## Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w16)

Sample course plan M Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Specialisation Computer Science

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective
Core qualification Elective
Compulsory Specialisation Elective
Compulsory Focus Elective Compulsory

Interdisciplinary complement

LP	Semester 1 Form	Irs/wSemester 2 Formirs	/wSkemester 3 Formers	/wSwemester4 FormHrs	s∕wSkemester5 FormHrs	s/wSkemester 6 FormHrs	/wSkemester 7 FormHrs/w
1 2 3 4 5 6	Chemistry Chemistry I VL 2 Chemistry II VL 2 Chemistry II HÜ 1 Chemistry II HÜ 1	Networks and Basic Devices Electrical Engineering II: VL 3 Alternating Current	Technical Thermodynamics II  Technical VL 2 Thermodynamics II  Technical HÜ 1 Thermodynamics II  Technical UE 1 Thermodynamics II	Objectoriented Programming, Algorithms and Data Structures Objectoriented VL 4 Programming, Algorithms and Data Structures Objectoriented UE 1 Programming, Algorithms and Data Structures	Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship GES
7 8 9 10 11 12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: VL 3 Direct Current Networks and Electromagnetic Fields Electrical Engineering I: UE 2 Direct Current Networks and Electromagnetic Fields	Fundamentals of VL 2  Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering	Mathematics III  Analysis III VL 2  Analysis III UE 1  Analysis III HÜ 1  Differential Equations 1 VL 2  Differential Equations 1 UE 1  Differential Equations 1 HÜ 1	Signals and Systems Signals and Systems VL 3 Signals and Systems HÜ 1	Numerical Mathematics I Numerical Mathematics VL 2 I Numerical Mathematics UE 2 I	Computability and Complexity Theory Computability and VL 2 Complexity Theory Computability and UE 2 Complexity Theory	
13 14 15 16 17 18	Mathematics I  Linear Algebra I VL 2  Linear Algebra I UE 1  Linear Algebra I HÜ 1  Analysis I VL 2  Analysis I UE 1  Analysis I HÜ 1	Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I	Mechanics III (Hydrostatics, Kinematics, Kinetics I)  Mechanics III VL 3  Mechanics III UE 2  Mechanics III HÜ 1	Stochastics Stochastics VL 2 Stochastics UE 2	Seminars Computer Science and Mathematics  Seminar Computational SE 2 Engineering Science  Seminar Computational SE 2 Mathematics/Computer Science  Seminar Engineering SE 2 Mathematics/Computer Science	Software Engineering VL 2 Software Engineering UE 2	
19 20 21 22 23 24	Mechanics I (Statics)  Mechanics I VL 2  Mechanics I UE 2  Mechanics I HÜ 1	Mechanics II HÜ 2	Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1	Graph Theory and Optimization  Graph Theory and VL 2 Optimization  Graph Theory and UE 2 Optimization	ů ů	Mathematical Statistics  Mathematical Statistics VL 3  Mathematical Statistics UE 1	Bachelor Thesis
25 26 27 28	Programming in C Programming in C VL 1	Mathematics II  Linear Algebra II VL 2  Linear Algebra II UE 1	Discrete Algebraic Structures	Automata Theory and Formal Languages  Automata Theory and VL 2  Formal Languages			

	Programming in C	PR 1	Analysis II		Discrete Algebraic	VL 2	Automata Theory and	UE 2
29	Physics for Engineers	s (AIW)	Analysis II	пот	Structures Discrete Algebraic	UE 2	Formal Languages	
30	Physics for Engineers	VL 2	Analysis II	UE 1	Structures	UE 2		
31	Physics for Engineers	UE 1						
-	Nontechnical Compleme	entary Co	urses for Bachelor	s (from catalogu	e) - 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.