Course of Study Computational Science and Engineering (Study Cohort w14) Core qualification

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

		I Science and Engineering (IIW	(BS)				Compulsory		Specialisation Compusory	FOCUS COM	pulsory	Thesis Compuiso	19
ecialisation Computer Science	9						Core qualification Compulsory	Elective	Specialisation Elective Compulsory	Focus Elec	tive Compulsory	Interdisciplinary c	complement
Semester 1	Forn h irs	/w&neemester 2	Forn h irs/	/w&neemester 3	Forn h irs	/w&mester 4	Form	nlrs/w8ke	mester 5	Forn h irs	wSkemester 6		FormHrs
Discrete Algebraic Strue Discrete Algebraic Strue Discrete Algebraic Strue	tures 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 Mech Engineering Mechan Engineering Mechan	nics II VL	3 Ma 2 Se En Se Ma Sc Se	minars Computer Scier thematics minar Computational gineering Science minar Computational thematics/Computer ience minar Engineering thematics/Computer ience	SE 2 SE 2 SE 2	Stochastics Stochastics Stochastics		VL 2 UE 2
Procedural Programm Procedural Programmin Procedural Programmin Procedural Programmin	g VL 1 g UE 1	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 System Signals and System	is VL	3 Int 1 Sy Int	roduction to Control S roduction to Control stems roduction to Control stems	ystems VL 2 UE 2	Introduction Technology Introduction ir Technology a Introduction ir Technology a	and Systems to Medical nd Systems to Medical	
Electrical Engineering Current Networks and Electromagnetic Field Electrical Engineering I: Direct Current Networks Electromagnetic Fields Electrical Engineering I: Direct Current Networks Electromagnetic Fields	s VL 3 s and 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 System Embedded Systems Embedded Systems	s VL	3 Co	mputational Geometry mputational Geoemetry mputational Geoemetry	VL 2 UE 2	Compiler Co Compiler Con Compiler Con	struction	VL 2 UE 2
Mathematics I Linear Algebra I Linear Algebra I Linear Algebra I Analysis I Analysis I	r Algebra I VL 2 Introduction to M r Algebra I UE 1 Project Entrepre r Algebra I HÜ 1 rsis I VL 2 rsis I UE 1			Computernetworks and Internet Security Computer Networks and Internet Security Computer Networks and Internet Security	ternet VL 3 UE 1	Graph Theory and Graph Theory and Optimization Graph Theory and Optimization	VL UE	2 Dis	stributed Systems stributed Systems stributed Systems	VL 2 UE 2	Bachelor Thesis		
Analysis I	HÜ 1	Mathematics II Linear Algebra II Linear Algebra II Linear Algebra II Analysis II Analysis II	VL 2 UE 1 HÜ 1 VL 2 HÜ 1	Mathematics III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	VL 2 UE 1 HÜ 1 VL 2 UE 1	Operating System Operating Systems Operating Systems	VL						

Specialisation Compulsory Focus Compulsory

Thesis Compulsory

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