## Course of Study Energy and Environmental Engineering (Study Cohort w15)

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

Core qualification
Compulsory

Core qualification Elective
Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Focus Elective Compulsory

Interdisciplinary complement

LP	Semester 1	Forn <del>h</del> lrs/	w&vemester 2 For	orn <del>h</del> lrs/v	w8emester 3 FormHrs	w8semester 4 FormHrs	/w&remester 5	Forn <del>h</del> lrs/	w&emester 6	Forn <del>h</del> lrs/wl
2	9 9	VL 3 UE 2	9 9	_ 3 ≣ 2	Mechanical Engineering: Design (part 1)  Embodiment Design and 3D- VL 2  CAD  Mechanical Design Project I TT 3	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 Heat and Mass Transfer	VL 2 UE 1 HÜ 1	Thermal Separation Process (part 2) Separation Processes  Environmental Technology 2)	PR 1
3 4 5 6					Basics of Electrical Engineering Basics of Electrical VL 3 Engineering				•	VL 2
7 8 9	3	VL 2 UE 1	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical VL	_ 2	Basics of Electrical UE 2 Engineering	Electrical Machines  Electrical Machines  VL 3  Electrical Machines  HÜ 2	Thermal Separation Proces (part 1) Thermal Separation	ses VL 2	Power Industry Renewable Energy	VL 1 UE 1
10 11	Analysis I Analysis I	HÜ 1 VL 2 UE 1 HÜ 1	Engineering Design Fundamentals of Mechanical HÜ Engineering Design	Ü 2	Technical Thermodynamics II  Technical Thermodynamics VL 2  II  Technical Thermodynamics HÜ 1		Processes Thermal Separation Processes Thermal Separation Processes	UE 2 HÜ 1	Particle Technology I	VL 2 UE 1 PR 2
13 14 15 16 17	General and Inorganic Cher Fundamentals in Inorganic Chemistry	mistry VL 4	Technical Thermodynamics I Technical Thermodynamics I VL Technical Thermodynamics I HÜ Technical Thermodynamics I UE	Ü 1	Technical Thermodynamics UE 1 II  Mathematics III  Analysis III VL 2	Foundations of Management Introduction to Management VL 3 Project Entrepreneurship PBL 2	Gas and Steam Power Plan Gas and Steam Power Plants Gas and Steam Power Plants	ts VL 3 HÜ 2	Environmental Technology Environmental Assessment Environmental Assessment	VL 2
18 19 20 21 22 23 24 25 26	Environmental Engineering	nd	Linear Algebra II UE Linear Algebra II HÜ	1 ت 2 <sub>-</sub> ت 1	Analysis III UE 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 UE 1 Differential Equations 1 HÜ 1  Fundamentals of Materials Science (part 1) Fundamentals of Materials VL 2	Informatics for Process Engineers Numeric and Matlab PR 2 Informatics for Process VL 2 Engineers Informatics for Process UE 2 Engineers  Mechanical Engineering: Design	Introduction to Control Sy Introduction to Control Systems Introduction to Control Systems  Measurement Technology Mechanical and Process Engineers	VL 2 UE 2	Bachelor Thesis	
27 28 29			- 9 ,	- 4 R 3	Science I  Physical and Chemical VL 2  Basics of Materials Science	(part 2) Team Project Design PBL 2 Methodology Mechanical Design Project II TT 3  Fundamentals of Materials	Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers			

	F	Fundamentals of Materials VL 2	Practical Course: PR 2 Measurement and Control Systems	
			Environmental Technology (part 1)	
			Environmental Technologie VL 2	
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.