Course of Study Computer Science (Study Cohort w22)

Sample course plan M Master Computer Science (CSMS) Dual study program
Specialisation I. Computer and Software Engineering, Specialisation II: Intelligence Engineering, Specialisation III. Mathematics, Specialisation IV. Subject Specific Focus

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk
1	**Practical module 1 (dual study program, Master's degree)**			**Practical module 2 (dual study program, Master's degree)**			**Research Project Computer Science**			**Master thesis (dual study program)**		
2	Practical term 1		0	Practical term 2		0	Research Project Computer Science	PK	8			
3												
4												
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7												
8												
9												
10												
11	**Security of Cyber-Physical Systems**			**Compilers for Embedded Systems**								
12	Security of Cyber-Physical Systems	VL	2	Compilers for Embedded Systems	VL	3						
13	Security of Cyber-Physical Systems	GÜ	2	Compilers for Embedded Systems	PBL	1	**Practical module 3 (dual study program, Master's degree)**					
14							Practical term 3		0			
15												
16												
17	**Intelligent Autonomous Agents and Cognitive Robotics**			**Model Checking - Proof Engines and Algorithms**								
18	Intelligent Autonomous Agents and Cognitive Robotics	VL	2	Model Checking - Proof Engines and Algorithms	VL	2						
19	Intelligent Autonomous Agents and Cognitive Robotics	GÜ	2	Model Checking - Proof Engines and Algorithms	GÜ	2						
20												
21												
22												
23	**Hierarchical Algorithms**			**Machine Learning and Data Mining**			**Intelligent Systems in Medicine**					
24	Hierarchical Algorithms	VL	2	Machine Learning and Data Mining	VL	2	Intelligent Systems in Medicine	VL	2			
25	Hierarchical Algorithms	GÜ	2	Machine Learning and Data Mining	GÜ	2	Intelligent Systems in Medicine	GÜ	1			
26							Intelligent Systems in Medicine	PS	2			
27												
28												
29				**Randomised Algorithms and Random Graphs**			**Advanced Machine Learning**					
30				Randomised Algorithms and Random Graphs	VL	2	Advanced Machine Learning	VL	2			
31				Randomised Algorithms and Random Graphs	HÜ	2	Advanced Machine Learning	GÜ	2			
32												
33												
34												

Business & Management (from catalogue) - 6LP
Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP
Technical Complementary Course I for CSMS - 6LP
Technical Complementary Course II for CSMS - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.