



ML2111 Distribution System 7.5 credits

Distributionssystem

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

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

Establishment

Course syllabus for ML2111 valid from Autumn 2014

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Mechanical Engineering

Specific prerequisites

Higher education equivalent to at least 120 credits and documented proficiency in Swedish B and English A or the equivalent.

Language of instruction

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

Intended learning outcomes

After this course, the student should be able to:

- Identify relevant aspects at choice of distribution methods and evaluate different distribution methods with respect to these aspects
- Explain the need of environmental measures within the transport sector and identify possible measures and compare the effect of these
- Formulate and solve route optimization problems
- Identify important aspects at localisation and be able to formulate and solve optimization problems for supporting localisation decisions
- Analyse the need for different technical aids at transportation and storage
- Present a project orally and in writing with requirements on structure, reference management and language

Course contents

- transportation of goods
- infrastructure
- intermodal transportation
- intelligent transport systems
- economical driving
- city logistics
- Objectives of transport policies
- Ecological and Carbon footprint
- localisation and route optimization

Disposition

lectures

project

In the course can also be included: guest lecture, seminar, study visit and laboratory exercise

Course literature

Lumsden, K. (2012) Logistikens grunder. Studentlitteratur.

Examination

- PRO1 - Project, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, 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.

Other requirements for final grade

PRO1 – Project assignment, 3.0 credits, grading scale: A-F

TEN1 - Examination, 4.5 credits, grading scale: A-F

Grade is weighted according to the weight of the examination parts.

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.