



IDENTIFYING DATA

Quantitative Methods of Social Research

Subject	Quantitative Methods of Social Research			
Code	P07G095V01309			
Study programme	Grado en Dirección y Gestión Pública			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	3rd	2nd
Teaching language	Spanish Galician			
Department				
Coordinator	Vidal Puga, Juan José			
Lecturers	Vidal Puga, Juan José			
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General description	This course aims to provide students an understanding of the methodology and techniques for quantitative research applied to Public Administration.			

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	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
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Understand the processes and criteria for quality research and critically evaluate others' research findings.	A1 A2 A3 A4 A5	B4 B5		D2 D3 D5 D6
Correctly interpret the meaning of the results of quantitative analyses.	A1 A2 A3 A4 A5	B1 B5	C13	D4 D5
Use computing tools that allow the application of the studied methods and techniques.	A5	B6	C13 C14	D4 D5 D6

Contents

Topic	
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 guidance only and does not take into account the heterogeneity 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	Training and Learning Results			
Problem and/or exercise solving	Problem resolution and individual exercises are proposed in the theoretical and practical parts.	30	A1 A2 A3 A4 A5	B1 B5 B6	C13 C14	D4 D5
Problem and/or exercise solving	(*)Obtención de datos oficiais e a súa análise.	30	A1 A2 A3 A4 A5	B1 B5 B6	C13 C14	D4 D5

Problem and/or exercise solving	(*)Resolución de problemas de análisis 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 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 ("continuous 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; Mendenhall; Lyman, **Elementos de muestreo**, Elementos de muestreo, 2006

Carlberg, Conrad George, **Análisis estadístico con Excel**, Anaya Multimedia, 2012

Recommendations

Other comments

It 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>