

Computer Science for Autonomous Systems MSc

Code	Subject	Subject prerequisite	Lecture (L)	Exam (E)	Practice (Pr)	Practice Grade (PG)	Consultation	Credit	Semester	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-18AUTSTEG	Software Technology		2	X	2		1	5	1	2+2+1			
IPM-18AUTPME	Project Management		2	E				2	1	2+0+0			
IPM-18AUTPHFTG	Human Factors in Traffic Environment				2	PG		2	1	2+0+0			
IPM-18AUTLFADE	Legal Framework for Autonomous Driving		2	E				2	1	2+0+0			
IPM-18AUTDAAEG	Design and Analysis of Algorithms		2	X	2		1	5	1	2+2+1			
IPM-18AUTISPE	Image and Signal Processing		2	E				2	1	2+0+0			
IPM-18AUTISPG	Image and Signal Processing				2	PG	1	3	1	0+2+1			
IPM-18AUTCVEG	3D Computer Vision		2	X	2		1	5	1	2+2+1			
IPM-18AUTIVSEG	Introduction to Vehicles and Sensors		2	X	1		1	4	1	2+1+1			
IPM-18fatSZVSAMLEG	Software for Advanced Machine Learning *				2	PG	0	2	1	0+2+0			
IPM-20fmiPREPG	Preparation course for master studies and developing learning skills **		0		3	PG	0	2	1	0+3+0			
IPM-18AUTSOTEG	Software Testing	IPM-18AUTSTEG	2	X	2		1	5	2		2+2+1		
IPM-18AUTERTSEG	Embedded and Real-Time Systems		2	X	2		1	5	2		2+2+1		
IPM-18AUTAIPAEG	Artificial Intelligence in Processes and Automation	IPM-18AUTIVSEG, IPM-18AUTISPE, IPM-18AUTDAAEG	2	X	2		1	5	2		2+2+1		
IPM-18AUTDMSSEG	Data Mining in Smart Systems		2	X	2		1	5	2		2+2+1		
IPM-18AUTCGE	Computer graphics		2	E				2	2		2+0+0		
IPM-18AUTCGG	Computer graphics				2	PG	1	3	2		0+2+1		
IPM-18AUTNMEG	Numerical Methods for Optimization and Control Theory		2	X	2		1	5	2		2+2+1		

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IPM-18AUTADLEG	Applied Deep Learning	IPM-18AUTIVSEG, IPM-18AUTISPE, IPM-18AUTNMEG	2	X	2		1	5	3			2+2+1	
IPM-18AUTSCTE	System and Control Theory		2	E				2	3			2+0+0	
IPM-18AUTSCTG	System and Control Theory				2	PG	1	3	3			0+2+1	
IPM-18AUTIVPEG	Image and Video Processing		2	X	2		1	5	3			2+2+1	
IPM-18AUTSSFEG	3D Sensing and Sensor Fusion		2	X	2		1	5	3			2+2+1	
	Elective courses							10				10	
IPM-18AUTTHESIS	Thesis consultation						10	30	4				signature
	Internship							0	2-4				240 hours
	Total credits per semester									30	30	30	30
	Total credits							120					

* This **elective** course familiarizes students with the software background of the 3rd semester course - Applied Deep Learning.

** The accomplishment is mandatory for international students. Credits are counted towards elective course credits.