Course of Study Energy and Environmental Engineering (Study Cohort w18)

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

LP	Semester 1	Forn	w&emester 2	Forn h Irs/	w&vemester 3 FormHrs.	w&semester 4 FormHrs.	w&emester 5 FornHrs	/w&nester 6	FornHrs/wk
1 2 3 4 5 6	Engineering Mechanics I Engineering Mechanics I Engineering Mechanics I	VL 3 UE 2	Engineering Mechanics II Engineering Mechanics II Engineering Mechanics II	VL 3 UE 2	Mechanical Engineering: Design (part 1) Embodiment Design and 3D- VL 2 CAD Mechanical Design Project I PBL 3 Basics of Electrical Engineering Basics of Electrical VL 3 Engineering	Fundamentals of Fluid Mechanics Fundamentals of Fluid VL 2 Mechanics Fluid Mechanics for Process HÜ 2 Engineering	Heat and Mass Transfer Heat and Mass Transfer Heat and Mass Transfer UE 1 Heat and Mass Transfer HÜ 1	Environmental Technology 2) Practical Exercise Environmental Technology Renewables and Energy Sy Renewable Energy Energy Systems and Energy Industry	PR 1
7 8 9 10 11 12	Mathematics I Linear Algebra I Linear Algebra I Linear Algebra I Analysis I Analysis I Analysis I	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Fundamentals of Mechanic Engineering Design Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design	VL 2	Basics of Electrical UE 2 Engineering Technical Thermodynamics II Technical Thermodynamics VL 2 II Technical Thermodynamics HÜ 1	Electrical Machines and Actuators Electrical Machines and VL 3 Actuators Electrical Machines and HÜ 2 Actuators	Thermal Separation Processes Thermal Separation VL 2 Processes UE 2 Processes HÜ 1 Processes PR 1	Power Industry Renewable Energy Particle Technology and So Process Engineering Particle Technology I Particle Technology I Particle Technology I	UE 1
13 14 15 16 17 18	General and Inorganic Che General and Inorganic Chemistry Fundamentals in Inorganic	emistry VL 3 PR 3	Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I UE 1 Mathematics II Linear Algebra II VL 2 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II UE 1	Technical Thermodynamics UE 1 II Foundations of Management Introduction to Management VL 3 Management Tutorial HÜ 2	Numeric and Matlab PR 2 Informatics for Process VL 2 Engineers Informatics for Process UE 2 Engineers	Gas and Steam Power Plants Gas and Steam Power VL 3 Plants Gas and Steam Power HÜ 1 Plants	Environmental Technology Environmental Assessment VL 2 Environmental Assessment UE 1 Bachelor Thesis		
19 20 21	Chemistry Fundamentals in Inorganic Chemistry Introduction into Energy a Environmental Engineering Introduction to Energy and Environmental Engineering			UE 1 HÜ 1 VL 2		Mechanical Engineering: Design (part 2) Team Project Design PBL 2 Methodology Mechanical Design Project II PBL 3	Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems		
24 25 26	Physics-Lab for VT/ BVT/ EUT	PR 2		Mathematics III Analysis III VL 2 Analysis III UE 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 UE 1	Fundamentals of Materials Science (part 2) Fundamentals of Materials VL 2 Science II	Measurement Technology for Mechanical and Process			
27 28 29 30	-		Organic Chemistry Organic Chemistry Organic Chemistry	VL 4 PR 3	Differential Equations 1 HÜ 1 Fundamentals of Materials		Engineers Measurement Technology for VL 2 Mechanical and Process Engineers		

	Science (part 1) Fundamentals of Materials VL 2 Science I	Measurement Technology for HÜ 1 Mechanical and Process Engineers
	Physical and Chemical VL 2 Basics of Materials Science	Practical Course: PR 2 Measurement and Control Systems
31 32		Environmental Technology (part 1)
33		Environmental Technologie VL 2

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