



# ME2016 Project Management: Leadership and Control 6.0 credits

## Project Management: Leadership and Control

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 ME2016 valid from Spring 2010

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Industrial Management

## Specific prerequisites

6,0 hp in a basic course in Industrial Management, or similar.

Documented proficiency in English B or equivalent.

## Language of instruction

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

## Intended learning outcomes

The overall aim of the course is to give participants comprehensive knowledge on project management in different types of industrial operations. After passing the course successfully, the student shall be able to participate in industrial project work in their respective technological areas.

After passing the course, the participant should be able to:

- Describe why and how Project Management can be used to enhance the competitiveness of modern industrial organizations
- Describe the structure of Project Management as a field of knowledge and explain basic concepts of the field
- Describe the main characteristics and differences of/between industrial delivery projects, product development projects and internal development projects.
- Formulate project goals that are realistic, solution-neutral and evaluable
- Use tools such as WBS/PBS, OBS, Gantt and PERT/CPM for detailed time planning of a project, and also be able to choose what tools that should/should not be used
- Describe basic stage-gate models such as PROPS or PPS
- Describe a theoretical risk management process and use simplified tools such as Minirisk
- Describe a project budgeting process and explain the use of Earned Value Management
- Explain the relation between projects and permanent organizations, and describe what different solutions that exist in order to alleviate the problems inherent in that relation
- Explain the relation between projects and their external environments and apply a stakeholder management process to a specific project
- Describe the main tasks and responsibilities of project managers
- Analyse a real life project by means of Project Management concepts and tools, and give recommendations on how to improve the management of that project

## Course contents

The course is focused on planning and control activities in contract-based projects and change projects in several industrial areas. The established project management theory is compared to a number of cases. Starting by providing a basic understanding of the project management discipline and profession, the course goes on to topics such as project planning, project organising, management control and project leadership. A major term paper task will be carried out in the form of an empirical study of a real life project. Guest lecturers from industry will provide their views of practical project management.

## Course literature

Will be announced in the course PM.

## Examination

- SEM1 - Seminar, 3.0 credits, grading scale: P, F
- TEN1 - Examination, 3.0 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.

## Other requirements for final grade

Written exam, participation in seminars, Group project report.

## 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.