



TECHNICAL SHEET OF THE SUBJECT

Data of the subject

Subject name	Quantitative Methods Applied to Companies
Subject code	E000011605
Credits	2,0 ECTS
Type	Optativa
Department	Departamento de Métodos Cuantitativos
Coordinator	Mercedes Barrachina Fernández

Teacher Information

Teacher

Name	María de las Mercedes Barrachina Fernández
Department	Departamento de Métodos Cuantitativos
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SPECIFIC DATA OF THE SUBJECT

Contextualization of the subject

Contribution to the professional profile of the degree

The course "Quantitative Methods applied to the company" intends to provide the MBA student with a reinforcement in statistical and probability concepts to be able to successfully face the rest of the courses of the program.

Concepts associated with univariate analysis, bivariate analysis, index numbers and basic concepts of probability will be reviewed.

Competencies - Objectives

Competences

The main competences that will be acquired in this complement will be:

CFCE5 - Knows, differentiates and uses statistical concepts for the analysis of information: Identification of variables, coding and systematic presentation of data

Learning outcomes

RA1: Deduce relevant statistical information from a set of data

RA2: Correctly analyzes and interprets the relationships between different variables

THEMATIC BLOCKS AND CONTENTS



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Syllabus
2025 - 2026

Contents - Thematic Blocks

Block 1

Theme 1: Introduction

Block 2

Theme 2: Univariate Analysis - Qualitative variables

Theme 3: Univariate Analysis - Quantitative Variables

Theme 4: Univariate Analysis - Quantitative Variables- Graphics

Theme 5: Univariate Analysis - Concentration measures

Block 3

Theme 6: Bivariate Analysis - Measures

Theme 7: Bivariate Analysis - Graphics

Block 4

Theme 8: Index numbers

Theme 9: Probability Basics (I)

Theme 10: Probability Basics (II)

TEACHING METHODOLOGY

General methodological aspects of the subject

In-class Methodology: Activities

Master class sessions in which the concepts associated with each topic will be presented through a theoretical presentation and practical exercises.

Presentation of group/individual student work

Non-Presential Methodology: Activities

Preparation of group/individual work where the fundamental concepts seen in the different sessions are incorporated

EVALUATION AND CRITERIA

The evaluation activities will be the following:

- 1.- Test at the end of each session (20% of the final grade).
- 2.- Work and presentation (individual or group) to apply the concepts seen in class through the application to a real case (80% of the final grade).

Ratings



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To pass this course, the student must attend at least 80% of the sessions and pass the work with a minimum grade of 5.

Those students who do not pass the complement must redo the work according to the requirements that are required, according to the concepts explained in the sessions.

BIBLIOGRAPHY AND RESOURCES

Basic Bibliography

Moodle materials and presentations