		Teaching Guide			
	Identifying Data				
Subject (*)	Incident Management		Code	614530015	
Study programme	Máster Universitario en Ciberseguridade				
		Descriptors			
Cycle	Period	Year	Туре	Credits	
Official Master's Degre	e 2nd four-month period	First	Optional	3	
Language	SpanishGalician				
Teaching method	Face-to-face				
Prerequisites					
Department	Ciencias da Computación e Tecnol	oxías da InformaciónC	omputación		
Coordinador	López Rivas, Antonio Daniel	Е	-mail daniel.lopez@	@udc.es	
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Web	moovi.uvigo.es	'	'		
General description	The management of cybersecurity i	ncidents focuses on m	anaging proactivity to prever	nt and mitigate possible	
	consequences. The necessary knowledge about tools that can facilitate the management of incidents and recoveries, the			ent of incidents and recoveries, the	
	justification of the proposed plans for recovery and resilience, the identification and classification of possible incidents and				
	the definition of the channels for the	eir management and re	solution will be obtained.		

	Study programme competences / results
Code	Study programme competences / results
А3	CE3 - Knowledge of the legal and technical standards used in cybersecurity, their implications in systems design, in the use of security
	tools and in the protection of information
A9	CE9 - Ability to write clear, concise and motivated projects and work plans in the field of cybersecurity
A14	CE14 - Ability to develop a continuity business plan on the guidelines of commonly accepted norms and standards
A15	CE15 - Ability to identify the value of information for an institution, economic or of other sort; ability to identify the critical procedures in an
	institution, and the impact due to their disruption; ability to identify the internal and external requirements that guarantee readiness upon
	security attacks
A17	CE17 - Ability to plan a time schedule containing the detection periods of incidents or disasters, and their recovery
B2	CB2 - Students will be able to apply their knowledge and their problem-solving ability in new or less familiar situations, within a broader
	context (or in multi-discipline contexts) related to their field of specialization
В3	CB3 - Students will be able to integrate diverse knowledge areas, and address the complexity of making statements on the basis of
	information which, notwithstanding incomplete or limited, may include thoughts about the ethical and social responsibilities entailed to the
	application of their professional capabilities and judgements
B5	CB5 - Students will apprehend the learning skills enabling them to study in a style that will be selfdriven and autonomous to a large extent
В6	CG1 - To have skills for analysis and synthesis. To have ability to project, model, calculate and design solutions in the area of information
	network or system security in every application area
B10	CG5 - Students will have ability to apply theoretical knowledge to practical situations, within the scope of infrastructures, equipment or
	specific application domains, and designed for precise operating requirements
C4	CT4 - Ability to ponder the importance of information security in the economic progress of society

Learning outcomes			
Learning outcomes	Study programme		ımme
	con	npetenc	es/
		results	
Manage proactivity to prevent and mitigate possible security incidents		BJ2	CJ4
	AJ14	BJ3	
	AJ17	BJ5	
		BJ6	
		BJ10	

Obtain the necessary knowledge about tools that can facilitate the management of incidents and recoveries	AJ3	BJ2	
	AJ14	BJ3	
	AJ17	BJ5	
		BJ6	
		BJ10	
Justify proposed plans for recovery and resilience	AJ3	BJ2	CJ4
	AJ9	BJ3	
	AJ14	BJ5	
	AJ15	BJ6	
		BJ10	
Identify and classify possible incidents and define the channels for their management and resolution	AJ3	BJ2	CJ4
	AJ9	BJ3	
	AJ17	BJ5	
		BJ6	
		BJ10	

Contents		
Topic Sub-topic		
1. Fundamentals: resilience and the value of information	1.1. Introduction	
	1.2. Fundamentals	
2. Incident detection and response management	2.1. Detection and notification of incidents	
	2.2. Response management, containment and mitigation of impact	
3. Standards: continuity and recovery plans	3.1. ISO / IEC standards	
	3.2. Guidelines for incident management	
4. Disaster recovery	4.1. Mechanisms	
	4.2. Phases of recovery	
	4.3. Protection of critical infrastructures	
5. Legislation	5.1. Specific legislation: National Security Scheme, National Cybersecurity Strategy	

	Plannin	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Laboratory practice	A9 A14 A17 B2 B3	10	25	35
	B10			
Guest lecture / keynote speech	A3 A14 A15 A17 B5	10	20	30
	B6 C4			
Supervised projects	A3 A9 A14 A15 A17	1	9	10
	B2 B3 B5 B6 B10 C4			
Objective test	A3 A9 A14 A15 A17	1.5	0	1.5
	B2 B3 B5 B6 B10 C4			
Personalized attention		0		0
(*)The information in the planning table is fo	r guidance only and does not	take into account the l	neterogeneity of the stud	dents.

