



ME2501 Perspectives on Industrial Management 6.0 credits

Perspektiv på Industrial 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

Course syllabus for ME2501 valid from Autumn 2017

Grading scale

P, 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 TINEM master program

Language of instruction

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

Intended learning outcomes

After the course the students will be able to:

- Explain and discuss the difference between "problem solving" and "problem formulation" in the handling of industrial challenges.
- Explain and critically discuss the meaning of, and relationship between, key theoretical areas and perspectives in the field of industrial management
- Independently and in groups formulate and define problems to address complex management problems in industrial and technology intensive activities using data from different types of sources.
- Independently and in groups apply theoretical concepts, frameworks and methods related to the field of industrial management on activities in different industries to analyze and propose solutions to different industries in order to analyze industrial challenges (through case-based data)
- Investigate, analyze and assess the specific challenges and circumstances related to management, gender, diversity, sustainable development, globalization and technology development.
- Write academic reports and orally present findings and recommendations for different groups
- Systematically and reflectively evaluate their own work and learning in the course.
- Critically reflect on their own learning in relation to future management and leadership roles in industry.

Course contents

By applying a systems perspective on Industrial management the course offers insight into the scope of the field, the coherence between its various parts as well as clarification of the links between technology and management.

Within each of the three perspectives, students meet researchers from the Department of Industrial Economics and Management who present their own research.

In addition, the concept of sustainability is introduced in relation to the subject area of Industrial management.

Disposition

The structure of the course is based on lectures and seminars founded on theoretical and practical approaches to handle challenges in the field of industrial management. Key components in the course are guest lectures from industry and a study visit.

The course consists of the following building blocks:

- Introduction to the field Industrial management
- Industry Perspective on Industrial management (including a case-study)

- Functional Perspectives on Industrial management (including a case-study)
- Individual Perspectives on Industrial management (including a case-study)
- Industrial sustainability activities (including field trips with accompanying guest lecture)
- Management perspective (including guest lectures)
- Equality and diversity (including guest lectures)

Course literature

Scientific articles, reports and case-study assignments to be distributed throughout the course (approximately 10 academic articles, a scientific report in the form of a master thesis, and a minor literature study related to the case studies).

Examination

- INL1 - Written Assignment I, 1.0 credits, grading scale: P, F
- INL2 - Written Assignment II, 1.0 credits, grading scale: P, F
- INL3 - Written Assignment III, 1.0 credits, grading scale: P, F
- INL4 - Written Assignment IIII, 1.0 credits, grading scale: P, F
- PRO1 - Project Work, 2.0 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.

Other requirements for final grade

Note! The first two weeks of the course includes mandatory activities.

Pass on all assignments and project work as well as active participation in discussions, group work, seminars related to case studies, and participation in the field trip.

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.

