Quantitative social research methods

Academic Year: (2022 / 2023) **Review date: 11-04-2023**

Department assigned to the subject: Social Sciences Department

Coordinating teacher: VALL PRAT, PAU

Type: Compulsory ECTS Credits : 6.0

Year : 2 Semester :

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Basic knowledge of statistics

OBJECTIVES

At the end of the course, students must be proficient in the following tasks:
1) operationalization of research hypotheses
2) handling and preparation of data
3) use of the main quantitative techniques in social research:
a. Selecting the most appropriate technique for each type of research question and data
b. Data Analysis
c. Interpretation of the analyses
4) a working knowledge of Stata/R/SPSS and basic programming skills

DESCRIPTION OF CONTENTS: PROGRAMME

Quantitative research techniques are a key element in the training of future professionals. This course delves into the learning of quantitative social research techniques from an applied perspective. All topics will be approached in a theoretical/practical way, using the statistical package Stata
The course is structured as follows:

1. Introduction to quantitative social research
2. Descriptive Analysis
3. Bivariate analysis
4. Multivariate Analysis:

4.1. Linear Regression
4.2. Logistic Regression

5. Visualización and reporting

LEARNING ACTIVITIES AND METHODOLOGY

Master Classes (3 ECTS credits):
Lecture on the theoretical content of the subject.

Reduce Classes (3 ECTS credits):
Practical classes in the computer room using Stata/R/SPSS

ASSESSMENT SYSTEM

Theory and practical exercises, and other activities conducted in the classroom
Percent of continuous assessment (assignments, labs, etc.): 40%.

Final exam: includes both theory and practice content
Percent of end-of-term examination: 60%.

% end-of-term-examination:	60
% of continuous assessment (assigments, laboratory, practicals…):	40

BASIC BIBLIOGRAPHY

- Cameron, Colin A. & Pravin K. Trivedi Microeconometrics using Stata, Stata Press, 2010

- Long, Scott J. & Jeremy Freese Regression Models for Categorical Dependent Variables Using Stata, Stata Press, 2014

ADDITIONAL BIBLIOGRAPHY

- James, Gareth, Daniel Witten, Trevor Hastie, & Robert Tibshirani An introduction to Statistical Learning with applications in R, Spinger, 2013