Course of Study Energy and Environmental Engineering (Study Cohort will 8)

Sample	course plan A Bachelor Energy	y⊣and	Environmental Engineering (EUTB	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 I VL	3	Engineering Mechanics II Engineering Mechanics II VL 3	Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD	VL 2	Fundamentals of Fluid Mechanics Fundamentals of Fluid Mechanics	VL 2	Heat and Mass Transfer Heat and Mass Transfer	VL 2	Environmental Technology (part 2) Practical Exercise Environmental Technology	PR 1
2	Engineering Mechanics I GÜ	2	Engineering Mechanics II GÛ 2	Mechanical Design Project I	PBL 3	Fluid Mechanics for Process Engineering	HÜ 2	Heat and Mass Transfer Heat and Mass Transfer	GÜ 1 HÜ 1	Renewables and Energy Systems Renewable Energy	VL 2
4				Basics of Electrical Engineering						Energy Systems and Energy Industry Power Industry	VL 2 VL 1
5				Basics of Electrical Engineering	VL 3					Renewable Energy	GÜ 1
6				Basics of Electrical Engineering	GŪ 2						
7	Mathematics I		Fundamentals of Mechanical Engineering Design			Electrical Machines and Actuators		Thermal Separation Processes			
8	Linear Algebra I VL Linear Algebra I GÜ	2	Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2			Electrical Machines and Actuators Electrical Machines and Actuators	VL 3 HÜ 2	Thermal Separation Processes Thermal Separation Processes	VL 2 GÜ 2	Particle Technology and Solids Process Eng	
9	Linear Algebra I HŪ							Thermal Separation Processes	HÜ 1	Particle Technology I Particle Technology I	VL 2 GÜ 1
10	Analysis I VL Analysis I GÜ	2		Technical Thermodynamics II				Separation Processes	PR 1	Particle Technology I	PR 2
11	· ·	1		Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÜ 1						
12				Technical Thermodynamics II	GÜ 1						
13			Technical Thermodynamics I			Informatics for Process Engineers		Introduction to Control Systems			
14			Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1			Numeric and Matlab Informatics for Process Engineers	PR 2 VL 2	Introduction to Control Systems Introduction to Control Systems	VL 2 GÜ 2	Environmental Technology	
15	General and Inorganic Chemistry		Technical Thermodynamics I GÜ 1			Informatics for Process Engineers	GÜ 2	·		Environmental Assessment Environmental Assessment	VL 2 GÜ 1
16		3		Foundations of Management							
17	Fundamentals in Inorganic Chemistry GÜ	1		Introduction to Management Management Tutorial	VL 3 HÜ 2					Reciprocating Machinery (part 2)	
18										Internal Combustion Engines I Internal Combustion Engines I	VL 2 HÜ 1
19			Mathematics II			Mechanical Engineering: Design (part 2)		Measurement Technology for Mechanical E			
20			Linear Algebra II VL 2 Linear Algebra II GÜ 1			Team Project Design Methodology Mechanical Design Project II	PBL 2 PBL 3	Measurement Technology for Mechanical Engineering	VL 2		
21	Introduction into Energy and Environmental Engineering		Linear Algebra II HÜ 1					Measurement Technology for Mechanical	HÜ 1	Bachelor Thesis	
22	Introduction to Energy and Environmental PBL	4	Analysis II VL 2 Analysis II HÜ 1	Mathematics III		Fundamentals of Materials Science (part 2		Engineering Practical Course: Measurement and Control	PR 2		
23	Engineering Physics-Lab for VT/ BVT/ EUT PR	2	Analysis II GÜ 1	Analysis III Analysis III	VL 2 GÜ 1	Fundamentals of Materials Science II	VL 2	Systems			
24	PHYSICS-Lab for V1/ BV1/ EU1	2		Analysis III	HÜ 1						
25				Differential Equations 1 Differential Equations 1	VL 2 GÜ 1			Environmental Technology (part 1) Environmental Technologie	VL 2		
26				Differential Equations 1	HÜ 1				•		
27			Organic Chemistry Organic Chemistry VL 4					Reciprocating Machinery (part 1) Fundamentals of Reciprocating Engines and	VL 1		
28			Organic Chemistry PR 3					Turbomachinery - Part Reciprocating Engines			
								Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines	HÜ 1		
29								, , , , , , , , , , , , , , , , , , ,			
30				Fundamentals of Materials Science (part	1)						
31				Fundamentals of Materials Science I	VL 2						
32				Physical and Chemical Basics of Materials Scien	nce VL 2						
33											

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

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP