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)	
MSCQ615	(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.