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

mple course plan D Master Energy and Env ecialisation Energy and Environmental Engin			on	Core qualification Compulsory Core qualification Elective Compulso	ory Specialisation Elec	ive Compuls	Focus Compulsory Focus Elective Compulsory	Interdisciplinary complement
vironmental Engineering	Form Hrs/w		Form Hrs/wk	Semester 3	Form Hrs/wi	Semes	ster 4	Form Hrs/w
Transport Processes		Research Project Energy and Environmental Engineering		Examples in Solid Process Engineering		Maste	er Thesis	
Heat & Mass Transfer in Process Engineering	VL 2			Fluidization Technology	VL 2			
Multiphase Flows	VL 2			Technical Applications of Particle Technology	VL 2			
Reactor Design Using Local Transport Processes	PBL 2			Practical Course Fluidization Technology	PR 1			
				Exercises in Fluidization Technology	GÜ 1			
Fluid Mechanics in Process Engineering		-		Process Design Project				
Phyla Mashaulas II	VL 2			Process Design Project	РК 6			
Applications of Fluid Mechanics in Process Engineering	HŪ 2			······································				
0								
1								
2								
3 Thermal Energy Systems Thermal Engergy Systems	VL 3	Use of Solar Energy Solar Power Generation	VL 2	Particle Technology and Solid Matter Process Technology Advanced Particle Technology II	VL 2			
4 Thermal Engergy Systems Thermal Engergy Systems	HŪ 1	Energy Meteorology	VL 2 VL 1	Advanced Particle Technology II	PBL 1			
5		Energy Meteorology	GÜ 1	Experimental Course Particle Technology	PR 3			
6		Collector Technology	VL 2					
7								
8								
9 Steam Turbines in Energy, Environmental and Power Train E	ngineering	System Aspects of Renewable Energies				-		
0 Steam turbines in energy, environmental and Power Train Engineerin		Energy Trading	VL 1					
Steam turbines in energy, environmental and Power Train Engineerin	ng GÜ 1	Energy Trading	GÜ 1					
1		Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Produ	uction VL 2					
2		and Storage						
3		Deep Geothermal Energy	VL 2					
4								
5 Wastewater Treatment and Air Pollution Abatement		Wastewater Systems						
	VL 2	Advanced Wastewater Treatment	VL 2					
Biological Wastewater Treatment	VL 2	Advanced Wastewater Treatment	HÜ 1					
7		Wastewater Systems - Collection, Treatment and Reuse	VL 2					
8		Wastewater Systems - Collection, Treatment and Reuse	HÜ 1					
9								
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Business & Management (from catalogue) - 6LP								
						-		
Non-technical Courses for Master (from catalogue	e) - 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.