



## IDENTIFYING DATA

### External practices I

Subject	External practices I			
Code	V05M198V01214			
Study programme	(*)Máster Universitario en Ciencia e tecnoloxías de información cuántica			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	3	Mandatory	1st	2nd
Teaching language				
Department				
Coordinator				
Lecturers				
E-mail				
Web	<a href="http://www.usc.gal/gl/estudos/masteres/ciencias/master-universitario-ciencia-tecnoloxias-informacion-cuantica/20232024/practicas-externas-19347-18440-2-103737">http://www.usc.gal/gl/estudos/masteres/ciencias/master-universitario-ciencia-tecnoloxias-informacion-cuantica/20232024/practicas-externas-19347-18440-2-103737</a>			
General description				

## Training and Learning Results

Code	
A10	Know scenarios of practical application of quantum computing in problems of scientific, technological and financial interest. Identify domains that exhibit quantum advantage. Know the institutions and companies that are actors in quantum computing, acquiring a perspective of the agenda that is reasonable to expect in the coming years.
A13	Know the strategies of quantum cryptography and its feasibility and solvency in the context of the quantum internet, the quantum chain of blocks and secret communications, acquiring a panoramic vision of two actors that will be essential in their deployment.
B14	To have knowledge of sets of problems in which quantum computing at its current stage of development can offer an advantage over classical computing: chemistry, biology, optimization, logistics, finance, etc.
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	A10 A13 B14 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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