

		Teachi	ng Guide			
	Identifyir	ng Data			2023/24	
Subject (*)	Master's Thesis Code			614973111		
Study programme	Mestrado Universitario en Computación de Altas Prestacións / High Performance Computing (Mod. Virtual)					
	Descriptors					
Cycle	Period	Y	ear	Туре	Credits	
Official Master's Degre	e 2nd four-month period	F	irst	Obligatory	15	
Language	SpanishGalicianEnglish				·	
Teaching method	Non-attendance					
Prerequisites						
Department	Enxeñaría de Computadores					
Coordinador			E-mail			
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General description	The objective of the TFM is the analysis, design, implementation and validation					
	of a project, carried out individually, related to High Performance Computing and in which some of the competences			some of the competences		
	acquired are emphasized. It can be developed in a company or entity with proven experience in R&D projects, being			nce in R&D projects, being		
	co-supervised by a professional i	in the field. In a	any case, the proj	ect must integrate innova	tion components that go beyond	
	the mere parallelization of an application. The TFM must promote the contribution of added value by the student in					
	innovative projects, and its direct relationship with the labor market or with some aspect of research.					
	The objective of the Final Master's Project (TFM) is to introduce the student to a research or development topic with			or development topic with		
	concrete and achievable objective	es in a short sp	pace of time.			

	Study programme competences
Code	Study programme competences
A8	CE8 - Be able to apply the acquired knowledge, capabilities and aptitudes to the profesional environment, planning, managing and
	evaluating project in the high performance computing field
A9	CE9 - Be able to state, model and solve problems that require high performance computing techniques
B1	CB6 - Possess and understand the knowledge that give a baseline or opportunity to be original in the development and/or application of
	ideas, often in a research environment
B2	CB7 - The students have to know how to apply the acquired knowledge and their capacity to solve problems in new or hardly explored
	environment inside wider contexts (or multidiscipinary) related to its area of development
В3	CB8 - The students have to be able to integrate knowledge and face the complexity to make judgments from information, despite being
	partial and limited, includes reflexions about the social and ethical responsabilities linked to the application of their judgements and
	knowledge

B4	CB9 - The students have to be able to communicate their conclusions, their knowledge and the reasons that hold them to specialized and
	non specialized audience in a clear and unambiguous manner
B5	CB10 - The students have to possess learning skills that allows them to continue to study in a mainly self-driven or autonomous manner
В6	CG1 - Be able to search and select useful information to solve complex problems, using the bibliographic sources of the field
В7	CG2 - Elaborate adqueately and originally written essays or motivated reasonings, write planings, work projects, scientific papers and
	formulate reasonable hypothesis
B8	CG3 - Be able to maintain and extend properly funded theoretical hypothesis to allow the introduction and exploitation of novel and
	advanced technologies in the field
В9	CG4 - Be able to plan and do research, development and innovation tasks in high performance computing related environments
C1	CT1 - Use the basic technologies of the information and computing technology field required for the professional development and the
	long-life learning
C3	CT3 - Be able to manage time and resources: develop plannings, priorize activities, identify criticism, establish and meet deadlines
C4	CT4 - Value the importance of research, innovation and the technological development in the socioeconomical and cultural advance of the
	society
C5	CT5 - Understand the importance of the enterpeneurship culture and know the resources available for entrepeneurs

Learning outcomes			
Learning outcomes	Study programme		
	со	mpeten	ces
Integrate the knowledge acquired to apply them to a specific research or development work.	AJ8	BJ1	CJ1
	AJ9	BJ2	CJ3
		BJ3	
Present and defend the results of the work in front of a specialized audience.		BJ4	CJ4
		BJ5	CJ5
		BJ6	
		BJ7	
		BJ8	
		BJ9	

	Contents
Topic	Sub-topic
Analysis, design, implementation and validation of a project	
related to High Performance Computing.	
The work will consist in the study of a research and/or	
development subject in the field of HPC with concrete	
objectives achievable in a short space of time.	
For its development two options will be available:	
a) The realization linked to a practice developed in the period	
of professional practices in institutions or companies.	
b) The independent realization of these practices, which	
typically allow the student to be introduced in a practical way	
in a research work in any of the lines of the groups to which	
the teaching team belongs.	
In any case, at the end of the work the student must present a	
final report and defend the work before a specialized	
commission.	

	Planning	J		
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Supervised projects	A8 A9 B1 B2 B3 B4	0	300	300
	B5 B6 B7 B8 B9 C1			
	C3 C4 C5			
Personalized attention		75	0	75
(*)The information in the planning table is for	r quidance only and does not	take into account the	heterogeneity of the stud	dents

Methodologies			
Methodologies	Methodologies Description		
Supervised projects	Personal work of the student: consultation of bibliography, autonomous study, development of programmed activities,		
preparation of presentations and works			

Personalized attention			
Methodologies	Methodologies Description		
Supervised projects	Follow-up office hours with project tutors to make contact with the TFM, planning, advice, practical work supervised in the		
laboratory, review of documentation, memory and presentation			

Assessment			
Methodologies	Competencies	Description	Qualification
Supervised projects	A8 A9 B1 B2 B3 B4	Continuous monitoring by the tutors of the work and approval in the memory of the	100
	B5 B6 B7 B8 B9 C1	project.	
	C3 C4 C5	Evaluation of the work by a commission made up of specialist teachers from the	
		area.	
		The qualification system will be the one indicated for the master's degree in the	
		regulations.	

Assessment comments	

	Sources of information		
Basic Dadas as peculiaridades desta materia, resulta imposible especificar unha bibliografía xeral válida para todos os TFM			
	que se van a desenvolver. A bibliografía específica de cada proxecto estará especificada en cada un das diferentes		
	propostas de proxectos aprobadas pola Comisión Académica do máster.		
Complementary			



-Segundo

se recolle nas distintas normativas de aplicación para a docencia universitaria deberase incorporar a perspectiva de xénero nesta materia (usarase linguaxe non sexista, utilizarase bibliografía de autores/as de ambos sexos, propiciarase a intervención en clase de alumnos e alumnas...) -Traballarase para identificar e modificar prexuízos e actitudes sexistas e influirase na contorna para modificalos e fomentar valores de respecto e

(*)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.

igualdade. & nbsp;-Deberanse detectar situacións de discriminación por razón de xénero e proporanse accións e medidas para corrixilas.