

# Project Lab on Renewable and Sustainable Energy Systems – Introduction

Chair of Renewable and Sustainable Energy Systems

Winter Semester 2023/2024



# General Overview

**Programs:** many different programs involved; **Language:** English or German

## 6 ECTS

120 hours self-study + 60 contact hours at the chair in Garching

- Time slot for contact hours in coordination with the supervisor (see topic list)

## Moodle during semester

- Information to the course
- Other information, dependent on the group and supervisor

## Exam Registration

- Via TUMonline: **November 20, 2023 – January 15, 2024**

# Working in groups

## Project management

- Problem and goals are given by supervisor
- Definition of sub-tasks and deliverables by students
- Development of time schedule (Gantt-Chart)
- Assignment of responsibilities for the sub-tasks
- Work on the tasks
- Progress check with supervisor
- Adaption of time schedule if needed
- Review and assessment of the work and schedule

# Learning Outcomes

After completion of the module, the students may be able to

- work in a group
- on a given problem and goal
- plan and manage the tasks and schedule needed to fulfill the goal
- document the work in a written scientific report
- present the work and results in front of a professional audience
- manage a critical discussion of the results

# Study and examination performance – some information

## Group work on given problem in contact hours (30 %)

- Work as a team – distribute the tasks and responsibilities
- Implement a team structure with transparent responsibilities – communication, sharing content, ...

## Written report (15-20 pages) with tasks, methods and results (40 %)

- Group report - even split on **all** group members
- Responsibility – who was responsible for what part of the report? Tag it!
- Structure – logical, easy to follow structure
- Content – as much as needed, but as condensed as possible, incl. time schedule etc.

## Presentation of work as group (30 min) followed by discussion (10 min) (30%)

- Group presentation – even split on **all** group members
- Structure and content - make it understandable, clear key-messages
- Style – make slides easy to grasp; layout is important
- Discussion – prepare yourselves for possible questions

# Module exam – important dates and deliverables

## **Written report (15-20 pages) with tasks, methods and results (40 %)**

- **Submission: by Monday, February 05, 2024, 7 am as PDF via email to supervisor**

## **Presentation of work as group (30 min) followed by discussion (10 min) (30%)**

- **Presentation date: Friday, February 09, 2024, 8 am - 6 pm, at ZEI (Garching)**