Universida_{de}Vigo

Subject Guide 2023 / 2024

IDENTIFYIN				
	nt, management and ITC management			
Subject	Government,			
	management and			
	ITC management			
Code	P52M182V01101			
Study	Master			
programme	Universitario en			
	Dirección TIC para			
	la defensa			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	3	Mandatory	1st	1st
Teaching	Spanish			
language				
Department				
Coordinator	Rodríguez Rodríguez, Francisco Javier			
Lecturers	Merino Gil, Miguel Ángel Manuel			
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General	The course aims to provide an overview of the strateg		company and the	strategic alignment
description	of ICT. Following the planning process, ICT governance			
·	COBIT 5. In order to evaluate the performance of gove			
	performance indicators will be explained. As an indispensable part of an organisation's performance, and at the			
	base of the organisational structure, human resource management will be discussed.			

Training and Learning Results

Code

- A6 CB6 Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context.
- A7 CB7 That students know how to apply the acquired knowledge and their ability to solve problems in new or poorly understood environments within broader (or multidisciplinary) contexts related to their area of study.
- A8 CB8 That students are able to integrate knowledge and face the complexity of formulating judgments based on information that, being incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments.
- A9 CB9 That students know how to communicate their conclusions and the knowledge and ultimate reasons that support them to a specialized and unspecialized public in a clear and unambiguous way.
- A10 CB10 That students possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous.
- B1 CG1 Possess advanced and highly specialized knowledge and demonstrate a detailed and well-founded understanding of the theoretical and practical aspects dealt with in the different areas of study.
- B3 CG3 Direct, plan, coordinate, organize and/or supervise tasks, projects and/or human groups. Work cooperatively in multidisciplinary teams acting, where appropriate, as an integrator of knowledge and lines of work.
- B6 CG6 Be able to make decisions in environments characterized by complexity and uncertainty, evaluating the different existing alternatives in order to select the one with the most favorable expected result, appropriately managing the risk associated with the decision.
- C1 CE1 Acquire knowledge and skills to develop effective leadership for the digital transformation of an organization.
- C2 CE2 Have capacities in relation to the ICT Government and the Management, Operation and Maintenance Services of Information and Communication Systems and Technologies and Information Security.
- C3 CE3 Define, implement, direct and manage the organizational, operational and support processes in obtaining ICT resources and for the management and quality of the service; with a guarantee of safety for people and goods, the final quality of the products and their homologation.
- C4 CE4 Strategically plan, direct, coordinate and technically and economically manage projects in the field of ICTs and information security, applying the current normative and regulatory framework in the technical-economic-legal fields.
- D1 CT1 Ability to understand the meaning and application of the gender perspective in the different fields of knowledge and in professional practice with the aim of achieving a fairer and more egalitarian society.

D3 CT3 - Incorporate criteria of sustainability and environmental commitment into professional practice. Acquire skills in the equitable, responsible and efficient use of resources.

Expected results from this subject Expected results from this subject	Training and
	Learning Results
LO1: Know a complete vision of the strategic management of the company.	A10
	B1
	В3
	B6
	C1
	D1
	D3
.02: Understand the concept of ICT strategic alignment.	A10
202. Office State and Concept of Tell Strategic anglifficity.	B1
	B3
	B6
	C1
	C2
	C4
	D1
	D3
.O3: ICT governance and related standards: ISO 38.500, COBIT 5.	A6
	A7
	A10
	B1
	B3
	B6
	C4
	D1
	D3
_O4: Understand the functioning of the value chain and its generation and the use of technology to	A7
support processes.	A10
napport processes.	B1
	B3
	B6
	C1
	C3
	D1
	D3
.05: Understand the use of balanced scorecards and ICT performance indicators.	A7
	A9
	A10
	B1
	B3
	B6
	C1
	C2
	D1
	D3
O6: Understand how human resource management contributes to strategic objectives.	A7
con onacistana non naman resoaree management continuates to strategic objectives.	A8
	A10
	B1
	B3
	B6
	C1
	D1
	D3

