

Master study course Renewable Energy Systems (M. Eng.)

Module – No.	858	Mandatory module	
Module name	2nd Scientific Project		
Module coordinator	Prof. Dr.-Ing. Joachim Fischer		
Title	Scientific Project II		
Title of examination	Scientific Project II		
Semester	2		
Course type	Language	Project	English
SWS/ ECTS/ Workload	8 P	10	300
Requirements for attendance	successful completion of Module 857 – 1st Scientific Project		

1. Content and objectives
<p>Content:</p> <p>In the second semester, the students in this course should complete one scientific project, which runs over the entire semester. The topic of the project is a complex assignment out of renewable energy engineering. Subject are the design of a district energy system, combined heat and power facilities or the simulation of a power plant for example.</p> <p>The project work is done in groups of 10 - 15 students and concludes with an oral presentation of the project results and a written project documentation. In order to take the system approach of renewable energies into account, at least two professors from different fields should offer and organize the project topic.</p> <p>Learning goals:</p> <p>The students should learn within a team to structure complex tasks, define reasonable work packages and to process them in a limited time. Periodical milestone discussions with the supervising lecturers help the project team and the individual student to complete the task in an efficient and goal-oriented manner. The final documentation and presentation of the project results prepares the prospective Master of Engineering for a project-oriented work in industry and economy.</p>
2. Method(s) of instruction
Project work
3. Requirements for attendance
Successful completion of the module 857 – „1st Scientific Project“
4. Usability of this module
The module is offered as mandatory module in the master study course „Renewable Energy Systems“ (M.Eng.)
5. Requirements for assessment
Assessment is performed with the submission and presentation of the project; both will be graded.
6. ECTS credits
10 ECTS credits
7. Frequency of offer
The module is annually lectured in the autumn semester
8. Work load
The total workload for this module is 300 hours; this corresponds to 10 ECTS credits. This workload results mainly from the independent and self-responsible handling of the project (220 hours), the participation in the milestone meetings (40 hours) as well as from the preparation of the final report and presentation (40 hours).
9. Duration of module
The module is lectured in one semester