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

Sample course plan A 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**			**Algorithmic Game Theory**								
12	Software Verification	VL	2	Algorithmic game theory	VL	2						
13	Software Verification	GÜ	2	Algorithmic game theory	HÜ	2	**Practical module 3 (dual study program, Master's degree)**					
14							Practical term 3		0			
15												
16												
17	**Mathematical Image Processing**			**Advanced Internet Computing**								
18	Mathematical Image Processing	VL	3	Advanced Internet Computing	VL	2						
19	Mathematical Image Processing	GÜ	1	Advanced Internet Computing	PBL	2						
20												
21												
22												
23				**Information Theory and Coding**			**Advanced Machine Learning**					
24				Information Theory and Coding	VL	3	Advanced Machine Learning	VL	2			
25				Information Theory and Coding	HÜ	2	Advanced Machine Learning	GÜ	2			
26												
27												
28												
29				**Machine Learning in Electrical Engineering and Information Technology**								
30				General Introduction Machine Learning	VL	1						
31				Machine Learning in Wireless Communications	VL	1						
32				Machine Learning in Electromagnetic Compatibility Engineering	VL	1						
33				Machine Learning in High-Frequency Technology and Radar	VL	1						
34				Machine Learning Applications in Electric Power Systems	VL	1						

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.