



## Teaching Guide

Identifying Data				2023/24
Subject (*)	Management Information Systems	Code	611507011	
Study programme	Mestrado Universitario en Dirección e Administración de Empresas (2013)			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	2nd four-month period	First	Obligatory	6
Language	SpanishGalician			
Teaching method	Face-to-face			
Prerequisites				
Department	Empresa			
Coordinador	Fernández Rodríguez, María Teresa	E-mail	m.fernandezr@udc.es	
Lecturers	Aranda Vasserot, Adolfo Fernández Rodríguez, María Teresa	E-mail	adolfo.aranda@udc.es m.fernandezr@udc.es	
Web	moodle.udc.es			
General description	A materia pretende formar os coñecementos e desenvolver as competencias básicas relativas á aplicación das tecnoloxías da información e as comunicacións (TIC) nun contexto empresarial, adoptando unha perspectiva de xestión			

## Study programme competences / results

Code	Study programme competences / results
A1	CE01 - Asumir como profesional e cidadán a importancia da revisión crítica das actuacións sociais e ambientais das empresas.
A2	CE02 - Comprender a incidencia da contorna na actividade empresarial: dispor de coñecementos adecuados para interpretar e elaborar estratexias de actuación social e ambiental da empresa.
A7	Saber realizar un diagnóstico estratéxico del sector en el que se encuentra ubicado la empresa u organización.
A9	CE09 - Preparar informes económicos-financieros que satisfagan as necesidades dos usuarios.
A10	CE10 - Ler e interpretar estados financeiros.
A11	CE11 - Diseñar estratexias corporativas, competitivas e políticas de empresas.
A21	CE21 - Diseñar sistemas de información para a empresa.
A22	CE22 - Manexar ferramentas informáticas para a xestión de empresas.
B1	CB6 - Posuír e comprender coñecementos que acheguen unha base ou oportunidade de ser orixinais no desenvolvemento e/ou aplicación de ideas, a miúdo nun contexto de investigación
B2	CB7 - Que os estudantes saiban aplicar os coñecementos adquiridos e a súa capacidade de resolución de problemas en contornas novas ou pouco coñecidas dentro de contextos máis amplos (ou multidisciplinares) relacionados coa súa área de estudo
B3	CB8 - Que os estudantes sexan capaces de integrar coñecementos e enfrontarse á complexidade de formular xuízos a partir dunha información que, sendo incompleta ou limitada, inclúa reflexións sobre as responsabilidades sociais e éticas vinculadas á aplicación dos seus coñecementos e xuízos
B4	CB9 - Que os estudantes saiban comunicar as súas conclusións e os coñecementos e razóns últimas que as sustentan a públicos especializados e non especializados dun modo claro e sen ambigüidades
B6	CG1 - Organizar e planificar a xestión empresarial.
B7	CG2 - Resolver problemas empresariais.
B8	CG3 - Tomar decisións na empresa de forma efectiva.
B9	CG4 - Compromiso ético na dirección empresarial.
B10	CG5 - Aplicar coñecementos á xestión empresarial
B11	CG6 - Aprender novas técnicas de dirección de empresas.
B12	CG7 - Adaptarse a novas situacións e xerar novas ideas no mundo empresarial.
B14	CG9 - Entender a importancia da cultura emprendedora.
C1	CT01 - Saber manexar as fontes de información relevante e o seu contido
C2	CT02 - Valorar criticamente o coñecemento e a tecnoloxía.
C3	CT03 - Valorar a importancia da aprendizaxe ao longo de toda a carreira profesional.
C4	CT04 - Traballar en equipo e desenvolver un espírito lóxico e creativo.



C5	CT05 - Capacidade de análise e síntese
C6	CT06 - Comunicación oral e escrita.
C7	CT07 - Capacidade crítica.
C8	CT08 - Capacidade de liderado
C9	CT09 - Habilidade para traballar de forma autónoma.
C10	CT10 - Capacidade para comunicarse con expertos doutras áreas.
C11	CT11 - Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.

Learning outcomes			
Learning outcomes	Study programme competences / results		
Comprende-lo papel das TIC nas organizacións empresariais	AJ1 AJ2 AJ21 AJ22	BJ1 BJ2 BJ3 BJ4 BJ6 BJ7 BJ8 BJ9 BJ11 BJ12	CJ1 CJ4 CJ5 CJ7 CJ9 CJ10 CJ11
Relaciona-las TIC coa competitividade e o desempeño empresarial	AJ2 AJ7 AJ11	BJ1 BJ2 BJ3 BJ4 BJ6 BJ7 BJ8 BJ10 BJ11 BJ12 BJ14	CJ1 CJ2 CJ6
Comprende-la dinámica financeira dos investimentos intensivos en TIC	AJ9 AJ10	BJ3 BJ4 BJ6 BJ7 BJ8 BJ10	CJ1 CJ2 CJ4 CJ5 CJ6 CJ7
Saber avaliar investimentos, proxectos ou empresas intensivas en TIC	AJ7 AJ9 AJ10 AJ21	BJ1 BJ2 BJ3 BJ4 BJ7 BJ8 BJ9 BJ10 BJ12 BJ14	CJ2 CJ3 CJ5 CJ6 CJ11



