

Year 1						
S1	P1	Core course	Elective (choose 1)			
		Data Mining	Signal and Image Processing	Mathematical Optimization	Stochastic Decision-Making	
	Research project 1					
	P2	Core course	Elective (choose 1)			
		Model Identification and Data Fitting	Advanced Concepts in Machine Learning	Advanced Natural Language Processing	Network Science	
Research project 1						
P3						
S2	P4	Core course	Elective (choose 1)			
		Computational Statistics	Dynamic Game Theory	Building and Mining Knowledge Graphs	Planning and Scheduling	Explainable AI
	Research project 2					
	P5	Core course	Elective (choose 1)			
		Algorithms for Big Data	Symbolic Computation and Control	Information Retrieval and Text Mining	Computer Vision	Introduction to Quantum Computing for AI and Data Science
Research project 2						
P6						

Year 2						
S3	P1-3	Elective				
		Elective courses / Research project Department of Advanced Computing Sciences	Courses from other UM programmes/faculties	Quantum computing specialisation	Study abroad	Research internship/ Professional internship
				Quantum Algorithms		
				Quantum AI		
				Quantum Information and Security		
				Project on Quantum		
S4	P4-6	Master's Thesis				