Course of Study Computer Science (Study Cohort w20)

Sample course plan B 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			
1	**Software Verification**	**Compilers for Embedded Systems**	**Research Project Computer Science**	**Master Thesis**
2	Software Verification VL 2	Compilers for Embedded Systems VL 3	Research Project Computer Science PK 8	
3	Software Verification GÜ 2	Compilers for Embedded Systems PBL 1		
4				
5				
6				
7	**Digital Image Analysis**	**Design of Dependable Systems**		
8	Digital Image Analysis VL 4	Designing Dependable Systems VL 2		
9		Designing Dependable Systems GÜ 2		
10				
11				
12				
13	**Linear and Nonlinear Optimization**	**Pattern Recognition and Data Compression**	**Medical Imaging**	
14	Linear and Nonlinear Optimization VL 4	Pattern Recognition and Data Compression VL 4	Medical Imaging VL 2	
15	Linear and Nonlinear Optimization HÜ 1		Medical Imaging GÜ 2	
16				
17				
18				
19		**Numerical Mathematics II**	**Mathematical Image Processing**	
20		Numerical Mathematics II VL 2	Mathematical Image Processing VL 3	
21		Numerical Mathematics II GÜ 2	Mathematical Image Processing GÜ 1	
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.