Course of Study Computer Science (Study Cohort w21)

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

Legend:

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk
1	**Security of Cyber-Physical Systems**			**Compilers for Embedded Systems**			**Research Project Computer Science**			**Master Thesis**		
2	Security of Cyber-Physical Systems	VL	2	Compilers for Embedded Systems	VL	3	Research Project Computer Science	PK	8			
3	Security of Cyber-Physical Systems	GÜ	2	Compilers for Embedded Systems	PBL	1						
4												
5												
6												
7	**Intelligent Autonomous Agents and Cognitive Robotics**			**Model Checking - Proof Engines and Algorithms**								
8	Intelligent Autonomous Agents and Cognitive Robotics	VL	2	Model Checking - Proof Engines and Algorithms	VL	2						
9	Intelligent Autonomous Agents and Cognitive Robotics	GÜ	2	Model Checking - Proof Engines and Algorithms	GÜ	2						
10												
11												
12												
13	**Hierarchical Algorithms**			**Machine Learning and Data Mining**			**Intelligent Systems in Medicine**					
14	Hierarchical Algorithms	VL	2	Machine Learning and Data Mining	VL	2	Intelligent Systems in Medicine	VL	2			
15	Hierarchical Algorithms	GÜ	2	Machine Learning and Data Mining	GÜ	2	Intelligent Systems in Medicine	GÜ	1			
16							Intelligent Systems in Medicine	PS	2			
17												
18												
19				**Randomised Algorithms and Random Graphs**			**Mathematics of Neural Networks**					
20				Randomised Algorithms and Random Graphs	VL	2	Mathematics of Neural Networks	VL	2			
21				Randomised Algorithms and Random Graphs	HÜ	2	Mathematics of Neural Networks	GÜ	2			
22												
23												
24												
25							**Advanced Seminars Computer Science**					
26							Advanced Seminar Computer Science I	SE	2			
27							Introductory Seminar Computer Science II	SE	2			
28												
29												
30												

Business & Management (from catalogue) - 6LP
Non-technical Courses for Master (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.