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

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

· ·	parationa	I Science and Engineering (IIW	100)				Compulsory						
Specialisation Engineering Sciences						Core qualification Elective Compulsory		Specialisation Elective Focus Electron Compulsory		tive Compulsory Interdisciplinary compleme		mplement	
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Discrete Algebraic Structures	s VL 2	Electrical Engineering II: Alternating Current Netwo 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	Engineering Mechan Engineering Mechani Engineering Mechani	ics II VL 3	3 Mat 2 Ser Eng Ser Mat Scie Ser Mat	hinars Computer Scien hematics hinar Computational ineering Science hinar Computational hematics/Computer ence hinar Engineering hematics/Computer ence	ce and SE 2 SE 2 SE 2	Stochastics Stochastics Stochastics		VL 2 UE 2
Procedural Programming Procedural Programming Procedural Programming Procedural Programming Procedural Programming 2	VL 1 UE 1 PR 2	Objectoriented Programmi Algorithms and Data Struct 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	Signals and System Signals and Systems Signals and Systems	s VL (B Intr Sys	oduction to Control S oduction to Control tems oduction to Control tems	ystems VL 2 UE 2	Introduction Technology at Introduction in Technology at Introduction in Technology at Introduction in Technology at	and Systems to Medical ad Systems to Medical ad Systems to Medical	VL 2 PS 2 HÜ 1
3 Electrical Engineering I: D 4 Current Networks and 5 Electromagnetic Fields 6 Electrical Engineering I: 7 Direct Current Networks and 8 Electromagnetic Fields Electrical Engineering I: Direct Current Networks and 5 Electrical Engineering I: 0 Direct Current Networks and Electrical Engineering I: Direct Current Networks and Electrical Engineering I: Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3 I UE 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	Embedded Systems Embedded Systems Embedded Systems	VL (and Intr Cor Rar Intr Cor	oduction to Communic Random Processes oduction to nmunications and idom Processes oduction to nmunications and idom Processes	Cations VL 3 HÜ 1	Algebra and Algebra and C Algebra and C	ontrol	VL 2 UE 2
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Specialisation Compulsory Focus Compulsory

Compulsory

Thesis Compulsory

		Analysis II UE	E 1	Differential Equations 1	HÜ 1	Differential Equations 2	HÜ 1
31							
32							
	Nontechnical Complementary Courses	for Bachelors (from catalogue) - 6	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.