

# Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w19)

Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation Mechanical Engineering, Focus Energy Systems														
1	<b>Chemistry</b>		<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b>		<b>Technical Thermodynamics II</b>		<b>Signals and Systems</b>		<b>Introduction to Control Systems</b>		<b>Foundations of Management</b>		<b>Advanced Internship AIW/ ES</b>	
2	Chemistry I VL 2		Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3		Technical Thermodynamics II VL 2		Signals and Systems VL 3		Introduction to Control Systems VL 2		Introduction to Management VL 3		Advanced Internship AIW/ ES: SE 1	
3	Chemistry II VL 2				Technical Thermodynamics II HÜ 1		Signals and Systems GÜ 2		Introduction to Control Systems GÜ 2		Management Tutorial GÜ 2		Preparation	
4	Chemistry I HÜ 1				Technical Thermodynamics II GÜ 1								Advanced Intership AIW/ ES: Internship- SE 1	
5	Chemistry II HÜ 1												accompanying Seminar	
6														
7	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b>		<b>Fundamentals of Mechanical Engineering Design</b>		<b>Mathematics III</b>		<b>Fluid Dynamics</b>		<b>Measurement Technology for Mechanical Engineers</b>		<b>Electrical Machines and Actuators</b>			
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3		Fundamentals of Mechanical Engineering Design VL 2		Analysis III VL 2		Fluid Mechanics VL 3		Measurement Technology for Mechanical Engineering VL 2		Electrical Machines and Actuators VL 3			
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2		Design HÜ 2		Analysis III HÜ 1		Fluid Mechanics HÜ 2		Engineering HÜ 1		Electrical Machines and Actuators HÜ 2			
10					Differential Equations 1 VL 2				Measurement Technology for Mechanical Engineering HÜ 1					
11					Differential Equations 1 GÜ 1				Practical Course: Measurement and Control Systems PR 2					
12					Differential Equations 1 HÜ 1									
13	<b>Mathematics I</b>		<b>Technical Thermodynamics I</b>				<b>Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)</b>		<b>Advanced Mechanical Engineering Design (part 1)</b>		<b>Advanced Mechanical Engineering Design (part 2)</b>			
14	Linear Algebra I VL 2		Technical Thermodynamics I VL 2				Mechanics IV VL 3		Advanced Mechanical Engineering Design I VL 2		Advanced Mechanical Engineering Design II VL 2			
15	Linear Algebra I GÜ 1		Technical Thermodynamics I HÜ 1				Mechanics IV GÜ 2		Advanced Mechanical Engineering Design I HÜ 2		Advanced Mechanical Engineering Design II HÜ 2			
	Linear Algebra I HÜ 1		Technical Thermodynamics I GÜ 1				Mechanics IV HÜ 1							
	Analysis I VL 2													
	Analysis I GÜ 1													
16	Analysis I HÜ 1								<b>Heat Transfer</b>		<b>Reciprocating Machinery (part 2)</b>			
17									Heat Transfer VL 3		Internal Combustion Engines I VL 2			
18									Heat Transfer HÜ 2		Internal Combustion Engines I HÜ 1			
19														
20														
21	<b>Mechanics I (Statics)</b>												<b>Bachelor Thesis</b>	
22	Mechanics I VL 2													
23	Mechanics I GÜ 2													
	Mechanics I HÜ 1													
24														
25														
26														
27	<b>Programming in C</b>													
28	Programming in C VL 1													
	Programming in C PR 1													
29	<b>Physics for Engineers (AIW)</b>													
30	Physics for Engineers VL 2													
31	Physics for Engineers GÜ 1													
32														
33														
34														
35														
Non-technical 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.

