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

Module – No.		**858**		**Mandatory module**
Module name		**Scientific Project**		
Module coordinator		Dr.-Ing. Pascal Leibbrandt		
Title		Scientific Project		
Title of examination		Scientific Project		
Semester		2		
Course type	Language	Project		English
SWS/ ECTS/ Workload		8	10	300
Requirements for attendance		none		

1. Content and objectives
Content: 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. The module also aims to teach students how to work in groups on large projects. Students are expected to combine individual partial results into an overall result. Finally, students are required to document the result in the form of a final project report, a presentation and a publication. The project work is done in groups of 5 - 10 students and concludes with an oral presentation of the project results and a written project documentation. **Learning goals:** 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 and the other groups help the project team and the individual student to complete the task in an efficient and goal-oriented manner. The intermediate results are regularly discussed in the form of a seminar with all students The final documentation, presentation and publication of the project results prepares the prospective Master of Engineering for a project-oriented work in industry and economy.
2. Method(s) of instruction
Project work
3. Requirements for attendance
Successful participation in the modules **870 Basics in Electrical Engineering**, **871 Basics in Thermal Engineering, 873 Scientific Practice** and **568 Project Management**
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