

ENE3101 Energy system analysis project course - 2014-2015

Course code:

ENE3101

Course name:

Energy system analysis project course

Course level:

Bachelor (syklus 1)

ECTS Credits:

10

Duration:

Other

Duration (additional text):

Autumn

Language of instruction:

English

Prerequisite(s):

Bachelor Engineering or Bachelor of Science

Expected learning outcomes:

After completing the course, the student is supposed to

Knowledge:

- have advanced knowledge about energy systems
- have thorough knowledge about energy system analysis

Skills:

- be able to analyze existing theories, methodologies, data and results in the field and work independently with practical and theoretical issues.
- have a deeper understanding of the systems perspective and analyze different energy systems
- be able to use energy system analysis tools in order to carry out an independent, limited research or development project

General competence:

- Be able to convey key topics and master language and terminology of the academic field both in written and oral form.

Topic(s):

System concept

System boundary

System Analysis of different energy systems such as:

- Industrial
- Regional
- National

Energy Modelling Tools

Modelling of different systems

Policy instruments

Teaching Methods:

Other

Teaching Methods (additional text):

Introductory lectures

Computer based simulation

Project work

Supervision

Form(s) of Assessment:

Other

Form(s) of Assessment (additional text):

Form(s) of Assessment:

- Oral exam, individually
- Evaluation of Project(s)

Project report is given a temporary grade.

- Project report is given a temporary grade.
- Individual oral examination (15 minutes) may adjust the grade up or down to the final grade.
- The project report must be passed before the students are able to present themselves for the oral examination.
- Students must pass both parts to pass the course
- For off campus students the oral exam will be arranged through web conference

Grading Scale:

Alphabetical Scale, A(best) – F (fail)

External/internal examiner:

Internal examiner

Re-sit examination:

Revised project report

For the oral exam there will be a re-sit in agreement with the course responsible.

Tillatte hjelpemidler:**Coursework Requirements:**

2 individual compulsory assignments. Both of them must be approved before the final exam.

Academic responsibility:

Faculty of Technology, Economy and Management

Emneansvarlig kobling:

[Alemayehu Gebremedhin](#)

Course responsibility:

Professor Alemayehu Gebremedhin

Teaching Materials:

Will be given at semester start.

Publish:

Yes