Module – No		568	Obligatory
Module name		**Project Management**	
Module coordinator		Prof. Dr.-Ing. Joachim Fischer / Prof. Dr.-Ing. Michael Rutz	
Title		Project Management	
Title of examination		Project Management	
Fachsemester		1st	
Course type	Language	Lecture / Exercise	English
SWS/ ECTS/ Workload		2 / 2 / 0	5	150
Requirements for attendance		none	

1. Content and objectives

Content:

A. Lecture

The concepts, methods and tools of project management for industrial projects are taught. An overview of the entire field of project management (PM) is given. Essential contents of the course are:

- forms of project organisation,
- basics of project planning,
- project management and control,
- multi-project management,
- risk management,
- documentation and reporting,
- support of project management by integrated information systems,
- sociological aspects of project management

B. Seminar 1

- software tools for project planning
- introduction to agile project management

C. Seminar 2 (project example)

- from project idea to research project description
- resource planning (financial, staff, materials, (lab)space)
- project flow and control (meeting schedule, task control)
- project documentation (final report, post-calculation)

Learning objectives:

Students are able to plan projects and organise their implementation. They have learned the basics of project management for industrial applications. They have an overview of selected methods, tools (software) and information systems for planning and controlling industrial projects. The students are able to plan, organise and document a project with the help of a project example. They are able to present the project idea, the progress and the results.

2. Method(s) of instruction

The module consists of a lecture and seminars.

3. Requirements for attendance

There are no formal requirements for participation.

Literature:

1. Lester, A. Project Management, Planning, and Control Managing Engineering, Construction, and Manu-facturing Projects to PMI, APM, and BSI Standards Sixth Edition Butterworth-Heinemann, 2014
2. Snyder Dionisio, C.: A Project Manager's Book of tools and techniques, Sixth Edition, Wiley, 2018

4. Usability of this module

The module is offered as Mandatory module in the master study courses „Renewable Energy Systems" (M.Eng.) and "Environmental and Recycling Technology" (M.Eng.) and as Elective Course in "Computer Engineering for IoT Systems" (M.Eng.)

5. Requirements for assessment
The assessment takes place as the sum of individual homeworks and/or in the format of an oral examination as a group presentation.
6. ECTS credits
The grade corresponds to the grading of the homeworks and the final group presentation. When completing the unit successfully, students are granted 5 credit points (ECTS).
7. Frequency of offer
The module is lectured annually in the summer semester
8. Work load
The total workload for this module is 150 hours; this corresponds to 5 ECTS credits. This workload results from the presence at the lectures with with integrated exercises (about 45 hours). As part of the self-study, the lecture material should be reworked (about 55 hours). The preparation and execution of the examination is about 50 hours.
9. Duration of module
The module is lectured in one semester.