****Unit 1: FINANCIAL MARKETS****Unit 2: VALUATION OF FIXED-INCOME SECURITIES****Unit 3: TERM STRUCTURE OF INTEREST RATES****Unit 4: RISK AND EXPECTED RETURN OF ASSETS****Unit 5: MARKOWITZ PORTFOLIO SELECTION****Unit 6: THE CAPITAL ASSET PRICING MODEL (CAPM)**

**Unit 7: OTHER TOPICS OF INTEREST IN FINANCE**

7. Activities, Units/Modules and Methodology								
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	R	Description
Class Attendance (theory) [ON-SITE]	Lectures	E02 E03 E04 E06 G02	1	25	N	-	-	
Class Attendance (practical) [ON-SITE]	Problem solving and exercises	E02 E03 E04 E06 E15 G02 G04	0.5	12.5	Y	N	N	
Other off-site activity [OFF-SITE]	Combination of methods	E02 E03 E04 E06 E15 G02 G04	1	25	Y	Y	Y	
Study and Exam Preparation [OFF-SITE]	Self-study	E02 E03 E04 E06 E15 G02 G04	1.9	47.5	N	-	-	
Final test [ON-SITE]	Assessment tests	E02 E03 E04 E06 E15 G02 G04	0.1	2.5	Y	Y	Y	
<b>Total:</b>			<b>4.5</b>	<b>112.5</b>				
<b>Total credits of in-class work: 1.6</b>				<b>Total class time hours: 40</b>				
<b>Total credits of out of class work: 2.9</b>				<b>Total hours of out of class work: 72.5</b>				

As: Assessable training activity

Com: Training activity of compulsory overcoming

R: Rescheduling training activity

8. Evaluation criteria and Grading System			
Evaluation System	Grading System		Description
	Face-to-Face	Self-Study Student	
Self Evaluation and Co-evaluation	25.00%	0.00%	
Final test	60.00%	0.00%	
Assessment of active participation	15.00%	0.00%	
<b>Total:</b>	<b>100.00%</b>	<b>0.00%</b>	

9. Assignments, course calendar and important dates	
<b>Not related to the syllabus/contents</b>	
<b>Hours</b>	<b>hours</b>
Study and Exam Preparation [AUTÓNOMA][Self-study]	47.5
Final test [PRESENCIAL][Assessment tests]	2.5
<b>Unit 1 (de 7): FINANCIAL MARKETS</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	5.5
<b>Unit 2 (de 7): VALUATION OF FIXED-INCOME SECURITIES</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	4.5
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	2.75
Other off-site activity [AUTÓNOMA][Combination of methods]	6.25
<b>Unit 3 (de 7): TERM STRUCTURE OF INTEREST RATES</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	4.5
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	2.5
Other off-site activity [AUTÓNOMA][Combination of methods]	5
<b>Unit 4 (de 7): RISK AND EXPECTED RETURN OF ASSETS</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	1.75
<b>Unit 5 (de 7): MARKOWITZ PORTFOLIO SELECTION</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	3.25
Other off-site activity [AUTÓNOMA][Combination of methods]	4.75
<b>Unit 6 (de 7): THE CAPITAL ASSET PRICING MODEL (CAPM)</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	2.5
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	2.25
Other off-site activity [AUTÓNOMA][Combination of methods]	9
<b>Global activity</b>	
<b>Activities</b>	<b>hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	25
Class Attendance (practical) [PRESENCIAL][Problem solving and exercises]	12.5

Other off-site activity [AUTÓNOMA][Combination of methods]	25
Study and Exam Preparation [AUTÓNOMA][Self-study]	47.5
Final test [PRESENCIAL][Assessment tests]	2.5
<b>Total horas: 112.5</b>	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	City	ISBN	Year	Description
Haugen, robert A.	Modern Investment theory	Prentice Hall		0-13-019170-1	2001	
Julio Pindado García	Finanzas Empresariales	Paraninfo	Madrid	978-84-9732-895-1	2012	
Navarro, E. y Nave, JM	Fundamentos de matemáticas financieras	Antoni Bosch	Barcelona		2001	
Eliseo Navarro	Matemáticas de las operaciones financieras	Pirámide	Madrid	978-84-368-4050-6	2019	