Universida_{de}Vigo

Subject Guide 2023 / 2024

IDEI	NTIFYIN	G DATA				
Qua	ntitativ	e Methods of Social Research	1			
Subj	ect	Quantitative				
		Methods of Social				
		Research				
Code	e	P07G095V01309				
Stud	ly	Grado en Dirección				
prog	ramme	y Gestión Pública				
Desc	criptors	ECTS Credits		Choose	Year	Quadmester
		6		Mandatory	3rd	<u>2nd</u>
Tead	ching	Spanish				
lang	uage	Galician				
Depa	artment					
Coor	rdinator	Vidal Puga, Juan José				
Lect	urers	Vidal Puga, Juan José				
E-ma	ail	vidalpuga@uvigo.gal				
Web)	http://moovi.uvigo.gal				
Gen	eral	This course aims to provide stu	dents an understandi	ng of the methodo	ology and techn	iques for quantitative
desc	ription	research applied to Public Admi	inistration.			
Trai	ning an	d Learning Results				
Code	e	-				
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	Student they have	s will be able to apply their know ve the required expertise throug	ledge and skills in the h the construction and	eir professional pr d discussion of arc	actice or vocati numents and th	on and they will show e 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 Students will acquire the learning skills that are required to pursue further studies with a high degree of independence.
- B1 Analysis, synthesis, problem-solving, decision-making, information- and time-management skills.
- 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 To acquire independent learning skills.

Expected results from this subject

Expected results from this subject

Training and Learning Results

Understand the processes and criteria for quality research and critically evaluate others' research				D2
findings.	A2	B5		D3
	A3			D5
	A4			D6
	A5			
Correctly interpret the meaning of the results of quantitative analyses.	A1	B1	C13	D4
	A2	B5		D5
	A3			
	A4			
	A5			
Use computing tools that allow the application of the studied methods and techniques.	methods and techniques. A5 B6 C		C13	D4
			C14	D5
				D6

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 cases	Use of spreadsheets for the application of the concepts and quantitative 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	34	49
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	0	12	12
Objective questions exam	1	0	1
*The information in the planning table is for	or guidance only and does no	ot take into account the het	erogeneity of the students.

Methodologies	
	Description
Introductory activities	Introductory activities.
Lecturing	Basic contents and theory.
Discussion Forum	Clarification of questions and collaborative work using the forums in the learning platform.
Practices through ICT	Students will have the chance to apply the theory presented in the lectures.

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	Train	ing ai	nd Lea	arning
			Results			-
Problem and/or exercise	Problem resolution and individual exercises are proposed	30	41 E	31 (C13	D4
solving	in the theoretical and practical parts.		42 E	35	C14	D5
			43 E	36		
			44			
			45			
Problem and/or exercise	(*)Obtención de datos oficiais e a súa análise.	30	41 E	31 (C13	D4
solving			42 E	35	C14	D5
			43 E	36		
			44			
			۹5			

Problem and/or exercise solving	(*)Resolución de problemas de análises de datos.	30	A1 A2 A3 A4 A5	B1 B5 B6	C13 C14	D4 D5
Objective questions exam	Evaluation, in the partial and final exams, of the the theoretical knowledge.	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 test exam (10% of the final grade).
- 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

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

Other comments

t will be necessary requirement for the development of the matter that the professor of the same can have of an up to date PHOTOGRAPHY of the students that will have to go up to the platform to beginnings of course, and always before the day 30 September.

The only purpose of the treatment of this data is that the professor of the matter can verify the identity of the students enrolled in the same.

The base of legitimation for the treatment of this data makes in application of the willing in the article 6.1and) of the RXPD in which the treatment is necessary for the exercise of the public power conferred to the manager of the treatment based in the article 9 of the Law 39/2015, of 1 October of the common administrative procedure of the public administrations and in the article 25.7 of the RD 1791/2010, of 30 December, by what approves the Statute of the University Student.

The access to the image and to the personal data of the alone students is allowed to the professor of each matter for the realisation of the academic activities indicated in this educational guide and will not be used neither spread for any another purpose, having to save the corresponding to have to of confidentiality of the same.

More information: https://www.uvigo.gal/proteccion-Data