

Course Syllabus

Installation of Photovoltaic Systems 5 Credits, First Cycle

Learning Outcomes

Upon completion of the course, students will be able to:

- carry out photovoltaic installations according to current European standards
- describe the function and working principles of the various system components in a solar installation
- apply regulations and safety in conjunction with photovoltaic installations
- explain the most typical mistakes that can be made during a photovoltaic installation and the ways to avoid them
- analyse measurement data from the commissioning testing procedure of a photovoltaic installation

Course Content

The course covers assembly, installation and commissioning of photovoltaic systems, as well as operation, maintenance and typical failures in these systems. Students put their knowledge into practice by installing a photovoltaic system onto a roof. They also work with troubleshooting and commissioning of the same system. The most common mistakes during installation are reviewed, and students are shown how to make installations secure.

Assessment

- Oral exam
- Seminars
- Project

Grades

The grading scale used for the final course grade is U–VG.

The overall grade is based on the oral examination.

Grades are reported as follows:

- Oral examination - 3 Credits | U–VG
- Seminars - 1 Credit | U–G
- Project - 1 Credit | U–G

Prerequisites

General entry requirements and Mathematics 3c or Mathematics D, Physics 2 and English 6

Other Information

Self study material for students who lack basic knowledge of solar energy is available in the form of recorded lectures. Students can request this from the course coordinator.

This course cannot be counted towards the same degree along with courses that have equivalent content.

If the student has received a decision/recommendation granting study support from Dalarna University because of a disability, then the examiner has the right to offer an alternative examination arrangement. The examiner takes into account the objectives in the course syllabus when deciding whether the examination can be adapted in accordance with the decision/recommendation.

Subject:

Energy Technology

This course can be included in the following main field(s) of study:

1. No main field of study

Progression Indicator:

1. GXX

Approved:

Approved 23 February 2023

Valid from 23 April 2023