		Teaching (Guide		
	Identifyin	ng Data			2019/20
Subject (*)	Statistics I	Statistics I		Code	611G02006
Study programme	Grao en Administración e Dirección de Empresas				
	<u>'</u>	Descript	ors		
Cycle	Period	Year		Туре	Credits
Graduate	2nd four-month period	First		Basic training	6
Language	SpanishGalicianEnglish	SpanishGalicianEnglish			
Teaching method	Face-to-face	Face-to-face			
Prerequisites					
Department	Economía				
Coordinador	Rey Graña, Carlota E-mail carlota.rey@udc.es		c.es		
Lecturers	Lado González, Eva Mª		E-mail	eva.lado@udc.e	S
	Lodeiro Hermida, Maria Jose			maria.lodeiro@u	ıdc.es
	Mourelle Espasandin, Estefania			estefania.moure	lle@udc.es
	Rey Graña, Carlota			carlota.rey@udo	c.es
Web					
General description	In the first part of the subject, the	aim is to learn an	d understand th	e basic concepts on De	escriptive Statistics, Time Ser
	and Index Numbers. In the second part, the objective is to learn and understand the essential concepts on Probability				
	Calculus.				

	Study programme competences
Code	Study programme competences
A4	Elaborate advisory reports on specific situations of companies and markets
A6	Identify the relevant sources of economic information and to interpret the content.
A7	Understand economic institutions as a result and application of theoretical or formal representations which explain the evolution of the economy.
A8	Derive, based on from basic information, relevant data unrecognizable by non-professionals.
A10	Read and communicate in a professional environment at a basic level in more than one language, particularly in English
A11	To analyze the problems of the firm based on management technical tools and professional criteria
A12	Communicate fluently in their environment and work by teams
B1	CB1-The students must demonstrate knowledge and understanding in a field of study that part of the basis of general secondary
	education, although it is supported by advanced textbooks, and also includes some aspects that imply knowledge of the forefront of their
	field of study
B2	CB2 - The students can apply their knowledge to their work or vocation in a professional way and have competences typically demostrate
	by means of the elaboration and defense of arguments and solving problems within their area of work
В3	CB3- The students have the ability to gather and interpret relevant data (usually within their field of study) to issue evaluations that include
	reflection on relevant social, scientific or ethical
В4	CB4-Communicate information, ideas, problems and solutions to an audience both skilled and unskilled
B5	CB5-Develop skills needed to undertake further studies learning with a high degree of autonomy
В6	CG1-Perform duties of management, advice and evaluation in business organizations
В7	CG2-Know how to use the concepts and techniques used in the various functional areas of the company and understand the relationship
	between them and with the overall objectives of the organization
B10	CG5-Respect the fundamental and equal rights for men and women, promoting respect of human rights and the principles of equal
	opportunities, non-discrimination and universal accessibility for people with disabilities.
C1	Express correctly, both orally and in writing, in the official languages of the autonomous region
C4	To be trained for the exercise of citizenship open, educated, critical, committed, democratic, capable of analyzing reality and diagnose
	problems, formulate and implement knowledge-based solutions oriented to the common good
C5	Understand the importance of entrepreneurial culture and know the means and resources available to entrepreneurs
C6	Assess critically the knowledge, technology and information available to solve the problems and take valuable decisions



C7	Assume as professionals and citizens the importance of learning throughout life.
C8	Assess the importance of research, innovation and technological development in the economic and cultural progress of society.

Learning outcomes			
Learning outcomes	Study programme competences		
Knowing and understanding the handling of basic techniques for Data Analysis and Descriptive Statistics.	A4	B6	C1
	A6	B10	C5
	A7		C6
	A8		C7
	A10		C8
Knowing and understanding the fundamentals on Data Analysis and Descriptive Statistics.	A4	B1	C1
	A10	B2	C4
	A11		C5
	A12		C6
			C7
			C8
Knowing and understanding the fundamentals on Probability Calculus.	A4	В3	C1
		B4	C4
			C5
			C6
			C7
			C8
Handling the basic concepts on Probability Calculus.	A4	B5	C8
		B7	

Contents				
Topic	Sub-topic			
Data Description Statistical techniques	- Statistical analysis of a variable			
	- Statistical analysis of two variables			
	- Regression and correlation			
	- Time series			
	- Index numbers			
Probability theory	- Introduction to Probability			
	- Random variable			
	- Main probability distributions			
	- Convergence and central limit theorem			

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Introductory activities	B5 C6 C7 C8	1	0	1
Guest lecture / keynote speech	A4 A7 A11 B1 B4 B7	17	34	51
	C1 C5			
Workshop	A6 A10 A11 A12 B2	17	42.5	59.5
	B3 B5 B6 B10 C1 C4			
	C5 C6			
ICT practicals	A8 A10 A11 C4 C8	8	16	24
Objective test	A4 A6 A12 B2 B3 B5	2	6	8
	B7 C1 C6			



Personalized attention		6.5	0	6.5
(*) The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

