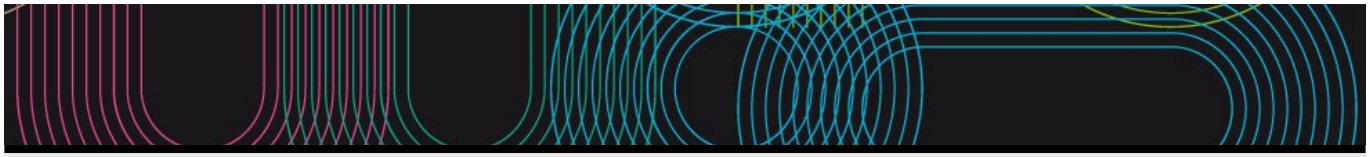
Universidade Vigo

Subject Guide 2023 / 2024



IDENTIFYING DATA				
Metrology and quantum sensors				
Subject	Metrology and quantum sensors			
Code	V05M198V01207			
Study programme	(*)Máster Universitario en Ciencia e tecnoloxías de información cuántica			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	3	Optional	1st	2nd
Teaching language	Galician			
Department				
Coordinator	Paredes Galán, Ángel			
Lecturers	Paredes Galán, Ángel			
E-mail	angel.paredes@uvigo.es			
Web	http://www.usc.gal/gl/estudos/masteres/ciencias/master-universitario-ciencia-tecnoloxias-informacion-cuantica/20232024/metroloxia-sensores-cuanticos-19345-18438-3-103747			
General description				

Training and Learning Results	
Code	
A3	Understanding and knowledge of the fundamentals of Quantum Information Theory, as well as two basic aspects of two four types of quantum technologies: computing, communications, metrology, simulation.
B5	To have knowledge of quantum information theory, universal limitations, and their implications for computing, communications, and metrology.
B7	To have knowledge of quantum optics and the role and properties of light and its manipulation in quantum information processing and communications.
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	A3 B5 B7 C1 C2 C3

Contents
Topic

Planning			
	Class hours	Hours outside the classroom	Total hours

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

Methodologies	
	Description

Personalized assistance

Assessment		
Description	Qualification	Training and Learning Results

Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations