## Universida<sub>de</sub>Vigo

Subject Guide 2023 / 2024

IDENTIFY	ING DATA				
	applications of quantum computing				
Subject	Practical applications of quantum computing				
Code	V05M198V01202				
Study	(*)Máster Universitario en				
	e Ciencia e tecnoloxías de información cuántica				
Descriptors	ECTS Credits	Choose	Year	Quadmester	
I	3	Optional	1st	2nd	
Teaching		•			
language					
Departmer	t				
Coordinato	r				
Lecturers					
E-mail					
Web	http://guiadocente.udc.es/guia_docent/index.php?cer _academic=2023_24&any_academic=2023_24	ntre=614&ensenyamen	t=614551&assig	natura=614551010&any	
General description					
uescription					
	and Learning Results				
	the classical computing algorithms and strategies ir s of matrices, etc.	nspired by quantum co	mputing: tensor	networks, product	
A10 Know intere quant	scenarios of practical application of quantum complest. Identify domains that exhibit quantum advantage cum computing, acquiring a perspective of the agency ve knowledge of sets of problems in which quantum	e. Know the institution la that is reasonable to	s and companies o expect in the c	s that are actors in coming years.	
	ntage over classical computing: chemistry, biology, c				
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					
	mpare and contrast and point out similarities and dif				
<b>F</b>	we call the forecase the base of the state				
	results from this subject				
•	esults from this subject			Training and Learning Results	
New				A8	
				A10	
				B14	
				C1	
				C2	
				C3	
				D18	
Contents					
Торіс					
Planning					
	Class hou	classroo		Total hours	
*The inforr	nation in the planning table is for guidance only and	does not take into acc	count the hetero	geneity of the students.	
Methodol	ogies				
	Description				
	Description				

Personalized as	sistance
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Assessment Description

Qualification

Training and Learning Results

Other comments on the Evaluation

Sources of information Basic Bibliography Complementary Bibliography

Recommendations