	Methodologies		
Methodologies	Description		
Introductory activities	It consists in the presentation of the subject and the exhibition of the activities that the students must develop and of the		
	criteria with which they will be evaluated.		
Guest lecture /	Each keynote session consists of the teachers' oral exposition of concepts and methods, although they must have the active		
keynote speech	participation of the students. The exhibition is complemented by the use of audiovisual media and includes examples and		
	exercises that make it possible to highlight the limitations and possibilities of the methods exposed		
Workshop	Each workshop is an interactive session in which applications, exercises and problems are made that allow students to		
	understand the theoretical foundations of the subject and learn to value, from a critical point of view, the results obtained		
ICT practicals	These are interactive sessions dedicated to the learning of the appropriate computer tools to carry out empirical applications of		
	the methods exhibited in the theoretical sessions		
Objective test	It is a written test to evaluate the degree of learning		

Personalized attention			
Methodologies	lethodologies Description		
Workshop	The heterogeneity of the students, in terms of their previous training and their academic situation, requires a personalized		
ICT practicals	attention that allows to solve the specific doubts that are posed to them during the course. TIC practices, workshops and		
Objective test	tutoring are important tools to solve theoretical and empirical problems, both collectively and individually.		

		Assessment	
Methodologies	Competencies	Description	Qualification
Workshop	A6 A10 A11 A12 B2	ne active presence of the students in these classes will be assessed, in which they 30	
	B3 B5 B6 B10 C1 C4	must resolve and deliver the controls, problems, exercises and questions that are	
	C5 C6	proposed to them, in the form that will be detailed at the beginning of the course.	
Objective test	A4 A6 A12 B2 B3 B5	The objective test for learning assessment combines conceptual and reasoning	70
	B7 C1 C6	questions with other practical content.	

Assessment comments	
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A) All evaluation tests are face-to-face and cannot be replaced by exercises or work. For its realization, group changes will not be allowed, except those officially granted by the Faculty, which must be adequately justified.

B) June and July Opportunities

To pass the subject, it will be necessary to obtain at least 5 points in the sum of the qualifications corresponding to the tests of continuous evaluation and to the final examination.

The evaluation system will be applied, as described in the preceding paragraph, in both opportunities to all students, irrespective of their academic situation.

Students with recognition of part-time dedication are exempt from attendance except on the dates of completion of the evaluation tests.

The non-presented qualification corresponds only to students who participate in evaluation activities that have a weighting of less than 20 per cent of the total qualification.

C) Early opportunity.

The evaluation corresponding to the early opportunity will be developed through a single exam that will be valued with a maximum of 10 points, and that will have as basis the complete syllabus described in the section "Contents" of the guide of the current academic course. To pass the subject it will be necessary to obtain a minimum of 5 points in this exam. These conditions of evaluation are specific for the early opportunity and will only be applied in this case.

D) Opportunities for June, July and early.

As is mandatory, the rules of evaluation, review and claim of the qualifications of the studies of degree and university Master of the UDC will apply to the evaluation tests (https://www.udc.es/export/sites/udc/normativa/_galeria_down/

Academica/Normas_avaliacion_revision_reclamacion_consolidado_l. pdf).

It is recommended to pay special attention to articles 10. Student identification, and 14. Fraud and disciplinary responsibilities Commission.

	Sources of information
Basic	- Casas Sánchez, J. M. y otros (2006). Ejercicios de Estadística Descriptiva y probabilidad. Madrid, Pirámide
	- Martín-Pliego, F. J., Montero, J. M. y Ruiz-Maya, L. (2006). Problemas de Probabilidad. Madrid, Thomson
	- Martín-Pliego, F. J. y Ruiz-Maya, L. (2006). Fundamentos de Probabilidad. Madrid, Thomson
	- Esteban García, J. y otros (2004). Estadística Descriptiva y nociones de Probabilidad. Madrid, Thomson
	- Montiel, A. M., Rius, F. y Barón, F. J. (1997). Elementos básicos de Estadística Económica y Empresarial. Madrid,
	Prentice Hall
	- Levine, D. M. et al. (2011). Statistics for managers using MS Excel, 6/E. Prentice Hall
	- Levine, D. M., Krehbiel, T. C. and Berenson, M. L. (2010 (5th ed.)). Business Statistics: A first course. Upper Saddle
	River, Pearson Education
	- Newbold, P., Carlson, W. and Thorne, B. (2010). Statistics for business and economics, 7/E. Pearson/Prentice Hall
	Os tres últimos libros servirán como referencia bibliográfica para o grupo de inglés (grupo A) desta materia.
Complementary	- García-Carro Peña, B., Sánchez Sellero, M. C. y Martínez Filgueira, X. M. (2003). Curso práctico de Probabilidad
	con aplicaciones económicas. Universidad da Coruña
	- Cao Abad, R. y otros (2001). Introducción a la Estadística y sus aplicaciones. Madrid, Pirámide
	- Sánz, J. A., Bedate, A., Rivas, A. y González, J. (1996). Problemas de Estadística Descriptiva Empresarial. Madrid,
	Ariel
	- Tomeo Perucha, V. y Uña Juárez, I. (2009). Estadística Descriptiva. Madrid, Garceta
	- Uña Juárez, I., San Martín Moreno, J. y Tomeo Perucha, V. (2010). Cálculo de Probabilidades. Madrid, Garceta
	- Benítez Márquez, M.D. y otros (2012). Estadística Descriptiva. Madrid, McGraw-Hill

	Recommendations
	Subjects that it is recommended to have taken before
Mathematics I/611G02009	
	Subjects that are recommended to be taken simultaneously



Mathematics II/611G02010

Subjects that continue the syllabus

Statistics and Introduction to Econometrics/611G02014

Other comments

Group A of this subject will be taught entirely in English.

(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.