MF2090 Internal Combustion Engines, Project Work 6.0 credits

Förbränningsmotorteknik, projektarbete

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

On 2020-04-21, the Dean of the ITM school has decided to establish this official course syllabus to apply from autumn term 2020 (registration number M-2020-0791).

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

MF2047 Internal Combustion Engines 1

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After passing the course, the students should be able to:

- Find and understand research literature
- Set up an experimental design
- Carry out safe and reliable experiments or model studies
- Solve problems in an experimental environment or a simulation environment
- Analyse data and present their understanding orally and in writing

Course contents

The students work alone or in small groups, with a well-defined sub-project, within an ongoing research or development project. The contents intend to give a good basis for development, production and application of piston engines with internal combustion, with a focus on diesel and Otto engines. The work is led by a supervisor.

Examination

- SEM1 - Seminar, 3.0 credits, grading scale: P, F
- INL1 - Hand in Exercise, 3.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

INL1 3 credits (Written report)

SEM1 3 credits (Oral presentation)

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.