

## Information Technology (Master): Part-time Curriculum

### According to the Examination Regulations of 2019 (MPO-IT-19)

Module No..old	Module No..new	Module	Code	1st sem.	2nd sem.	3rd sem.	4th sem.	5th +6th sem.	7th+8th sem.	CH	CR
<b>1st semester, compulsory modules</b>											
5915	11952	Advanced Topics in Algorithms	ATA	4						4	5 CR
5914	11907	Discrete Signals and Systems	DSS	4						4	5 CR
5913	11866	Probability and Statistics	PAS	4						4	5 CR
<b>2nd semester, compulsory module</b>											
5912	11763	Innovation and Development Strategies	IDS		4					4	5 CR
<b>2nd semester, compulsory optional modules</b>											
5918	11951	Communication for Distributed Systems <sup>1)</sup>	CDS		4					4	5 CR
5919	11828	Information Fusion <sup>1)</sup>	IFU		4					4	5 CR
5920	11678	Network Security <sup>1)</sup>	NWS		4					4	5 CR
		N. N. <sup>1) 2)</sup>								4	5 CR
<b>3rd semester, compulsory modules</b>											
5916	11706	Usability Engineering	UEN			4				4	5 CR
5911	11656	Scientific Methods and Writing	SMW			4				4	5 CR
5906	11849	Management Skills and Business Administration	MBA			4				4	5 CR
<b>4th semester, compulsory optional modules</b>											
5923	11780	Industrial Software Engineering <sup>1)</sup>	ISE				4			4	5 CR
5922	11563	Intelligent Technical Systems <sup>1)</sup>	ITS				4			4	5 CR
5917	11658	Embedded Systems Design <sup>1)</sup>	ESD				4			4	5 CR
5924	11663	Advanced Topics in Machine Learning <sup>1)</sup>	AML				4			4	5 CR
5928	11814	Authentication <sup>1)</sup>	AUT				4			4	5 CR
5636	15152	Autonomous Vehicles <sup>1)</sup>	AUV				4			4	5 CR
<b>5th and 6th semester</b>											
5925	11729	Research Project	RES					x			30 CR
<b>7th and 8th semester</b>											
--	11759	Master's Thesis	MAT						x		30 CR
		Total CH		12	12	12	12			48	
		Total CR		15 CR	15 CR	15 CR	15 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')

<sup>1)</sup> In total, 5 out of 10 compulsory optional subjects have to be selected.<sup>2)</sup> 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.

Additional information:

The compulsory optional modules listed for the second semester may also be attended in the fourth semester – and vice versa.