Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w17)

Legend:

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

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

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/wk
1	**Chemistry**		**Electrical Engineering II: Alternating Current Networks and Basic Devices**		**Technical Thermodynamics II**		**Objectoriented Programming, Algorithms and Data Structures**		**Introduction to Control Systems**		**Foundations of Management**		**Advanced Internship AIW/ GES**	
2	Chemistry I	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Objectoriented Programming, Algorithms and Data Structures	VL 4	Introduction to Control Systems	VL 2	Introduction to Management	VL 3		
3	Chemistry II	VL 2			Technical Thermodynamics II	HÜ 1			Introduction to Control Systems	GÜ 2	Management Tutorial	HÜ 2		
4	Chemistry I	HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2	Technical Thermodynamics II	GÜ 1	Objectoriented Programming, Algorithms and Data Structures	GÜ 1						
5	Chemistry II	HÜ 1												
6														
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**		**Fundamentals of Mechanical Engineering Design**		**Mathematics III**		**Signals and Systems**		**Numerical Mathematics I**		**Computability and Complexity Theory**			
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design	VL 2	Analysis III	VL 2	Signals and Systems	VL 3	Numerical Mathematics I	VL 2	Computability and Complexity Theory	VL 2		
9					Analysis III	GÜ 1	Signals and Systems	GÜ 2	Numerical Mathematics I	GÜ 2	Computability and Complexity Theory	GÜ 2		
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Analysis III	HÜ 1								
11					Differential Equations 1	VL 2								
12					Differential Equations 1	GÜ 1								
13	**Mathematics I**		**Technical Thermodynamics I**		Differential Equations 1	HÜ 1	**Stochastics**		**Seminars Computer Science and Mathematics**		**Software Engineering**			
14	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2			Stochastics	VL 2	Seminar Computational Engineering Science	SE 2	Software Engineering	VL 2		
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1	**Mechanics III (Hydrostatics, Kinematics, Kinetics I)**		Stochastics	GÜ 2	Seminar Computational Mathematics/Computer Science	SE 2	Software Engineering	GÜ 2		
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	Mechanics III	VL 3			Seminar Engineering Mathematics/Computer Science	SE 2				
17	Analysis I	VL 2			Mechanics III	GÜ 2								
18	Analysis I	GÜ 1	**Mechanics II: Mechanics of Materials**		Mechanics III	HÜ 1	**Graph Theory and Optimization**		**Functional Programming**		**Mathematical Statistics**		**Bachelor Thesis**	
19	Analysis I	HÜ 1	Mechanics II	VL 2			Graph Theory and Optimization	VL 2	Functional Programming	VL 2	Mathematical Statistics	VL 3		
20			Mechanics II	GÜ 2	**Computer Engineering**		Graph Theory and Optimization	GÜ 2	Functional Programming	HÜ 2	Mathematical Statistics	GÜ 1		
21	**Mechanics I (Statics)**		Mechanics II	HÜ 2	Computer Engineering	VL 3			Functional Programming	GÜ 2				
22	Mechanics I	VL 2			Computer Engineering	GÜ 1								
23	Mechanics I	GÜ 2	**Mathematics II**				**Automata Theory and Formal Languages**							
24	Mechanics I	HÜ 1	Linear Algebra II	VL 2			Automata Theory and Formal Languages	VL 2						
25			Linear Algebra II	GÜ 1	**Discrete Algebraic Structures**		Automata Theory and Formal Languages	GÜ 2						
26			Linear Algebra II	HÜ 1	Discrete Algebraic Structures	VL 2								
27	**Programming in C**		Analysis II	VL 2	Discrete Algebraic Structures	GÜ 2								
28	Programming in C	VL 1	Analysis II	HÜ 1										
	Programming in C	PR 1	Analysis II	GÜ 1										
29	**Physics for Engineers (AIW)**													
30	Physics for Engineers	VL 2												
31	Physics for Engineers	GÜ 1												
32														

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.