## Quantitative social research methods

**Academic Year: ( 2019 / 2020 )**                                    **Review date: 30-04-2020**

**Department assigned to the subject: Social Sciences Department**

**Coordinating teacher: TORRE FERNANDEZ, MARGARITA**

**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 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:
a.        Linear Regression
b.        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

### ASSESSMENT SYSTEM

Exercises conducted and evaluated in class, participation in debates and other activities.
Percent of continuous assessment (assignments, labs, etc.): 40%.

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

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| **% 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