

Robotics and Intelligent Systems (180 CP)

	CHOICE / CORE / CAREER 3 x 45 =							CONSTRUCTOR Track 45 CP		
3 rd	Bachelor Thesis / Seminar (research or industry) m, 15 CP					Summer Internship / Start-Up		Argumentation, Data Visualization	Agency, Leadership & Accountability OR Community Impact Project me, 5 CP	
Year CAREER	Specialization I Speciali me, 5 CP		zation II Specialization III me, 5 CP me, 5 CP		(after 2nd year) m, 15 CP		and Communication** m, 5 CP	Linear Model and Matrices OR Complex Problem Solving me, 5 CP		
2 nd Year CORE	Artificial Intelligence m, 5 CP	PIS Lab	Automation me, 5 CP		Machine	Learning RIS Project m, 5 CP m, 5 CP		Numerical Methods OR Discrete Mathematics me, 5 CP		Causation / Correlation** m, 2.5 CP
	Robotics m, 5 CP	me, 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	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	
Year CHOICE	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 Study abroad Option in 5 th ** Different module me: mandatory elective Semester (22.5 CP) perspectives available								t module tives available	