



# ME2054 Purchasing & Supply Chain Management 6.0 credits

## Inköp & Supply Chain Management

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

The head of ITM school determined on 11/04/2019 to establish this official course syllabus to apply from autumn term 2019 (registration number M-2019-0773).

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Industrial Management

## Specific prerequisites

Satisfies the requirements for a Degree of Bachelor

ME1003 Industrial Management or ME1314 Introduction to Industrial Engineering and Management

Completed Documented knowledge in English B 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 passing the course, the students should be able to:

1. describe and explain the role of the purchasing function within the management of transport and operations
2. use mathematical models for optimising purchasing costs
3. use mathematical models to suggest best portfolio of suppliers and strategies for relationship management
4. apply costing models to analyse purchasing costs and evaluate strategies for the supply chain
5. analyse, synthesise and explain how different types of organizational structures can influence purchasing and other managerial functions in the supply chain.
6. in detail describe topic of one's own choice from the course e.g. measurement of the supplier's performance, risk management, sustainable purchase and pricing etc
7. through analysis of the subjects that are treated in the course illustrate and formulate a relevant research question
8. through a systematic literature search in the area of purchasing identify relevant theories from previous studies
9. create a framework that synthesises the identified theories from the examined literature

## Course contents

The course covers the following fields:

- The bases of supply chain management and its consequences for the purchasing function.
- Make or buy decision.
- Kraljic portfolio matrix.
- E-purchasing.
- Qualitative and quantitative methods for suppliers evaluation and selection.
- Supply management by means of performance measurements.
- Organizational structures for purchases and control of the supply chain.
- Contract in supply chains.
- The supplier's risk management.
- Cost analysis and pricing.
- Porters five forces.
- Total Cost of Ownership.

- Corporate Social Responsibility and sustainability in purchases, outsourcing, supplier selection and monitoring.

## Examination

- PRO1 - Project, 2.5 credits, grading scale: A, B, C, D, E, FX, F
- SEM1 - Seminar, 3.5 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.

## 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.