

Robotics and Intelligent Systems (180 CP)

	CHOICE / CORE / CAREER3 x 45 = 135 CP						CONSTRUCTOR Track45 CP	
3 rd Year CAREER	Bachelor Thesis / Seminar (research or industry) m, 15 CP			Summer Internship / Start-Up (after 2 nd year) m, 15 CP			Argumentation, Data Visualization and Communication** m, 5 CP	Agency, Leadership & Accountability OR Community Impact Project me, 5 CP
	Specialization I me, 5 CP	Specialization II me, 5 CP	Specialization III me, 5 CP					Linear Model and Matrices OR Complex Problem Solving me, 5 CP
2 nd Year CORE	Artificial Intelligence m, 5 CP	RIS Lab me, 5 CP	Automation me, 5 CP	Machine Learning m, 5 CP	RIS Project m, 5 CP	Numerical Methods OR Discrete Mathematics me, 5 CP	Causation / Correlation** m, 2.5 CP	
	Robotics m, 5 CP		Embedded Systems me, 5 CP	Control Systems me, 5 CP	Computer Vision me, 5 CP	Probability and Random Processes m, 5 CP	Logic** m, 2.5 CP	
1 st Year CHOICE	Mathematical and Physical Foundations of Robotics II m, 7.5 CP		Algorithms and Data Structures m, 7.5 CP		Digital Systems and Computer Architecture m, 7.5 CP	Elements of Calculus me, 5 CP	German / Humanities me, 2.5 CP	
	Mathematical and Physical Foundations of Robotics I m, 7.5 CP		General Electrical Engineering I m, 7.5 CP		Programming in C and C++ m, 7.5 CP	Elements of Linear Algebra me, 5 CP	German / Humanities me, 2.5 CP	
	Minor Option in RIS (30 CP)		CP: Credit Points m: mandatory me: mandatory elective Study abroad Option in 5 th Semester (22.5 CP) **Different module perspectives available					