

Derivatives

UGRA_006709

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| Departments | Department of Economics, Finance & Accounting |
| Teaching Languages | English |
| ECTS | 4 |
| Teacher responsible | Jacob Albo Sánchez - jacob.albo@esade.edu Francesco Spinoglio - francesco.spinoglio@esade.edu |

Course Goals

The Derivatives course is designed to provide students with a comprehensive and practical understanding of derivative instruments and markets. It explores how these financial tools can be used for hedging, speculation, arbitrage, and risk management in the real world.

The course is delivered across three integrated levels:

- Theoretical level: Key concepts (such as options, forwards, futures, and swaps) will be taught using formal models and real-world examples.
- Self-learning level: Supplementary readings and assignments will deepen the student's grasp of pricing models, risk implications, and market practices.
- Group level: Through collaborative case studies and simulations, students will apply knowledge to solve financial challenges involving derivatives.

Students will leave this course equipped to interpret, evaluate, and deploy derivative strategies in corporate finance, trading, and investment management.

Previous knowledge

Good understanding of the basics of financial mathematics and statistics.

Recomended courses

Financial Markets.

Teaching methodology

The course will combine Lectures where the teacher will combine the explanation of theoretical concepts with practical examples and exercises that will be provided to students with their corresponding solutions.

Description

Course

Knowledge of dervatives which in general are an important tool in risk management.

contribution to program

Short description

This course provides a revision of the main types of financial derivatives and the foundations of derivatives pricing.

Bibliography

Santiago Forte, Course Slides (Document)

Activities

Written and/or oral exams

Two exams during the course: one covering Futures and Forwards and one covering Options

Content

| # | Topic |
|---|----------------------|
| 1 | Introduction |
| 2 | Forwards and Futures |
| 3 | Options |

Assessment

| Tool | Assessment tool | Category | Weight % |
|-------------------------------------|------------------------------|---------------------------|----------|
| Quizzes/tests | Exam | Retake and ordinary round | 50.00% |
| Participation in program activities | Attendance and Participation | Retake and ordinary round | 5.00% |
| Learning report analysis | Continuous assessment | Retake and ordinary round | 45.00% |

PROGRAMS

BBA20-Bachelor of Business Administration (BBA) (Undergraduates: Business)

BBA20 Year 3 (Optative)

BBA20 Year 4 (Optative)

BBA23-Bachelor of Business Administration (BBA) (Undergraduates: Business)

BBA23 Year 3 (Optative)

BBA23 Year 4 (Optative)

DBAI21-Double Degree in Business Administration and Artificial Intelligence for Business (Undergraduates: Business)

DBAI21 Year 4 (Optative)

GBD20-Double Degree in Business Administration and Law (Undergraduates: Law)

GBD20 Year 4 (Optative)