

Course of Study Computational Science and Engineering (Study Cohort w18)

Sample course plan T Bachelor Computational Science and Engineering (IHWBS)
Specialisation Computer Science

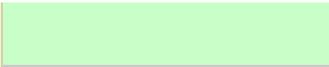
Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	
1	Discrete Algebraic Structures	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Engineering Mechanics I	VL 3	Engineering Mechanics II	VL 3	Seminars Computer Science and Mathematics	SE 2	Stochastics	VL 2	
2													Discrete Algebraic Structures
3													Discrete Algebraic Structures
4													Discrete Algebraic Structures
5													Discrete Algebraic Structures
6													Discrete Algebraic Structures
7	Procedural Programming	VL 1	Objectoriented Programming, Algorithms and Data Structures	VL 4	Numerical Mathematics I	VL 2	Signals and Systems	VL 3	Introduction to Control Systems	VL 2	Introduction into Medical Technology and Systems	VL 2	
8													Procedural Programming
9													Procedural Programming
10													Procedural Programming
11													Procedural Programming
12													Procedural Programming
13	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Automata Theory and Formal Languages	VL 2	Computer Engineering	VL 3	Embedded Systems	VL 3	Functional Programming	VL 2	Lab Cyber-Physical Systems	PBL 4	
14													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields
15													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields
16													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields
17	Mathematics I	VL 2	Foundations of Management	VL 3	Computernetworks and Internet Security	VL 3	Graph Theory and Optimization	VL 2	Measurements: Methods and Data Processing	VL 2	Bachelor Thesis		
18													Electrical Engineering I: Direct Current Networks and Electromagnetic Fields
19													Linear Algebra I
20													Linear Algebra I
21													Linear Algebra I
22	Mathematics II	VL 2	Mathematics III	VL 2	Operating Systems	VL 2	Operating Systems	VL 2	EE Experimental Lab	PR 2			
23											Analysis I		
24											Analysis I		
25	Analysis I												
26	Mathematics II	VL 2	Mathematics III	VL 2	Operating Systems	VL 2	Operating Systems	VL 2	EE Experimental Lab	PR 2			
27											Linear Algebra II		
28											Linear Algebra II		

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Analysis II	VL 2	Differential Equations 1	VL 2
Analysis II	HÜ 1	Differential Equations 1	UE 1
Analysis II	UE 1	Differential Equations 1	HÜ 1



Nontechnical Complementary Courses for Bachelors (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.