

Information Technology (Master): Full-time Curriculum

Subject	Subject	Code	1st	2nd	3rd	4th	СН	CR
No.			sem.	sem.	sem.	sem.		
C	Compulsory Subjects							
5915	Advanced Topics in Algorithms	ATA	4				4	5 CR
5914	Discrete Signals and Systems	DSS	4				4	5 CR
5913	Probability and Statistics	PAS	4				4	5 CR
5916	Usability Engineering	UEN	4				4	5 CR
5911	Scientific Methods and Writing	SMW	4				4	5 CR
5906	Management Skills and Business Administration	MBA	4				4	5 CR
5912	Innovation and Development Strategies	IDS		4			4	5 CR
	Sum of compulsory subjects		24	4			28	35 CR
C	Compulsory Optional Subjects							
5918	Communication for Distributed Systems ¹⁾	CDS		4			4	5 CR
5917	Embedded Systems Design ¹⁾	ESD		4			4	5 CR
5923	Industrial Software Engineering ¹⁾	ISE		4			4	5 CR
5919	Information Fusion ¹⁾	IFU		4			4	5 CR
5922	Intelligent Technical Systems 1)	ITS		4			4	5 CR
5920	Network Security ¹⁾	NWS		4			4	5 CR
5924	Advanced Topics in Machine Learning ¹⁾	AML		4			4	5 CR
5928	Authentication ¹⁾	AUT		4			4	5 CR
5636	Autonomous Vehicles 1)	AUV		4			4	5 CR
	N. N. ^{1) 2)}						4	5 CR
	Sum of compulsory optional subjects			20			20	25 CR
5925 -	Research Project	RES			х			30 CR
	Master's Thesis	MAT				х		30 CR
	Sum of CH		24	24			48	
	Sum of CR		30 CR	30 CR	30 CR	30 CR		120 CR

CR = Credits (1 CR corresponds to 30 hours)

CH = Contact hours per week (equivalent to the German abbreviation SWS for 'Semesterwochenstunden')

¹⁾ In total, 5 out of 10 compulsory optional subjects have to be selected.

²⁾ Compulsory optional subject from the range of subjects offered by TH OWL or other universities, as approved by the examination board with a minimum of 4 CH, 5 CR.