Fomenta-lo interese e o sentido crítico en relación á innovación e ó progreso da tecnoloxía		BJ11 BJ12	CJ1 CJ2 CJ3 CJ4 CJ5 CJ6 CJ7 CJ8 CJ9 CJ10 CJ11
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Contents	
Topic	Sub-topic
Información e toma de decisións	(I)rracionalidade Datos, información e coñecemento
O sistema de información	Sistemas vs. tecnoloxías da información As TIC en perspectiva histórica A organización como un entramado de fluxos de información
A dimensión interna	Procesamento de transaccións Sistemas de xestión e para a toma de decisións
A dimensión externa	Comercio electrónico Cambios estruturais: nube, intelixencia de negocio, intelixencia artificial, analítica avanzada
Aspectos de xestión	Avaliación de investimentos en TIC Intanxibles e competitividade

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Case study	A1 A2 A7 A9 A10 A11 A21 A22 B14 B12 B11 B10 B9 B8 B7 B6 B3 B2 C11 C10 C9 C8 C7 C6 C5 C4 C3 C2 C1	6	12	18
Supervised projects	A2 A9 B10 B11 B12 C2 C4 C6 C9 C10 C11	15	52	67
Problem solving	A7 A11 A21 A22 B1 B2 B3 B6 B7 C2 C3 C11	15	30	45
Guest lecture / keynote speech	A2 A7 A9 A10 A11 B1 B2 B3 B4 B6 B7 B8 B14 C1 C2 C3	6	12	18
Personalized attention		2	0	2

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

Methodologies	
Methodologies	Description



Case study	<p>Critical analysis of real cases. They will be practical activities through the use of information and communication technologies and spreadsheets. Discussion is sought in small groups of the contents.</p> <p>The student can intervene: a) on their own initiative, after asking for a turn to speak; b) at the initiative of the teacher, who will expressly request the intervention of the student</p>
Supervised projects	<p>Medium-length tasks on specific topics or issues, related to information management and data processing, within the field of interest of the subject</p>
Problem solving	<p>1. Preparation, presentation and solution of practical examples that the student, as part of a work group or individually, has to carry out throughout the course.</p> <p>2. There will be exercises and/or readings to be done by the student in non-contact hours or autonomous work. In subsequent face-to-face hours, the following will be done:</p> <p>a) a review of the exercises in which the student can intervene in the terms described in point 3 and b) of the readings, the corresponding question time will be opened in order to clarify those aspects that the student raises about the content of the same .</p> <p>3. The student can intervene: a) on their own initiative, after asking for a turn to speak; b) at the initiative of the teacher, who will expressly request the intervention of the student.</p>
Guest lecture / keynote speech	<p>Session General presentation of work topics, and group coordination</p>

**Personalized attention**

Methodologies	Description
<p>Guest lecture / keynote speech</p> <p>Problem solving</p> <p>Supervised projects</p>	<p>1. In the guest lectures and keynote speeches the student can participate, after being given the floor, to ask, clarify or explain his or her point of view about the issues being dealt with in the moment of his participation.</p> <p>2. In the problem solving classes and supervised projects the student can participate as described in the Methodologies section.</p> <p>3. In the tutorials, the student (including those with partial attending or with attending exemption) can ask about the doubts arisen in the preparation of the subject. Although it is not compulsory, the student can ask about the doubts and the data and time -inside the tutorials schedule- in which he or she wants to be received, thus improving the tutorials effectiveness and management.</p> <p>4. If the questions dealt with in the individual tutorials are of a general interest, from the point of view of the teacher, they could be published in Moodle, together with their answers, to allow other students a better preparation of the subject. The name of the person who made the question will never be published</p>

**Assessment**

Methodologies	Competencies / Results	Description	Qualification
Case study	<p>A1 A2 A7 A9 A10 A11</p> <p>A21 A22 B14 B12</p> <p>B11 B10 B9 B8 B7 B6</p> <p>B3 B2 C11 C10 C9</p> <p>C8 C7 C6 C5 C4 C3</p> <p>C2 C1</p>	<p>The cases will consist of preparation, presentation and discussion of activities related to the specific contents of the subject at the proposal of the teachers 20</p>	20



Problem solving	A7 A11 A21 A22 B1 B2 B3 B6 B7 C2 C3 C11	<p>The problems will consist of individual and/or group exercises using spreadsheets containing data related to business management and decision making.</p> <p>It will be valued i) the degree of participation; ii) creativity and level of assertiveness; iii) the ability to diagnose the situations raised and make valuable contributions; iv) the quality of the proposed solutions; v) the content of the report or memory presented; and vi) the ability to support the conclusions with arguments based on the financial, organizational and competitive logic of the company.</p> <p>In the case of group tasks, the qualification can be individualized according to these criteria.</p>	40
Supervised projects	A2 A9 B10 B11 B12 C2 C4 C6 C9 C10 C11	<p>Autonomous group work in which each group will choose a database that must contain qualitative and/or quantitative variables and will prepare a report in Word that will include the following sections:</p> <ul style="list-style-type: none"><li>- Characteristics of the chosen information system</li><li>- Structure of the information system</li><li>- Sources of information and type of data used</li><li>- Analysis and Visualization of data through spreadsheets, any Statistical tool or "Business Intelligence" The report will explain the steps followed to carry out the corresponding analysis and will be accompanied by the work files used.</li><li>- Decision making and conclusions</li></ul> <p>Additionally, each group will make a presentation and present the analysis and results obtained in the Team Project, including a reflection on the difficulties encountered (for example: inaccurate data, available information, purpose of the analysis, analytical skills) and the lessons learned.</p> <p>The presentation of the work will be carried out and will have a maximum duration of 10 minutes. After the presentation, each team will have to answer the questions or clarifications raised by their classmates or the teacher.</p> <p>All team members must participate in the oral presentation.</p>	40

