Information Technology (Master): MPO-IT-16
Full-time Curriculum

Course - No.	Course	Abbr.	1st sem.	2nd sem.	3rd sem.	4th sem.	CH	CR
	1st semester, compulsory courses							
5915	Advanced Topics in Algorithms	ATA	4				4	5 CR
5914	Discrete Signals and Systems	DSS	4				4	5 CR
5917	Embedded Systems Design	ESD	4				4	5 CR
5913	Probability and Statistics	PAS	4				4	5 CR
5916	Usability Engineering	UEN	4				4	5 CR
5931	Lab Project 1 [1]	LAB1	x					5 CR
	2nd semester, compulsory courses							
5912	Innovation and Development Strategies	IDS		5			5	6 CR
	2nd semester, compulsory elective courses **(4 out of 6) plus Lab Project 2**							
5918	Communication for Distributed Systems [2]	CDS		4			4	5 CR
5923	Industrial Software Engineering [2]	ISE		4			4	5 CR
5919	Information Fusion [2]	IFU		4			4	5 CR
5922	Intelligent Technical Systems [2]	ITS		4			4	5 CR
5920	Network Security [2]	NWS		4			4	5 CR
5921	Software Engineering for Web Services [2]	SWE		4			4	5 CR
5932	Lab Project 2 [3]	LAB2		x				4 CR
	3rd semester, compulsory courses							
5906	Management Skills and Business Administration	MBA			5		5	6 CR
5911	Scientific Methods and Writing	SMW			2		2	3 CR
5910	Seminar on Industrial Information Technologies	SEM			x			3 CR
5909	Project Work	PIT			x			18 CR
	4th semester							
-	Master's Thesis	MAT				x		30 CR
	Total CH		20	21	7		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')

1) LAB1 complements the compulsory courses ATA, DSS, ESD, PAS and UEN.

2) In total, 4 out of the 6 compulsory elective courses CDS, IFU, NWS, ISE, ITS and SWE have to be selected.

3) LAB2 complements the compulsory elective courses CDS, IFU, NWS, ISE, ITS and SWE.