

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

Sample course plan C Bachelor General Engineering Science (English program, 7 semester) (GESBS(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	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7
1	<b>Chemistry (GES)</b>	<b>Fundamentals of Mechanical Engineering Design</b>	<b>Technical Thermodynamics II</b>	<b>Mechanical Engineering: Design (part 2)</b>	<b>Introduction to Control Systems</b>	<b>Foundations of Management</b>	<b>Advanced Internship GES</b>
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7							
8	<b>Linear Algebra</b>	<b>Technical Thermodynamics I</b>	<b>Mathematics III</b>	<b>Fluid Dynamics</b>	<b>Measurement Technology for Mechanical and Process Engineers</b>	<b>Advanced Mechanical Engineering Design (part 2)</b>	<b>Reciprocating Machinery (part 2)</b>
9							
10							
11							
12							
13							
14							
15	<b>Electrical Engineering I</b>	<b>Mathematical Analysis</b>	<b>Mechanics III (GES)</b>	<b>Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)</b>	<b>Advanced Mechanical Engineering Design (part 1)</b>	<b>Advanced Materials</b>	<b>Bachelor Thesis</b>
16							
17							
18							
19							
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21							
22	<b>Mechanics I (GES)</b>	<b>Electrical Engineering II</b>	<b>Computer Engineering</b>	<b>Signals and Systems</b>	<b>Heat Transfer</b>	<b>Renewables and Energy Systems</b>	
23							

					and Turbomachinery - Part Reciprocating Engines Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines	Renewable Energy	UE 1	
24								
25								
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27								
28	<b>Programming in C</b> Programming in C VL 1 Programming in C PR 1	<b>Mechanics II (GES)</b> Mechanics II VL 2 Mechanics II HÜ 2	<b>Mechanical Engineering: Design (part 1)</b> Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I TT 3					
29	<b>Physics for Engineers (GES)</b> Physics for Engineers VL 2 Physics for Engineers UE 1							
30								
31								
32								
33								
	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.