Assessment comments



## A) EVALUATION

### REGULATIONS:

#### Assessment conditions:

It is forbidden to access the exam room with any device that allows communication with the outside and / or storage of information. Cheating on the assessment tests or activities, once confirmed, will result in a failing grade (a 0, as numeric mark) in the corresponding convocatory and both in the first and in the second opportunities. If needed, the mark in the first opportunity act will be altered.

#### Student identification:

The student must prove her personality in accordance with current regulations.

## B) TYPES OF RATING:

### Qualification of not

presented: Corresponds to the student, when he only participates in evaluation activities that have a weighting of less than 20% on the final qualification, regardless of the qualification achieved.

### Students with

recognition of part-time dedication and academic waiver of attendance exemption:

Except for the dates approved in the Faculty Board for the final objective test, for the remaining tests a specific calendar of dates compatible with their dedication. For this reason, the student must contact the teacher of the subject in the first ten days of the semester in which the subject is taught, in order to set the aforementioned calendar. The tests will have the same format as for full-time students.

## C) ASSESSMENT

### OPPORTUNITIES:

#### 1. First opportunity:

The evaluation criteria previously indicated in this section will be applied.

#### 2. Second opportunity:

The evaluation criteria are the same as in the first opportunity.

#### 3. Early opportunity: It

will be evaluated through a mixed test that will account for 100% of the final grade.

## D) OTHER EVALUATION

### OBSERVATIONS:

#### 1. In general, without

prejudice to what is indicated for students with recognition of part-time dedication and academic exemption from attendance exemption, class attendance is required to qualify for the part of the grade corresponding to continuous evaluation, both first chance and second chance. At the end of the evaluation period corresponding to the first opportunity, students who have yet to pass the subject may be proposed activities that allow them to recover the part of the grade corresponding to the continuous evaluation for the second opportunity, which they must request. to the teaching staff of the subject at least ten days before the date of the second chance exam.

#### 2. The scoring criteria

for each of the tests will be announced at the time of the test and will be supplied with the statement of the test



## Sources of information

<b>Basic</b>	<ul style="list-style-type: none"><li>- Gómez Vieites, A. (2009). Sistemas de información: herramientas prácticas para la gestión empresarial. Madrid: Ra-ma</li><li>- Cardona, J. (ed.) (2011). Sistemas de información empresarial: casos y supuestos prácticos. Granada: GEU</li><li>- Robson, W. (1994). Strategic management and information systems an integrated approach. Londres: Pitman</li><li>- Alter, S. (1996). Information Systems. A Management Perspective. Menlo Park, California: Benjamin Cummings</li><li>- O'Brien, J. (2006). Management information systems. Boston: McGraw - Hill</li><li>- Li, F. (1995). The geography of business information. Chichester: Wiley</li><li>- Andreu, R. (1996). Estrategia y sistemas de información. Madrid: McGraw - Hill</li><li>- Hirschheim, R. et al. (2002). Information systems outsourcing: enduring themes, emergent patterns, and future directions. New York: Springer Verlag</li></ul> <p>A busca e análise de fontes é unha das metodoloxías desenvolvidas durante o curso e un dos seus obxectivos formativos; neste sentido, a bibliografía aportada debe entenderse como unha reseña básica e xeral, que se completa con referencias específicas para cada capítulo.</p>
<b>Complementary</b>	

## Recommendations

Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Other comments



1. The delivery of the documentary works carried out in this subject:

It

will be requested in virtual format and / or computer support

It

will be done through Moodle, in digital format without the need to print it

2. The importance of ethical principles related to sustainability values in personal and professional behavior must be taken into account.

3. Work will be done to identify and modify prejudices and sexist attitudes and the environment will be influenced to modify them and promote values of respect and equality. Actions to fix gender discrimination, when detected, will be proposed.

Según se recoge en las distintas normativas de aplicación para la docencia universitaria se deberá incorporar la perspectiva de género en esta materia. Se trabajará para identificar y modificar prejuicios y actitudes sexistas y se influirá en el entorno para modificarlos y fomentar valores de respeto e igualdad. Se deberán detectar situaciones de discriminación por razón de género y se propondrán acciones y medidas para corregirlas.

4. The full integration of students who, for physical, sensory, psychological or sociocultural reasons, experience difficulties to an adequate, equal and profitable access to university life will be facilitated.

(\*)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.