Universida_{de}Vigo

Subject Guide 2020 / 2021

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IDENTIFYI						
Master The						
Subject	Master Thesis					
Code	V05M145V01401					
Study	Telecommunication					
	Engineering					
Descriptors	ECTS Credits	Choose	Year	Quadmester		
	30	Mandatory	2nd	2nd		
Teaching	Spanish					
language	English					
Department						
Coordinator	Fernández Veiga, Manuel					
Lecturers	Fernández Veiga, Manuel					
E-mail	mveiga@det.uvigo.es					
Web	http://faiticuvigo.es					
General	The Master Thesis (TFM) forms part, like module, of t					
description	Telecommunication. It is an original and personal wo					
	educational permission, and has to allow him show of					
	and the competitions associated to the title. His defin					
	the rule for the realisation of the TFM, whose content	can consult in the	web of the Scho	ool of		
	Telecommunication Engineering.					
Competen	cies					
Code						
A1 CB1 Kr	nowledge and understanding needed to provide a basi	s or opportunity for	· being original i	n developing and/or		
applyir	ng 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.

Learning outcomes

Expected results from this subject	Training and	
	Learning Results	
Research, classification and structuring of information on some topic relevant to Telecommunications		
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.		
	C17	
Design of prototypes, computer programs, circuits, procedures, algorithms, designs, methods, etc,		
complying to specifications	B1	
	B5	
	B8	
	B12	

Contents

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, which is published in the website of the School of

Telecommunications Engineering

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		

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.

Assessment				
	Description	Qualification	Trainir Learning	ng and Results
Project based learning	The assessment is done after an oral presentation and defence in front of an examining committee.	100 A	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.	I		

Other comments on the Evaluation

All the information related with the Master's Thesis can be accessed on the web of the School of Engineering of Telecommunication. Students and professors can also see individual information about the Master's Thesis in their online administrative office.

ources of information	
asic Bibliography	
omplementary Bibliography	

Recommendations

Contingency plan

Description

In the event that the teaching activities have to be suspended or restricted due to a public health situation, all the activities spanned by the Master's thesis will be carried out online through the tools enabled by the University of Vigo. Eventually, the public defense of the thesis will take place online, too. The laboratory duties will be replaced by other equivalent activities, agreed between advisors and their students, which guarantee the fulfillment of the competences and can be executed online.