

27548 - Financial Engineering

Información del Plan Docente

Academic Year	2017/18
Faculty / School	109 - Facultad de Economía y Empresa
Degree	449 - Degree in Finance and Accounting
ECTS	6.0
Year	4
Semester	Second semester
Subject Type	Optional
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The subject includes theoretical and practical lectures. Due to the operative content of the subject, practical examples will be introduced in the theoretical lectures with analyses close to the real markets. Lectures are expected to be participative.

Practical lectures will be developed in a computer framework including real cases worked and solved by the students under the supervision of the teacher.

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Complementary voluntary activities will be proposed consisting in group or individual analyses.

5.2.Learning tasks

Participative theoretical lectures

Practical lectures to solve real cases

Individual written exams

Individual tutorial activities

Official exams: see evaluation section

Voluntary works to solve complementary problems related to the activities developed in the practical lectures

5.3.Syllabus

1. *HEDGING IN EQUITY INCOME INVESTMENTS*

- Hedging with futures and options of share investments
- Hedging with futures and options of indexed portfolios. Hedging Ratio.

2. *SENSITIVITY OF OPTION VALUATION*

- The importance of the strike
- Sensitivity facing underlying price variations
- Sensitivity facing volatility variations
- The passing of time effect
- Other features to be considered

3. *COMBINED INVESTMENTS WITH OPTIONS*

4. *SENSITIVITY OF COMBINED INVESTMENTS*

5. *MANAGED INVESTMENT OF STRUCTURE PRODUCTS*

5.4.Course planning and calendar

Lecture schedule will be announced in the website of the Faculty. The deadlines of the different complementary activities will be reported by the teachers.

5.5.Bibliography and recommended resources

[BB: Bibliografía básica / BC: Bibliografía complementaria]

- [BB] Castellanos Hernán, Enrique.. Opciones y futuros de renta variable : manual práctico / Enrique Castellanos Hernán. . Madrid : Instituto BME, 2011.