

QUANTUM COMPUTING, MASTER OF PROFESSIONAL STUDIES (MPS)

Course	Title	Credits
Core courses		
MSQC601	(The Mathematics and Methods of Quantum Computing)	3
MSQC602	(The Physics of the Very Small and its Technological Ramifications)	3
MSML/MSQC603	Principles of Machine Learning	3
MSQC604	(Quantum Computing Architectures and Algorithms)	3
MSQC605	(Advanced Quantum Computing and Applications)	3
MSQC606	(Practical Quantum Computing)	3
MSQC607	(Advanced Topics in Quantum Computing)	3
Elective courses		9
MSQC610	(Quantum Machine Learning)	
MSQC611	(Quantum Networks)	
MSQC612	(Quantum Computing Hardware)	
MSQC613	(Quantum Monte Carlo and Applications)	
MSQC614	(Quantum Information Theory)	
MSQC615	(Quantum Thermodynamics)	
Total Credits		30

The Masters of Professional Studies in Quantum Computing requires 30 credits, of which 21 comprise credits of 7 core courses, and 9 credits of 3 out of 6 possible electives.