



## COURSE DATA

### DATA SUBJECT

**Code:** 35854  
**Name:** Fixed-income markets and strategies  
**Cycle:** Undergraduate Studies  
**ECTS Credits:** 6  
**Academic year:** 2025-26

### STUDY (S)

Degree	Center	Acad. year	Period
1313 - Degree in Business Management and Administration	Facultat d'Economia	4	Second quarter
1313 - Degree in Business Management and Administration	Facultat d'Economia	3	Second quarter
1330 - Degree in Business Management and Administration (Ontinyent)	Facultat d'Economia	4	
1330 - Degree in Business Management and Administration (Ontinyent)	Facultat d'Economia	3	

### SUBJECT-MATTER

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

### COORDINATION

PARDO TORNERO ANGEL

## SUMMARY

The course *Fixed-income markets and strategies* is a compulsory one belonging the itinerary of to the Financial Management. 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 two 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.

## COMPETENCES / LEARNING OUTCOMES

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Be able to make decisions.

Be able to solve problems.

Be able to value financial assets and derivatives, and to manage fixed-income and equity portfolios.

Demonstrate capacity for analysis and synthesis.

Know the fixed-income and equity markets and their derivatives, as well as the different securities traded on them.

Know the fundamentals that govern financial operations and markets.

## 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 and Outstanding balance.
  - 1.2. Loans.
  - 1.3. 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 (REPOs).
    - 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 in the Spanish Market.
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.



### 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 corporative bonds traded on the SEND market.

1. Bonds.
  - 1.1. Concept and notation.
  - 1.2. Classification and types of issue.
  - 1.3. Financial, fiscal and commercial characteristics.
  - 1.4. Internal effective rates.
  - 1.5. Financial value of the loan and of an obligation.
  - 1.6. Ways of trading.
  - 1.7. Early cancellation clauses.
2. State debt in the medium and long term.
  - 2.1. Government bonds.
  - 2.2. Strip bonds.
  - 2.3. Indexed bonds.
  - 2.4. Green bonds.
3. Corporative debt.
  - 3.1. Bonds with options.
  - 3.2. ESG Bonds (Environmental, Social and Governance)
  - 3.3. 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 Primary Market.
  - 1.4. The Secondary Market.
2. Private Fixed Income Market.
  - 2.1. Introduction.
  - 2.2. The Primary Market.
  - 2.3. The Secondary Market.

### 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. Spot and Forward interest rates.
2. Term structure of interest rates.
  - 2.1. Definition.
  - 2.2. Applications and limits.
3. Valuing financial transactions and interest rates.
4. The price risk.
  - 4.1. Concept.
  - 4.2. Duration.
  - 4.3. Convexity.
5. The reinvestment risk and the financial immunization.
6. Interest rate risk and trading.

## 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 (FRAs).
  - 1.1. Introduction.
  - 1.2. Concept and characteristics.
  - 1.3. Settlement.
2. SWAP Agreements.
  - 2.1. Concept and components.
  - 2.2. Applications.
  - 2.3. Settlement.
3. OTC options on interest rates.
  - 3.1. Introduction.
  - 3.2. CAP options.
  - 3.3. FLOOR options.
  - 3.4. COLLAR options.
4. Derivatives in Exchanges.

### WORKLOAD

#### PRESENCIAL ACTIVITIES

Activity	Hours
Theory	30,00
Classroom practices	30,00
<b>Total hours</b>	<b>60,00</b>

#### NON PRESENCIAL ACTIVITIES



Activity	Hours
Attendance at other activities	0,00
Individual or group project	0,00
Independent study and work	20,00
Preparation of lessons	20,00
Preparation for assessment activities	20,00
Resolution of case studies	30,00
<b>Total hours</b>	<b>90,00</b>

## 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 grades for each part of the evaluation, provided that a minimum score of 4 has been achieved in the written exam. Otherwise, the final grade will be the weighted sum of the grade of the written exam and continuous assessment, with a maximum possible score 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.

Also note that any possible change of date and/or time of the final exams will be governed by the procedure and the term established in article 9.2 of the "Reglament d'avaluació i qualificació de la Universitat de València per a títols de grau i màster, ACGUV 108/2017 de 30 de mayo".

In particular, in the event of a coincidence of date or time between final exams of subjects of the same degree in which the student has enrolled, if this subject is obliged to make the change, a written request must be submitted by the student to the responsible department at least one month in advance from the start of the official examination period. You can send your request electronically to: dep.economia.financera@uv.es only from your email address alumni.uv.es.

Any e-mail sent from a private address will not be accepted.

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## REFERENCES

- Asociación Española de Banca (2020): Definiciones para la interpretación de las confirmaciones de operaciones documentadas al amparo del contrato marco de operaciones financieras. CMOF 2020, Anexo II. <https://www.aebanca.es/contrato-marco-de-operaciones-financieras/>
- AFI (2024): Guía del Sistema Financiero Español, Biblioteca de Economía y Finanzas, Ediciones Empresa Global, Madrid, 9ª Edición.
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- Knop, R. (2005): Manual de Instrumentos Derivados, Biblioteca de Economía y Finanzas, 13, Ediciones Empresa Global, Madrid.



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- Navarro, E. (2019): Matemáticas de las operaciones financieras, Ediciones Pirámide, Madrid.
- AEB: <https://www.aebanca.es/es/index.htm>
- AIAF: <https://www.bmerf.es/esp/asp/Portadas/HomeAIAF.aspx>
- Banco de España: [www.bde.es](http://www.bde.es)
- BME: <http://www.bmemarketdata.es/esp/Fin-Dia-Historica/Boletin-de-Operaciones-de-Deuda-Publica>
- BME Renta Fija: <https://www.bmerf.es/esp/asp/Portadas/Home.aspx>



- CNMV: [www.cnmv.es](http://www.cnmv.es)
- ESMA: The European sustainable debt market ¿ do issuers benefit from an ESG pricing effect?, ESMA50-524821-2938, 6 octubre 2023.
- EUREX: [www.eurexchange.com](http://www.eurexchange.com)
- Guía Fiscal Básica de Productos Financieros, Revista Bolsa, BME, [www.bolsasymercados.es](http://www.bolsasymercados.es)
- SEND: <http://www.aiaf.es/esp/asp/Portadas/HomeSEND.aspx>
- Tesoro Público: [www.tesoro.es](http://www.tesoro.es)