Universidad Zaragoza

28910 - Statistics

Syllabus Information

Academic year: 2023/24
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.

These approaches and objectives are aligned with the Sustainable Development Goals, SDGs, of the 2030 agenda (https://www.un.org/sustainabledevelopment/es/) and certain specific goals, contributing to some extent to their achievement.

Specifically:

- Goal 4: Quality Education.
- Target 4.4 By 2030, significantly increase the number of youth and adults who have the necessary skills, particularly technical and vocational, to access employment, decent work and entrepreneurship.

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.

These learning results are aligned with Sustainable Development Goal 4, target 4.4, indicated in the objectives of the subject. With the achievement of these courses, students will have acquired the theoretical and practical knowledge necessary to be able to solve certain problems related to Agri-Food and RuralEngineering that require the use of statistical techniques.

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: 30 hours

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

Problem solving in the classroom: 30 hours

Application problems will be proposed based on the theoretical presentations. Some of them will be solved in the classroom leaving the rest for the student's non-classroom work.

Works: 27 hours

Several application problems related to the totality of the subject studied will be worked on. These problems will be similar to those that will later be required in the written examinations.

Study: 60 hours

Assessment 3 hours

5. Assessment system

-The students will have an exam of the whole subject in the corresponding calls and on the dates that the EPSH imposes for this purpose . The grade of these exams may be modified upwards by a maximum of 15% of the same by taking into account the student's participation in classes and tutorials.

-The test will be graded from 0 to 10 points and a minimum final grade of 5 will be required to pass.

The success rates for the subject in the last three years are: 2019/20: 74,07%; 2020/21: 43,18%; 2021/22: 71,79%