



## IDENTIFYING DATA

### Science and technology of superconductivity

Subject	Science and technology of superconductivity		
Code	V05M198V01210		
Study programme	(*)Máster Universitario en Ciencia e tecnoloxías de información cuántica		
Descriptors	ECTS Credits	Choose	Year
	3	Optional	1st
Teaching language			
Department			
Coordinator			
Lecturers			
E-mail			
Web	<a href="http://www.usc.gal/gl/estudios/masteres/ciencias/master-universitario-ciencia-tecnoloxias-informacion-cuantica/20232024/ciencia-tecnoloxia-superconducitividade-19346-18439-3-103748">http://www.usc.gal/gl/estudios/masteres/ciencias/master-universitario-ciencia-tecnoloxias-informacion-cuantica/20232024/ciencia-tecnoloxia-superconducitividade-19346-18439-3-103748</a>		
General description			

## 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.
B6	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
	C18
	C18
	C18
	D18
	D18
	D18
	D18
	D18
	D18
	D18

## Contents

Topic
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**Planning**

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Class hours

Hours outside the  
classroom

Total hours

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

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**Methodologies**

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Description

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**Personalized assistance**

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**Assessment**

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Description

Qualification

Training and Learning Results

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**Other comments on the Evaluation**

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**Sources of information**

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**Basic Bibliography****Complementary Bibliography**

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**Recommendations**

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