

SUBJECT TEACHING GUIDE

5170 - Statistics Applied to the Social Sciences

Degree in Geography and Land Planning

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Degree in Geography and Land Planning			Type and Year	Core. Year 1
Faculty	Faculty of Humanities				
Discipline	Basic Training in Social Sciences Subject Area: Statistics				
Course unit title and code	5170 - Statistics Applied to the Social Sciences				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Web	https://personales.unican.es/rasillad/docencia/G14/index_estadistica.html				
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. GEOGRAFIA, URBANISMO Y ORDENACION DEL TERRITORIO				
Name of lecturer	DOMINGO FERNANDO RASILLA ALVAREZ				
E-mail	domingo.rasilla@unican.es				
Office	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 1. DESPACHO (1014E)				
Other lecturers	FRANCISCO CONDE ORIA				

3.1 LEARNING OUTCOMES

- The course will provide students with basic tools for obtaining, analyzing and interpreting statistical information, through which they will be able to interpret the diversity of geographic phenomena in space and time.

4. OBJECTIVES

To familiarize the student with the basic methods of statistical and geostatistical analysis for the analysis of the territory, and the usual graphic and cartographic tools in the field of Geography.

6. SUBJECT PROGRAM	
CONTENTS	
1	INTRODUCTION:
2	EXPLORATORY DATA ANALYSIS
3	RELATIONSHIP BETWEEN VARIABLES
4	TIME SERIES
5	SPATIAL STATISTICS
6	DELIVERIES AND EVALUATIONS

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
CONTINUOUS ASSESSMENT	Others	No	No	35,00
INDIVIDUAL TASKS	Work	Yes	Yes	15,00
EVALUATION OF THEORETICAL AND PRACTICAL CONCEPTS	Laboratory evaluation	Yes	Yes	50,00
TOTAL				100,00
Observations				
<p>The evaluation activities will be governed by the provisions of the Examination Regulations of the University of Cantabria. The final grade for the course will be the result of averaging the grade on the theoretical-practical concepts assessment test, the grade for individual work, and the grade for continuous assessment activities.</p> <p>Being mandatory the participation of the student in ALL the programmed activities and present ALL the exercises associated with them, this average will be calculated only if the mark of the evaluation of theoretical-practical concepts is higher than 4 points.</p> <p>It is recommended to take special care in the presentation of the works and, in particular, in the correct use of materials (maps, graphs, charts). Fraudulent completion of tests or evaluation activities will directly result in a failing grade of '0' in the subject in the corresponding call, thereby invalidating any grade obtained in all evaluation activities for the extraordinary call.</p> <p>In accordance with the instructions received from the UC, in the event that the health situation forces a modification of the face-to-face conditions towards a scenario of mixed teaching (Scenario 2) or virtual teaching (Scenario 3), the evaluation of the subject will be It will be carried out through the tools available on the institutional platforms of the UC (chats and MOODLE forums, video calls, etc.).</p>				
Observations for part-time students				
The attention and evaluation of students enrolled part-time in the Degree will be carried out in accordance with the provisions of the UC regulations for such cases.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

AGUILERA ARILLA, M.J.; AZCÁRATE LUXÁN, M.V.; GONZÁLEZ YANCI, M.P.; MUGURUZA CAÑAS, C.; RUBIO

BENITO, M.T.; SANTOS PRECIADO, J.M. (2003) Fuentes, tratamiento y representación de la información geográfica. UNED

EBDON, D. (1982): Estadística para geógrafos. Barcelona, Oikos-Tau.

RASO, J.M.; MARTIN VIDE, J. y CLAVERO, P. (1987): Estadística básica para ciencias sociales. Barcelona, Ariel

REDONDO FGUERA, C.G (2016): El programa R, herramienta clave en investigación. Editorial Universidad de Cantabria.

ROYÉ, D. y SERRANO-NOTIVOLI, R (2019). Introducción a los SIG con R. Prensas de la Universidad de Zaragoza, 1ª ed, 360 pp.

SANTOS, JM y GARCÍA, FJ. (2008). Análisis Estadístico de la Información Geográfica. Cuadernos de la UNED. Madrid.