



# ML2112 Production Logistics

## 7.5 credits

Produktionslogistik

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

### Establishment

Course syllabus for ML2112 valid from Autumn 2017

### 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

On completion of the course, the student should be able to:

- Explain how the material supply process is built up and how different IT systems can support the activities
- Design advanced forecasts and estimate errors
- Compare and dimension various types of operational control of storage and production
- Analyse and be able to assess which strategy that is appropriate under different preconditions
- Describe the concept of Lean and evaluate which Lean tool appropriate in different realistic situation, and apply that tool
- Explain the arguments behind the aims in Theory of constraints (TOC) and how these can be applied

# Course contents

- Material supply
- Forecasts
- Inventory management
- Production planning
- Lean
- Theory of Constraints

# Disposition

- Lectures
- Company visits
- Laboration
- Seminars
- Lessons

# Course literature

- Goldratt, E.M. (1998) Målet – en process av ständiga förbättringar. Akvedukt bokförlag.
- Modig, N. & Åhlström, P. (2012) Detta är lean: lösningen på effektivitetsparadoxen. Stockholm School of Economics
- Jonsson, P. & Mattson, S-A (2016), Logistik – Läran om effektiva materialflöden, Studentlitteratur, ISBN 978-91-44-11077-6
- Utdelat material

## Examination

- INLA - Assignment, 2.5 credits, grading scale: A, B, C, D, E, FX, F
- TENA - Written examination, 2.5 credits, grading scale: A, B, C, D, E, FX, F
- LABA - Laboratory Work, 2.5 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.

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

## Other requirements for final grade

approved examination  
passed laboratory work  
passed written assignments

Final grade is a weighted average of the grades received on parts of the course.

## 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.