Universida_{de}Vigo

Subject Guide 2023 / 2024

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IDENTIFYIN						
Master The	sis					
Subject	Master Thesis					
Code	V04M192V01402		'			
Study	Máster				-	
programme	Universitario en					
	Ingeniería					
	Biomédica					
Descriptors	ECTS Credits		Choose	Year	Quadmester	
	24		Mandatory	2nd	2nd	
Teaching					-	
language						
Department						
Coordinator	Izquierdo Belmonte, Pablo					
	Eguizábal Gándara, Luis Eduardo					
	Pardo Froján, Juan Enrique					
	Comesaña Piñeiro, Rafael					
Lecturers	Comesaña Piñeiro, Rafael					
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General	Master Thesis (TFM) in Companies, Hosp	itals and Re	esearch Centers of t	he biomedica	al field	
description						

Training and Learning Results

Code

- A1 Knowledge and understanding that provide a basis or opportunity for originality in developing and / or applying ideas, often in a research context.
- A2 That the students can apply their knowledge and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study.
- A3 That students are able to integrate knowledge and handle complexity and formulate judgments based on information that was incomplete or limited, include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgments.
- A4 Students can communicate their conclusions, and the knowledge and rationale underpinning these, to specialist and non-specialist audiences clearly and unambiguously.
- Ability to design, develop, implement, manage and improve products and processes in the different areas of the biomedical engineering, by means of appropriate analytical, computational or experimental techniques.
- B2 Ability to direct activities related to the CG1 competence
- B4 Ability to solve problems with initiative, decision making, creativity, critical reasoning and to communicate and transmit knowledge, abilities and skills in the field of biomedical engineering.
- B9 Ability to organize and plan within the sphere of a company, and other institutions and organizations.
- B11 To recognize ethical and professional responsibilities in biomedical engineering situations and to make informed judgements, which must consider the impact of biomedical engineering solutions in global, economic, environmental and social contexts.
- B12 To operate effectively in a multidisciplinary team whose members, together, exercise leadership, create a collaborative and inclusive environment, set goals, plan tasks and meet goals.
- C14 Ability to apply biomedical engineering design to produce solutions that meet specific needs taking into account the public health, safety and welfare, as well as global, cultural, social, environmental and economic factors

- D1 Ability to understand the meaning and application of the gender perspective in the different fields of knowledge and in professional practice with the aim of achieving a more just and equal society.
- D2 Ability to communicate orally and in writing in the Galician language.
- D3 Sustainability and environmental commitment. Equitable, responsible and efficient use of resources.

Expected results from this subject	
Expected results from this subject	Training and Learning Results
Research, classification and structuring of information on any topic inside the biomedical engineering	A1
field.	B2
	B9
	B11
Preparation of a memory in which they collect, among others, the following appearances: antecedents,	A3
problematic or state of the	A4
art, aims, phases of the project, development of the project, conclusions and future lines.	B2
	B9
	D2
Design of equipment, prototypes, programs of simulation, etc, according to specifications.	A2
	B1
	B2
	B4
	B9
	B11
	B12
	C14
	D1
	D2
	D3

Contents

Topic

Planning						
	Class hours	Hours outside the classroom	Total hours			
Mentored work	600	0	600			

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

	Description
Mentored work	Research, ordination and structuring of information on any thematic inside the biomedica engineering field.
	Preparation of a report in which they collect, among others, the following appearances: antecedents, problematic or state of the
	art, aims, phases of the project, development of the project, conclusions and future lines. Design of teams, prototypes, programs of simulation, etc, according to specifications.
	Classical projects of engineering
	technical Studies, organisational and economic
	theoretical Works-experimental

Personalized assistance

Methodologies Description

Mentored work The tutor in the centre and the academic tutor will attend personally the doubts and queries so much of theoretical character like practical.

Assessment					
Description	Qualification Training and Learning Results				
Mentored workThe student will have to make a Master's Thesis report (project)	100	A1	B1	C14	D1
and a public presentation of the same (presentation).		A2	B2		D2
		А3	B4		D3
		A4	В9		
			B11		
			B12		

Other comments on the Evaluation

Students must be enrolled in all the program subjects necessary for the acquisition of the title

Sources of information

Basic Bibliography Complementary Bibliography

Recommendations