Curriculum Bachelor Data Science & Artificial Intelligence 2025 - 2026





Research / Skills		Programming / Software		Core Computer Science	Data / Al		Cognition & Interaction	Mathematics
Year 1	Competer 1	Digital Skills & Pro	ogramming Intro	Studying & Presenting	Foundations of Computer Science		Orientation AI	Calculus 1
	Semester 1		Fundamentals o	of Programming			Essentials of Computer Systems 1	Linear Algebra
	Semester 2	Algorithms and Data Structures		Databases	Logic 1 Essentials of Computer Systems 2		Introduction to Cognitive Science	Calculus 2
	Semester 2			Dalabases				Probability Theory
Year 2	Semester 1	Software Development		Languages and Computation	Symbolic AI		Human-Agent Interaction	Statistics
	Semester 2	Security		Neural Computing	Reinforcement Learning		Cognition & Computation	Machine Learning
	Semester 2			Neural Computing			Research Methods in Al	
Year 3	Semester 1 30 ECTS Elective Space, (LDE) Minor or Study Abroad	Concepts of Programming Languages		Human-Computer Interaction and Information Visualization	Genera	ative AI	Cognitive Neuroscience	Natural Language Processing
		Video Game Making		Cognitive Modelling	Cognitive Robotics		Natural Computing	Computer Vision
				Mathematical Structures in Computer Science				
	Semester 2 6 ECTS Elective Space	Program Correctness					Applied Data Science & Explainable Al	
				Logic 2				
		Software Engineering			Al and Ethics		Bachelor Thesis Project	
Extra-c	Extra-curricular		urity in Practice	AI & Robotics Challenge				