CONSTRUCTOR UNIVERSITY

Robotics and Intelligent Systems (180 CP)

	CHOICE / CORE / CAREER (3 x 45 = 135 CP)					CONSTRUCTOR Track (45 CP)	
3rd Year CAREER	Bachelor Thesis / Seminar (research or industry) m, 15 CP			Summer Internship / Start-Up (after 2nd year) m, 15 CP		New Skills modules	
	Specialization I me, 5 CP	Specialization II me, 5 CP	Specialization III me, 5 CP				
2nd 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	me, 20 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	
1st 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 5th Semester (22.5 CP)