

Academic Year: (2021 / 2022)

Review date: 10-07-2020

Department assigned to the subject: Business Administration Department

Coordinating teacher: BALBAS DE LA CORTE, ALEJANDRO

Type: Electives ECTS Credits : 5.0

Year : 2 Semester : 2

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Background in Mathematical Analysis, Probability Theory, Economics and Finance

OBJECTIVES

Research skills in advanced actuarial topics

DESCRIPTION OF CONTENTS: PROGRAMME

- 1) Risk Theory, Risk Measures and Risk Models
- 2) Pensions, longevity and financial products
- 3) Catastrophe Risk
- 4) Gerber-Shiu Function
- 5) Reinsurance
- 6) Dependence
- 7) Credibility

LEARNING ACTIVITIES AND METHODOLOGY

Lectures, exercises, discussions about research papers

ASSESSMENT SYSTEM

Exame, 60%

Exercises, 20%

Research Papers Analyses, 20%

% end-of-term-examination: 60**% of continuous assessment (assignments, laboratory, practicals...):** 40**BASIC BIBLIOGRAPHY**

- Ohlsson and Johansson Non-life insurance pricing with generalized linear models, Springer, 2010
- Yiu Kuen Tse Nonlife actuarial models. Theory, methods and evaluation, Cambridge University Press, 2009