Financial Economics

Academic Year: (2020/2021)

Department assigned to the subject: Business Administration Department

Coordinating teacher: CAMINO BLASCO, DAVID

Type: Compulsory ECTS Credits : 6.0

Year : 2 Semester : 2

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

- Mathematics for Economics I
- Mathematics for Economics II

OBJECTIVES

At the end of the course students should be able to:

- Compute present and future values of cash-flow streams to compute the net present values of different real and financial investments.

- Have a basic knowledge of the functioning of financial markets and of the way in which investment decisions are made.

- Understand the risk-return tradeoff. Understand how diversification affects risk.

- Have a clear understanding of the difference between systematic and diversifiable risk and know how to measure each.

- Understand how interest rates are set and the principles of valuation of fixed income securities.

- Know the basic types of derivatives and understand why and how they are used in risk management.

DESCRIPTION OF CONTENTS: PROGRAMME

Financial Economics

-1. Introduction to Financial Markets

a.Financing investment in the economy

b.Financial markets and trading financial assets

-2. Financial Mathematics
a.Introduction: The time value of money
b.Simple and compound interest. Equivalent interest rates.
c.Present and Future Values.
d.Annuities

-3. Investment Appraisal a.Cash flows b.Determining current and future values c.Net present value of an investment project d.Internal rate of return e.Other valuation techniques

-4. Risk and Return
a.Mathematical representation of a portfolio
b.Expected portfolio returns
c.Variance and standard deviation
d.Finding the minimum variance portfolio
e.Graphical representation of expected return and standard deviation of a portfolio

-5. Portfolio Theory a.Diversification Effect b.Assumptions of the Mean-Variance Analysis c.The Efficient Frontier d.The tangency portfolio Review date: 10-07-2020

-6. The Capital Asset Pricing Model (CAPM) a.Relationship between risk and expected return b.The CAPM model c.The CML and The SML d.Portfolio Beta

-7. Fixed Income Securities
a.Valuation of fixed income
b.The term structure of Interest Rates
c.Forward interest rates
d.Default risk
e.Risk Management

-8. Derivatives Products a.Types of derivatives b.Pricing Principles

Reference text books:

- Marín, J.M. and G. Rubio (2011), Economía Financiera, Antoni Bosch.

- Grinblatt, M. and S. Titman (2003), Financial Markets and Corporate Strategy, McGraw Hill.

Other useful books:

- Bodie, Z., Kane, A. and Marcus, A. J. (1999), Investments, McGraw Hill (Fouth Edition).
- Brealey R., S. C. Myers and F. Allen (2006), Principles of Corporate Finance, 8th edition, McGraw Hill.

LEARNING ACTIVITIES AND METHODOLOGY

Learning activities comprise:

1.- Theory - Sessions. The instructor of the course teach the basic concepts of the topic. Classnotes are provided to the students.

2.- Solution to exercises. The student must solve the test to assess his/her degree of knowledge of the different concepts.

3.- Exercises - Sessions. The instructor of these sessions solves the exercise sets provided to the students.

ASSESSMENT SYSTEM

Grades will be awarded according to the following criteria

-Homework, problem sets and/or group cases (20%)

-Midterm exam (30%)

-Final exam (50%)

% end-of-term-examination:	50
% of continuous assessment (assigments, laboratory, practicals):	50

BASIC BIBLIOGRAPHY

- Brealey, Myers and Allen Principles of Corporate Finance 12/e, McGraw-Hill,, 2017

- Zvi Bodie, Alex Kane, and Alan J. Marcus Essentials of Investments, 10th Edition, McGraw-Hill Irwin, 2017

ADDITIONAL BIBLIOGRAPHY

- Mark Grinblatt and Sheridan Titman Financial Markets and Corporate Strategy, McGraw-Hill, 2011

- Ross, Westerfield and Jordan Essentials of Corporate Finance, 8/e, McGraw-Hill-Irwin, 2013