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

Sample course plan S Bachelor Computational Science and Engineering (IIWBS) 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	Fornirs/	w9emester 2	Formirs/	v <b>⊌</b> emester 3	Formirs/	v8emester 4	Forn <b>H</b> rs/	wBemester 5 Form	rs/w9emester 6	Forn <b>H</b> rs/wk
1 2 3 4 5 6	Discrete Algebraic Structores Discrete Algebraic Structures Discrete Algebraic Structures	tures VL 2 UE 2	Electrical Engineering II Alternating Current Netward Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices		Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 3 UE 2	Engineering Mechanics II Engineering Mechanics II Engineering Mechanics II	VL 3	Seminars Computer Science and Mathematics  Seminar Computational SE 2 Engineering Science  Seminar Computer SE 2 Science/Mathematics  Seminar Computer SE 2 Science/Engineering  Mathematics	Stochastics	VL 2 UE 2
7 8 9 10 11 12	Procedural Programming Procedural Programming Procedural Programming Procedural Programming		Objectoriented Program Algorithms and Data Structures Objectoriented Programming, Algorithms and Data Structures Objectoriented Programming, Algorithms and Data Structures	wing,  VL 4  UE 1	Numerical Mathematics Numerical Mathematics I Numerical Mathematics I	VL 2	<b>Signals and Systems</b> Signals and Systems Signals and Systems	VL 3 UE 2	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems UE 2	Compiler Construction	VL 2 UE 2
13 14 15 16 17 18	Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Automata Theory and Fo Languages Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2 UE 2	Computer Engineering Computer Engineering Computer Engineering	VL 3 UE 1	Embedded Systems Embedded Systems Embedded Systems	VL 3 UE 1	Computer Architecture  Computer Architecture  Computer Architecture  Computer Architecture  UE 1	Software Development	VL 1 PBL 2
19 20 21 22 23 24	Mathematics I Linear Algebra I Linear Algebra I Linear Algebra I Analysis I Analysis I	VL 2 UE 1 HÜ 1 VL 2 UE 1	Foundations of Manager Introduction to Management Management Tutorial	ment VL 3 HÜ 2	Computernetworks and Internet Security Computer Networks and Internet Security Computer Networks and Internet Security	VL 3 UE 1	Graph Theory and Optimization Graph Theory and Optimization Graph Theory and Optimization	VL 2 UE 2	Distributed Systems  Distributed Systems  VL 2  Distributed Systems  UE 2		
25 26 27 28 29	Analysis I	HÜ 1	Mathematics II Linear Algebra II Linear Algebra II Linear Algebra II Analysis II	VL 2 UE 1 HÜ 1 VL 2	Mathematics III Analysis III Analysis III Analysis III Differential Equations 1	VL 2 UE 1 HÜ 1 VL 2	<b>Software Engineering</b> Software Engineering Software Engineering	VL 2 UE 2			

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30	Analysis II	HÜ 1	Differential Equations 1	UE 1
31	Analysis II	UE 1	Differential Equations 1	HÜ 1
32	Allulysis II	OL I	Differential Equations 1	110 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.