



Course syllabus

Faculty Board of Science and Engineering
School of Engineering

2BT002 Energisystem - projektkurs, 7,5 högskolepoäng
Energy Systems - Project, 7.5 credits

Main field of study

Bioenergy Technology

Subject Group

Bio Engineering

Level of classification

First Level

Progression

G2F

Date of Ratification

Approved by Organisational Committee 2009-07-24

The course syllabus is valid from spring semester 2010

Prerequisites

Basic Mathematics, 7,5 hp, Physics for Energy Technology, 7,5 hp, Energy Systems, 7,5 hp and at least three of the following courses: Biofuel Science, 7,5 hp, Sustainable Energy Supply, 7,5 hp, Conversion Processes, 7,5 hp, Energy Technology I, 7,5 hp, Combustion Technology I, 7,5 hp.

Expected learning outcomes

After completing the course the students are expected to:

- be able to apply independently and in groups the knowledge acquired in earlier programme courses complemented by specialization knowledge in the problem areas relevant to the project
- be able to work independently and in groups
- present project aims and project plan in writing and speech
- have acquired specialized knowledge in how technical, economic, logistic and environmental factors affect a project
- work from a detail/holistic perspective with a complex task within bioenergy systems

Content

The course contains a project based on real conditions in some bioenergy field. The course is divided into two parts, the focus of one part being producing projects aim and plan. The second part involves gathering the information for detailed planning within the project. Both parts are reported in writing as well as orally.

The following areas are included:

- Project aim
- Project plan
- Technical, environmental, logistic and economic evaluation of the project
- Written and oral presentation

Type of Instruction

Lectures, project work, submitted assignments, oral and written part presentations, study visits, tuition and seminars. A large part of the project work can be carried out together with companies or other external parties.

To continue the course successful presentations of the project are required. Oral and written presentations of the project are mandatory.

Examination

The course is assessed with the grades U,3,4 or 5.

The assessment of student performances usually takes place during special examination periods and may take the form of submitted assignments and project work. The examination may be both written and oral.

Course Evaluation

When the course has finished, an evaluation is compiled. The results are reported to the students and then archived according to the rules of the school.

Required Reading and Additional Study Material

Required reading

Andersen, E / Schwencke, E Projektarbete - En vägledning för studenter, Studentlitteratur AB (1998) 152 pages