

IDENTIFYING DATA				
Statistics				
Subject	Statistics			
Code	O04G240V01402			
Study programme	(*)Grao en Turismo			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	2nd	2nd
Teaching language	Spanish Galician			
Department				
Coordinator	Pérez González, Ana			
Lecturers	Pérez González, Ana			
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General description	The statistical matter is a *asignatura of compulsory character where will study the basic statistical concepts visiting the subjects of descriptive statistics, calculation of probabilities, variable *aletaorias, statistical inference and numbers index.			

Competencies	
Code	
A1	Students need to show they have acquired and understood the knowledge in a field of study underpinned by general secondary education and which is usually at a level which-while drawing on advanced text books-also includes certain aspects that imply being familiar with the cutting edge of this field of study.
A2	Students need to be able to apply the knowledge acquired to their work or vocation in a professional manner, and should have the skills normally demonstrated through the ability to develop and defends points of view and to solve problems related to their field of study.
A3	Students should be able to collect and interpret relevant data (usually within their field of study) in order to make judgements that include a reflection on the relevant social, scientific or ethical issues.
A4	Students should be able to transmit information, ideas, problems and solutions to both specialised and non-specialised audiences.
A5	Students should have developed the necessary learning skills in order to continue studying with a high level of autonomy.
B1	Skills in handling ICT in order to look up and make use of information
B2	Be capable of analysing, synthesizing and managing data derived from observations through the use of basic quantitative and predictive techniques
B3	The ability to critically interpret data and text
B9	Ability to apply the theoretical and practical knowledge acquired in a specialised academic context
B10	Ability to transform an empirical problem into an object of study and to reach conclusions
C10	Analyse and assess the impact of tourism

Learning outcomes			
Expected results from this subject	Training and Learning Results		
Organise and analyse data from a descriptive point of view	A3	B2 B3	C10
Resolve problems of statistics with the help of a computer tool	A1 A2	B1	
Learn to handle the probability like measure of uncertainty and to use rules of allocation of probabilities.	A5	B9	
Understand the need to work with samples. Comprise the need that all estimate has to go accompanied of a measure of him error of sampling.	A4	B9 B10	
Apply and interpret the process of obtaining of Intervals of confidence and of Contrasts of Hypothesis.		B1 B2 B10	C10

Handle the numbers indexes and interpret the results obtained.	B3 B9	C10

Contents	
Topic	
Subject 1. Descriptive statistics	1.1 Distribution of frequencies. 1.2 Measures of position, dispersion and form. 1.3 graphic Representations. 1.4 Numbers Indexes
Subject 2. Introduction to the calculation of probabilities	2.1 basic Concepts of the calculation of probabilities. 2.2 Probabilities conditioned and concept of independence.
Subject 3.Random variables. Main Discreet and Continuous Distributions.	3.1 Definition of a random variable . 3.2 Characteristics of some random variables. 3.3 Main distributions of probability. 3.4 Applications of the Central Theorem of the Limit.
Subject 4. Concepts and methodological principles of the statistical inference	4.1 Population, sample and his characteristics. Simple random sampling. Distributions associated to the sampling in normal populations. 4.2 punctual Estimate. Concept of estimator and his properties. 4.3 Estimate by means of intervals of confidence in normal populations. 4.4 Contrasts of hypothesis. Approach of the hypotheses. Classical contrasts in normal populations.
Subject 5. I handle of statistical packages	5.1 Introduction to the use of the statistical package like application of the statistical technicians explained in the rest of the *temario.

Planning	Class hours	Hours outside the classroom	Total hours
Lecturing	22	33	55
Previous studies	0	10	10
Practices through ICT	0	14	14
Autonomous problem solving	17	30	47
Problem and/or exercise solving	3	6	9
Essay questions exam	5	10	15
*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.			

Methodologies	Description
Lecturing	Exhibition by part of him professor the through material *put the disposal of *the *students in wool platform of Remote Campus, of *the *contents on wool matter *object of study, theoretical bases *and/the guidelines of a *work, *exercise the *project to *develop by him *student
Previous studies	Reading, research and work of documentation that makes the students of autonomous form
Practices through ICT	Activities of application of the knowledges and acquisition of basic skills and **procedimentais related with the matter. They will develop through TIC and of autonomous form
Autonomous problem solving	The student will have of exercises to resolve of autonomous form.

Personalized assistance	
Methodologies	**Description**
Autonomous problem solving	The students will resolve problems that the professor ask them and will be able to expose doubts on the matter to the professor.The sessions of **titorización will be able to make by telematic *means (email, videoconference, forums of **FAITIC, ...) Under the modality of *concertación previous.

Assessment	Description	Qualification	Training and Learning Results
Lecturing	Realisation of proofs type test of each subject.	20	
Problem and/or exercise solving	Proofs of evaluation of the matter	40	
Essay questions exam	Realisation of proofs on the practices made	40	

Other comments on the Evaluation

To the start of the course; the student will have to decide his method of evaluation between the following

CONTINUOUS EVALUATION:

>❍ The activities and proofs made to the long of the course for the continuous evaluation will constitute 100% of the final

note.

>❍ Those students that do not reach an equal final note or upper to 5 **ptos. (On 10) they will have to go to a final examination where they will be evaluated of agreement to the type of evaluation no continuous.

