Course of Study Computational Science and Engineering (Study Cohort w15)

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

Analysis II

UE 1 Differential Equations 1

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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 Se	Semester 1	Forn h lrs/	w8emester 2 Fo	orn h lrs/	w&emester 3	Forn h lrs/	w&emester 4	Forn h lrs/	w&emester 5 For	hlrs/w&neste	r 6	Forn h lrs/w
2 3	Discrete Algebraic Structure Discrete Algebraic Structures Discrete Algebraic Structures	VL 2	Alternating Current Networks and Basic Devices	s and L 3	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	Seminars Computer Science and Mathematics Seminar Computational SE Engineering Science Seminar Computational SE Mathematics/Computer Science Seminar Engineering SE Mathematics/Computer Science	Stochast 2 Stochast 2	ics	VL 2 UE 2
9 10	Procedural Programming	VL 1 UE 1 PR 2	Objectoriented Programming, Algorithms and Data Structur Objectoriented Programming, V Algorithms and Data Structures Objectoriented Programming, U Algorithms and Data Structures	res ′L 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	Introduction to Control System Introduction to Control VL Systems Introduction to Control UE Systems	2 Compiler Compiler	er Construction Construction Construction	VL 2 UE 2
14 C EI 15 EI 16 EI 17 D 18 EI D	Pirect Current Networks and Electromagnetic Fields	ect VL 3 UE 2	Logic, Automata and Formal Languages Logic, Automata Theory and V Formal Languages Logic, Automata Theory and U Formal Languages		Computer Engineering Computer Engineering Computer Engineering	VL 3 UE 1	Embedded Systems Embedded Systems Embedded Systems	VL 3 UE 1	Databases Databases VL Databases PBL	4 Software	Development Development Development	VL 1 PBL 2
20 21 22 23 24 A	inear Algebra I inear Algebra I inalysis I	VL 2 UE 1 HÜ 1 VL 2 UE 1	Foundations of Management Introduction to Management V Project Entrepreneurship Pi		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	Distributed Systems Distributed Systems VL Distributed Systems UE	2	r Thesis	
25	•	HÜ 1	Linear Algebra II U Linear Algebra II H Analysis II V	/L 2 E 1 Ü 1 /L 2 Ü 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	Software Engineering Software Engineering Software Engineering	VL 2 UE 2				

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.