Course of Study Computer Science (Study Cohort w22)

Sample course plan B 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

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	**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												
5												
6												
7												
8												
9												
10												
11	**Software Verification**			**Computer Graphics**								
12	Software Verification	VL	2	Computer Graphics	VL	2						
13	Software Verification	GÜ	2	Computer Graphics	GÜ	2	**Practical module 3 (dual study program, Master's degree)**					
14							Practical term 3		0			
15												
16												
17	**Intelligent Autonomous Agents and Cognitive Robotics**			**Design of Dependable Systems**								
18	Intelligent Autonomous Agents and Cognitive Robotics	VL	2	Designing Dependable Systems	VL	2						
19	Intelligent Autonomous Agents and Cognitive Robotics	GÜ	2	Designing Dependable Systems	GÜ	2						
20												
21												
22												
23	**Linear and Nonlinear Optimization**			**Machine Learning and Data Mining**			**Medical Imaging**					
24	Linear and Nonlinear Optimization	VL	4	Machine Learning and Data Mining	VL	2	Medical Imaging	VL	2			
25	Linear and Nonlinear Optimization	HÜ	1	Machine Learning and Data Mining	GÜ	2	Medical Imaging	GÜ	2			
26												
27												
28												
29				**Probability Theory**			**Mathematical Image Processing**					
30				Probability Theory	VL	3	Mathematical Image Processing	VL	3			
31				Probability Theory	GÜ	1	Mathematical Image Processing	GÜ	1			
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.