

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

Sample course plan B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))  
Specialisation Mechanical Engineering, Focus Energy Systems

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	<b>Chemistry</b>	VL 2 VL 2 HÜ 1 HÜ 1	<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b>	VL 3 UE 2	VL 2 UE 1	VL 2 HÜ 1 UE 1	<b>Mechanical Engineering: Design (part 2)</b>	PBL2 TT 3	<b>Introduction to Control Systems</b>	VL 2 UE 2	<b>Foundations of Management</b>	VL 3 HÜ 2	<b>Advanced Internship GES</b>	
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7	<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b>	VL 3 UE 2	<b>Fundamentals of Mechanical Engineering Design</b>	VL 2 HÜ 2	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	<b>Mathematics III</b>	VL 3 HÜ 2	<b>Measurement Technology for Mechanical and Process Engineers</b>	VL 2 HÜ 1	VL 2 HÜ 2	<b>Advanced Mechanical Engineering Design (part 2)</b>	VL 2 HÜ 2	<b>Reciprocating Machinery (part 2)</b>	VL 2 HÜ 1
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13	<b>Mathematics I</b>	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	<b>Technical Thermodynamics I</b>	VL 2 HÜ 1 UE 1	VL 3 UE 2 HÜ 1	<b>Mechanics III (Hydrostatics, Kinematics, Kinetics I)</b>	VL 3 UE 2 HÜ 1	<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b>	VL 3 UE 2 HÜ 1	<b>Advanced Mechanical Engineering Design (part 1)</b>	VL 2 HÜ 2	<b>Fundamentals of Production and Quality Management</b>	VL 2 VL 2 VL 2	<b>Bachelor Thesis</b>
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15														
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19	<b>Mechanics I (Statics)</b>	VL 2 UE 2 HÜ 1	<b>Mechanics II</b>	VL 2 UE 2 HÜ 2	VL 3 UE 1	<b>Computer Engineering</b>	VL 3 HÜ 1	<b>Signals and Systems</b>	VL 3 HÜ 2	<b>Heat Transfer</b>	VL 3 HÜ 2	<b>Renewables and Energy Systems</b>	VL 2 VL 2 VL 1	
20														
21														
22														
23	<b>Mechanics I</b>	HÜ 1	<b>Mechanics II</b>	HÜ 2	UE 1	<b>Computer Engineering</b>	UE 1	<b>Reciprocating Machinery (part 1)</b>	VL 1	<b>Reciprocating Engines</b>	VL 1	<b>Energy Systems and Energy Industry</b>	VL 2 VL 1	
24														

					and Turbomachinery - Part Reciprocating Engines Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines	Renewable Energy	UE 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 Physics for Engineers UE 1							
31								
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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.