	Methodologies
Methodologies	Description
Laboratory practice	Practical computer sessions associated with incident scenarios and tools for cyberincidents. The objective is to put into
	practice the knowledge of the master sessions promoting autonomous learning.
Guest lecture /	Guest lecture. Presentations of the theoretical knowledge of the subjects of the matter promoting the interaction with the
keynote speech	students. NOTE: it will be possible to use any of these sessions to carry out a company workshop or invite a collaborating
	person of recognised competence.

Supervised projects	Work to be developed by the student on any of the subjects of the matter proposed by the student or professor. This work will
	have a follow-up by the faculty and the student will make a brief presentation of the same.
Objective test	Written test to assess the knowledge acquired. Although it will focus on the material of expository teaching, it can incorporate
	some issues related to the practical sessions.

	Personalized attention
Methodologies	Description
Laboratory practice	The personalized attention is focused on supporting the student in the understanding of the different techniques through the
Supervised projects	support in the tutorials and the resolution of doubts that may arise in the lectures.
	Help will also be provided to respond to doubts that may arise during the realization of the practices or learning through the supervised works for a better use and understanding of the knowledge acquired in class.

		Assessment	
Methodologies Competencies /		Description	Qualification
	Results		
Laboratory practice	A9 A14 A17 B2 B3	Practical computer sessions associated with incident scenarios and management of	30
	B10	tools for cyber incidents. The objective is to put the knowledge from the master	
		sessions into practice, promoting autonomous learning. The evaluation will be	
		continuous throughout the sessions. NOTE: it will be possible to use some of the	
		face-to-face sessions to carry out a workshop of a collaborating entity.	
Supervised projects	A3 A9 A14 A15 A17	Work to be carried out by the student on any of the subjects of the subject at the	20
	B2 B3 B5 B6 B10 C4	proposal of the student or the teacher. This work will be followed up by the teaching	
		staff and the student will make a brief face-to-face defense of it.	
Objective test	A3 A9 A14 A15 A17	Written test to assess the knowledge acquired. Although it will focus on the expository	50
	B2 B3 B5 B6 B10 C4	teaching material, it will be able to incorporate some questions related to the practical	
		sessions.	

Assessment comments

In order to pass the subject, it will be necessary to obtain a minimum of 5 out of 10 in both the objective test and the practical work. Otherwise, the maximum note that can be obtained will be 4.5. The grade obtained in the continuous assessment of practices and supervised project will be maintained throughout the academic year.STUDENTS WHO DID NOT PARTICIPATE IN THE CONTINUOUS EVALUATION OF PRACTICES AND SUPERVISED PROJECTS:i) When the student presents himself to the first opportunity call, his grade will be 0 in both methodologies.ii) When the student presents himself to the second opportunity call or extraordinary call, without having participated in the continuous evaluation process, using these methodologies, he / she will be able to individually perform the practices with the material available in the virtual teaching platform and through the request of tutorials with the professors of the subject. Also individually, the student will specify with the professor the date of the exam of practices that, in this case, will be essential.STUDENTS WHO DID NOT PARTICIPATE IN THE OBJECTIVE PROOF AT THE FIRST OPPORTUNITY: Whether or not they have participated in the process of continuous assessment of practices and supervised project, their grade will be "No Presented".PLAGIARISM: Plagiarism is regarded as serious dishonest behavior. If any form of plagiarism is detected in any of the exams or provided material, the final grade will be FAIL (0), and the incident will be reported to the corresponding academic authorities for prosecution.

Sources of information

Basic	- ISO/IEC 27035:2016 - Information technology - Security techniques - Information security incident management.
	http://www.iso27001security.com/html/27035.html- Gestión de incidentes de seguridad informática, Álvaro Gómez
	Vieites, 978-84-92650-77-4, RA-MA Editorial, 2014- Gestión de incidentes de seguridad informática (MF0488_3),
	Ester Chicano Tejada, 978-84-16351-70-1, IC Editorial, 2014- Cómo implantar un SGSI según UNE-EN ISO/IEC
	27001 y su aplicación en el Esquema Nacional de Seguridad, Luis Gómez Fernández y Pedro Pablo Fernández
	Rivero, 978-84-81439-63-2 AENOR, 2018- Sistema de Información para gestionar un SGSI basado en ISO
	27001:2013: Cómo tener trazabilidad de un Sistema de Gestión de Seguridad de la información a través de una
	herramienta Informática, Lorena Mahecha Guzmán y Gabriel Coello F., 978-620-2-25000-9, EAE, 2017- Implementing
	the ISO/IEC 27001 ISMS Standard 2016 (Information Security), Edward Humphreys, 978-1-60807-930-8, Artech
	House Publishers, 2016- Infosec Management Fundamentals, Henry Dalziel, 978-0-12-804187-1, Syngress, 2015-
	Information Security Incident Management: A Methodology, Neil Hare-Brown, 978-0-580-50720-5, BSI Standards,
	2007
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 student is recommended, for an optimal use of the subject, to actively attend classes as well as participate in the different activities and the use of personalized attention for the resolution of doubts or questions that may arise.

(*)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.