

**COURSE DATA****Data Subject**

Code	35854
Name	Fixed-income markets and strategies
Cycle	Grade
ECTS Credits	6.0
Academic year	2020 - 2021

Study (s)

Degree	Center	Acad. year	Period
1313 - Degree in Business Management and Administration	Faculty of Economics	3	Second term
1330 - Degree in Business Management and Administration (Ontinyent)	Faculty of Economics	3	Second term

Subject-matter

Degree	Subject-matter	Character
1313 - Degree in Business Management and Administration	45 - Compulsory subjects in the pathway: financial management	Optional
1330 - Degree in Business Management and Administration (Ontinyent)	24 - Materia Optatividad 3er curso	Optional

Coordination

Name	Department
FURIO ORTEGA, MARIA DOLORES	113 - Financial and Actuarial Economics

SUMMARY

The course *Fixed-income markets and strategies* is a compulsory one belonging the itinerary of to the Financial Management and the Business-Legal Management modules. This course is taught during the second term of the third year of the Degree in Business Administration, representing 6 ECTS crèdits.

The main aim of this course is to provide students with a basic, though rigorous and updated, analysis of financial transactions and fixed income spot and derivatives Markets.



The contents of this course are structured in three main parts. The first one consists of an introduction to financial trading. It is devoted to review the most relevant concepts covered by the course *Financial Maths* which was studied during the the first term of the second year and to go into several ways of trading in depth, both through single and double transactions. The second part is made up of three units devoted to fixed income securities and Markets. Short-term debt, both Treasury bills and commercial paper, mid-term and long-term debt, including Treasury bonds and Corporate bonds are carefully analyzed. Lastly, a descriptive analysis of fixed income Markets is made. The third part of the course is divided into three units and deals with the interest rate risk management, focusing not only on the interest rate risk and the financial immunization but also on the analysis of derivatives instruments both on OTC and on Exchanges.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

The basic lines of the course are articulated around the fundamental concepts of the Financial Mathematics and of the analysis and management of interest risk in financial operations. In particular, the aim of the course is to provide the student with a simple, at the same time rigorous and updated, analysis of financial operations and fixed income markets, as they are developed in the Spanish market.

OUTCOMES

1313 - Degree in Business Management and Administration

- Demonstrate capacity for analysis and synthesis.
- Be able to solve problems.
- Be able to make decisions.
- Know the fundamentals that govern financial operations and markets.
- Know the fixed-income and equity markets and their derivatives, as well as the different securities traded on them.
- Be able to value financial assets and derivatives, and to manage fixed-income and equity portfolios.

LEARNING OUTCOMES

- Possibility of discriminating and selecting among the different financial assets, based on the objectives to be achieved.



- Possibility of trading in the different financial markets including derivatives, based on knowledge of the operation, valuation rules and operation thereof.
- Ability to quantify adequately the different risks to which companies are exposed, taking into account their financial investments.
- Ability to manage the interest risk of fixed income portfolios.

DESCRIPTION OF CONTENTS

1. TRADING OF FINANCIAL TRANSACTIONS

In this first chapter, the goal is twofold. Firstly, to remind the student of key concepts related to financial transactions and financial securities valuation that she learned in previous courses and, secondly, to introduce several ways of trading on the Spanish market.

1. Financial transaction.
 - 1.1. Concept.
 - 1.2. Outstanding balance.
 - 1.3. Loans.
 - 1.4. The internal effective rate and additional terms and conditions.
2. Internal and external liquidity.
3. Market value of the financial transactions.
4. Public and private debt investment.
5. Ways of trading.
 - 5.1. Transaction classification.
 - 5.2. Single transactions
 - 5.2.1. Spot transactions.
 - 5.2.2. Forward transactions.
 - 5.3. Double transactions.
 - 5.3.1. Blocked repos.
 - 5.3.2. Ordinary repos.
 - 5.3.3. Criterion to be followed in the calculus of the price and yield of double transactions.
 - 5.4. Stripping and Reconstitution .
6. Rating agencies.

2. SHORT-TERM DEBT

This chapter tackles the concept, characteristics and valuation of the most relevant short-term fixed income securities in the Spanish market: Treasury bills and commercial paper issued by firms and Spanish regional governments.

1. Introduction.
2. Treasury bills.



- 2.1. Characteristics
- 2.2. Issued in auction.
- 2.3. Interest rates.
- 2.4. Ways of trading.
- 2.5. Internal effective rates.
3. Commercial paper issued by firms.
- 3.1. Characteristics
- 3.2. Issue and trading.
- 3.3. Interest rates.
- 3.4. Internal effective rates.
4. Commercial paper issued by the Generalitat Valenciana.

