



Faculty of Technology and Science
Mechanical Engineering

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Technology and Science on 21 April 2008, and is valid from the Spring semester of 2008 at Karlstad University.

Course Code: MSGC12

Degree Project for Degree of Bachelor of Science in Innovation and Design Engineering, 22.5 ECTS

Credits

(Examensarbete för högskoleingenjörsexamen i innovationsteknik och design, 22.5 Swedish credit points)

Degree Level: Bachelor

Progression Level: C

Language of Instruction

Swedish

Prerequisites

112.5 ECTS credits completed on the Innovation and Design Engineering programme.

Major Field of Study

Mechanical Engineering

Learning Outcomes

The aim of the course is that students acquire the ability to:

- apply the work method of an engineer and industrial designer in a product development project, or a product and service development project
- carry out an independent project and present it orally and in writing, as well as critically evaluate the work of others.

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

- identify, formulate, and delimit problems
- apply the knowledge and skills acquired during the course of studies on problems within the chosen field
- independently plan, carry out, and document a product development project or product and service development project
- present the result orally and in writing, and adapted to a target audience
- document their own work in a report in accordance with engineering- and scientific praxis
- review and give feedback on product development projects or product and service development projects, as well as to be able to evaluate received comments on their own work.

Content and Form of Instruction

The course work is done in project form, individually or in groups, under the supervision of teachers from the university. In the case where students collaborate on a larger project, the individual contribution and area of responsibility must be clearly defined in the initial stage of the project. The degree project provides the students with the opportunity to develop advanced knowledge in the field of innovation and design.

The course contains:

- supervision
- intermediate presentation
- final presentation
- exhibition
- opposition to the project report of another group/student

Reading List

See separate document.

Examination

Examination is based on the assessment of mandatory attendance and active participation in the intermediate and final presentations, opposition, degree project exhibition, and on the documentation of the project in the form of a written report.

Grades

One of the grades Fail (U) or Pass (G) 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, ref. C2007/368, stipulate the obligations and rights of students and staff.

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