Course of Study Computational Science and Engineering (Study Cohort w16)

Sample course plan E Bachelor Computational Science and Engineering (IIWBS) Specialisation Engineering Sciences Legend:

	lisation Engineering Sciences	anonai		00)			Core qualification Compulsory	y S	Spec	ialisation Compulsory	Focus Compulsory		Thesis Compulsory	
opoola							Core qualification Elective Compulsory			ialisation Elective pulsory	Focus Elective Cor	npulsory	Interdisciplinary compl	ement
LP	Semester 1 Fo	orn h irs/	w& we mester 2	FormHrs	w&vermester 3	Forn h irs/	w&nester 4 F	=orn h lı	lrs/w	Semester 5	FormHrs	w&semester	6	Forn h lrs/w
1 2 3 4 5 6	Discrete Algebraic Structures Discrete Algebraic Structures VL Discrete Algebraic Structures UE	L 2	Electrical Engineering II: Alternating Current Network Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3 UE 2	Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 3 UE 2		VL 3 JE 2	3	Seminars Computer S Mathematics Seminar Computationa Engineering Science Seminar Computationa Mathematics/Compute Science Seminar Engineering Mathematics/Compute Science	I SE 2 I SE 2 r SE 2	Stochastic Stochastic Stochastic	s	VL 2 UE 2
7 8 9 10 11 12	Procedural Programming HU	L 1 Ü 1 R 2	Objectoriented Programmin Algorithms and Data Struc Objectoriented Programming, Algorithms and Data Structures Objectoriented Programming, Algorithms and Data Structures	VL 4	Numerical Mathematics I Numerical Mathematics I Numerical Mathematics I	VL 2 UE 2		VL 3 HÜ 1	3	Introduction to Control Introduction to Control Systems Introduction to Control Systems	rol Systems VL 2 UE 2	Transmiss Seminar Transmiss Research Engineerin Science, M	Engineering IV: sion Lines and Re- tion Line Theory Seminar Electrical g, Computer Aathematics tion Line Theory	VL 2
13 14 15 16 17 18	Direct Current Networks and Electromagnetic Fields	ct L 3 E 2	Logic, Automata and Form 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		VL 3 JE 1	3 ¹	Electrical Engineerin Theory and Transien Circuit Theory Circuit Theory	-	Engineeri Materials i Engineerin Materials i Engineerin	n Electrical g n Electrical	VL 2 UE 2 VL 1
19 20 21 22 23 24	Linear Algebra I UE Linear Algebra I HÚ Analysis I VL	L 2 E 1 Ü 1 L 2 E 1	Foundations of Manageme Introduction to Management Project Entrepreneurship		Computernetworks and Int Security Computer Networks and Internet Security Computer Networks and Internet Security	VL 3 UE 1	Optimization	ion VL 2 JE 2	2	Electrical Power Syst Electrical Power Syste Electrical Power Syste	msI VL 3	Bachelor	Thesis	
25 26 27 28 29 30		Ü 1	Mathematics II Linear Algebra II Linear Algebra II Linear Algebra II Analysis II Analysis 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 HÜ 1	Complex Functions Complex Functions Functions Functions Purceive Functions 2 F	VL 2 JE 1 HÜ 1 VL 2 JE 1 HÜ 1	1 1 2 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.