3. MID-TERM AND LONG-TERM DEBT

This chapter tackles the study of the characteristics and valuation of mid-term and long-term Public and Private Debt securities. It specially focuses on the issues in auctions of Government bonds and their subsequent trading, as well as on the wide range of corporate bonds traded on the SEND market.

1. Bonds:
 - 1.1. Concept and notation.
 - 1.2. Classification and types of issue.
2. Government bonds.
 - 2.1. Characteristics
 - 2.2. Issued in auction.
 - 2.3. Tipos de interés.
 - 2.4. Ways of trading.
 - 2.5. Internal effective rates.
 - 2.6. Strip bonds.
3. Corporative debt.
 - 3.1. Bonds with options.
 - 3.2. Other fixed income private securities.

4. FIXED INCOME TRADABLE SECURITIES MARKETS

This chapter deals with the basic characteristics of primary and secondary fixed income Markets in the present Spanish financial system.

1. Public Debt Market
 - 1.1. Introduction.
 - 1.2. Institutional framework of the Public Debt Market.
 - 1.3. The Public Debt Primary Market.
 - 1.4. The Public Debt Secondary Market.
2. Private Fixed Income Market
 - 2.1. Introduction.
 - 2.2. The Primary Market.



- 2.3. The Secondary Market.
- 2.3.1. The AIAF Market.
- 2.3.2. The Stock Exchanges.
- 2.3.3. SEND
- 2.3.4 Debt Market in book-entry form.

5. THE INTEREST RATE RISK

This chapter is devoted to the analysis of interest rate risk. In order to face potential non-expected variations in interest rates, the goal is analyzing the consequences derived from the management of fixed income portfolios.

- 1. Valuing financial transactions and interest rates.
- 2. Spot and Forward interest rates.
- 3. Term structure of interest rates.
- 3.1 Definition.
- 3.2. Applications and limits.
- 4. The price risk.
- 4.1. Concept.
- 4.2. Duration and convexity.
- 5. The reinvestment risk and the financial immunization.
- 6. Interest rate risk and trading of financial transactions.

6. INTEREST RATE DERIVATIVES

This chapter deals with the main characteristics, uses and settlement of derivatives instruments on interest rates traded on OTC Markets.

- 1. Forward Rate Agreements (FRA).
- 1.1. Concept and characteristics.
- 1.2. Calculation of maximum and minimum interest rates.
- 1.3. Settlement of the contract and example.
- 1.4. Hedging and speculation.
- 2. SWAP Agreements.
- 2.1. Concept and components.
- 2.2. Hedging and speculation.
- 2.3. Settlement of the contract and example.
- 2.4. Difference with FRA.
- 3. OTC options on interest rates.
- 3.1. CAP options.
- 3.2. FLOOR options.
- 3.3. COLLAR options.
- 4. ORGANISED MARKETS

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	30,00	100
Classroom practices	30,00	100
Development of individual work	12,00	0
Study and independent work	48,00	0
Readings supplementary material	2,00	0
Preparation of practical classes and problem	28,00	0
TOTAL	150,00	

TEACHING METHODOLOGY

The course has a theoretical-practical nature, so the theoretical classes will be complemented with practical classes dedicated to solving exercises that provide the necessary complements for the correct understanding of the contents of the theoretical classes. To that end, in addition to the resolution of numerical issues, the aim is to familiarize the student with the terminology, operation and functioning of the Spanish fixed income financial markets, using for this purpose brochures and quotation bulletins supplied by the markets, as well as information published in the press.

The theoretical classes will consist of the exposition by the professor of the topics of the course. The participation of the student in terms of their critical capacity and debate will be positively valued. On the other hand, the practical classes will consist in the resolution of practices by the professor and/or the student. For the development of these classes the student will be given a questionnaire of exercises, from which some of them will be allocated to personal work. In addition, individual or group practical exercises will be required, which must be given to the professor or presented in class.

EVALUATION

The evaluation procedure of the course will consist of:

1. A written exam, which may consist of theoretical questions as well as problems and real cases. This exam will represent 60% of the final grade.
2. The continuous assessment based on the attendance to class and the rest of face-to-face formative activities and the participation and implication in the teaching-learning process. This section will consist of an evaluation of the practical activities developed by the student, from the preparation of studies, and/or oral presentations. The evaluation of the written questionnaires/written tests is also included. This section will represent 40% of the grade of the course. All the requested works are individual and, due to the time necessary for their elaboration that would make it unfeasible to include them in the final exam, they are considered as non-recoverable.



The final grade is obtained from the weighted average of the marks of each part of the evaluation, provided that the part corresponding to the written test or exam officially called by the Faculty of Economics has been passed. In case the written test or exam is not passed, the final grade will be the weighted sum of the test score and the continuous assessment, without exceeding a maximum of 4.5.

