



Faculty of Technology and Science
Environmental and Energy Systems

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Technology and Science on 14 June 2010, and is valid from the Autumn semester of 2009 at Karlstad University.

Course Code: EMAE15

Research and Development Project, 15 ECTS Credits
(Forsknings- och utvecklingsprojekt, 15 Swedish credit points)

Degree Level: Master

Progressive Specialisation: A1F (Second cycle, has second-cycle course/s as entry requirements)

Language of Instruction

Swedish or English

Prerequisites

Completed 60 ECTS credits in main field of study, or equivalent

Major Field of Study

MEI (Environmental and Energy Systems)

Learning Outcomes

The aim of the course is that students should further develop their knowledge of energy and environmental engineering in the areas of ongoing departmental research. The aim of the course is that students should acquire an understanding of research and/or development engineering as a profession. Students are given opportunity to work independently in areas new to them.

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

- carry out and document systematic literature searches
- actively contribute to a research project in the main field
- clearly present and discuss literature and knowledge and arguments for it, orally and in writing
- independently formulate research and development questions and indicate how these should be dealt with
- present results within given time limits.

Content and Form of Instruction

The course comprises the following components:

- Seminars at which students perform literature searches, and review and summarise science articles in the main field. Articles are mainly in English and linked to ongoing departmental research.

- Planning time
- Oral and written presentations
- Reviewing the work of others

Reading List

See separate document.

Examination

Assessment is based on students' written and oral presentations and performance as seminar discussant of fellow-student's work.

Grades

One of the grades 5 (Distinction), 4 (Some Distinction), 3 Pass , or Fail (U), alternatively 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 assessment is based on student views and experiences as reported in written course evaluations and/or group discussions. Students will be informed of the result of the evaluation and of the measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional Information

Students who enrolled before 1 July 2007 will complete their studies in accordance with the requirements of the earlier admission. Upon completion students may request degree and course certificates to be issued under the current ordinance if they meet its requirements.

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

Karlstads universitet 651 88 Karlstad, Sweden
Tel +46-54-700 10 00 Fax +46-54-700 14 60
information@kau.se www.kau.se