

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

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Energy and Environmental Engineering

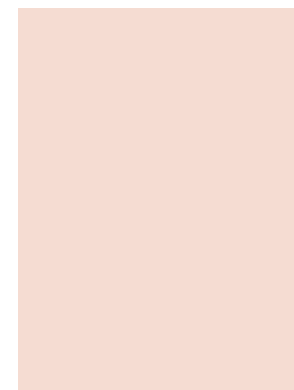
Legend:

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

LP	Semester 1	Form/hrs	Semester 2	Form/hrs	Semester 3	Form/hrs	Semester 4	Form/hrs	Semester 5	Form/hrs	Semester 6	Form/hrs	Semester 7	Form/hrs/wk		
1	Chemistry	VL 2 VL 2 HÜ 1 HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3 UE 2	VL 2 VL 2 HÜ 1 UE 1	VL 2 HÜ 1 UE 1	Mechanical Engineering: Design (part 2)	PBL2 TT 3	Introduction to Control Systems	VL 2 UE 2	Foundations of Management	VL 3 HÜ 2	Advanced Internship GES			
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8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3 UE 2	Fundamentals of Mechanical Engineering Design	VL 2 HÜ 2	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Mathematics III	Fundamentals of Fluid Mechanics	VL 2 HÜ 2	Heat and Mass Transfer	VL 2 UE 1 HÜ 1	Thermal Separation Processes (part 2)	PR 1	Environmental Technology (part 2)	PR 1	Particle Technology and Solids Process Engineering	VL 2 UE 1 PR 2
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15	Mathematics I	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Technical Thermodynamics I	VL 2 HÜ 1 UE 1	VL 2 HÜ 1 UE 1 UE 2 HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)	Electrical Machines	VL 3 HÜ 2	Thermal Separation Processes (part 1)	VL 2 UE 2 HÜ 1	Environmental Technology	VL 2 UE 1	Informatics for Process Engineers	PR 2 VL 2 UE 2	Bachelor Thesis	
16																
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22	Mechanics I (Statics)	VL 2 UE 2 HÜ 1	Mechanics II	VL 2 HÜ 2	VL 3 UE 1	Computer Engineering	Renewables and Energy Systems	VL 2 VL 2 VL 1 UE 1	Gas and Steam Power Plants	VL 3 HÜ 2	Informatics for Process Engineers	PR 2 VL 2 UE 2				
23																
24																

25				
26		Mathematics II		
27		Linear Algebra II	VL 2	
28	Programming in C	Linear Algebra II	UE 1	Mechanical Engineering: Design (part 1)
	Programming in C	Linear Algebra II	HÜ 1	Embodiment Design and 3D-CAD
	Programming in C	Analysis II	VL 2	Mechanical Design Project I
29	Physics for Engineers (AIW)	Analysis II	HÜ 1	
	Physics for Engineers	Analysis II	UE 1	
	Physics for Engineers			
30				
31				Fundamentals of Materials Science (part 1)
				Fundamentals of Materials Science I
32				Physical and Chemical Basics of Materials Science
33				

		for Mechanical and Process Engineers
	Measurement Technology for Mechanical and Process Engineers	VL 2
	Measurement Technology for Mechanical and Process Engineers	HÜ 1
	Practical Course: Measurement and Control Systems	PR 2
	Environmental Technology (part 1)	
	Environmental Technologie	VL 2



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.