

Curriculum – Year 1

Core courses

Restricted Choice

Elective space

Block 1		Block 2		Block 3	Block 4		Block 5		Block 6
September	October	November	December	January	February	March	April	May	June
Quantum Catch-up Course (1 EC)	Quantum Computing (8 EC)			Exam	Orientation Year 2 (1 EC)				Quantum in Society (3 EC)
	Quantum Information Theory (8 EC)			Exam	Restricted Choice Year 1 + Year 2: Together at least 24 EC				
	Introduction to Quantum Hardware (6 EC)				Full-stack Quantum Computing (6 EC)		Quantum Cryptography (6 EC)		
					Advanced Quantum Algorithms (6 EC)		Advanced Numerical Methods in Many-Body Physics (6 EC)		
			Near-term Quantum Computing (3 EC)	Quantum Programming Project (3 EC)	Quantum Hardware (6 EC)			Quantum in Business (3 EC)	
Elective Space See list of suggested courses available					(Up to 12 EC Free Choice, the remainder must be suggested (or restricted choice) courses)				
QuSoft Research Project (3/6 EC) Has to fit in one of the six blocks					(Discuss with course coordinator)				

Curriculum – Year 2

Core courses

Restricted Choice

Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
September October	November December	January	February March	April May	June

Master Thesis & Seminar **(30 EC)** + Student Option **(18 EC)**
Planning is flexible, discuss with thesis coordinator and supervisor

Option 1

Relevant Electives **(18 EC)**
See list of suggested courses available

Option 2

Extended Master Thesis **(18 EC)**

Option 3

Quantum Internship **(18 EC)**

Restricted Choice Year 1 + Year 2:
Together at least **24 EC**

Selected Topics in Quantum Information Processing
(6 EC)

EC Overview

Total: 120 EC

Core Courses	27 EC
Master Thesis & Seminar	30 EC
Student Option (Choose One)	18 EC
→ Relevant Electives	
→ Extended Master Thesis	
→ Quantum Internship	
Restricted Choice + Relevant Electives	at least 33 EC
→ With at least 24 EC Restricted Choice	
Free Choice	at most 12 EC