Universida_{de}Vigo

Subject Guide 2024 / 2025

					abject Gaiae 2021 / 2025
	ING DATA				
	materials				
Subject	Quantum materials				
Code	V05M198V01205				
Study	(*)Máster Universitario en	,			
programm	e Ciencia e Tecnoloxías de				
	Información Cuántica				
Descriptor	s ECTS Credits	,	Choose	Year	Quadmester
•	3	,	Optional	1st	2nd
Teaching					
language					
Departme	nt				
Coordinate	or				
Lecturers	Fernández Veiga, Manuel				
E-mail					
Web	http://www.usc.gal/gl/estudos/masteres	s/ciencias/master	-universitario-ciencia-t	ecnoloxias-inf	ormacion-cuantica/20232
	024/materiais-cuanticos-19345-18438-	3-103745			
General					
description	1				

Training and Learning Results

Code

- A4 Know and be able to apply the physical theories inherent to the understanding of systems for quantum information processing, including quantum thermodynamics as well as advanced aspects of magnetism and quantum mechanics.
- A5 Know and understand the nature of the physical platforms for the processing of quantum information in solid state systems: superconducting systems, cryoscience and quantum materials, including or studying two topological states.
- To acquire knowledge about physical systems capable of implementing information processing in quantum degrees of freedom.
- B10 Knowledge about new solid-state quantum materials, their physical and topological properties.
- C1 To analyze and break down a complex concept, examine each part and see how they fit together
- C2 To classify and identify types or groups, showing how each category is different from the others
- C3 To compare and contrast and point out similarities and differences between two or more topics or concepts

Expected results from this subject				
Expected results from this subject	Training and			
	Learning Results			
New	A4			
	A5			
	B6			
	B10			
	C1			
	C2			
	C3			

Contents Topic Planning Class hours Hours outside the Total hours

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

classroom

Methodologies	
Description	

Personalized assistance					
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Assessment					
Description	Qualification	Training and Learning Results			
Other comments o	on the Evaluation				
Sources of inform	ation				
Basic Bibliography					
Complementary B	ibliography				
Recommendations	5				