Survey Research Methodology II

Academic Year: (2023 / 2024)   **Review date: 15-07-2023**

Department assigned to the subject: Social Sciences Department

Coordinating teacher: TORRE FERNANDEZ, MARGARITA

Type: Compulsory ECTS Credits : 3.0

Year : 1 Semester : 2

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Data Programming (19138)
Statistics and Data Science I (19140)
Statistics and Data Science II (19141)
Survey Research Methodology I (19137)

OBJECTIVES

- Ability to analyze survey data.
- Ability to solve frequent problems in survey analysis, such as dealing with missing cases.
- Ability to work with aggregate, multilevel and longitudinal data.

DESCRIPTION OF CONTENTS: PROGRAMME

1. Survey Data Analysis
1.1. Operationalization and data cleaning
1.2. Cross-sectional data analysis
1.3. Panel data analysis
1.4. Multilevel analysis

2. The use of survey data in forecasting
2.1. Predicting versus explaining
2.2. Performance evaluación

3. Dealing with missing data
3.1. Complete case analysis
3.2. Mean/median substitution
3.3. Multiple imputation

4. Data reporting

5. Work examples

LEARNING ACTIVITIES AND METHODOLOGY

Training Activities:

- Theoretical-practical classes
- Group work
- Individual student work
- Partial and final examinations

Teaching Methods:

- Presentations in the professor's lecture room with computer and audiovisual support, in which the main concepts of the subject are developed and a bibliography is provided to complement the students' learning.
- Critical reading of texts recommended by the subject professor: Press articles, reports, manuals and/or academic articles, either for later discussion in class, or to expand and consolidate knowledge of the subject.
- Resolution of practical cases, problems, etc. raised by the professor, either individually or in a group.
- Presentation and discussion in class, under the moderation of the professor, of topics related to the content of the subject, as well as practical case studies.
- Developing pieces of work and reports, individually or in group.

ASSESSMENT SYSTEM

% end-of-term-examination:	50
% of continuous assessment (assigments, laboratory, practicals…):	50

- Participation in the class (10%)
- Individual or group work done during the course (40%)*
- Final exam (50%)*

*With a minimum grade of 5 points over 10 in each assignment.

In the extraordinary call, the evaluation system will be as follows:
1) Exam: 100%

BASIC BIBLIOGRAPHY

- Alisson, Paul Missing Data, Sage Publications, 2001

- Brown, J. D. Using Surveys in Language Programs, Cambridge University Press, 2001

- Gelman, A.; Hill, J,; Vehtari, A. Regression and other stories, Cambridge University Press, 2020

- Luke, D.A. Multilevel Modeling, Sage Publications, 2019

- Wickham, H. & Grolemund, G. R for Data Science, O'Reilly Media, Inc, 2016

ADDITIONAL BIBLIOGRAPHY

- Allison, P. Fixed Effects Regression Models, Sage Publications, 2009

- Finch, W. H.; Bolin, J. E. & Kelley, K. Multilevel Modeling Using R, Crc Press, 2019

- Long, J. S. SAGE publications Regression models for categorical and limited dependent variables, Sage Publications, 1997

- Stevens, J.S. Applied Multivariate Statistics for the Social Sciences, Routlegde, 2009

BASIC ELECTRONIC RESOURCES

- Wickham, H., & Grolemund, G . R for Data Science: https://r4ds.had.co.nz/