Universida_{de}Vigo

Subject Guide 2023 / 2024

	e Methods of Social Research				
Subject	Ouantitative				
oubject	Methods of Social				
	Research				
Code	P07G092V01309				
Study	Grado en Dirección				
programme	y Gestión Pública				
Descriptors	ECTS Credits		Choose	Year	Quadmester
	6		Mandatory	3rd	2nd
Teaching	#EnglishFriendly				
language	Spanish				
	Galician				
Department					
Coordinator	Vidal Puga, Juan José				
Lecturers	Vidal Puga, Juan José				
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General	This course aims to provide stude	ents an understand	ing of the methodo	ology and techn	iques for quantitative
description	research applied to Public Admini				
	English Friendly subject: International students may request from the teachers: a) resources and bibliographic				
	references in English, b) tutoring sessions in English, c) exams and assessments in English.				

Training and Learning Results

Code

A1	Students will have shown they have sufficient knowledge and understanding of an area of study, starting after
	completion of general secondary education, and normally reaching a level of proficiency that, being mostly based on
	advanced textbooks, will also include familiarity with some cutting-edge developments within the relevant field of
	study.

- A2 Students will be able to apply their knowledge and skills in their professional practice or vocation and they will show they have the required expertise through the construction and discussion of arguments and the resolution of problems within the relevant area of study.
- A3 Students will be able to gather and interpret relevant data (normally within their field of study) that will allow them to have a reflection-based considered opinion on important issues of social, scientific and ethical nature.
- A4 Students will be able to present information, ideas, problems and solutions both to specialist and non-specialist audiences.
- A5 That students have developed those learning skills needed to undertake further studies with a high degree of autonomy.
- B1 Analysis, synthesis, problem-solving, decision-making, information- and time-management skills.
- B2 Organizing and planning their own professional careers in the best possible way
- B4 Commitment to ethical values and public service vocation.
- B5 Critical thinking skills.
- B6 To put their knowledge on public management and administration into practice.
- C13 To apply the social policies and research methods and techniques and to be able to use quantitative and qualitative research methods.
- C14 Ability to use the information and communication technologies (ICT) that can be applied in public management.
- D2 To be able to communicate, both orally and in writing, in the two official languages (Spanish and Galician) and in a foreign language.
- D3 Raising awareness about environmental issues.
- D4 To master the specific ICT techniques in their respective academic and professional fields.
- D5 To acquire independent learning skills.
- D6 Ability to adapt to new situations.

Expected results from this subject

Expected results from this subject		Training and Learning Results				
Extract quantitative information of the population of a valid and reliable form.	A1	B1		D6		
	A2	B2				
	A3	B4				
	A5	B5 B6				
Value the feasibility and validity of a research designed by a third party and their results.		B5		 D5		
···· · ··· · · · · · · · · · · · · · ·	A1 A2					
	A3					
	A4					
	A5					
Interpret properly the meaning of the results of the quantitative analyses, as well as of the	A1	B1	C13	D4		
indicators and measures used.	A2	B5		D5		
	A3					
	A4					
	A5					
Analyse the data by means of computer tools that allow the application of the studied methods	A5	B6	C13	D3		
and techniques.			C14	D4		
				D5		
Support their conclusions by means of normalised and rigorous arguments.	A4	Β4		D2		
		B5		D3		
Judge, question and value on a constructive way the work from others.	A4	B2		D5		
		B5				

Contents	
Торіс	
Data collection	Empirical translation of the theory. Technique of scales. Survey by
	sampling. Quality of the sources of information. Official statistical sources.
Data analysis	Normal populations. Central limit theorem. The distribution of the average
	of the sample. Interpretation of a confidence interval. Size of the sample to
	estimate the average. Distribution of a proportion. Multiple linear
	regression. Statistical hypothesis testing.
Computing applied to the resolution of practical	Use of spreadsheets for the application of the concepts and quantitative
cases	techniques to the resolution of exercises and practical cases.

Planning			
	Class hours	Hours outside the classroom	Total hours
Introductory activities	1	0	1
Lecturing	15	46	61
Discussion Forum	0	3	3
Practices through ICT	12	0	12
Problem and/or exercise solving	8	16	24
Problem and/or exercise solving	8	16	24
Problem and/or exercise solving	8	16	24
Objective questions exam	4	0	4
*The information in the planning table is for	or guidance only and does no	ot take into account the het	erogeneity of the students.

Description
Introductory activities.
Basic contents and theory.
Clarification of questions and collaborative work using the forums in the learning platform.
Students will have the chance to apply the theory presented in the lectures.
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Personalized assistance Methodologies Description

Discussion Forum Communication between readers and students via forums for general queries and internal chat for particular questions.

Assessment

Description

Qualification Training and Learning Results

Problem and/or exercise solving	Resolution of problems of empirical translation of the theory and observation of data.	30	A1 A2 A3 A4	B1 B5 B6	C13 C14	D4 D5
Problem and/or exercise solving	Obtaining official data and its analysis.	30	A1 A2 A3 A4 A5	B1 B2 B4 B5 B6	C13 C14	D2 D4 D5 D6
Problem and/or exercise solving	Resolution of problems of data analysis.	30	A1 A2 A3 A4 A5	B1 B2 B4 B5 B6	C13 C14	D2 D4 D5 D6
Objective questions exam	Evaluation of the theoretical knowledges treaties in class.	10	A1	B5		D5

Other comments on the Evaluation

An essay and several practical activities will be assigned throughout the course. Moreover, an additional final activity and exam with objective questions will take place on official dates.

There are two ways to pass this subject:

- 1. Continuous assessments include practical activities (90% of the final grade) and the final theorical exam (10% of the final grade). A minimum grade in the theoretical exam will be required.
- 2. A final exercise includes the final test exam (50% of the final grade) and several practical activities (50% of the final grade).

Students are expected to follow the first option ("continous assessments").

Exceptionally, and always by previous request, students may do the final examination during tutoring hours.

Second call: The second call will be a single exercise, including a test exam (50% of the final grade) and several practical activities (50% of the final grade).

Warning: No grades will be saved for future calls.

Sources of information

Basic Bibliography

Cea D'Ancona, María Ángeles, **Metodología cuantitativa : estrategias y técnicas de investigación social**, Síntesis, 1996

Ritchey, F.J., Estadística para las ciencias sociales, McGraw-Hill, 2008

Complementary Bibliography

Callejo Gallego, Javier; Del Val Cid, C.; Gutiérrez, J.; Viedma, A.,, Introducción a las técnicas de investigación social, Centro de Estudios Ramón Areces, 2010

Scheaffer;Mendejall;Lyman,, **Elementos de muestreo**, Elementos de muestreo, 2006 Carlberg, Conrad George, **Análisis estadístico con Excel**, Anaya Multimedia, 2012

Recommendations