

## SUBJECT TEACHING GUIDE

G343 - Statistics I

### DOUBLE DEGREE IN ADMINISTRATION AND BUSINESS MANAGEMENT AND ECONOMICS

Double Degree in Law and Administration and Business Management  
Degree in Business Administration and Management

1. IDENTIFYING DATA			
Degree	DOUBLE DEGREE IN ADMINISTRATION AND BUSINESS MANAGEMENT AND ECONOMICS		Type and Year Core. Year 1 Core. Year 1
Faculty	Faculty of Economics and Business Studies		
Discipline	Subject Area: Statistics Basic Training Module		
Course unit title and code	G343 - Statistics I		
Number of ECTS credits allocated	6	Term	Semester based (1)
Web			
Language of instruction	Spanish	English Friendly	No Mode of delivery Face-to-face

Department	DPTO. ECONOMIA		
Name of lecturer	CARMEN TRUEBA SALAS		
E-mail	carmen.trueba@unican.es		
Office	Edificio de las Facultades de Derecho y Ciencias Económicas y Empresariales. Planta: + 1. DESPACHO CONTRATADO DOCTOR (E125)		
Other lecturers	JOSE MARIA SARABIA ALEGRIA VANESA JORDA GIL JAVIER RODRIGUEZ MARTINEZ OSCAR LUIS ALONSO CIENFUEGOS		

### 3.1 LEARNING OUTCOMES

- Ability to adapt the reality to the statistical language
- Capacity to apply the fundamentals of descriptive statistics to economic data
- Competence to solve problems of descriptive statistics using computer

#### 4. OBJECTIVES

Conceptual objectives:

To know the main concepts about statistical information

To understand and know the theoretical and practical foundations of descriptive statistics and the calculation of probabilities

Procedural objectives:

To use computers in the resolution of descriptive statistics problems

To interpret the results of a statistical analysis

Attitudinal objectives:

To achieve personal autonomy

To develop capacity to work in teams

#### 6. COURSE ORGANIZATION

##### CONTENTS

1	Descriptive statistics. Descriptive analysis and presentation of univariate data Position measures Dispersion measures Concentration measures
2	Descriptive statistics. Descriptive analysis and presentation of bivariate data Marginal and conditional distributions Statistical independence. Covariance Linear correlation coefficient Linear regression Categorical data analysis
3	Index number and rates of change Index numbers: concepts and types Simple and composite indices Change of base period Deflation of statistical series Rates of change
4	Introduction to probability Probability of events Simple spaces Rules of probability Mutually exclusive events and the addition rule Independence, the multiplication rule and conditional probability

## 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Theoretical-practical test 1	Written exam	No	Yes	30,00
Theoretical-Practical test 2	Written exam	No	Yes	45,00
Laboratory test	Laboratory evaluation	No	Yes	25,00
<b>TOTAL</b>				<b>100,00</b>
<b>Observations</b>				
<p>If the student does not pass the course under the continuous assessment framework, she could take another exam that includes all the contents of the course during the reassessment period. The course grade will be the weighted average of the scores obtained in two tests: one theoretical-practical test and one laboratory test, according to the weights of the continuous assessment framework.</p>				
<b>Observations for part-time students</b>				
<p>Part-time students could pass this course in just one evaluation session on the date reserved at the end of the first semester. The course grade will be the weighted average of the scores obtained in two tests: one theoretical-practical test and one laboratory test, according to the weights of the continuous assessment framework.</p> <p>If a part-time student takes any of the evaluation tests described above, he would be automatically renouncing to the evaluation for part-time students and will be evaluated under the continuous assessment framework.</p> <p>Part-time students that do not pass the course under the continuous assessment framework could take another exam that includes all the contents of the course during the reassessment period. The course grade will be the weighted average of the scores obtained in two tests: one theoretical-practical test and one laboratory test, according to the weights of the continuous assessment framework.</p> <p>Those students that, via student exchange programs, spent the semester in another university will be considered as part-time students.</p>				

## 8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC
Sarabia, J.M., Trueba, C., Remuzgo, L., Jordá, V., Prieto, F. (2014). "Problemas resueltos de Estadística para las Ciencias Sociales". Pirámide, Madrid.
Sarabia, J. M. y Pascual, M. (2012). "Curso básico de Estadística para los Grados en Administración y Dirección de Empresas y Economía". Textos Universitarios Ciencias Sociales. Universidad de Cantabria.