

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

Sample course plan B Bachelor General Engineering Science (German program) (AIWBS)
Specialisation Process 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		Fundamentals of Fluid Mechanics		Introduction to Control Systems		Foundations of Management	
2	Physics for Engineers	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Fundamentals of Fluid Mechanics	VL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 3
3	Physics for Engineers	UE 1	Electrical Engineering II: Alternating Current Networks and Basic Devices	UE 2	Technical Thermodynamics II	HÜ 1	Fluid Mechanics for Process Engineering	HÜ 2	Introduction to Control Systems	UE 2	Project Entrepreneurship	POL 2
4			Electrical Engineering II: Alternating Current Networks and Basic Devices	UE 2	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		Phase Equilibria Thermodynamics		Heat and Mass Transfer		Thermal Separation Processes (part 2)	
9	Chemistry II	HÜ 1	Fundamentals of Mechanical Engineering Design	VL 2	Computer Engineering	VL 3	Thermodynamics III	VL 2	Heat and Mass Transfer	VL 2	Separation Processes	PR 1
10			Fundamentals of Mechanical Engineering Design	HÜ 2	Computer Engineering	UE 1	Thermodynamics III	UE 1	Heat and Mass Transfer	UE 1	Chemical Reaction Engineering (part 2)	
11	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields						Thermodynamics III	HÜ 1	Heat and Mass Transfer	HÜ 1	Experimental Course Chemical Engineering	PR 2
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		Signals and Systems		Thermal Separation Processes (part 1)		Process and Plant Engineering I	
14	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	UE 2	Technical Thermodynamics I	VL 2	Analysis III	VL 2	Signals and Systems	VL 3	Thermal Separation Processes	VL 2	Process and Plant Engineering I	VL 2
15			Technical Thermodynamics I	HÜ 1	Analysis III	UE 1	Signals and Systems	HÜ 1	Thermal Separation Processes	UE 2	Process and Plant Engineering I	HÜ 1
16			Technical Thermodynamics I	UE 1	Analysis III	HÜ 1			Thermal Separation Processes	HÜ 1	Process and Plant Engineering I	UE 1
17	Mathematics I										Particle Technology and Solids Process Engineering	
18	Linear Algebra I	VL 2									Particle Technology I	VL 2
19	Linear Algebra I	UE 1	Mechanics II: Mechanics of Materials				Bioprocess Engineering - Fundamentals		Chemical Reaction Engineering (part 1)		Particle Technology I	UE 1
20	Linear Algebra I	HÜ 1	Mechanics II	VL 2			Bioprocess Engineering - Fundamentals	VL 2	Chemical Reaction Engineering	VL 2	Particle Technology I	PR 2
21	Analysis I	VL 2	Mechanics II	UE 2	Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Bioprocess Engineering - Fundamentals	HÜ 2	Chemical Reaction Engineering	HÜ 2		
22	Analysis I	UE 1	Mechanics II	HÜ 2	Mechanics III	VL 3	Bioprocess Engineering - Fundamental Practical Course	PR 2			Environmental Technology (part 2)	
23	Analysis I	HÜ 1			Mechanics III	UE 2			Measurement Technology for Mechanical and Process Engineers		Practical Exercise Environmental Technology	PR 1
24					Mechanics III	HÜ 1			Measurement Technology for Mechanical and Process Engineers	VL 2		
25	Mechanics I (Statics)		Mathematics II				Environmental Technology		Measurement Technology for Mechanical and Process Engineers	HÜ 1	Bachelor Thesis	
26	Mechanics I	VL 2	Linear Algebra II	VL 2	Fundamentals of Process Engineering		Environmental Assessment	VL 2	Practical Course: Measurement and Control Systems	PR 2		
27	Mechanics I	UE 2	Linear Algebra II	UE 1	Introduction into Process Engineering/Bioprocess Engineering	VL 2	Environmental Assessment	UE 1				
28	Mechanics I	HÜ 1	Linear Algebra II	HÜ 1	Fundamentals of material engineering	VL 2			Environmental Technology (part 1)			
29			Analysis II	VL 2					Environmental Technologie	VL 2		
30			Analysis II	HÜ 1								
31			Analysis II	UE 1	Physical Chemistry							
32					Physical Chemistry	VL 2						
					Physical Chemistry	PR 2						

33	Programming in C		
34	Programming in C	VL	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.