

Course of Study General Engineering Science (German program) (Study Cohort w15)

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

Legend:

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

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
1	Physics for Engineers (part 1)		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Foundations of Management		Introduction to Control Systems		Stochastics	
2	Physics for Engineers	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	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 Current Networks and Basic Devices	UE 2	Technical Thermodynamics II	HÜ 1	Project Entrepreneurship	POL 2	Introduction to Control Systems	UE 2	Stochastics	UE 2
4			Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II	UE 1						
5	Chemistry											
6	Chemistry I	VL 2										
7	Chemistry II	VL 2										
8	Chemistry I	HÜ 1	Fundamentals of Mechanical Engineering Design		Computer Engineering		Objectoriented Programming, Algorithms and Data Structures		Databases		Operating Systems	
9	Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	VL 2	Computer Engineering	VL 3	Objectoriented Programming, Algorithms and Data Structures	VL 4	Databases	VL 4	Operating Systems	VL 2
10			Fundamentals of Mechanical Engineering Design	HÜ 2	Computer Engineering	UE 1	Objectoriented Programming, Algorithms and Data Structures	UE 1	Databases	POL 1	Operating Systems	UE 2
11	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields											
12	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3										
13	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE 2	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	UE 2	Technical Thermodynamics I	VL 2	Analysis III	VL 2	Logic, Automata Theory and Formal Languages	VL 2	Numerical Mathematics I	VL 2		
15			Technical Thermodynamics I	HÜ 1	Analysis III	UE 1	Logic, Automata Theory and Formal Languages	UE 2	Numerical Mathematics I	UE 2		
16			Technical Thermodynamics I	UE 1	Analysis III	HÜ 1						
17	Mathematics I											
18	Linear Algebra I	VL 2										
19	Linear Algebra I	UE 1	Mechanics II: Mechanics of Materials									
20	Linear Algebra I	HÜ 1	Mechanics II	VL 2			Signals and Systems		Computer Architecture			
21	Analysis I	VL 2	Mechanics II	UE 2			Signals and Systems	VL 3	Computer Architecture	VL 2		
22	Analysis I	UE 1	Mechanics II	HÜ 2	Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Signals and Systems	HÜ 1	Computer Architecture	UE 2		
23	Analysis I	HÜ 1			Mechanics III	VL 3						
24					Mechanics III	UE 2						
25	Mechanics I (Statics)				Mechanics III	HÜ 1						
26	Mechanics I	VL 2	Mathematics II				Graph Theory and Optimization		Seminars Computer Science and Mathematics			
27	Mechanics I	UE 2	Linear Algebra II	VL 2			Graph Theory and Optimization	VL 2	Selection from a catalog			
28	Mechanics I	HÜ 1	Linear Algebra II	UE 1	Discrete Algebraic Structures		Graph Theory and Optimization	UE 2				
29			Linear Algebra II	HÜ 1	Discrete Algebraic Structures	VL 2						
30			Analysis II	VL 2	Discrete Algebraic Structures	UE 2						
31			Analysis II	HÜ 1								
32			Analysis II	UE 1								
33			Programming in C						Computernetworks and Internet Security			
34			Programming in C	VL 1					Computer Networks and Internet Security	VL 3		
									Computer Networks and Internet Security	UE 1		

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