

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

Sample course plan N Master Computational Science and Engineering (IIWMS)  
Specialisation Information and Communication Technology

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	<b>Digital Communications</b>		<b>Information Theory and Coding</b>		<b>Research Project and Seminar</b>		<b>Master Thesis</b>	
2	Digital Communications	VL 2	Information Theory and Coding	VL 3	Seminar	SE 2		
3	Digital Communications	HÜ 1	Information Theory and Coding	HÜ 1	Project Work	PK 10		
4	Laboratory Digital Communications	PR 1						
5								
6								
7	<b>Communication Networks I - Analysis and Structure</b>		<b>Application Security</b>					
8	Analysis and Structure of Communication Networks	VL 2	Application Security	VL 3				
9	Communication Networks Exercise	PBL 1	Application Security	UE 2				
10	Selected Topics of Communication Networks	PBL 2						
11								
12								
13	<b>Distributed Algorithms</b>		<b>Communication Networks II - Simulation and Modeling</b>					
14	Distributed Algorithms	VL 2	Simulation and Modelling of Communication Networks	PBL 5				
15	Distributed Algorithms	HÜ 2						
16								
17								
18								
19			<b>Network Security</b>		<b>Traffic Engineering</b>			
20			Network Security	VL 3	Traffic Engineering	VL 2		
21			Network Security	UE 2	Traffic Engineering Exercises	UE 1		
22					Seminar Traffic Engineering	SE 2		
23								
24								
25			<b>Wireless Sensor Networks</b>		<b>Advanced System-on-Chip Design (Lab)</b>			
26			Wireless Sensor Networks	VL 2	Advanced System-on-Chip Design	PBL 3		
27			Wireless Sensor Networks	UE 1				
28			Selected Topics of Wireless Sensor Networks	PBL 1				
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.