

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 2	Semester 3	Semester 4																																																												
	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk																																																												
1	Security of Cyber-Physical Systems Security of Cyber-Physical Systems VL 2 Security of Cyber-Physical Systems GÜ 2	Compilers for Embedded Systems Compilers for Embedded Systems VL 3 Compilers for Embedded Systems PBL 1	Master Thesis																																																												
2				3	4	5	6	7	Intelligent Autonomous Agents and Cognitive Robotics Intelligent Autonomous Agents and Cognitive Robotics VL 2 Intelligent Autonomous Agents and Cognitive Robotics GÜ 2	Model Checking - Proof Engines and Algorithms Model Checking - Proof Engines and Algorithms VL 2 Model Checking - Proof Engines and Algorithms GÜ 2	8	9	10	11	12	13	Hierarchical Algorithms Hierarchical Algorithms VL 2 Hierarchical Algorithms GÜ 2	Machine Learning and Data Mining Machine Learning and Data Mining VL 2 Machine Learning and Data Mining GÜ 2	14	15	16	17	18	19	Randomised Algorithms and Random Graphs Randomised Algorithms and Random Graphs VL 2 Randomised Algorithms and Random Graphs HÜ 2	Advanced Machine Learning Advanced Machine Learning VL 2 Advanced Machine Learning GÜ 2	20	21	22	23	24	25	26	27	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																
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

