

## Information Technology (Master): MPO-IT-19

## Full-time Curriculum

Subject No.	Subject	Abbr.	1st sem.	2nd sem.	3rd sem.	4th sem.	CH	CR
<b>Compulsory Subjects</b>								
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
<b>Compulsory Optional Subjects</b>								
5918	Communication for Distributed Systems <sup>1)</sup>	CDS		4			4	5 CR
5917	Embedded Systems Design <sup>1)</sup>	ESD		4			4	5 CR
5923	Industrial Software Engineering <sup>1)</sup>	ISE		4			4	5 CR
5919	Information Fusion <sup>1)</sup>	IFU		4			4	5 CR
5922	Intelligent Technical Systems <sup>1)</sup>	ITS		4			4	5 CR
5920	Network Security <sup>1)</sup>	NWS		4			4	5 CR
5924	Advanced Topics in Machine Learning <sup>1)</sup> N. N. <sup>2)</sup>	AML		4			4	5 CR
	Sum of compulsory optional subjects			20			20	25 CR
5925	Research Project	RES			x			30 CR
-	Master's Thesis	MAT				x		30 CR
	Total CH		24	24			48	
	Total 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')

<sup>1)</sup> In total, 5 out of 7 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.