Universida_{de}Vigo

Subject Guide 2022 / 2023

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IDENTIFYIN						
	t, management and ITC management					
Subject	Government,					
	management and					
	ITC management					
Code	P52M182V01101					
Study	Master					
programme	Universitario en Dirección TIC para					
	Dirección TIC para la defensa					
Descriptors	ECTS Credits	Choose	Voor	Quadmostor		
Descriptors	3		Year 1st	Quadmester 1st		
Teaching	 Spanish	Mandatory	151	151		
language	Spailist					
Department						
	Podríguoz Dodríguoz Eropeiceo Jovier					
Lecturers	Rodríguez Rodríguez, Francisco Javier Ares Tarrío, Miguel Ángel					
Lecturers	Merino Gil, Miguel Ángel Manuel					
	Rodríguez Rodríguez, Francisco Javier					
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Web	http://campus.defensa.gob.es https://moovi.uvigo.ga	1				
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	e and related stand	lards will be discu	issed: ISO 38.500 and		
	performance indicators will be explained. As an indisp					
	base of the organisational structure, human resource i	management will b	be discussed.			
Skills						
Code						
A6 CB6 - P	ossess and understand knowledge that provides a basis	s or opportunity to	be original in the	development and / or		
	tion of ideas, often in a research context.					
unders	hat students know how to apply the acquired knowledg cood environments within broader (or multidisciplinary)	contexts related to	o their area of stu	ıdy.		
informa	hat students are able to integrate knowledge and face t ition that, being incomplete or limited, includes reflection					
	tion of their knowledge and judgments.					
	hat students know how to communicate their conclusio a specialized and unspecialized public in a clear and u		dge and ultimate	reasons that support		
A10 CB10-	That students possess the learning skills that allow ther		ying in a way tha	t will be largely self-		
	d or autonomous.					
	ossess advanced and highly specialized knowledge and		etailed and well-fo	ounded understanding		
	heoretical and practical aspects dealt with in the differe					
	virect, plan, coordinate, organize and/or supervise tasks sciplinary teams acting, where appropriate, as an integr					
existing	e able to make decisions in environments characterized alternatives in order to select the one with the most fa ted with the decision.					
C1 CE1 - A	cquire knowledge and skills to develop effective leaders	ship for the digital	transformation of	f an organization.		
	ave capacities in relation to the ICT Government and th					
	ition and Communication Systems and Technologies an					
	efine, implement, direct and manage the organizationa			s in obtaining ICT		
	es and for the management and quality of the service;					
	of the products and their homologation.	-		-		
	trategically plan, direct, coordinate and technically and	economically man	age projects in th	ne field of ICTs and		
	tion security, applying the current normative and regul					

- 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.

Learning outcomes Expected results from this subject	Training and
	Learning Results
LO1: Know a complete vision of the strategic management of the company.	A10
	B1
	B3
	B6
	C1
	D1
	D3
_O2: Understand the concept of ICT strategic alignment.	A10
	B1
	B3
	B6
	C1
	C2
	C4
	D1
	D3
LU3: ICT governance and related standards: ISO 38.500, COBIT 5.	A6
	A7
	A10
	B1
	B3
	B6
	C4
	D1
	D3
	A7
support processes.	A10
	B1
	B3
	B6
	C1
	C3
	D1
	D3
LO5: Understand the use of balanced scorecards and ICT performance indicators.	A7
	A9
	A10
	B1
	B3
	B6
	C1
D2: Understand the concept of ICT strategic alignment. esign and carry out research using suitable quantitative methods. D3: ICT governance and related standards: ISO 38.500, COBIT 5. D4: Understand the functioning of the value chain and its generation and the use of technolog upport processes. D5: Understand the use of balanced scorecards and ICT performance indicators. D6: Understand how human resource management contributes to strategic objectives.	C2
	D1
	D3
LO6: Understand how human resource management contributes to strategic objectives.	A7
	A8
	A10
	B1
	B3
	B6
	C1
	D1
	D3

Topic

Topic 1. Introduction to strategic business planning	 1.1. Introduction. Basic management functions. 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 management: ISO/IEC 38500 standard and COBIT 5	2.1. ICT Governance.
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 management	 4.1. Introduction. 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 Management	 5.1. The Balanced Scorecard. Introduction and concepts. 5.2. Perspectives of the BSC and objectives. 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 management	 6.1. Theoretical-technical elements of management and strategic change: 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.

	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
Self-assessment	0	6	6
Presentation	3	0	3
The information in the planning table is	for guidance only and does no	ot take into account the hete	erogeneity of the studen

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

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.

Assessment						
	Description	Qualification	Tr Lear	ainir ning		
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.		A7 A8 A9 A10	Β3	C1 C2 C3 C4	
Discussion Forum	An activity carried out in a virtual environment in which a variety of curren topics related to the academic and/or professional sphere are debated. It allows the evaluation of the student's skills, knowledge and, to a lesser extent, attitudes. Participation in the forums will be assessed.		A6 A10		C1 C2	
Self-assessment	A mechanism in which, by means of a series of questions or activities, it is possible for the student to autonomously evaluate his/her degree of acquisition of knowledge and skills on the subject, allowing self-regulation of the personal learning process.		A6 A7 A8 A10	B3	C1 C2 C3 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.		A7 A8 A9 A10		C1 C3	

Other comments on the Evaluation

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.

Fraud or attempted fraud on the part of the student in the evaluation process (copying or plagiarism or facilitating it to third parties) will be penalised by giving the student a failing grade (0.0) in the exam session in which it occurs. 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

ICT process management and continuous improvement/P52M182V01102