

		Teaching Guide		
	Identifyin	g Data		2023/24
Subject (*)	Final Year Dissertation		Code	614530017
Study programme	Máster Universitario en Ciberseguridade			
		Descriptors		
Cycle	Period	Year	Туре	Credits
Official Master's Degre	e 2nd four-month period	Second	Obligatory	15
Language	SpanishGalician			· · ·
Teaching method	Hybrid			
Prerequisites				
Department	Ciencias da Computación e Tecnoloxías da InformaciónEnxeñaría de Computadores			
Coordinador		E-mail		
Lecturers	E-mail			
Web	moovi.uvigo.gal			
General description	The Master's Thesis (TFM) is an a	academic, personal and origina	al work that must be pres	ented in public and is evaluated by
	a court.			
	It is a project in which the student	has to show the knowledge ad	cquired during the master	. It must end with the writing in
	writing of a set of explanations, the	eories, ideas, reasoning, desc	ription of developments o	r designs, etc. on a theme chosen
	by the student, and supervised by	a tutor or tutors, who will ensu	ure their progression and	the level of quality. However, the
	Master Thesis is the sole respons	ibility of the applicant for the m	naster's degree.	

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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
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
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
B8	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
B9	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
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
B11	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
B12	CB6 - Poseer y comprender conocimientos que aporten una base u oportunidad de ser originales en el desarrollo y/o aplicación de ideas,
	a menudo en un contexto de investigación
C1	CT1 - Ability to apprehend the meaning and implications of the gender perspective in the different areas of knowledge and in the
	professional exercise, with the aim of attaining a fairer and more egalitarian society
C2	CT2 - Ability for oral and written communication in Galician language
C3	CT3 - Ability to include sustainability principles and environmental concerns in the professional practice. To integrate into projects the
	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

Learning outcomes			
Learning outcomes	Study	progra	mme
	com	petenc	es /
	r	results	
Capacity for planning and executing an original work in the cybersecurity field.		BJ2	
		BJ3	
		BJ4	
		BJ5	
		BJ12	
Capacity for finding relevant information in the cybersecurity field, for its study and analysis, and the retrieval of relevant		BJ6	CJ1
results.		BJ8	CJ3
		BJ10	CJ4
		BJ11	CJ5



Resolution of original problems with real implications in the cybersecurity field.	AJ1	BJ2	
	AJ2	BJ3	
	AJ3	BJ6	
	AJ4	BJ7	
	AJ5	BJ8	
	AJ6	BJ9	
	AJ7	BJ10	
	AJ8	BJ11	
	AJ9	BJ12	
	AJ10		
	AJ11		
	AJ12		
	AJ13		
	AJ14		
	AJ15		
	AJ16		
	AJ17		
	AJ18		
	AJ19		
	AJ20		
Elaboration of a project report that summarizes the state of the art, the analyzed problematic, the objectives, the completed		BJ3	CJ2
work, the conclusions and the future lines.		BJ4	
		BJ6	
		BJ7	
		BJ11	
		BJ12	
Presentation of a summary of the main results in front of a public jury.		BJ4	CJ1
			CJ4

Contents				
Торіс	Sub-topic			
The Master's Thesis is an academic, personal and original	Polo tanto, o contido de cada traballo debe ser único, aínda que deberá mostrar a			
work in which the student has to show the knowledge	capacidade do alumno para analizar un problema dunha forma metódica, propoñer			
obtained during the master.	solucións, analizar os resultados obtidos e expoñelos de forma clara.			
Therefore, the content of each work must be unique. Nevertheless, it must show the ability of the student to analyze a problem in a systematic way, propose solutions, analyze the results obtained and expose them clearly.				

Planning					
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours	
	Results	(in-person & virtual)	work hours		
Oral presentation	B4 C5	1	24	25	



Supervised projects	A1 A2 A3 A4 A5 A6	0	350	350
	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 for guidance only and does not take into account the heterogeneity of the students.

	Methodologies				
Methodologies	Description				
Oral presentation	Presentation of the academic work				
Supervised projects	The student will complete an academic, personal and original work in which he will have to show the knowledge obtained				
	during the master. It must conclude with a set of written explanations, theories, ideas, reasoning, description of developments				
	or designs, etc. on a subject chosen by the student, and supervised by a tutor or tutors, who will ensure the correct				
	progression and the quality level.				

Personalized attention				
Methodologies	Description			
Supervised projects	During the Master's Thesis there will be periodic meetings between the student and the tutors to define, orient, supervise and			
Oral presentation	delimit the work, as well as to orient the writing of the dissertation.			
	The directors of the work will guide the student in the preparation of the presentation of the work at the end of the master's degree.			

Assessment				
Methodologies	Competencies /	Description	Qualification	
	Results			
Supervised projects	A1 A2 A3 A4 A5 A6	The work will be evaluated by a panel. The student will provide a written dissertation,	85	
	A7 A8 A9 A10 A11	and will make a public presentation. The panel will use a rubric that will be publicly		
	A12 A13 A14 A15	available.		
	A16 A17 A18 A19			
	A20 B12 B2 B3 B4 B5			
	B6 B7 B8 B9 B10 B11			
	C1 C2 C3 C4 C5			
Oral presentation	B4 C5	Assesment specified in the rubric	15	

Assessment comments

 Sources of information

 Basic

 Complementary

Recommendations	
Subjects that it is recommended to have taken before	ore
Subjects that are recommended to be taken simultane	ously



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.