

Course of Study Green Technologies: Energy, Water, Climate (Study Cohort w24)

Legend:	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan T Bachelor Green Technologies: Energy, Water, Climate (GTBS) Dual study program

Specialisation Energy Technology				
1	Mathematics I		Technical Thermodynamics I	
2	Mathematics I VL 4		Technical Thermodynamics I VL 2	
3	Mathematics I HÜ 2		Technical Thermodynamics I HÜ 1	
4	Mathematics I GÜ 2		Technical Thermodynamics I GÜ 1	
5				
6				
7				
8		Mathematics II	Technical Thermodynamics II	
9		Mathematics II VL 4	Technical Thermodynamics II VL 2	
10		Mathematics II HÜ 2	Technical Thermodynamics II HÜ 1	
11		Mathematics II GÜ 2	Technical Thermodynamics II GÜ 1	
12				
13				
14				
15	General and Inorganic Chemistry			
16	General and Inorganic Chemistry VL 3			
17	Fundamentals in Inorganic Chemistry PR 3			
18	Fundamentals in Inorganic Chemistry GÜ 1			
19				
20				
21	Computer Science for Engineers - Introduction and Overview			
22	Computer Science for Engineers - Introduction and Overview VL 3			
23	Computer Science for Engineers - Introduction and Overview PR 2			
24	Computer Science for Engineers - Introduction and Overview GÜ 2			
25				
26				
27	Green Technologies I		Practical module 2 (dual study program, Bachelor's degree)	
28	Meteorology and Climate Systems - Introduction VL 2		Practical term 2 0	
29	Introduction Green Technologies SE 2			
30	Meteorology and Climate Systems - Introduction GÜ 2			
31				
32				
33	Engineering Mechanics I (Stereostatics)		Engineering Mechanics II (Elastostatics)	
34	Engineering Mechanics I VL 2		Engineering Mechanics II VL 2	
35	Engineering Mechanics I GÜ 2		Engineering Mechanics II GÜ 2	
36	Engineering Mechanics I HÜ 2		Engineering Mechanics II HÜ 2	
37				
38				
39				
40				
41				
Linking theory and practice (dual study program, Bachelor's degree) - 6LP				

Mechanical Engineering: Design (part 2)
 Team Project Design Methodology PBL 2
 Mechanical Design Project II PBL 3

Reciprocating Machinery (part 2)
 Internal Combustion Engines I VL 2
 Internal Combustion Engines I HÜ 1

Bachelor thesis (dual study program)

Practical module 5 (dual study program, Bachelor's degree)
 Practical term 5 0

Economic and environmental project assessment
 Basics of Environmental Project Assessment VL 2
 Case studies economic and environmental project assessment GÜ 1
 Basics of economic project assessment VL 2

Mechanical Engineering: Design (part 1)
 Embodiment Design and 3D-CAD Introduction and Practical Training VL 2
 Mechanical Design Project I PBL 3

Numerical Mathematics I
 Numerical Mathematics I VL 2
 Numerical Mathematics I GÜ 2

Fundamentals of Materials Science
 Fundamentals of Materials Science II VL 2
 Fundamentals of Materials Science I VL 2
 Physical and Chemical Basics of Materials Science VL 2

Reciprocating Machinery (part 1)
 Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines VL 1
 Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines HÜ 1

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.