

Master Program "Renewable Energy Systems - Environmental and Process Engineering" (M.Eng.)
2015 - 2016

Nr.	Module	Sem.	CP	Lecture	h	Comment
1	Mathematics	1+2	5	Numerical Mathematics	4	
2	Data Acquisition	1+2	5	Data Acquisition a. Processing	4	
3	Wind Energy	2	5	Wind Turbines	2	
		2		Assessment of Wind Energy Projects	2	
4	Energy Practice	2	5	Energy Practice	3	this lab is not available for guest students
5	Bioenergy - Biofuels	2	5	Biofuels	4	
6	Bioenergy - Biogas	1	5	Biogas Engineering	2	
		1		Biogas Engineering Practice	2	this lab is not available for guest students
7	Plant Engineering and Project Management	1	5	Plant Engineering	2	
		1		Project Management	2	
8	Solar Energy - PV Systems	1	5	PV System Engineering	4	
9	Solar Energy - Converter	1	5	Solar Cells	2	
		2		Solar Thermal Systems	2	
10	Energy Conversion	2	5	Fuel Cells and Batteries	2	
		2		Process Heat	2	lecture is in German
11	Electrical Engineering	1	5	Advanced Electrical Engineering	2	
		2		Power Electronics and Grids	2	
12	Numerical Simulation for Renewable Energy Systems	1		Computational Simulation Techniques	2	
		1		Windturbine Design with CFD	2	only after clearance for guest students
			5	alternativ		
		1		Computational Simulation Techniques	2	
		1		CFD Simulation for Biogas Plants	2	only after clearance for guest students
13	Methods and Tools for advanced Control	2	5	Advanced Control Systems (ACS)	2	
		2		ACS: Simulation and Optimization Tools	2	
14	Project	1+2	5	Project work	4	This project is not available for guest students
15	Business Skills	2	5	Project Finance	2	
		2		Marketing Strategy	2	
	Sum 1		35	mandatory modules		
	Sum 2		25	elective modules		
16	Master Thesis	3	30	Master Thesis		not available for guest students

Semester 1 = winter semester

Semester 2 = summer semester

Due to the limited capacity in labs and of supervisors, labs, projects, and master thesis are not available for guest students.