Contents			
Topic			

Topic 1. Introduction to strategic business	1.1. Introduction. Basic management functions.
planning	1.2. The strategic management process.
	1.3. Strategic conceptualisation: vision, philosophy, mission.
	1.4. Strategic analysis.
	1.5. Organisational culture and goal-setting process.
	1.6. Strategy selection.
Topic 2. ICT governance, management and	2.1. ICT Governance.
management: ISO/IEC 38500 standard and COBI	
5	2.3. Reference frameworks for governance and management of ICT.
	2.4. ISO/IEC 38500. Introduction.
	2.5. ISO/IEC 38500. Main objectives and basic principles.
	2.6. ISO/IEC 38500. Implementation objectives.
	2.7. COBIT, Control Objectives for Information and Related Technologies:
	Introduction.
	2.8. COBIT. Reference Framework.
	2.9. COBIT. Principles.
	2.10. COBIT. Enabling Processes
	2.11. COBIT. Product family.
	2.12. COBIT 5 and other standards and frameworks.
	2.13. Ministry of Defence STIC policy.
	2.14. Supplementary information.
Topic 3. Vision and mission of the ICT manager	3.1. Introduction.
•	3.2. CIO competencies.
	3.3. Key relationships of the CIO.
	3.4. Director of CISTIC and CIO of the Ministry of Defence.
	3.5. Further reading and activities
Topic 4. Value generation and performance	4.1. Introduction.
management	4.2. The Value of an Exercise Machine.
-	4.3. Value of IT in the context of Business.
	4.4. How to communicate value.
	4.5. New ways to create value. The 4-source model of value creation from
	IT.
	4.6. Value analysis in different IT scenarios, frameworks, methodologies
	and new IT trends.
	4.7. References.
Topic 5. Balanced Scorecards and Performance	5.1. The Balanced Scorecard. Introduction and concepts.
Management	5.2. Perspectives of the BSC and objectives.
, and the second	5.3. Strategy maps.
	5.4. Key performance indicators, KPIs.
	5.5. Strategic initiatives
	5.6. BSC applied to ICT
	5.7. KPI indicators, application to ICT.
	5.8. Complementary information. Links.
Topic 6. Human and material resources	6.1. Theoretical-technical elements of management and strategic change:
management	From human resources to talent-based people management (TPD).
-	6.2. Managing people and talent as a strategic factor.
	6.3. Motivational and creative approach to human behaviour.

Planning			
	Class hours	Hours outside the classroom	Total hours
Autonomous problem solving	0	6	6
Previous studies	0	35	35
Lecturing	5	5	10
Problem solving	3	3	6
Practices through ICT	4	0	4
Seminars	2	0	2
Discussion Forum	0	3	3
Presentation	3	6	9

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

Description	
Autonomous problem Activity in which students analyse and solving independently.	solve problems and/or exercises related to the subject

Previous studies	Research, reading, documentation work and/or autonomous performance of any other activity that the student considers necessary to enable him/her to acquire knowledge and skills related to the subject. This is usually carried out prior to classes, laboratory practicals and/or assessment tests.
Lecturing	Presentation by a lecturer of the contents of the subject being studied, theoretical bases and/or
	guidelines for a project or exercise to be carried out by the student.
Problem solving	Activity in which problems and/or exercises related to the subject are formulated. The student must develop appropriate and correct solutions by exercising routines, applying formulas or algorithms, applying procedures for transforming the available information and interpreting the results.
Practices through ICT	Activities involving the application of knowledge in a given context and the acquisition of basic and procedural skills in relation to the subject, through the use of ICT.
Seminars	Activity focused on working on a specific topic, which allows to deepen or complement the contents of the subject.
Discussion Forum	An activity carried out in a virtual environment in which a variety of current topics related to the academic and/or professional sphere are debated.

Personalized assistance				
Methodologies	Description			
Lecturing	Given the blended nature of the course, we will distinguish between two cases: (1) Attention in the distance phase: this will be carried out using telematic means. Students who wish to do so may ask the lecturers questions in forums or by e-mail. They will also be able to arrange individual tutorials with the lecturer, which will be carried out by videoconference. (2) Attention in the face-to-face phase: although it is still possible to use telematic mechanisms for student attention, during this phase, face-to-face tutoring mechanisms (individual and/or group) will also be used.			
Problem solving	Given the blended nature of the course, we will distinguish between two cases: (1) Attention in the distance phase: this will be carried out using telematic means. Students who wish to do so may ask the lecturers questions in forums or by e-mail. They will also be able to arrange individual tutorials with the lecturer, which will be carried out by videoconference. (2) Attention in the face-to-face phase: although it is still possible to use telematic mechanisms for student attention, during this phase, face-to-face tutoring mechanisms (individual and/or group) will also be used.			
Practices through ICT	Given the blended nature of the course, we will distinguish between two cases: (1) Attention in the distance phase: this will be carried out using telematic means. Students who wish to do so may ask the lecturers questions in forums or by e-mail. They will also be able to arrange individual tutorials with the lecturer, which will be carried out by videoconference. (2) Attention in the face-to-face phase: although it is still possible to use telematic mechanisms for student attention, during this phase, face-to-face tutoring mechanisms (individual and/or group) will also be used.			
Seminars	Given the blended nature of the course, we will distinguish between two cases: (1) Attention in the distance phase: this will be carried out using telematic means. Students who wish to do so may ask the lecturers questions in forums or by e-mail. They will also be able to arrange individual tutorials with the lecturer, which will be carried out by videoconference. (2) Attention in the face-to-face phase: although it is still possible to use telematic mechanisms for student attention, during this phase, face-to-face tutoring mechanisms (individual and/or group) will also be used.			

