Course of Study General Engineering Science (German program) (Study Cohort w14)

Sample course plan - Bachelor General Engineering Science (German program) (AIWBS) Specialisation Computer Science and Engineering

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Compulsory

Specialisation Elective

Specialisation Elective

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Thesis Compulsory

Interdisciplinary complement

LP	Semester 1	FormHrs/wl	Semester 2 FormHrs/v	Vk Semester 3 FormHrs/v	Vk Semester 4 FormHrs/v	vk Semester 5 FormHrs/wl	Semester 6 FormHrs/wk
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current	Technical Thermodynamics II	Foundations of Management	Introduction to Control Systems	Stochastics
2	Physics for Engineers	VL 2	Networks and Basic Devices	Technical Thermodynamics II VL 2	Introduction to Management VL 4	Introduction to Control Systems VL 2	Stochastics VL 2
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating VL 3 Current Networks and Basic Devices	Technical Thermodynamics II HÜ 1	Project Entrepreneurship POL 2	Introduction to Control Systems UE 2	Stochastics UE 2
4			Electrical Engineering II: Alternating UE 2	Technical Thermodynamics II UE 1			
			Current Networks and Basic Devices				
5	Chemistry Chemistry I	VL 2					
6	Chemistry II	VL 2					
7	Chemistry I HÜ 1		Fundamentals of Mechanical Engineering	Computer Engineering	Objectoriented Programming, Algorithms and	Conceptual Modeling, Databases and Data	Operating Systems
8	Chemistry II	HÜ 1	Design VIII O	Computer Engineering VL 3	Data Structures	Management Databases W	Operating Systems VL 2
9			Fundamentals of Mechanical VL 2 Engineering Design	Computer Engineering UE 1	Objectoriented Programming, VL 4 Algorithms and Data Structures	Conceptual Modeling, Databases, VL 4 and Data Management	Operating Systems UE 2
10			Fundamentals of Mechanical HÜ 2		Objectoriented Programming, UE 1	Conceptual Modeling, Databases, POL 1	
11	Electrical Engineering I: Direct Curre	ent	Engineering Design		Algorithms and Data Structures	and Data Management	
-	Networks and Electromagnetic Fields						
12	Electrical Engineering I: Direct Current	t VL 3					
13	Networks and Electromagnetic Fields		Technical Thermodynamics I	Mathematics III	Logic, Automata and Formal Languages	Numerical Mathematics I	Bachelor Thesis
14	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	t UE 2	Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1	Analysis III VL 2 Analysis III UE 1	Logic, Automata Theory and Formal VL 2 Languages	Numerical Mathematics I VL 2 Numerical Mathematics I UE 2	
15	However and Electromagnette Fields		Technical Thermodynamics I UE 1	Analysis III HÜ 1	Logic, Automata Theory and Formal UE 2	Training Mariemarco	
16				Differential Equations 1 VL 2	Languages		
17	Mathematics I			Differential Equations 1 UE 1			
18	Linear Algebra I	VL 2		Differential Equations 1 HÜ 1			
-	Linear Algebra I	UE 1	Markania II. Markania ad Makaniala	-	Olympia and Oustania	Community Applifesture	
19	Linear Algebra I	HÜ 1	Mechanics II: Mechanics of Materials Mechanics II VL 2		Signals and Systems Signals and Systems VL 3	Computer Architecture Computer Architekture VL 2	
20	Analysis I Analysis I	VL 2 UE 1	Mechanics II UE 2		Signals and Systems HÜ 1	Computer Architekture UE 2	
21	Analysis I	HÜ 1		Mechanics III (Hydrostatics, Kinematics,			
22				Kinetics I) Mechanics III VL 3			
23				Mechanics III UE 2			
24				Mechanics III HÜ 1			
25	Mechanics I (Statics)		Mathematics II		Graph Theory and Optimization	Seminars Computer Science and Mathematics	
26	Mechanics I	VL 2	Linear Algebra II VL 2		Graph Theory and Optimization VL 2	Selection from a catalog	
27		UE 2	Linear Algebra II UE 1	Discrete Algebraic Structures	Graph Theory and Optimization UE 2		
28	Mechanics I	HÜ 1	Linear Algebra II HÜ 1 Analysis II VL 2	Discrete Algebraic Structures VL 2			
-			Analysis II HÜ 1	Discrete Algebraic Structures UE 2			
29			Analysis II UE 1				
30							
31						Computernetworks and Internet Security	
32						Computer Networks and Internet VL 3 Security	
33			Programming in C			Computer Networks and Internet UE 1	
34	1		Programming in C VL 1			Security	
			Programming in C DD 4				I

	Programming in C	PH	- 1
35	Physics for Engineers (part 2)		
36	Physics-Lab for ET/IIW-Engineers	PR	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.