



Faculty of Technology and Science
Materials Engineering

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Technology and Science on 15 June 2011, and is valid from the Spring semester of 2008 at Karlstad University.

Course Code: MTGC11

Degree Project for Bachelor of Science in Mechanical Engineering, 15 ECTS Credits
(Examensarbete för kandidatexamen i maskinteknik, 15 Swedish credit points)

Degree Level: Bachelor

Progressive Specialisation: G2E (First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree proj. for B.A./B.Sc.)

Language of Instruction

Swedish or English

Prerequisites

Completed 120 ECTS credits of which 60 ECTS credits are in mechanical engineering including material science courses.

Major Field of Study

MTA (Mechanical Engineering)

Learning Outcomes

Knowledge and understanding

For a satisfactorily completed degree project students should be able to:

- demonstrate specialised knowledge in the chosen specialisation area of engineering.

Skills and abilities

For a satisfactorily completed degree project students should be able to:

- demonstrate the ability to critically and independently deal with a given mechanical engineering problem,
- demonstrate the ability to plan and carry out tasks with an assigned method within a given time limit,
- demonstrate the ability to critically and systematically integrate knowledge and skills acquired in previous courses in the solving of a mechanical engineering problem,
- demonstrate the ability to give a clear account of and discuss their results and the knowledge and the arguments on which these are based, orally and in writing,
- perform information searches and independently identify relevant information,
- writing the report in accordance with standard scientific practice in terms of disposition and formal aspects as well as correct referencing.

Judgement and approach

For a satisfactorily completed degree project students should be able to:

- assess another degree project or equivalent in regard to the use of relevant scientific and ethical aspects.

Content and Form of Instruction

Students carry out a project, individually or in groups. In the case of several students collaborating on a major project, the individual contributions and areas of responsibility must be clearly announced at the start of the project.

This is an independent project and students are required to run, control, complete and present the project.

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

Reading List

See separate document.

Examination

Assessment is based on the submitted documented, individual report normally written in Swedish with a summary in English. It can also be written in English. Reports written in a language other than Swedish must have a Swedish title and a summary in Swedish.

The final seminar at which the degree project is presented orally is mandatory. Students are also required to review and discuss another degree project.

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 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.

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