

Academic Year: ( 2018 / 2019 )

Review date: 09-05-2018

Department assigned to the subject: Business Administration Department

Coordinating teacher: BALBAS DE LA CORTE, ALEJANDRO

Type: Electives ECTS Credits : 5.0

Year : 2 Semester : 1

**REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)**

Usual contents of Mathematical Analysis, Probability Theory, Financial Economics, Insurance Pricing (life and non life).

**OBJECTIVES**

Research methodologies in actuarial problems involving life insurance, non-life insurance and risk management.

**DESCRIPTION OF CONTENTS: PROGRAMME**

- Stochastic ruin models
- Stochastic longevity models
- Actuarial and financial risk management methods
- Computing the stochastic IBNR
- Pricing with Bayesian methods.
- Public and private pension plans

**LEARNING ACTIVITIES AND METHODOLOGY**

Lectures  
Exercises  
Study and discussion of several research papers

**ASSESSMENT SYSTEM**

Final exam (60%)  
Exercises (20%)  
Research papers (20%)

<b>% end-of-term-examination:</b>	60
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	40