

Provider	Content Subtheme: a) Seminar/Lectures/Workshops b) Symposium c) Soft skills training	Content Topic(s)	Competence Framework	Content Available	Schedule	Notes
22/23 MATERIAL ADD BELOW						
	a)	Quantum Control of Ultracold Atoms	2.1 Atomic physics as basis for quantum technologies (A1), 3.4 Experimental control (A1/A2)	1 hour lecture + 5 hours exercise material	flexible	
	a)	Quantum Games for Inspiration and Education	1.1 Basic concepts (A2), 8.6 Teaching and outreach skills (A1)	1 hour lecture + 5 hours games and exploratory material	flexible	
	a)	A Visual Introduction to Quantum Mechanics	1.1 Basic concepts (A1/A2)	1 hour lecture + 5 hours exercise material	flexible	
	c)	Performing science outreach: skills and methods	8.6 Teaching and outreach skills (A2), 8.7 Networking and communication skills (A1)	1-3 hours lecture + 5-10 hours exercise material	flexible	
21/22 MATERIAL FOR REFERENCE						
Aarhus - Sherson/Goorney	a)	Quantum Control of Ultracold Atoms	2.1 Atomic physics as basis for quantum technologies (A1), 3.4 Experimental control (A1/A2)	1 hour lecture + 5 hours exercise material	flexible	
	a)	Quantum Games for Inspiration and Education	1.1 Basic concepts (A2), 8.6 Teaching and outreach skills (A1)	1 hour lecture + 5 hours games and exploratory material	flexible	
	a)	A Visual Introduction to Quantum Mechanics	1.1 Basic concepts (A1/A2)	1 hour lecture + 5 hours exercise material	flexible	
	c)	Performing science outreach: skills and methods	8.6 Teaching and outreach skills (A2), 8.7 Networking and communication skills (A1)	1-3 hours lecture + 5-10 hours exercise material	flexible	
CTU Prague - Gábris	a)	Quantum walks: applications and photonic implementations	4.5 Photonic systems (B1), 5.3 Quantum algorithms and computing techniques (B1) 5.5 Quantum simulation (B1)	2 hour lecture	flexible	
Harrisburg University -- Frantz	a)	Foundations of QIS; Pre-Masters Foundations	1.1 Basic Concepts (B1), 1.2 Mathematical Formalism (B1), 1.3 Qubit Dynamics (A1)	14-hr lectures	flexible	
ICFO / UB - Sewell / Julia	a)	Workshops from companies, (e.g. presentation of Qiskit & similar), seminars from researchers, and some transferable skills topics for the masters students.	TBC - will depend on the final list of speakers / workshops	Broadcast seminars and/or host on-line seminars to be shared with partners.	approx. bi-weekly, Thursday afternoons, 14 Feb - 30 June, TBC	
	b)	Career development symposium	8.3 Management and leadership skills (A2) 8.4 Knowledge of industrial processes (A2) 8.5 Connecting QT with applications and use cases (A2) 8.7 Networking and communication skills (B1)	1-day career symposium. We will broadcast sessions online & open this to participation by masters students from partner organizations	Friday 8 April 2022, Full Day, hybrid (in person at ICFO + broadcast online)	modeled on EU project CARLA - https://carlahub.eu/ if partners are interested in replicating this model locally, we can give them support
	b)	Masters Symposium	8.7 Networking and communication skills (B1)	BCN MQST / ICFO willing to host a masters symposium, date TBC	TBC	
University of Salerno-Citro	a)	Quantum simulations of many-body systems	1.1 Basic concepts (A1/A2); 2.1 atomic physics and quantum	2-hours lectures + 4 hours exercise material	TBC	
University of Insubria - Bondani/Benenti						
Budapest University of Technology and Economics - Bacsardi	a)	Quantum Key Distribution: trends, technologies and challenges	7.1 Quantum cryptography, 7.3 Infrastructure for quantum communication	2 hour lecture	flexible	
Eötvös Loránd University-Kutas	a,	Post-Quantum Cryptography summer school and workshop		summer school:1 week of lectures (by experts) and exercise classes, 3-day workshop afterwards	Summer 2022	
University of the Basque Country -Sherman	a)	Quantum physics of semiconductor-based qubits	1.3 Qubit Dynamics (A1)	2-hours lecture + 2 hours exercise	Spring 2022	
QWorld - Jibrán Rashid	a)	QBronze QISKIT workshop QSilver QISKIT workshop Project Q Cirq				
University of Siegen, Otfried Gühne	a)	Entanglement Theory Foundations of QM				
Alfréd Rényi Institute of Mathematics -- András Gilyén	a)	Quantum Algorithms Tutorial	5.3 at level B1-2	1-3 hour lecture	flexible	
	a)	Quantum Singular Value Transform and Block-encodings	5.3 at level C1	1-2 hour lecture	flexible	
	a)	Quantum Walks and Linear Algebra	5.3 at level C1	1-2 hour lecture	flexible	
	a)	Quantum Optimization Algorithms	5.3 at level C1	1-2 hour lecture	flexible	
	a)	Quantum Inspired (Classical) Algorithms	5.3 and 8.2 at level C1	1-2 hour lecture	flexible	

University of Pisa/Marilu Chiofalo	a)	Seminars on conceptual tools to engineer analogue quantum simulators in different platforms	2.1-2.3 to B1	N/A	Three 2-hours seminars in the second half of May
Middle East Technical University/	a)	Seminars on practical Quantum Computing skills for natural science	5.1-5.5 A1 to A2	13x2 hours of Undergraduate (4th year) course material	Flexible
Luleå University of Technology	a)	Quantum Psychology theory	1.1 Basic concepts (A1/A2); Quantum psychology	2-hours lectures	TBC