



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 Autumn semester of 2007 at Karlstad University.

Course Code: MSGC17

**Degree project of Bachelor of Science in Mechanical Engineering, 22.5 ECTS Credits
(Examensarbete för högskoleingenjörsexamen i Maskinteknik, 22.5 Swedish credit points)**

Degree Level: Bachelor

Progression Level: C

Language of Instruction

Swedish

Prerequisites

Pass grades on a minimum of 75% (112.5 ECTS Credits) of the courses of the program.

Major Field of Study

Mechanical Engineering

Learning Outcomes

The purpose of the course is that students shall:

- apply engineering principles in identifying, formulating, and solving a technical problem
- conduct an independent project to be presented orally and in writing, as well as to critically evaluate the work of others.

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

- identify, formulate, and delimit problems and apply the methodology of the chosen subject field
- apply the knowledge and skills obtained during the course of studies on problems within the chosen subject field
- plan their own work and set partial objectives
- present their work in a written report meeting the requirements on content, structure, and language according to technical standards
- give oral presentations meeting the requirements on keeping within a given time limit, intelligibility, delivery, and illustrations
- review and give feedback on a project in the same technical field as well as to be able to evaluate the feedback received on their own projects.

Content and Form of Instruction

The course work is done in project form, either individually or in groups, and the projects are supervised by instructors from the university. In case students collaborate on a larger project, the individual contribution and area of responsibility shall be clearly defined at the commencement of the project. The degree project will provide students with the opportunity to deepen their knowledge of the chosen subject field.

Reading List

See separate document.

Examination

The course is examined through the documentation of the project in the form of a written report. It is normally written in Swedish with an English summary. It can, however, be written in English or another language upon agreement with the examiner of the course. In the latter case, it should have a Swedish title and summary in Swedish.

Participation in the final seminar where the projects are presented is obligatory. Besides presenting their own projects, students shall also function as opponents on another degree project.

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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