

Máster Universitario en Finanzas y Banca/ Master of Science in Finance and Banking

1. SUBJECT

- **Name:** Investments and Portfolio Management
- **Type of subject:** compulsory
- **Credits:** 4 ECTS
- **Hours dedication:** 24 hours (in classroom)
76 hours (out classroom)
- **Coordinator of the subject:** Albert Banal, Xavier Brun
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Professor: Albert Banal ,Xavier Brun, Oscar Elvira, Xavier Freixas,
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2. COURSE DESCRIPTION

Contents

The time structure of interest rates, the zero-coupon curve, the valuation of safe assets and the identification of arbitrage opportunities as well as the NPV and IRR of a risk-free payment flow will be analysed. This will make it possible to introduce a risk premium and thus generalise the analysis to arrive at the Markovitz and CAPM formulas and their various empirical and theoretical generalisations (Merton)

Specific Abilities

SA2. Demonstrate an understanding of financial institutions operations, as well as the impact that banking regulation has on them.

SA3. Proficiency in applying financial tools to estimate the value of financial products, real assets, and companies, through qualitative, econometric and statistical techniques

SA4. Apply management techniques in commercial banks and other deposit-taking institutions necessary to grant or not to grant a bank credit to a company.

SA5. Demonstrate an understanding of the interaction between financial products and institutions and real assets and firms.

SA6. Identify the possibilities of the digital economy for understanding customer needs and expectations.

SA7. Determine knowledge of the new computer technologies of artificial intelligence and machine learning and their possibilities in the digital economy.

SA8. To be able to draw conclusions in order to contribute some new aspects to the field of knowledge.

Teaching methodology

TM1 Traditional methodologies: this includes lectures based on the lecturer's explanations.

TM2 Active methodologies: this includes discussion sessions on previously assigned reading; presentations of topics by students.

TM3 Independent methodologies: this includes reading texts and carrying out individual or group assignments.

Evaluation criteria

Evaluation	Minimum	Maximum
Exam	40%	70%
Presentations	10%	30%
Individual our group project	20%	40%
Participation in the activities planned within the classroom	10%	30%
Total	80%	170%

3. BIBLIOGRAPHY

Bodie, Zvi; Kane, Alex; Marcus "Investments"