



Course syllabus

Faculty of Technology

Department of Built Environment and Energy Technology

2BT006 Energisystem - projekt, 7,5 högskolepoäng

Energy Systems - Project, 7.5 credits

Main field of study

Energy Technology

Subject Group

Energy Technology

Level of classification

First Level

Progression

G2F

Date of Ratification

Approved by Faculty of Technology 2014-06-03

The course syllabus is valid from spring semester 2015

Prerequisites

Knowledge of energy systems equivalent to at least seminar course (1 credit) in the course 2BT005 "Community Energy Systems" or the equivalent.

Objectives

After the course, the student shall:

- Be able to identify, verbalise, evaluate and handle different problems and solutions in connection with energy supply systems,
- Be able to plan and perform an investigation, using adequate methods and tools, within given frames and limitations,
- Be capable to partake in teamwork and co-operation with different types of groups and stakeholders,
- Be capable to present and to discuss information, problems and alternative solutions to a certain problem, orally as well as in written form in dialogue with different groups,
- Show an insight in the limitations and possibilities offered by engineering solutions as well as an understanding of the constraints and needs posed from environmental and working environment demands,
- Show an insight in his/her need of personal development and need for further knowledge.

Content

The course comprises the following elements related to project work:

- Project aim
- Project plan
- Project directives
- Planning – working – finishing
- Planning partial deliveries
- Project diary
- Project evaluation: Technical, logistic and economic
- Report writing, oral presentation and critical reading/academic opposition
- The course is carried out a project in a group where a system solution for energy supply and energy efficiency in a concrete example will be proposed.

Type of Instruction

Lectures, project work, reports, oral and written state-of-the-art reports, study visits, tuition and seminars. The project work may to a major part be conducted at a company or another external partner. The state-of-the-art reports are continuously revised and to continue with the course, these have to be approved successively. Oral and written presentation of the project is compulsory and must be prepared so that the individual contribution to the project may be clearly distinguished.

Examination

The course is assessed with the grades U, 3, 4 or 5.
All three modules are weighted into a final grade.

In order to pass, the objectives of the course should be achieved.

Course Evaluation

A course evaluation will be carried out and compiled after the course is completed. The compilation will be presented to the current board as well as to the students and filed.

Credit Overlap

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course: The course may not be included in a degree together with other course whose contents completely or partly corresponds with the contents of this course.

Overlap completely original course 2BT002.

Other

Some compulsory items in the course might cause costs eligible to the participating student.

Required Reading and Additional Study Material

Required reading

Eklund, Sven. *Arbeta i projekt* ISBN:9789144072753 Studentlitteratur AB (2002) 180 pages.

Larsson, Bengt-Erik. *Projekt i praktiken*. ISBN:9789144077031 Studentlitteratur AB (2012) 142 pages.