

## 25716 - Quantitative techniques applied to documentation

### Syllabus Information

**Academic year:** 2023/24

**Subject:** 25716 - Quantitative techniques applied to documentation

**Faculty / School:** 103 - Facultad de Filosofía y Letras

**Degree:** 268 - Degree in Information Management

**ECTS:** 6.0

**Year:** 2

**Semester:** Second Four-month period

**Subject type:** Basic Education

**Module:**

### 1. General information

The main purpose is to describe the essential concepts of statistical techniques and that the student acquires the knowledge, attitudes and skills necessary for their application in the work and/or research environment.

These approaches and goals are aligned with the following Sustainable Development Goals, SDGs, of the 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>):

- Goal 4: Ensure inclusive, equitable and quality education and promote lifelong learning opportunities for all.
- Goal 5: Achieving gender equality and empowering all women and girls.
- Goal 9: Build resilient infrastructure, promote sustainable industrialization and foster innovation.

### 2. Learning results

In order to pass this subject, the students shall demonstrate they has acquired the following results:

- Collect, organize and code the data in an appropriate manner for subsequent statistical analysis with the chosen statistical program.
- Construct or import a data file into a statistical program, describe variables and create new variables.
- Graphically represent and describe data in terms of scale and level of measurement.
- Perform point and confidence interval estimates of population parameters.
- Correctly apply the appropriate statistical tests for uni and bivariate hypothesis testing, and know how to interpret their results.

### 3. Syllabus

- 1.- Fundamentals of the statistical method.
- 2.- Introduction to the statistical program.
- 3.- Descriptive statistics.
- 4.- Statistical inference.

### 4. Academic activities

The methodology-learning process is based on:

- 1.-Classroom classes: they are divided into two parts a) a first part dedicated to the explanation by the teacher of the theoretical contents and to the realization of exercises. Discussion will also be encouraged and b) a second one in which the students will solve the proposed exercises, with the aim of consolidating and applying theory and practice in an autonomous manner.
- 2.- Individual work consisting in the execution of the tasks that comprise a research work: creation of a database, data coding, file cleaning, descriptive and inferential statistics, analysis of the results and conclusions.

### 5. Assessment system

#### FIRST CALL

#### Continuous assessment system

1. Continuous evaluation of program exercises. A minimum score of 5 points is required to pass this test . It represents 20% of the overall grade of the course.
2. Continuous evaluation of theoretical and practical knowledge through an exam. It accounts for 40% of the total grade.  
The exam consists of three parts.
3. Individual work. It accounts for 40% of the total grade. Criteria: adequate presentation and formal aspects; the data file will

have all the variables indicated in the document and completely defined; and, the analysis of descriptive statistics and inference must be adequate to what has been explained in the classroom.

**Global evaluation test**

1. Theoretical-practical examination of the contents of the course syllabus. It accounts for 60% of the grade.
2. Individual work. Criteria and value similar to the continuous evaluation. It accounts for 40% of the grade.

Students who choose this evaluation modality must obtain a minimum score of 5 in the theoretical-practical exam and in the work in order to pass the subject.

**SECOND CALL**

Global assessment test: identical to that of the first call.