Course of Study Energy and Environmental Engineering (Study Cohort w19)

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

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

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