



ME2065 Operations and Supply Chain Strategy 6.0 credits

Produktion och Supply Chains

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

Establishment

Course syllabus for ME2065 valid from Autumn 2014

Grading scale

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

Education cycle

Second cycle

Main field of study

Industrial Management

Specific prerequisites

- Requirements for studies on advanced level
- Basic course in Industrial management (e.g. ME1003, or corresponding)
- Registration on the master program TINEM.

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 participant should be able to:

- Describe why and how operations and supply chain can be designed to enhance the competitiveness of modern industrial firms.
- Describe operations and supply chain management as an academic field and explain basic concepts of the field.
- Describe what economic trade-offs and compromises required in operations systems and supply chains, and what tools and models that can be used for such analyses in the pursuit of value creation.
- Describe the philosophy of lean manufacturing, and explain how it is used in practice.
- Describe what possibilities and barriers that may appear in industrial continuous improvement work, and state advantages and drawbacks of different change strategies.
- Discuss effects of globalization on operations and supply chain management
- Apply methods for analyzing operations and supply chains, aiming at identifying improvement areas from technical, economical and organizational perspectives.
- Present and defend written and orally presented analyses and recommendations based on cases.

Course contents

The importance of operations and supply chain management in competitive companies. The course consists of lectures, seminars and group projects on strategy development and implementation. Examples of covered areas are corporate strategy, operations strategy, configuration of supply chains, lean production, capacity strategies, technology choice, organization, continuous improvements, sustainable operations and balanced scorecard. The content is based on current research in the field.

During the seminars the students present and defend their analyses of cases. The cases focus on application of relevant tools, methods and academic models.

Disposition

Lectures for theoretical content

Cases and seminars for application of theory and practical connection to manufacturing industry.

Course literature

Vetenskapliga artiklar kopplade till varje föreläsning (totalt 20-25 st) //

Scientific articles related to each lecture (20-25 in total)

Examination

- SEM1 - Seminars, 1.0 credits, grading scale: P, F
- TENA - Examination, 5.0 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

Written examination and pass on seminar assignments.

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.