Universida_{de}Vigo

Subject Guide 2023 / 2024

IDENTIFYIN	· • = · · · · · ·					
Master The	·					
Subject	Master Thesis					
Code	V05M145V01401					
Study	Máster					
programme	Universitario en					
	Ingeniería de					
	Telecomunicación					
Descriptors	ECTS Credits	Choose	Year	Quadmester		
	30	Mandatory	2nd	<u>2nd</u>		
Teaching	English					
language		,	,			
Department						
Coordinator	Caeiro Rodríguez, Manuel					
Lecturers	Caeiro Rodríguez, Manuel					
E-mail	mcaeiro@det.uvigo.es					
Web	http://moovi.uvigo.gal					
General	The Master Thesis (TFM) forms part, like module, of the plan of studies of the title of Master in Engineering of					
description	J 1					
	educational permission, and has to allow him show of form integrated the acquisition of the formative contents					
	and the competitions associated to the title. His definition and contents are explained of form more extensive					
	in the rule for the realisation of the TFM, whose content can consult in the web of the School of					
	Telecommunication Engineering.					

Training and Learning Results

Code

- A1 CB1 Knowledge and understanding needed to provide a basis or opportunity for being original in developing and/or applying ideas, often within a research context.
- B1 CG1 Ability to project, calculate and design products, processes and facilities in telecommunication engineering areas.
- B5 CG5 Capacity for development, strategic planning, direction, coordination and technical and financial management of projects in all fields of Telecommunication Engineering following quality and environmental criteria.
- B8 CG8 Ability to apply acquired knowledge and to solve problems in new or unfamiliar environments within broader and multidiscipline contexts, being able to integrate knowledge.
- B11 CG11 Ability to communicate (oral and written) conclusions, and the knowledge and reasons supporting them, to specialists and non-specialists in a clear and unambiguous way.
- B12 CG12 Skills for lifelong, self-directed and autonomous learning.
- C17 CE17/TFM Embodiment, presentation and defense, once all credits of the curriculum are passed, of an original exercise performed individually in front of a university jury, consisting of a comprehensive project of Telecommunication Engineering with professional nature, in which skills acquired in the teachings are synthesized.

Expected results from this subject			
Expected results from this subject			
	Learning Results		
Research, classification and structuring of information on some topic relevant to Telecommunications	A1		
engineering.	B8		
	B12		
Dissertation containing the fundamentals, the solution and an analysis of results about the problem	B1		
addressed. It should include a review of the state of the art, an explanation of the methodology or	B8		
approach, and a discussion of results.	B11		
	C17		
Design of prototypes, computer programs, circuits, procedures, algorithms, designs, methods, etc,	A1		
complying to specifications	B1		
	B5		
	B8		
	B12		

Contents

Topic

The contents of the Master's Thesis are

The subject of each work is specific, given the individual character of the established in the individual proposals offered by work.

the advisors, according to the rules issued by the

Academic Commission of the Master Programme.

Planning							
	Class hours	Hours outside the classroom	Total hours				
Previous studies	0	60	60				
Case studies	0	20	20				
Project based learning	0	630	630				
Problem solving	0	30	30				

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Previous studies	Research, reading and work of documentation, proposals of resolution of problems and/or exercises that will realise in the classroom or the laboratory of autonomous form by the students.
Case studies	It carries out a critical analysis of similar problems to the posed in the thesis, with the goal of extracting ideas, analogies, methods or partial results that help in the resolution of the problem posed in the thesis.
Project based learning	The student, individually, solves a scientific problem, originally and independently, within the thematic area of his/her interest, and is able to write a dissertation with the hypotheses, the solution and the conclusions of his work.
Problem solving	The student analyzes the possible solutions to a scientific problem proposed for the thesis, and elaborates a synthesis solution (analytical, meteorological, experimental or combined) that allow him to fulfill the stated goals.

Personalized assistance Methodologies Description Project based learning Each student will meet his/her advisors to receive guidance, orientation or academic assistance on the objectives, the methodology, the analysis of results and the presentation of the thesis. The TFM coordinator will establish tutoring hours at the beginning of the term. These hours could be checked at the subject web page https://moovi.uvigo.gal/.

Assessme	ent	_				
	Description	Qualificatio	n -	Trainir	ng and	
			Le	Learning Results		
Project based learning	The assessment is done after an oral presentation and defence in front of an examining committee.	100	A1	B1 B5 B8	C17	
-	In the evaluation, the Committee might take into account the opinions or the report issued by the advisor, as well as questions like the quality of the presentation, the review of the state of the art, the quality of the technical proposal, the novelty and importance of the results, the capacity of initiative of the student, etc.			B11 B12		
	System of qualifications: it will express by means of numerical final qualification of 0 to 10 according to the valid legislation.	ı				

Other comments on the Evaluation

So	urc	es	of	info	rmat	ion
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Basic Bibliography

Complementary Bibliography

Recommendations