		Teachir	ng Guide			
	ldentifyir	ng Data				2021/22
Subject (*)	Information Systems Standards Code			614G01044		
Study programme	Grao en Enxeñaría Informática					
		Desc	riptors			
Cycle	Period	Y	ear		Туре	Credits
Graduate	2nd four-month period	Th	nird		Optional	6
Language	SpanishGalicianEnglish					'
Teaching method	Hybrid					
Prerequisites						
Department	Ciencias da Computación e Tecr	oloxías da Info	ormaciónCompu	ıtación		
Coordinador	Parapar López, Javier		E-mail	I	javier.parapar@u	dc.es
Lecturers	Landín Piñeiro, Alfonso		E-mail	ı	alfonso.landin@u	dc.es
	Parapar López, Javier				javier.parapar@u	dc.es
Web	www.dc.fi.udc.es/~parapar			'		
General description	In this course we will tackle the c	onceptual and	theoretical foun	dations a	ssociated with the	work of a IS Auditor. The work
	of a IS Auditor is to ensure that in	nformation syst	ems safeguard	the asset	s of the organization	on, maintaining the integrity of
	the data and achieve business objectives in an efficient and effective way. The quality assurance requirements for					
	information systems determine the daily operation of enterprises and organizations and justify the task of auditing					
	information systems. This course	will detail the	classical proces	s of the Ir	nformation System	ns Audit, its implications for
	corporate IT Governance, strateg	ies for asset p	rotection in infor	rmation sy	ystems, plans for b	ousiness continuity after disaster
	situations and regulatory issues a	and laws on da	ta protection in	Informatio	on Systems. The k	nowledge acquired by students
	in this course follows the recommendations of the "Information Systems Audit and Control Association" which offers certification of Certified Information System Auditor. After completing the course the student should know the procedu			Association" which offers		
				nt should know the procedures,		
	controls and reports required to carry out an Information Systems Audit.					
Contingency plan	1. Modificacións nos contidos					
-No se contemplan modificación de los contenidos						
	2. Metodoloxías					
	-No se contemplan modificacio	nes de metodo	ologías, solo			
	3. Mecanismos de atención perso	onalizada ao a	lumnado			
	-Las tutorías serán online en cualquier caso					
	4. Modificacións na avaliación					
	-No se contemplan modicacion	es en las forma	as de evaluar, s	olo camb	iará el formato que	e podrá ser presencial u online
	según la situación					
	5. Modificacións da bibliografía o	u webgrafía:				
	-No se contemplan					

	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
B7	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	/ progra	amme
	cor	npeten	ces
Information Systems Audit	A47	B1	C6
	A51	В3	
		В7	
		B8	
Information Systems Quality Assurance	A51	В3	C6
		В7	
Information Systems Control	A47	В3	
		В7	

	Contents	
Topic	Sub-topic Sub-topic	
Unit 1: Introduction to the Quality Assurance Concept in	Concept, needs, requirements.	
Information Systems.	QA Levels and tasks.	
	Quality Management Systems.	
	QA planning and quality reviews	
Unit 2: IS Auditing process	Concept, needs, functions	
	Risk assessment	
	Internal Controls	
	Audit planning and audit evidences	
	Performing an IS Audit	
Unit 3: IT Governance	Concept and needs	
	IS strategies vs corporative strategies.	
	Frameworks: COBIT.	
	Auditing IT governance structures.	
	Risk management	
Unit 4: Protection of Information Assets	Concept and needs	
	IS Protection	
	Logical and applied protection of IS	
	Physical protection of IS infrastructure.	
	Security frameworks auditing.	
Unit 5: Business continuity plans and recovering after	General concepts.	
disasters.	Business continuity planning and components.	
	Auditing the BCP	
Unit 6: Legal aspect in IS	Spanish regulatory framework.	

	Plannin	g		
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Workbook	B3	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

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

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.