Course of Study Computational Science and Engineering (Study Cohort w14)

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

Analysis II

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

LP	Semester 1	Forn h Irs/	w&emester 2	Forn h lrs/	wSemester 3	Forn h lrs/	w&semester 4	FornHrs	w8emester 5 F	orn h irs/v	w&emester 6	Forn h lrs/wl
1 2 3 4 5 6	Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures	VL 2	Alternating Current Networks and Basic Devices	ks and VL 3 UE 2	Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 3 UE 2	Engineering Mechanics II Engineering Mechanics II Engineering Mechanics II	VL 3 UE 2	Engineering Science Seminar Computational Mathematics/Computer Science	25.0	Stochastics Stochastics Stochastics	VL 2 UE 2
7 8 9 10 11	Procedural Programming	VL 1 UE 1 PR 2	Objectoriented Programmin Algorithms and Data Structi Objectoriented Programming, Algorithms and Data Structures Objectoriented Programming, Algorithms and Data Structures	vres VL 4	Numerical Mathematics I Numerical Mathematics I Numerical Mathematics I	VL 2 UE 2	Signals and Systems Signals and Systems Signals and Systems	VL 3 HÜ 1	Systems	VL 2	Semiconductor Circuit Des Semiconductor Circuit Design Semiconductor Circuit Design	sign VL 3 UE 1
13 14 15 16 17 18	Direct Current Networks and Electromagnetic Fields		Logic, Automata and Formal Languages Logic, Automata Theory and Formal Languages Logic, Automata Theory and Formal Languages	VL 2	Computer Engineering Computer Engineering Computer Engineering	VL 3 UE 1	Embedded Systems Embedded Systems Embedded Systems	VL 3 UE 1			Lab Cyber-Physical Systems Lab Cyber-Physical Systems	
19 20 21 22 23 24 25	Linear Algebra I Linear Algebra I Analysis I	VL 2 UE 1 HÜ 1 VL 2 UE 1	Foundations of Management Introduction to Management Project Entrepreneurship		Computernetworks and Int Security Computer Networks and Internet Security Computer Networks and Internet Security	VL 3	Graph Theory and Optimize Graph Theory and Optimization Graph Theory and Optimization	ation VL 2 UE 2	·	VL 2 JE 2	Bachelor Thesis	
26 27 28 29 30 31		HÜ 1	Linear Algebra II Linear Algebra II Analysis II	VL 2 UE 1 HÜ 1 VL 2 HÜ 1	Mathematics III Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1	VL 2 UE 1 HÜ 1 VL 2 UE 1	System on Chip Design (La System on Chip Design	ab) PBL 3				

HÜ 1

UE 1 Differential Equations 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.