Course of Study Computational Science and Engineering (Study Cohort w21)

Sample course plan A 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											
1	**Software Verification**			**Algorithmic Game Theory**			**Research Project**			**Master Thesis**	
2	Software Verification	VL	2	Algorithmic game theory	VL	2	Research Project IIW	PK	8		
3	Software Verification	GÜ	2	Algorithmic game theory	HÜ	2					
4											
5											
6											
7	**Mathematical Image Processing**			**Advanced Internet Computing**							
8	Mathematical Image Processing	VL	3	Advanced Internet Computing	VL	2					
9	Mathematical Image Processing	GÜ	1	Advanced Internet Computing	PBL	2					
10											
11											
12											
13				**Information Theory and Coding**			**Distributed Algorithms**				
14				Information Theory and Coding	VL	3	Distributed Algorithms	VL	2		
15				Information Theory and Coding	HÜ	2	Distributed Algorithms	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											
23											
24											
25							**Advanced Machine Learning**				
26							Advanced Machine Learning	VL	2		
27							Advanced Machine Learning	GÜ	2		
28											
29											
30											

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.