Universidad Zaragoza

Academic Year/course: 2024/25

28910 - Statistics

Syllabus Information

Academic year: 2024/25
Subject: 28910 - Statistics
Faculty / School: 201 - Escuela Politécnica Superior
Degree: 583 - Degree in Rural and Agri-Food Engineering
ECTS: 6.0
Year: 2
Semester: First semester
Subject type: Basic Education
Module:

1. General information

The teaching of this course is intended to provide tools that serve as a basis for building and/or studying certain statistical models related to the degree.

2. Learning results

The student, by passing this subject, achieves the acquisition of basic knowledge about Statistics and Probability.

Interpret quantitatively and qualitatively the results obtained in the satisfactory resolution of certain problems based on phenomena and processes related to agrifood and rural engineering.

3. Syllabus

Exploratory data analysis.

Calculation of probabilities.

Discrete and continuous distribution models.

Sampling and estimation.

Confidence intervals.

Hypothesis testing.

Analysis of Variance.

4. Academic activities

Lectures: 40 hours

The topics of the program will be presented in class with the support of varied examples to facilitate the understanding of the subject.

Lab sessions: 20 hours

There will be 10 practical computer sessions to work with on application problems, using statistical programming software.

Study: 87 hours

Assessment 3 hours

5. Assessment system

The course will be evaluated using a global assessment modality. The evaluation is divided into two parts:

Part 1. Evaluation of the theoretical-practical part (70% of the grade)

- Students will be assessed in the official exams on the learning outcomes of the lectures through a written problem-solving test. This test will account for 70% of the overall grade.

Part 2. Evaluation of computer practices (30% of the grade)

- The student can complete the evaluation of all practices during the last lab session or in the official exams on the date that the EPSH imposes for this purpose, by solving a practical case using the software available in the practice room. This test will account for 30% of the overall grade.

The final grade will be obtained as the weighted average of the parts.

The success rates for the subject in the last three years are: 43,18%, 71,79% y 100%

6. Sustainable Development Goals

4 - Quality Education
9 - Industry, Innovation and Infrastructure