

		Teaching Guide		
	Identifying Data 2023/24			2023/24
Subject (*)	External Internship		Code	614530016
Study programme	Máster Universitario en Cibersegu	ridade		
		Descriptors		
Cycle	Period	Year	Туре	Credits
Official Master's Degre	ee 1st four-month period	Second	Obligatory	15
Language	SpanishGalician			
Teaching method	Face-to-face			
Prerequisites				
Department	Ciencias da Computación e Tecno	oloxías da InformaciónEnxe	eñaría de Computadores	
Coordinador		E-m	nail	
Lecturers		E-m	nail	
Web	www.munics.es			
General description	The master's degree mission is to	train highly qualified profes	ssionals in all technical, orga	anizational, operational and
	forensic processes related to digit	al security. All teachers bel	ong to the areas of Telemat	ics Engineering, Signal Theory and
	Communications, Computer Scier	nce and Artificial Intelligenc	e, Systems Engineering and	d Criminal Law from two
	universities, and are complemented	ed by the contribution of pro	ominent professionals from	companies in this sector in Galicia
	and their commitment to support s	tudents' internships.		

	Study programme competences / results
Code	Study programme competences / results
A1	CE1 - To know, to understand and to apply the tools of cryptography and cryptanalysis, the tools of integrity, digital identity and the
	protocols for secure communications
A2	CE2 - Deep knowledge of cyberattack and cyberdefense techniques
A3	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
A4	CE4 - To understand and to apply the methods and tools of cybersecurity to protect data and computers, communication networks,
	databases, computer programs and information services
A5	CE5 - To design, deploy and operate a security management information system based on a referenced methodology
A6	CE6 - To develop and apply forensic research techniques for analysing incidents or cybersecurity threats
A7	CE7 - To demonstrate ability for doing the security audit of systems, equipment, the risk analysis related to security weaknesses, and for
	developing de procedures for certification of secure systems
A8	CE8 - Skills for conceive, design, deploy and operate cybersecurity systems
A9	CE9 - Ability to write clear, concise and motivated projects and work plans in the field of cybersecurity
A10	CE10 - Knowledge of the mathematical foundations of cryptography. Ability to understand their evolution and future developments
A11	CE11 - Ability to collect and interpret relevant data the field of computer and communications security
A12	CE12 - Knowledge of the role of cybersecurity in the design of new industrial processes, as well as of the singularities and restrictions to
	be addressed in order to build a secure industrial infrastructure
A13	CE13 - Ability for analysing, detecting and eliminating software vulnerabilities and malware capable to exploit those in systems or network
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
A16	CE16 - Ability for envisioning and driving the business operations in areas related to cybersecurity, with feasible monetization
A17	CE17 - Ability to plan a time schedule containing the detection periods of incidents or disasters, and their recovery
A18	CE18 - Ability to correctly interpret the information sources in the discipline of criminal law (laws, doctrine, jurisprudence) both at the
	national and international levels
A19	CE19 - To learn how to identify the best professional profiles for an institution as a functions of its features and activity sector
A20	CE20 - Knowledge about the firms specialized in cybersecurity in the region



