Course of Study Computational Science and Engineering (Study Cohort w20)

Sample course plan D Master Computational Science and Engineering (IIWMS)
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	**Software Verification**			**Design of Dependable Systems**			**Research Project**			**Master Thesis**		
2	Software Verification	VL	2	Designing Dependable Systems	VL	2	Research Project IIW	PK	8			
3	Software Verification	GÜ	2	Designing Dependable Systems	GÜ	2						
4												
5												
6												
7	**Software Security**			**Numerical Mathematics II**								
8	Software Security	VL	2	Numerical Mathematics II	VL	2						
9	Software Security	GÜ	2	Numerical Mathematics II	GÜ	2						
10												
11												
12												
13	**Linear and Nonlinear Optimization**						**Digital Signal Processing and Digital Filters**					
14	Linear and Nonlinear Optimization	VL	4				Digital Signal Processing and Digital Filters	VL	3			
15	Linear and Nonlinear Optimization	HÜ	1				Digital Signal Processing and Digital Filters	HÜ	2			
16												
17												
18												
19							**Control Systems Theory and Design**					
20							Control Systems Theory and Design	VL	2			
21							Control Systems Theory and Design	GÜ	2			
22												
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Business & Management (from catalogue) - 6LP
Non-technical Courses for Master (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.