



Faculty of Technology and Science  
Mechanical and Materials Engineering

## Syllabus

### Course Approval

The syllabus was approved by the Faculty Board of Technology and Science on 3 April 2012, and is valid from the Spring semester of 2010 at Karlstad University.

**Course Code:** MSGC55

**Vehicle Engineering II, 7.5 ECTS Credits**

**(Fordonskonstruktion II, 7.5 Swedish credit points)**

**Degree Level:** Bachelor

**Progressive Specialisation:** GXX (First cycle, in-depth level of the course cannot be classified)

### Language of Instruction

Swedish

### Prerequisites

Engineering programme courses totalling 90 ECTS cr and the course Vehicle Engineering, 15 ECTS cr

### Major Field of Study

MTA (Mechanical Engineering)

### Learning Outcomes

The aim of the course is that students develop the competence required to lead and complete a development project entailing a specialisation in a vehicle engineering area.

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

- initiate a development project by identifying, formulating and delimiting an appropriate problem,
- plan and carry out a development project within the frames of the FSAE rules and time plans,
- independently search for, evaluate and use information and scientific expertise material with relevance to the chosen problem,
- document and present the project orally and in writing.

### Content and Form of Instruction

The course is in the form of a vehicle engineering project. The course involves a specialisation connected to the project in one of the areas the environment, project management, design or production with an emphasis on improvement and development. The problem is chosen in consultation with the examiner and instruction is in the form of project supervision.

### Reading List

See separate document.

### Examination

Assessment is based on two written reports and oral presentations.

#### Grades

One of the grades U (Fail), G (Pass), or VG (Distinction) 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