

## Information Technology (Master): MPO-IT-16

### Part-time Curriculum

Start of Studies: Winter Term 16/17 or 18/19

Course -No.	Course	Abbr.	1st sem.	2nd sem.	3rd sem.	4th sem.	5th / 6th sem.	7th / 8th sem.	CH	CR
<b>1st semester, compulsory courses</b>										
5917	Embedded Systems Design	ESD	4						4	5 CR
5916	Usability Engineering	UEN	4						4	5 CR
5931	Lab Project 1 <sup>1)</sup>	LAB1	x							2 CR
<b>2nd semester, compulsory elective courses (2 out of 3) plus Lab Project 2</b>										
5923	Industrial Software Engineering <sup>2)</sup>	ISE		4					4	5 CR
5922	Intelligent Technical Systems <sup>2)</sup>	ITS		4					4	5 CR
5921	Software Engineering for Web Services <sup>2)</sup>	SWE		4					4	5 CR
5932	Lab Project 2 <sup>3)</sup>	LAB2		x						2 CR
<b>3rd semester, compulsory courses</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
5931	Lab Project 1 <sup>1)</sup>	LAB1			x					3 CR
<b>4th semester, compulsory courses</b>										
5912	Innovation and Development Strategies	IDS				5			5	6 CR
<b>4th semester, compulsory elective courses (2 out of 3) plus Lab Project 2</b>										
5918	Communication for Distributed Systems <sup>2)</sup>	CDS				4			4	5 CR
5919	Information Fusion <sup>2)</sup>	IFU				4			4	5 CR
5920	Network Security <sup>2)</sup>	NWS				4			4	5 CR
5932	Lab Project 2 <sup>3)</sup>	LAB2				x				2 CR
<b>5th / 6th semester, compulsory courses</b>										
5909	Project Work	PIT					x			18 CR
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
<b>7th / 8th semester</b>										
-	Master's Thesis	MAT						x		30 CR
	Total CH		8	8	12	13	7		48	
	Total CR		12 CR	12 CR	18 CR	18 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.