COURSE DATA

DATA SUBJECT

Code: 35934
Name: Statistics I
Cycle: Undergraduate Studies
ECTS Credits: 6
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
1315 - Degree in Finance and Accounting	Facultat d'Economia	1	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1315 - Degree in Finance and Accounting	Statistics	BASIC

COORDINATION

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SUMMARY

Statistics I is a basic training subject assigned to the area of Quantitative Methods for Economics and Business that is lectured in the second term of the first year of the Finance and Accounting Degree.

The formative importance of the subject can be established in a double aspect:

a) On the one hand, the basic training to get the capacitiy of description, analysis, understanding and synthesis for the prediction that is carried out with accesible information (usually numerical) taken as true.

b) On the other hand, basic training under uncertity conditions. Knowledge of statistical language and mathematical theories and models in the probabilistic framework.

The training referred to in section a) is also basic for the development of other subjects of the degree.

In the professional development of the graduates in the Degree of Finance and Accounting, critical reading and the adequate creation of reports and statistical analysis both descriptive and predictive seem fundamental.

Briefly, the contents developed in this subject are the following:

Descriptive analysis of variables and statistical data. Inequality measures and economic indicators. Linear regresion. Introduction to probability. Random variables and probabilitiy distributions. Specific models of probability.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

It is recommended that in order to take this course successfully, the student must have a level of mathematics basic (the knowledge that corresponds to first and second of baccalaureate in the branch of and social sciences).

COMPETENCES / LEARNING OUTCOMES

1315 - Degree in Finance and Accounting

Conocer y comprender las herramientas estadísticas básicas para la presentación y descripción de resultados financieros y empresariales.

DESCRIPTION OF CONTENTS

1. Univariate data analysis

1.Introduction
2.Univariate data: measures of central position, dispersion and shape
3.Measures of concentration

2. Multivariate data analysis

1.Multivariate data: joint and marginal frequency distributions

2.Mean vector and variance-covariance matrix
3.Relationship between variables

3. Regression

1.Introduction
2.Least squares regression
3.Goodness of fit

4. Time series models

1.Introduction
2.Economic indices
3.Time series

5. Univariate Probability Models

1.Introduction to probability theory
2.Random variable and probability distribution
3.Discrete and continuous random variables
4.Expected value and variance. Properties.

6. Specific Univariate Probability Models

1.Discrete models
2.Continuous models

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	30,00
Classroom practices	30,00
Total hours	**60,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	21,00
Independent study and work	24,00
Preparation of lessons	20,00
Preparation for assessment activities	10,00
Resolution of case studies	15,00
Total hours	**90,00**

TEACHING METHODOLOGY

The development of the subject is structured around theory sessions, practical sessions and laboratory sessions. In the theory classes, concepts are introduced and contextualised in the different fields of application of the economic and financial framework. The student is motivated and indicated the most appropiate resources to study the subject in depth.

For laboratory classes it will be necessary to use the computer. In these classes the teacher will be able to propose data files that students will analyse and apply under the teacher supervision, the concepts learned in the theory and practice classes.

EVALUATION

The students learning shall be evaluated through a continous assesment process plus a written synthesis test at the end of the term.

The aim of the continous assesment process is to develop the students skills and enhance the daily work. This part of the evaluation process is backed on class atendance, participation and evaluable wrok. It represents 30% of the final grade.

The systhesis test wil consist of a written test to assess whether the student has assimilated the key concepts of the program. This test represents 70% of the final grade.

The final grade is the weighted sum of the synthesis test plus the continous assessment process. In the case the final test is not passed, the final grade cannot exceed a maximum of 4.5.

The student who does not participate in the continous assessment process, could be evaluated in the synthesis test over a maximum of 7. In order to pass the subject, the student might have obatained a minimum of 5 out of 7 in the final test. Due the nature of the continous assessment proves, these are non-

recoverable.

REFERENCES

Básicas

- ESCUDER, R. y MURGUI, J.S. (2011). Estadística Aplicada. Economía y Ciencias Sociales. Tirant lo Blanch. Valencia, (2ª edición).

- ESTEBAN, J. y otros (2013). Estadística Descriptiva y nociones de Probabilidad. Paraninfo. (Edición revisada).

- LIND, D.A.; MARCHAL, W.G.; WATHEN, S.A. (2020). Estadística Aplicada a los Negocios y la Economía. Méjico McGraw-Hill.

- MURGUI, J.S. y otros (2002). Ejercicios de Estadística. Economía y Ciencias Sociales. Valencia: Tirant lo Blanch.

- NEWBOLD, P.; CARLSON, W.L.; Thorne, B. (2023): Statistics for business and economics, Pearson Education.

Complementarias

- ANDERSON, D.R.; SWEENEY, D.J. y WILLIAMS, T.A. (2008). Estadística para Administración y Economía. México: International Thomson.

- CEACES, Proyecto (Contenedor Hipermedia de Estadística Aplicada a las Ciencias Económicas y Sociales). Universitat de València. ON LINE: http://www.uv.es/ceaces

- HILDEBRAND, D.K. y OTT, R.L. (1998). Estadística aplicada a la Administración y a la Economía. Wilmington: Addison-Wesley Iberoamericana.

- MARTÍN-PLIEGO, F.J. (2004). Introducción a la Estadística Económica y Empresarial. Madrid: International Thomson.

- MARTÍN-PLIEGO, F.J. y RUIZ MAYA, L. (2004). Estadística I. Probabilidad. Madrid: International Thomson. (3ª edición).