

**COURSE DATA****DATA SUBJECT****Code:** 35950**Name:** Risk and insurance**Cycle:** Undergraduate Studies**ECTS Credits:** 6**Academic year:** 2025-26**STUDY (S)**

| Degree | Center | Acad. year | Period |
|---|---------------------|------------|----------------|
| 1315 - Degree in Finance and Accounting | Facultat d'Economia | 3 | Second quarter |

SUBJECT-MATTER

| Degree | Subject-matter | Character |
|---|-----------------------|------------|
| 1315 - Degree in Finance and Accounting | Banking and insurance | COMPULSORY |

COORDINATION

BALLESTER MIQUEL LAURA

SUMMARY

Risk and Insurance is a semiannual compulsory subject that is taught in the second term of third year of the Degree in Finance and Accounting.

In summary, the contents of the subject are: risk identification, evaluation and treatment. Characteristics and classes of insurable risks. The insurance technique. Insurance classes: life insurance and non-life insurance. The insurance company: pricing and solvency. The insurance sector: regulation and supervision. Intermediaries and distribution channels. The *Consortio de Compensación de Seguros*.

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PREVIOUS KNOWLEDGE**RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE**

There are no specified enrollment restrictions with other subjects of the curriculum.

OTHER REQUIREMENTS

Knowledge of Financial Economics, Statistics and Computer Science (Microsoft Excel).



COMPETENCES / LEARNING OUTCOMES

1315 - Degree in Finance and Accounting

CM4FYC 11 Capacidad para identificar y evaluar las diferentes clases de riesgos que afectan a las personas y a los bienes y relacionarlos con los seguros que se pueden utilizar para su cobertura.

CM4FYC 12 Conocer los principios de la técnica aseguradora y la aplicación y supervisión de los modelos de solvencia.

DESCRIPTION OF CONTENTS

1. LESSON I. APPROACH TO RISK CONCEPT AND ITS TREATMENT

- 1.1. Nature and definition of risk.
- 1.2. Individual attitudes towards risk.
- 1.3. General classification of risks.
- 1.4. Risk management in the enterprise: the ERM approach.
- 1.5. Insurable risks.
- 1.6. Some useful statistics and spreadsheet exercises.

2. LESSON II. THE RISK IN THE INSURANCE PROCESS

- 2.1. The basic principles of insurance.
- 2.2. Insurance classification according to the type of risk.
- 2.3. Segmentation, selection and monitoring of insurable risks.
- 2.4. The price of the insurance: technical principles. The technical basis.
- 2.5. The premium as a market price.
- 2.6. Intermediaries and distribution channels.
- 2.7. The surcharge of the "Consorcio de Compensación de Seguros" and other concepts external to the rate premium: the quittance.
- 2.8. Spreadsheet exercises.

3. LESSON III. GENERAL INSURANCE (NON-LIFE INSURANCE)

- 3.1 The Non-Life Insurance branches.
- 3.2 Automobile insurance.
- 3.3 Automobile insurance pricing.
- 3.4 Multi-risk insurance.
- 3.5 Health insurance.
- 3.6 Insurance in the business sector.
- 3.7 Spreadsheet exercises.



4. LESSON IV. LIFE INSURANCE

- 4.1 Modalities of Life Insurance.
- 4.2 The technical basis of Life Insurance.
- 4.3 Valuation of capital in case of survival: the actuarial discount factor.
- 4.4 Introduction to the actuarial valuation of annuities.
- 4.5 Death and mixed insurance.
- 4.6 The Technical Account of Life Insurance.
- 4.7 Spreadsheet Exercises.

5. LESSON V. INTRODUCTION TO SOLVENCY MODELS

- 5.1 The global management of an insurance company.
- 5.2 Public control of solvency.
- 5.3 Categories of assessable risks in Solvency II.
- 5.4 A basic model of risk theory.
- 5.5 Spreadsheet exercises.

WORKLOAD

PRESENCIAL ACTIVITIES

| Activity | Hours |
|-----------------------------|--------------|
| Theory | 30,00 |
| Computer classroom practice | 15,00 |
| Classroom practices | 15,00 |
| Total hours | 60,00 |

NON PRESENCIAL ACTIVITIES

| Activity | Hours |
|---------------------------------------|--------------|
| Attendance at other activities | 5,00 |
| Individual or group project | 0,00 |
| Independent study and work | 35,00 |
| Preparation of lessons | 30,00 |
| Preparation for assessment activities | 20,00 |
| Resolution of case studies | 0,00 |
| Total hours | 90,00 |

TEACHING METHODOLOGY

- Theory: master class with active participation of students.
- Practical classes with approach, resolution and revision of exercises, both on blackboard and on computer.



EVALUATION

- A written exam (or synthesis test) at the end of the module, which will consist of both theoretical questions and problems (70%).
- Continuous evaluation of students, based on their attendance to class, participation and degree of involvement in both practical activities and in-person training activities (30%). All these activities will be considered non-recoverable.

The final grade is obtained from the weighted average of the marks of each part of the evaluation, as long as has been passed the part corresponding to the synthesis test or examination officially called by the Faculty of Economics. In case the written test or exam is not passed, the final grade will be the weighted sum of the test score and the continuous assessment, not exceeding a maximum of 4.5.

REFERENCES

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