



Faculty of Health, Science and Technology
Environmental and Energy Systems

Syllabus

Energy and Environmental Technology: Degree Project

Course Code:	EMGC15
Course Title:	Energy and Environmental Technology: Degree Project <i>Examensarbete för kandidatexamen i miljö- och energisystem</i>
Credits:	15
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree proj. for B.A./B.Sc. (G2E)

Major Field of Study:
MEI (Environmental and Energy Systems)

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2018-09-03, and is valid from the Spring semester 2019 at Karlstad University.

Prerequisites

60 ECTS credits for courses in energy and environmental technology, including at least 15 ECTS credits earned at G1F level or higher and at least 15 ECTS credits completed at G2F level or higher.

Learning Outcomes

The aim of the degree project is that students develop and demonstrate the knowledge and skills required for independent work on issues related to energy and environmental technology.

Knowledge and understanding

For a degree project Pass grade, students should be able to:

- demonstrate specialised knowledge in the chosen area of energy and environmental technology.

Competence and skills

For a degree project Pass grade, students should be able to:

- critically and independently handle a set engineering problem,
- plan and carry out the task within a specified time limit using the recommended method,
- integrate knowledge acquired in the main field of study,
- clearly present and discuss their results and the knowledge and arguments on which these are based, orally and in writing,
- present ways in which their project results could contribute to sustainable development,
- perform information searches and independently identify relevant information,
- write a report conforming to standard practice in science as regards outline, formal aspects and correct referencing.

Judgement and approach

For a degree project Pass grade, students should be able to:

- assess a fellow-student's degree project or equivalent in terms of relevant scientific and ethical aspects.

Content

The purpose, aim, and method of the project are set by the examiner or supervisor.

If two students collaborate on a project, their individual problem formulations must be clearly indicated from the start. The students are required to submit separate reports.

Students are required to conduct, manage, perform and present the project problem independently.

Students are responsible for the process and the result. Instruction is in the form of supervision and seminars.

Reading List

See separate document.

Examination

Assessment is based on problem formulation, implementation, written report, oral presentation and performance as peer reviewer.

The examiner awards a grade in consultation with the supervisor.

On the first notification of a Fail grade after the end of the course period, students can no longer claim the right to supervision. The number of submissions for assessment is limited to five.

Grades

One of the grades Fail (U), Pass (G), or Distinction (VG) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.