Course of Study Computer Science in Engineering (Study Cohort w22)

Sample course plan D Master Computer Science in Engineering (IIWMS) Dual study program
Specialisation I. Computer Science, Specialisation II. Engineering Science, 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**			**Master thesis (dual study program)**		
2	Practical term 1		0	Practical term 2		0	Research Project IIW	PK	8			
3												
4												
5												
6												
7												
8												
9												
10												
11	**Software Verification**			**Design of Dependable Systems**								
12	Software Verification	VL	2	Designing Dependable Systems	VL	2						
13	Software Verification	GÜ	2	Designing Dependable Systems	GÜ	2	**Practical module 3 (dual study program, Master's degree)**					
14							Practical term 3		0			
15												
16												
17	**Software Security**			**Numerical Mathematics II**								
18	Software Security	VL	2	Numerical Mathematics II	VL	2						
19	Software Security	GÜ	2	Numerical Mathematics II	GÜ	2						
20												
21												
22												
23	**Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids**						**Digital Signal Processing and Digital Filters**					
24	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	VL	3				Digital Signal Processing and Digital Filters	VL	3			
25												
26	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	HÜ	2				Digital Signal Processing and Digital Filters	HÜ	2			
27												
28												
29	**Linear and Nonlinear Optimization**											
30	Linear and Nonlinear Optimization	VL	4									
31	Linear and Nonlinear Optimization	HÜ	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 II for Computational Science and Engineering - 12LP

Technical Complementary Course I for Computational Science and Engineering - 12LP

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