

Course of Study Energy and Environmental Engineering (Study Cohort w20)

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

Sample course plan B Bachelor Energy and Environmental Engineering (EUTBS)

1	Engineering Mechanics I Engineering Mechanics I VL 3	Engineering Mechanics II Engineering Mechanics II VL 3	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD VL 2 Mechanical Design Project I PBL 3	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics VL 2 Fluid Mechanics for Process Engineering HÜ 2	Heat and Mass Transfer Heat and Mass Transfer VL 2 Heat and Mass Transfer GÜ 1 Heat and Mass Transfer HÜ 1	Environmental Technology (part 2) Practical Exercise Environmental Technology PR 1
2	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2				Renewables Energy Systems and Energy Economy Renewable Energy VL 2 Energy Systems and Energy Industry VL 2 Power Industry VL 1 Renewable Energy GÜ 1
3						
4			Basics of Electrical Engineering Basics of Electrical Engineering VL 3 Basics of Electrical Engineering GÜ 2			
5						
6						
7	Mathematics I Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2		Electrical Machines and Actuators Electrical Machines and Actuators VL 3 Electrical Machines and Actuators HÜ 2	Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	
8	Linear Algebra I HÜ 1					Particle Technology and Solids Process Engineering Particle Technology I VL 2 Particle Technology I GÜ 1 Particle Technology I PR 2
9	Linear Algebra I HÜ 1					
10	Analysis I VL 2		Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1			
11	Analysis I GÜ 1					
12	Analysis I HÜ 1					
13		Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1		Computer Science for Engineers - Programming Concepts, Data Handling & Communication Computer Science for Engineers - Programming VL 3 Concepts, Data Handling & Communication Computer Science for Engineers - Programming GÜ 2 Concepts, Data Handling & Communication	Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical VL 2 Engineering Measurement Technology for Mechanical HÜ 1 Engineering Practical Course: Measurement and Control Systems PR 2	Bachelor Thesis
14			Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2			
15	General and Inorganic Chemistry General and Inorganic Chemistry VL 3 Fundamentals in Inorganic Chemistry PR 3 Fundamentals in Inorganic Chemistry GÜ 1			Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3	Environmental Technology Environmental Assessment VL 2 Case studies project assessment GÜ 1	
16	General and Inorganic Chemistry VL 3					
17	Fundamentals in Inorganic Chemistry PR 3					
18	Fundamentals in Inorganic Chemistry GÜ 1					
19		Mathematics II Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1				
20		Linear Algebra II VL 2				
21	Introduction into Energy and Environmental Engineering Introduction to Energy and Environmental Engineering PBL 4 Physics-Lab for EUT PR 2	Linear Algebra II GÜ 1	Mathematics III Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2	Environmental Technology (part 1) Environmental Technologie VL 2	
22	Introduction to Energy and Environmental Engineering PBL 4	Linear Algebra II HÜ 1				
23	Physics-Lab for EUT PR 2	Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1				
24		Analysis II HÜ 1				
25		Analysis II GÜ 1				
26						
27		Organic Chemistry Organic Chemistry VL 4 Organic Chemistry PR 3			Thermal Separation Processes Thermal Separation Processes VL 2 Thermal Separation Processes GÜ 2 Thermal Separation Processes HÜ 1 Separation Processes PR 1	
28		Organic Chemistry VL 4				
29		Organic Chemistry PR 3				
30			Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2		Gas and Steam Power Plants Gas and Steam Power Plants VL 3 Gas and Steam Power Plants HÜ 1	
31						
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.

