		Teachin	g Guide		
	Identifying Data			2022/23	
Subject (*)	Information Systems Standards Code			614G01044	
Study programme	Grao en Enxeñaría Informática				'
		Desc	riptors		
Cycle	Period	Ye	ear	Туре	Credits
Graduate	2nd four-month period	Th	nird	Optional	6
Language	SpanishGalicianEnglish				,
Teaching method	Hybrid				
Prerequisites					
Department	Ciencias da Computación e Tecn	oloxías da Info	rmaciónComputació	on	
Coordinador	Parapar López, Javier E-mail javier.parapar@udc.es			@udc.es	
Lecturers	Parapar López, Javier E-mail javier.parapar@udc.es			@udc.es	
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General description	In this course we will tackle the co	onceptual and	theoretical foundation	ons associated with the	he work of a IS Auditor. The work
	of a IS Auditor is to ensure that information systems safeguard the assets of the organization, maintaining the integrity of			ation, maintaining the integrity of	
	the data and achieve business objectives in an efficient and effective way. The quality assurance requirements for			ssurance requirements for	
	information systems determine the daily operation of enterprises and organizations and justify the task of auditing			justify the task of auditing	
	information systems. This course will detail the classical process of the Information Systems Audit, its implications for				
	corporate IT Governance, strategies for asset protection in information systems, plans for business continuity after disaster				
	situations and regulatory issues and laws on data protection in Information Systems. The knowledge acquired by students				
	in this course follows the recommendations of the "Information Systems Audit and Control Association" which offers			ol Association" which offers	
	certification of Certified Information	on System Aud	itor. After completing	g the course the stud	lent should know the procedures,
	controls and reports required to carry out an Information Systems Audit.				

	Study programme competences
Code	Study programme competences
A47	Capacidade para determinar os requisitos dos sistemas de información e comunicación dunha organización de acordo cos aspectos de
	seguridade e cumprimento da normativa e a lexislación vixente.
A51	Capacidade para comprender e aplicar os principios e as técnicas de xestión da calidade e da innovación tecnolóxica nas organizacións.
B1	Capacidade de resolución de problemas
В3	Capacidade de análise e síntese
В7	Preocupación pola calidade
B8	Capacidade de traballar nun equipo interdisciplinar
C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.

Learning outcomes			
Learning outcomes	Study	y progra	amme
	COI	mpeten	ces
Information Systems Audit	A47	B1	C6
	A51	В3	
		B7	
		В8	
Information Systems Quality Assurance		В3	C6
		B7	
Information Systems Control	A47	В3	
		B7	

Contents	
Topic	Sub-topic

Concept, needs, requirements.
QA Levels and tasks.
Quality Management Systems.
QA planning and quality reviews
Concept, needs, functions
Risk assessment
Internal Controls
Audit planning and audit evidences
Performing an IS Audit
Concept and needs
IS strategies vs corporative strategies.
Frameworks: COBIT.
Auditing IT governance structures.
Risk management
Concept and needs
IS Protection
Logical and applied protection of IS
Physical protection of IS infrastructure.
Security frameworks auditing.
General concepts.
Business continuity planning and components.
Auditing the BCP
Spanish regulatory framework.
Data protection regulation.

	Plannin	g		
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Workbook	В3	2	7	9
Case study	B1 B8	10	25	35
Mixed objective/subjective test	A51 B1 B7 C6	2	0	2
Supervised projects	A47 B1 B3 B7	7	21	28
Guest lecture / keynote speech	A47 A51 B7	19	57	76
Personalized attention		0	0	0
(*)The information in the planning table is for gui	dance only and does not	take into account the	heterogeneity of the stud	dents.

	Methodologies	
Methodologies	Description	
Workbook	Readings for consolidating and complement the knowledge acquired by the student during the lessons. Topics: techniques, applications and information systems.	
Case study	Case studies with problem analysis and achieved solutions.	
Mixed	In this test the knowledge acquired by the student about the theoretical and operative topics covered during the course will be	
objective/subjective	evaluated.	
test		
Supervised projects	A set of guided works proposed by the professor will be developed by the students individually or in groups.	
Guest lecture /	Lectures for the exposition of the theoretical aspects of the course using different resources such as blackboard, slides,	
keynote speech	beamer, demonstrations, and online teaching tools.	

	Personalized attention
Methodologies	Description



Supervised projects	Guided works will be proposed by the professor to be solved by the students

		Assessment	
Methodologies	Methodologies Competencies Description		Qualification
Case study	B1 B8	Case studies for the independent working of the students and student participation in the lectures. It is mandatory to achieve at least the 40% of the marks in order to pass the course	40
Mixed objective/subjective test	A51 B1 B7 C6	Questions about the acquired knowledge. Questions involving critical reasoning for solving practical problems of the real world. It is mandatory to achieve at least the 40% of the marks in order to pass the course	40
Supervised projects	A47 B1 B3 B7	Tracking of the working process and evaluation of the final output from the students. It is mandatory to achieve at least the 40% of the marks in order to pass the course	20

Assessment comments

Para a segunda oportunidade e as convocatorias non ordinarias, tanto as prácticas e traballos como a teorías avaliaranse no exame mixto. En lo referente a alumnos en regimen parcial, no se dispensará la asistencia a las actividades donde se realice evaluación.

	Sources of information
Basic	- Sandra Senft y Frederick Gallegos (2008). Information Technology Control and Audit. Auerbach Publishers Inc
	- Chris Davis, Mike Schiller, Kevin Wheeler (2006). IT Auditing: Using Controls to Protect Information Assets.
	McGraw-Hill
	- ISACA (2012). Cobit 5: A Business Framework for the Governance and Management of Enterprise IT
	- ISACA (). http://www.isaca.org.
	- Mario G. Piattini Velthuis, Félix O. García Rubio, Ignacio García Rodríguez de Guzmán, Francisco J. (2015).
	Calidad de sistemas de información 2nd ed. RAMA
Complementary	

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

(*)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.