context (or in multi-discipline contexts) related to their field of specialization B3 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 B4 CB4 - Students will learn to communicate their conclusions and the hypotheses and ultimate reasoning in their support to expert and nonexpert audiences in a clear and unambiguous way 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 B6 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 B7 CG2 - Ability for problem-solving. Ability to solve, using the acquired knowledge, specific problems in the technical field of information, network or system security system, any system for network security or system for secure communication B8 CG3 - Capacity for critical thinking and critical evaluation of any system and management systems with ethical and responsible criteria, based on deontological behaviour, in the field of information, network or communications security B10 CG6 - Students will have ability to apply theoretical knowledge to practical situations, within the scope of infrastructures, equipment or specific application domains, and d	B2	CB2 - Students will be able to apply their knowledge and their problem-solving ability in new or less familiar situations, within a broader
 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 CB4 - Students will learn to communicate their conclusions and the hypotheses and ultimate reasoning in their support to expert and nonexpert audiences in a clear and unambiguous way CB5 - Students will apprehend the learning skills enabling them to study in a style that will be selfdriven and autonomous to a large extent 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 CG2 - Ability for problem-solving. Ability to solve, using the acquired knowledge, specific problems in the technical field of information, network or system security CG3 - Capacity for critical thinking and critical evaluation of any system designed for protecting information, any information security system, any system for network security or system for secure communication CG4 - Ethical commitment. Ability to design and deploy engineering systems and management systems with ethical and responsible criteria, based on deontological behaviour, in the field of information, network or communications security 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 CG6 - Ability to do research. Ability to innovate and contribute to the advance of the principles, the techniques and the processes within their professional domain, designing new algorithms, devices, techniques or models which are useful for the protection public, private or commercial of digital assets CG6 - CT2 - Ability to orgen encodimientos que a		context (or in multi-discipline contexts) related to their field of specialization
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	C3	CT3 - Ability to include sustainability principles and environmental concerns in the professional practice. To integrate into projects the
C4 CT4 - Ability to ponder the importance of information security in the economic progress of society		principle of efficient, responsible and equitable use of resources
	C4	CT4 - Ability to ponder the importance of information security in the economic progress of society
C5 CT5 - Ability for oral and written communication in English	C5	CT5 - Ability for oral and written communication in English

Learning outcomes	
Learning outcomes	Study programme
	competences /
	results



Experience in the performance of the profession and its most common functions in a real business environment.	AJ1	BJ2	CJ1
	AJ2	BJ3	CJ2
	AJ3	BJ4	CJ3
	AJ4	BJ5	CJ4
	AJ5	BJ6	CJ5
	AJ6	BJ7	
	AJ7	BJ8	
	AJ8	BJ9	
	AJ9	BJ10	
	AJ10	BJ11	
	AJ11	BJ12	
	AJ12		
	AJ13		
	AJ14		
	AJ15		
	AJ16		
	AJ17		
	AJ18		
	AJ19		
	AJ20		

Contents		
Торіс	Sub-topic	
General content	To be defined by both the tutor in the company and the academic tutor.	
Integration in the company and in his surroundings of work	During his internship the student will be integrated into the company organization and	
	collaborate with the members of their work team.	
Development of his professional activity	The student will carry out the assigned tasks in accordance with his knowledges and	
	competences.	

	Planning	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Clinical practice placement	A1 A2 A3 A4 A5 A6	375	0	375
	A7 A8 A9 A10 A11			
	A12 A13 A14 A15			
	A16 A17 A18 A19			
	A20 B12 B2 B3 B4 B5			
	B6 B7 B8 B9 B10 B11			
	C1 C2 C3 C4 C5			
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	lents.

Methodologies		
Methodologies	Description	
Clinical practice	Prácticas externas: Estancia en empresas desarrollando funcións propias dun Master en Ciberseguridad	
placement		

 Personalized attention

 Methodologies
 Description



Clinical practice	The students will have a tutor in the company and a tutor in the University, to whom the students will be able to consult doubts
placement	about the activity to develop and to whom they will have to present the results of their work.

		Assessment	
Methodologies	Competencies /	Description	Qualification
	Results		
Clinical practice	A1 A2 A3 A4 A5 A6	The evaluation will be carried out by the tutor in the University based on the memory	100
placement	A7 A8 A9 A10 A11	of the work done in the company and the evaluation of the student by the tutor in the	
	A12 A13 A14 A15	company.	
	A16 A17 A18 A19		
	A20 B12 B2 B3 B4 B5		
	B6 B7 B8 B9 B10 B11		
	C1 C2 C3 C4 C5		

Assessment comments

 Sources of information

 Basic

 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.