>❍ they will be able to implement; methodologies; alternatives to determine if the student can or not following with the continuous evaluation

EVALUATION NO CONTINUOUS

This system is thought for that student that can not assist the class or the ; activities developed to the long of the course

Will consist of a final examination with two parts: a part of exercises and theory&*nbsp; and another of practice with the computer.

GENERAL COMMENTS

The activities of evaluation to make will depend of the number of *students, means for the work, etc. The student will be appropriately informed of any one change that had been able to produce because of unforeseen situations

That student that use or cooperate in fraudulent procedures (copy, present by another student, *plagiarism,...) In any of the activities of evaluation will have a final qualification of suspense in this academic course. This fact will be communicated to the competent authority so that it take the disciplinary actions that consider timely

The dates and schedules of the proofs of evaluation of the different periods ;they are the specified in the calendar of proofs of evaluation approved by the Xunta of Centre for the course 2020-21. In case of conflict or disparity between the dates of the examinations, prevail the indicated in the web of the FCETOU

Sources of information

Basic Bibliography

Levin, Rubin, Balderas, Del Valle y Gómez, **Estadística para Administración y Economía**, Prentice Hall,,

Julián Santos Peñas, Ángel Muñoz Alamillos, Azahara Muñoz Martínez, **Estadística para estudios de turismo**, Ediciones Académicas,

Alberto Muñoz Cabanes, **INTRODUCCION A LA ESTADISTICA PARA TURISMO**, Ediciones Académicas,

Espejo Miranda, I.; Fernández Palacín, F.; López Sánchez, M. A.; Muñoz Márquez, M.; A. M. Rodríguez,, **Estadística Descriptiva**, Universidad de Cádiz,, http://knuth.uca.es/repos/l_edyp/pdf/febrero06/,

Gonick, L. y Smith, W.,, **A Estatística en Caricaturas**, SGAPEIO,

Complementary Bibliography

Martín Pliego, F. J. e Ruíz-Maya, L.,, **Estadística I: Probabilidad**, Thomson,

Martín-Pliego López, F. J. e Ruiz-Maya Pérez, L., **Fundamentos de Inferencia Estadística**, Thomson,,

Parra, E.; Ramos Domínguez, A.;Trujillo Ramírez, R.;Arriaga Estévez, M. L.;., **ESTADÍSTICA PARA TURÍSMO**, McGraw-Hill,

Casas Sánchez, J.M.; Martos Gálvez, E. I. y Tejera Martín, I., **Estadística aplicada al turism**, Editorial Universitaria RAmón Areces,

Espejo Miranda, I.; Fernández Palacín, F.; López Sánchez, M. A.; Muñoz Márquez, M.; A. M. Rodríguez,, **Inferencia Estadística,**, Universidad de Cádiz,, http://knuth.uca.es/repos/l_inf_est/pdf/actual/,

Mirás Calvo, M. A. y Sánchez Rodríguez, M. E.,, **Técnicas estadísticas con hoja de cálculo y R. Azar y variabilidad en las ciencias naturales**, (http://hdl.handle.net/11093/970), Universidade de Vigo,

Recommendations

Other comments

It recommends have of:
* basic Knowledges of computing in general
* personal Computer to be able to be with UNDER Windows (in others UNDER will not guarantee the operation of the necessary software)
* Connection to internet sufficiently fast to be able to consult **FAITIC, Remote Campus and come them the low resolution of platforms like *#YouTube, **Vimeo, ...

Contingency plan

Description

=== EXCEPTIONAL *MEASURES SCHEDULED ===
In front of uncertain *and unpredictable wool evolution of wool alerts sanitary caused by wool ***COVID- 19, wool *University

establishes an extraordinary planning that will activate in him moment in that wools *administrations *and own wool institution *determine it *attending to criteria of *security, *health *and *responsibility, *and *guaranteeing wool teaching in a stage in the face-to-face the in the totally face-to-face. These already scheduled *measures *guarantee, in him moment that *was prescriptive, he *development of wool teaching of a *way me the *agile * *and effective *when being *known of **antemano (the with a *wide * *antelación) by him students *and he *profesorado through wool *tool normalised and institutionalised of wools guide educational ***DOCNET.

=== ADAPTATION OF The METHODOLOGIES ===
* educational Methodologies that keep
would keep all the methodologies but would intensify the following:
* Resolution of problems of autonomous form
* Practices through TIC
* Study previous

* educational Methodologies that modify
Any

* no face-to-face Mechanism of attention to the students (**titorías)
In all the cases, the students will be able to expose doubts on the matter to the professor through the tools enabled in the platform of **teledocencia (**FAITIC) or Remote Campus

* Modifications (yes proceed) of the contents to give
will not make modifications in the contents to give

* additional Bibliography to facilitate the car-learning
Link to public videos of Spanish and foreign universities.

=== ADAPTATION OF The EVALUATION ===
Only will adapt the evaluation yes evaluated of face-to-face way less than 60% of the final note.
In case to modify , the remaining proofs will serve so that the student obtain a maximum punctuation of 5 *ptos. (On 10). All that student that do not arrive the that
note or that it want to obtain an upper note will have to opt by the No continuous evaluation.