



# ME2016 Project Management: Leadership and Control 6.0 credits

## Project Management: Leadership and Control

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Course syllabus for ME2016 valid from Autumn 14

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

**Grading scale:** A, B, C, D, E, FX, F

**Education cycle:** Second cycle

**Main field of study:** Industrial Management

### 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 main content

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.

## **Language of instruction**

Language of instruction is specified in the course offering information in the course and programme directory.

## **Eligibility**

Minimum 6,0 hp in a basic course in Industrial Management, or equivalent, and documented proficiency in English B or equivalent.

## **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

## **Requirements for final grade**

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