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

Sample course plan R Bachelor Computational Science and Engineering (IIWBS) Specialisation Engineering Sciences

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 Fo	orr H rs/v	Semester 2 For	rr H rs/v	% emester 3	Forning/	w S emester 4	Forn H rs/	w9emester 5 F	orn h irs,	/v8emester 6	Forn H rs/w
1 2 3 4 5 6	Structures	L 2	Electrical Engineering II: Alternating Current Networ and Basic Devices Electrical Engineering II: VL Alternating Current Networks and Basic Devices Electrical Engineering II: UE Alternating Current Networks and Basic Devices Devices	·ks	Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 3 UE 2	Engineering Mechanics I Engineering Mechanics II Engineering Mechanics II	VL 3	Engineering Science Seminar Computer Science/Mathematics	CE 2 SE 2 SE 2	Stochastics Stochastics Stochastics	VL 2 UE 2
7 8 9 10 11 12		L 1 Ü 1 R 2	Programming, Algorithms and Data Structures			VL 2 UE 2	Signals and Systems Signals and Systems Signals and Systems	VL 3 UE 2	Systems	/L 2 JE 2	Introduction into Medical Technology and System Introduction into Medical Technology and Systems Introduction into Medical Technology and Systems Introduction into Medical Technology and Systems	ıs
13 14 15 16 17 18	Current Networks and Electromagnetic Fields Electrical Engineering I: VL Direct Current Networks and Electromagnetic Fields	L 3	Formal Languages		Computer Engineering Computer Engineering Computer Engineering	VL 3 UE 1	Embedded Systems Embedded Systems Embedded Systems	VL 3 UE 1	Communications and Random Processes Introduction to Communications and Random Processes	dom /L 3 IÜ 1	Algebra and Control Algebra and Control Algebra and Control	VL 2 UE 2
19 20 21 22 23 24	Linear Algebra I UE Linear Algebra I HÜ Analysis I VL Analysis I UE	L 2 E 1 Ü 1 L 2 E 1 Ü 1	Management	. 3	Computernetworks and Internet Security Computer Networks and Internet Security Computer Networks and Internet Security Mathematics III	VL 3 UE 1	Graph Theory and Optimization Graph Theory and Optimization Graph Theory and Optimization Mathematics IV	VL 2 UE 2	and Data Processing Measurements: Methods U and Data Processing	and /L 2 /E 1 R 2	Bachelor Thesis	

27		Linear Algebra II	VL 2	Analysis III	VL 2	Complex Functions	VL 2
28		Linear Algebra II	UE 1	Analysis III	UE 1	Complex Functions	UE 1
29		Linear Algebra II	HÜ 1	Analysis III	HÜ 1	Complex Functions	HÜ 1
30		Analysis II	VL 2	Differential Equations 1	VL 2	Differential Equations 2	VL 2
		Analysis II	HÜ 1	Differential Equations 1	UE 1	Differential Equations 2	UE 1
		Analysis II	UE 1	Differential Equations 1	HÜ 1	Differential Equations 2	HÜ 1
31							
32							
	Nontechnical Complementary Cours	es for Bachelors (from catalog	aue) - 6	I P			

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.