

Curriculum of the Master Degree Programme Information Engineering and Computer Science, M.Sc.

Information Engineering and Computer Science, M.Sc.

Code No (Kennnummer)	Module	SW	Type (Veranstaltungsart)						TE	CP	Sum CP	SS 1	WS 2	SS 3	
			L	SL	S	Ex	PT	Pro							
M-IE_1.01	System Simulation	5	2			2	1		E	5	5	5		M-IE_3.01 Master Thesis /Masterarbeit (27 CP) and Colloquium/Kolloquium (3 CP)	
M-IE_1.02	Data Analysis & Information Engineering	4	2			2			E	5	5	4			
M-IE_1.03	Scientific and Technical Communication	3	3						E	5	5	3			
M-IE_1.04	Applied Research Project A	4					4		E	5	5	4			
M-IE_2.01	Data Mining	4	2			2			E	5	5		4		
M-IE_2.02	Geoinformatics	4	2			2			E	5	5		4		
M-IE_2.03	Intercultural Management and Intercultural Competence	4							E	5	5				
	Intercultural Management and Intercultural Competence		2			1							3		
	Localisation and Internationalisation						1						1		
M-IE_2.04	Innovation Management	3							E	5	5				
	User-Centred Innovation and Design Management		2										2		
	Digital Culture and New Markets		1										1		
M-IE_2.05	Applied Research Project B	4					4		E	5	5		4		
	Specialisation Track (1st semester)	8								10	10				
	Course 1		2			2			E			4			
	Course 2		2			2			E			4			
	Specialisation Track (2nd semester)	4								5	5				
	Course 3		2			2			E				4		
Semester hours per week (Semesterwochenstunden)		47								CP	60	24	23		30

47 SW

90 CP

Specialisation Tracks

Module	SW	CP
<i>Track Computer Science</i>		
M-IE_CS.01 Advanced System Security	4	5
M-IE_CS.02 Mobile and Internet Computing	4	5
M-IE_CS.03 Advanced Software Engineering	4	5
<i>Track Environmental Analysis</i>		
M-IE_EA.01 Environmental Analysis, Impact and Risk	4	5
M-IE_EA.02 Environmental Monitoring Research Project	4	5
M-IE_EA.03 Data Processing in Ecosystem Management	4	5
<i>Track Logistics</i>		
M-IE_LG.01 Logistics Networks Modeling	4	5
M-IE_LG.02 Advanced Logistic Control	4	5
M-IE_LG.03 Advanced Logistics Concepts	4	5
<i>Track Cyber-Physical Systems</i>		
M-IE_CP.01 Distributed Systems	4	5
M-IE_CP.02 Real-Time Embedded Systems	4	5
<i>Track Artificial Intelligence</i>		
M-IE_AI.01 Artificial Intelligence and its Application	4	5
M-IE_AI.02 Machine Learning	4	5
M-IE_AI.03 Advanced Topics of Artificial Intelligence	4	5

Abbreviations

SW	Semester hours per week (Semesterwochenstunden)
WS	Winter semester (Wintersemester)
SS	Summer semester (Sommersemester)
TE	Type of examination (Prüfungsform)
CP	Credit points (Kreditpunkte)
L	Lecture (Vorlesung)
SL	Seminaristic lecture (seminaristische Lehrveranstaltung)
S	Seminar (Seminar)
Ex	Exercise (Übung)
PT	Practical training (Praktikum)
Pro	Project (Projekt)
E	Examination (Prüfung)
C	Certificate (Testat)