Academic Year/course: 2023/24

26121 - Statistics applied to social research

Syllabus Information

Academic year: 2023/24
Subject: 26121 - Statistics applied to social research
Faculty / School: 108 - Facultad de Ciencias Sociales y del Trabajo
Degree: 274 - Degree in Social Work
ECTS: 6.0
Year: 3
Semester: First semester
Subject type: Compulsory
Module:

1. General information

This course offers an introduction to statistical data analysis, a fundamental tool for training critical professionals and future researchers and future researchers.

Being part of the first four-month period of the third year of the Social Work Degree, the student, after having passed the basic subjects, has already had the opportunity to learn about the origin of the data and experience the need to structure and extract information. The objective of this subject is to introduce the relevant statistical tools to address the demands of organizing, summarizing, analyzing and communicating information from data.

These approaches and goals are aligned with the following Sustainable Development Goals (SDGs) of the United Nations Agenda 2030 in such a way that the acquisition of the learning results of the subject provides capacity and competence to contribute to some extent to their achievement. In particular, the use of these tools is illustrated with real data related to SDG 5 (Gender Equality).

2. Learning results

The subject, which is mandatory, is part of the students' basic training. Its purpose is to address the needs that future Social Work professionals will face in their role as social researchers in their dailypractice.

- Is able to correctly summarize and describe numerical and non-numerical information (data), either collected by him/herself or from different sources.
- Is capable of carrying out a written analysis in the form of a report, or by means of an oral presentation, on different variables and possible relationships between them.
- Is able to critically discuss what has been done by other authors, having previously understood it.

3. Syllabus

Part I: Statistical methods for one variable.

Unit 1: Presentation of the subject. Introduction to Statistics: Statistical methods in social sciences. Types of variables.

Unit 2: Tabular representation.

Unit 3: Graphical representations

Unit 4: Numerical description I: Measures of central tendency and position.

Unit 5: Numerical description II: Measures of dispersion and shape.

Part II: Statistical methods for two variables.

Unit 6: Introduction to bivariate analysis. Analysis of a quantitative and a qualitative variable.

Unit 7: Bivariate analysis of two qualitative variables.

Unit 8: Bivariate analysis of two quantitative variables and regression.

4. Academic activities

- **Master classes:** 30 hours.
- **Resolution of theoretical problems or resolution of practical cases:** 30 hours.
- **Supervised work:** 20 hours.
- **Personal study:** 64 hours.
- **Assessment activities:** 6 hours

The subject distributes its 6 credits as follows: 3 ECTS are dedicated to sessions with the whole group, in which presents the theory and illustrative examples that highlight its relevance in the field of Social Research. The remaining 3 ECTS focus on the development of skills to pose, model and solve problems that emulate real situations, either through theoretical exercises or by performing practical tasks that may involve theuse of digital tools.

5. Assessment system

Continuous assessment:

i) **Part I written test:** Statistical methods for one variable. 35% of the final grade. Around the middle of the quarter. Minimum grade: 3,5/10.

ii) **Part II written test:** Statistical methods for two variables. 35% of the final grade. At the end of the term, before of the official tests. Minimum grade: 3,5/10.

iii) **Continuous assessment activities:** 10% of the final grade. To be solved in problem solving classes in pairs or small groups during the quarter. No minimum grade.

iv) **Supervised work:** 20% of the final grade Report or oral presentation of the application and interpretation of the techniques statistical seen in class on a set of data. In groups of 3 to 5 people. Last weeks of class. Minimum grade: 5/10.

In addition, the possibility of submitting an additional report to increase the grade in certain cases is contemplated:

Extra) **Voluntary statistical report.** 10% of the additional final grade to raise the grade. In no case can the score be raised if the final grade exceeds 10/10 points, or the resulting evaluation grade in the previous sections does notreach 4.5/10.

Global Assessment:

Those students whose marks in the written tests or in the supervised work do not reach the minimums established, as well as those whose final weighting does not reach at least 5/10, will have the right to take a global assessment test.