Course of Study Computational Science and Engineering (Study Cohort w17) Legend:

Core gualification

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

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

mple course plan T Bachelor (•	onal Science and Engineering	g (IIWBS))			Compulsory	Specialisation Compulsory	Focus Con	npulsory	Thesis Compulso	ry
pecialisation Computer Science	2						Core qualification Elect Compulsory	Specialisation Elective Compulsory	Focus Elec	ctive Compulsory	Interdisciplinary complement	
Semester 1	Formelrs	/weemester 2	Form firs/	Weemester 3	Formirs,	/weemester 4	Formirs/v	8 emester 5	Formirs	/w&emester 6		Formi
Discrete Algebraic Stru Discrete Algebraic Structures Discrete Algebraic Structures	UL 2 UE 2	Alternating Current Networks and Basic Devices		Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 3 UE 2	Engineering Mecl Engineering Mecha Engineering Mecha	nics II VL 3 nics II UE 2	Seminars Computer Sc and Mathematics Seminar Computational Engineering Science Seminar Computational Mathematics/Computer Science Seminar Engineering Mathematics/Computer Science	SE 2 SE 2 SE 2	Stochastics Stochastics Stochastics	5	VL 2 UE 2
Procedural Programmi Procedural Programming Procedural Programming Procedural Programming	VL 1 HÜ 1	Objectoriented Program Algorithms and Data Structures Objectoriented Programming, Algorithms and Data Structures Objectoriented Programming, Algorithms and Data Structures	ming, VL 4 UE 1	Numerical Mathematics Numerical Mathematics I Numerical Mathematics I	VL 2	Signals and System Signals and System Signals and System	s VL 3 s UE 2	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2 UE 2	Technology Introduction Technology Introduction Technology Introduction	on into Medic y and System into Medical and Systems into Medical and Systems into Medical and Systems	ıs
Electrical Engineering Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Field Electrical Engineering I: Direct Current Networks and Electromagnetic Field	s VL 3 VL 3 ds UE 2	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 System Embedded Systems Embedded Systems	5 VL 3 5 UE 1	Functional Programmir Functional Programming Functional Programming Functional Programming	ng VL 2 HÜ 2 UE 2	Lab Cyber-P Lab Cyber-P Systems	Physical Sys i hysical	tems PBL 4
Mathematics I Linear Algebra I Linear Algebra I Linear Algebra I Analysis I Analysis I Analysis I	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1		nent VL 3 PBL 2	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	Measurements: Method Data Processing Measurements: Methods and Data Processing Measurements: Methods and Data Processing EE Experimental Lab		Bachelor T	hesis	
5 7 3		Mathematics II Linear Algebra II Linear Algebra II Linear Algebra II	VL 2 UE 1 HÜ 1	Mathematics III Analysis III Analysis III Analysis III	VL 2 UE 1 HÜ 1	Operating Systems Operating Systems Operating Systems	VL 2 UE 2					

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29		Analysis II V	/L 2	Differential Equations 1	VL 2			
30		Analysis II H	IÜ 1	Differential Equations 1	UE 1			
31		Analysis II L	JE 1	Differential Equations 1	ΗÜ 1			
32								
	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.