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 2010

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Industrial Management

Specific prerequisites

Specific entrance requirements according to eductations at KTH. Basis course in Industrial management (e.g. ME1001, or corresponding).

Language of instruction

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

Intended learning outcomes

The main goal of the course is to provide the student with the ability to understand and explain the cohension among central areas within the field of Industrial management. Furthermore, the goal is to give the student the abilities of practically handle a numer of tools in order to analyze and conduct problem solving related to this fild - with a specific focus on the interplay between technology and management. In addition, provide the ability to critically evaluate theories and models based on specific challenges related to industrial and technology intensive organizations, such as high pace of change, gender equality, and the globalization of markets. This means that after the course the student should be able to:

- Understand and explain the meaning and cohesion among central theortical areas within the field of industrial management.
- Understand and explain specific challenges and conditions for e.g. management, control, and development of industrial and technology intensive organizations.
- Apply theoretial concepts related to the field on businesses and organizations in different industries, as well as on businesses in cace studies.
- Implement and pratically handle a number of tools for analysing and solve problems based on case studies.
- Critically evaluate, compare, and give perspecitves on specific challenges and fundamental theories and models that are used within the field of Industrial management.

Course contents

The course consists of lectures structured around practical approaches to problems. These are followed by discussions concerning theoretical foundations as well as the introduction of case studies that provide materials for analysis and the presentation of results in written assignments. Furthermore, the course contains a study visit linked to a larger project work and a written project report. More specifically the course covers:

- A historic overview covering the development of the field Industrial management.
- Perspecitves, approaches to problems, and analysis concerning industrial and technology intensive organizations, which is related to a number of central areas treated within the master program Indusrtrial management, such as:
  - Industrial and technical change processes, innovation processes.
  - Value chains, operations, and supply-chain strategies.
  - The company's strategy, surrounding environment, and market.
  - Leadership, change management, and gender.
- Study visit related to change management.

Disposition

The course consists of lectures and case studies relate to the lectures as well as a study visit.

Course literature

Articles, reports, and Case assignments distributed during the course.

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

Pass grading on all assignments, the project work report as well as actively participation in discussions and seminars regarding case studies and participation in the study visit. Criteria for grades will be announced at the start 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.