

Course of Study Computational Science and Engineering (Study Cohort w17)

Sample course plan S Master Computational Science and Engineering (IIWMS)
Specialisation Systems Engineering and Robotics

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	Digital Image Analysis			Pattern Recognition and Data Compression			Research Project and Seminar			Master Thesis		
2	Digital Image Analysis	VL	4	Pattern Recognition and Data Compression	VL	4	Seminar	SE	2			
3							Project Work	PK	10			
4												
5												
6												
7	Efficient Algorithms			Information Theory and Coding								
8	Efficient Algorithms	VL	2	Information Theory and Coding	VL	3						
9	Efficient Algorithms	UE	2	Information Theory and Coding	HÜ	1						
10												
11												
12												
13	Digital Communications			Methods and Applications of Differential Geometry								
14	Digital Communications	VL	2	Methods and Applications of Differential	VL	4						
15	Digital Communications	HÜ	1	Geometry								
16	Laboratory Digital Communications	PR	1									
17												
18												
19	Digital Signal Processing and Digital Filters						3D Computer Vision					
20	Digital Signal Processing and Digital Filters	VL	3				3D Computer Vision	VL	2			
21	Digital Signal Processing and Digital Filters	HÜ	1				3D Computer Vision	UE	2			
22												
23												
24												
25	Mathematical Image Processing						Numerical Methods for Medical Imaging					
26	Mathematical Image Processing	VL	3				Numerical Methods for Medical Imaging	VL	2			
27	Mathematical Image Processing	UE	1				Numerical Methods for Medical Imaging	UE	2			
28												
29												
30												
Business & Management (from catalogue) - 6LP												
Nontechnical Elective Complementary Courses for Master (from catalogue) - 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.