Two aspects should be taken into account: i) those students who do not pass the course in first call, will have the option of being evaluated in second call maintaining the qualification obtained in section 2, not being able to deliver for this second call the so-defined non-recoverable works; ii) in the second call the same evaluation and weighting criteria will be used as in the first call.

REFERENCES

Basic

- Bibliografía básica

Asociación Española de Banca (2013): Definiciones para la interpretación de las confirmaciones de operaciones documentadas al amparo del contrato marco de operaciones financieras, CMOF 2013, Anexo II.

AFI (2019): Guía del Sistema Financiero Español, Biblioteca de Economía y Finanzas, Ediciones Empresa Global, Madrid, 7ª Edición.

Código de la Ordenación de los Mercados Financieros, <https://boe.es/legislacion/codigos/codigo.php?id=215&modo=1-a=0>.

Knop, R. (2005): Manual de Instrumentos Derivados, Biblioteca de Economía y Finanzas, 13, Ediciones Empresa Global, Madrid.

Meneu, V.; M.P. Jordá y M.T. Barreira (1994): Operaciones Financieras en el mercado español, Editorial Ariel Economía, Barcelona.

Meneu, V.; E. Navarro y M.T. Barreira (1992): Análisis y Gestión del riesgo de interés, Editorial Ariel Economía, Barcelona.

Navarro, E. (2019): Matemáticas de las operaciones financieras, Ediciones Pirámide, Madrid.

Vilariño, A.; J. Pérez y F. García (2008): Derivados. Valor Razonable, Riesgos y Contabilidad. Teoría y casos prácticos. Ed. Pearson Educación.

Additional

- WEBS de interés

AEB: <https://www.aebanca.es/es/index.htm>

AIAF: <http://www.aiaf.es/esp/asp/Portadas/Home.aspx>

Banco de España: www.bde.es

BME: <http://www.bmemarketdata.es/esp/Fin-Dia-Historica/Boletin-de-Operaciones-de-Deuda-Publica>

BME Renta Fija: <http://www.bmerf.es/esp/asp/Portadas/Home.aspx>

CNMV: www.cnmv.es

EUREX: www.eurexchange.com

SEND: <http://www.aiaf.es/esp/asp/Portadas/HomeSEND.aspx>

Tesoro Público: www.tesoro.es.



ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

The current situation of pandemic caused by COVID-19 requires the course guide to be amended as follows:

1) Contents

The contents included in the course guide remain unchanged.

2) Workload and planning of sessions

The weight assigned to the different course components that add up to the workload in ECTS credits established in the course guide remain unchanged. The sessions scheduled, both theoretical and practical, will be taught on the same dates and at the same times, with the same duration.

3) Teaching methodology

a. Materials will be uploaded to the virtual classroom

b. Proposed activities will be uploaded to the virtual classroom

c. The modality of classes for students will depend on the social and health conditions and the restrictions established by the competent authorities.

In the case of **online teaching**, classes will be given by videoconference, preferably synchronous, using Blackboard Collaborate, Teams, Skype or the tool that the lecturer considers appropriate to optimize the student's teaching-learning process during the scheduled program sessions, **which remain the same days and times**.

In the case of **blended teaching**, the students will have to access the classroom in alternate weeks according to the initial of their last name (A-M or L-Z). The classes will be broadcast so that the students will have face-to-face teaching one week, and the next week they will follow the classes in streaming. The timetable of classes can be found here: <https://ir.uv.es/estudia/horarios2sem>.

d. Videoconference tutorials will be offered via BBC or Skype.

e. Links to news related to the topics covered in the subject will be provided.

4) Evaluation

In order to facilitate the evaluation of all students, given that the current pandemic circumstances have caused some internships in companies to take place at a time that coincides with that of the classes, the following two evaluation possibilities are offered so that each Student will be able to choose at the beginning of the semester the option that will be applicable:



OPTION A. The same structure proposed in the teaching guide is maintained, being able to reach up to 40% through the continuous evaluation developed during the classes and up to 60% through the final exam.

OPTION B. The evaluation will be carried out exclusively through the final exam, which will represent 100% of the grade.

IMPORTANT: Students who opt for OPTION B must expressly indicate this through an email addressed to the teacher of the subject within the first two weeks of the semester. Those students who, after the aforementioned period of two weeks, have not communicated by email their preference for the second type of assessment, will irrevocably be under the assessment system described in OPTION A.

The structure proposed in the course guide is maintained. The final exam will be delivered face-to-face as long as the health conditions allow. Otherwise, students will be timely informed.

5) Bibliography

The same bibliography as that proposed in the teaching guide is maintained.