

27548 - Financial Engineering

Información del Plan Docente

Academic Year	2018/19
Subject	27548 - Financial Engineering
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.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

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

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures and practice sessions. Due to the operative content of the course, 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.

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

4.2. Learning tasks

The course includes the following learning tasks:

- Participative lectures
- Practice sessions 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

4.3. Syllabus

The course will address the following topics:

- Topic 1. HEDGING IN EQUITY INCOME INVESTMENTS
 - Hedging with futures and options of share investments
 - Hedging with futures and options of indexed portfolios. Hedging Ratio.
- Topic 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
- Topic 3. COMBINED INVESTMENTS WITH OPTIONS
- Topic 4. SENSITIVITY OF COMBINED INVESTMENTS
- Topic 5. MANAGED INVESTMENT *OF STRUCTURE PRODUCTS*

4.4. Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course, will be provided on the first day of class or please refer to the Faculty of Economics and Business website (<https://econz.unizar.es/>)

4.5. Bibliography and recommended resources