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Assessment				
	Description	Qualification	n Training and Learning Resu	
Practices through ICT	Activities involving the application of knowledge in a specific context and the acquisition of basic and procedural skills in relation to the subject, through the use of ICT. They allow the student's knowledge and skills to be assessed. They will be assessed by means of deliverables. There will be 6 deliverables in the distance phase (the statements will be uploaded to the platform by the teacher and the student must upload the resolution) belonging to the following topics: - E1: exercise on the application of Porter's 5 forces (topic 1) (10%), - E2: activities 1, 2 and 3 (topic 2) (15%), - E3: exercise (topic 3) (5%), - E4: activities 1, 2 and 3 (topic 4) (15%), - E5: exercise (topic 5) (12.5%) and - E6: questionnaire of questions on HR-talent management (topic 6) (10%).	67.5	A7 B1 C1 D A8 B3 C2 D A9 B6 C3 A10 C4	_
Presentation	Presentation by the students, individually or in groups, of a topic related to the contents of the subject or the results of a project, exercise, project, etc. Knowledge, skills and attitudes can be assessed through the presentation. The following exercises will be presented by the student in the classroom phase (belonging to topic 5): - P1: exercise 1 presented by groups "CIO debate" (10%), - P2: exercise 2 presented by groups "Strategic map" (10%) and - P3: final work in face-to-face and individual phase "Qlik Sense" (12.5%).	32.5	A7 B1 C1 D A8 B3 C3 D A9 B6 A10	_

Other comments on the Evaluation

We call the average continuous assessment mark MED CON, which is calculated as:

 $MED\ CON = 0.1*E1 + 0.15*E2 + 0.05*E3 + 0.15*E4 + 0.125*E5 + 0.1*E6 + 0.1*P1 + 0.1*P2 + 0.125*P3$

It will be necessary to obtain at least 50% of the grade to pass the subject.

In the event that the student does not manage to pass the subject in the ordinary call, he/she will have the right to a second opportunity for assessment (extraordinary call) on the dates established for this purpose by the Master's Academic Committee. The evaluation in this extraordinary call will consist of a single written test, which will be carried out in the distance mode, which will account for 100% of the grade, being necessary to obtain at least 50% to pass the subject.

ACADEMIC INTEGRITY:

Students are expected to show adequate ethical behaviour, committing to act honestly. Based on article 42.1 of the *Regulation on the evaluation, qualification and quality of teaching and the student learning process of the University of Vigo*, any violation of academic integrity in the assessment process, as well as the cooperation in it will result in the assignment of a failing grade to the student (zero) for the entire course in the corresponding assessment opportunity, regardless of the percentage of importance that the test in question had in the overall continuous assessment and independently of other disciplinary actions that may be applied.

In the case of any difference between the Galician/Spanish/English guides related to the evaluation, the Spanish guide will always prevail.

Sources of information

Basic Bibliography

Complementary Bibliography

J. A. O Brien, G. M. Marakas, Sistemas de información gerencial, 7, McGraw-Hill, 2006

International Organization for Standardization, ISO/IEC 38500:2015 Information technology -- Governance of IT for the organization, 2015

J.R Rodríguez, Planificación y dirección estratégica de sistemas de información, Editorial UOC, 2015

C. M. Fernández Sánchez, M. Piattini Velthuis, **Modelo para el gobierno de las TIC basado en las normas ISO**, AENOR, 2012

Karl D. Schubert, CIO Survival Guide, the Roles and Responsibilities of the Chief Information Officer, Wiley, 2004

Recommendations

Subjects that are recommended to be taken simultaneously

IT process management and continuous improvement/P52M182V01102