



# 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.

## Establishment

Course syllabus for ME2016 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

Minimum 6,0 hp in a basic course in Industrial Management, or equivalent,  
and 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

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

- Describe the structure of Project Management as a field of research-based knowledge and explain basic concepts and research directions of the field
- Describe why and how Project Management can be used to enhance the competitiveness of modern industrial organizations
- Describe the main characteristics and differences of/between various types of technology-intensive projects, such as industrial delivery projects, product development projects and internal development projects.
- Formulate project goals that are user-focused, 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 and their usage in industrial and technology-intensive settings
- Describe basic methodologies for agile project management such as SCRUM and their usage in industrial and technology-intensive settings
- 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 in industrial and technology-intensive settings, 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 in industrial and technology-intensive settings
- Formulate and analyse practical problems in industrial operations by means of project management models and theories, and use these models and theories to provide recommendations on how the management of a project can be prepared, implemented and improved.

## Course contents

The course is focused on planning and control activities in contract-based projects and change projects in technology-intensive organizations. The established research-based project management discipline is compared to the practicalities of project-based industrial operations and research-intensive environments through a series of cases and practical examples. Environmental and contextual aspects of project management are emphasised, as is the role of project sponsors in the project process.

## Disposition

The course is based on lectures, guest lectures, seminars and project work.

## Course literature

Grundläggande lärobok samt 10 artiklar som representerar såväl klassisk som nyare forskning inom projektledningsfältet. Meddelas i kurs-PM.//

Course book and at least 10 classic and contemporary research articles. 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.

If the course is discontinued, students may request to be examined during the following two academic years.

## Other requirements for final grade

Pass on written exam, participation in seminars, group project report and individual reflection paper.

## 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.