ME1306 Industrial Project Management 7.5 credits

Industriell projektledning för I

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

Establishment

On 2024-10-15, the Director of First and Second Cycle Education at the ITM School has decided to establish this official course syllabus to apply from spring term 2025 (registration number M-2024-1854).

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Participation in ME1314 Introduction to Industrial Engineering and Management

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 student shall be able to:

1. Account for the relation between project organisations and permanent organisations, and describe solutions to the problems related to structure, power and culture that often arise in this relation,

2. Formulate and analyse practical problems in industrial activities by means of the tools of project management science and theoretical models,

3. Recommend how the management of a project can be prepared, carried out and continuously developed,

4. Describe the main tasks and the areas of responsibility for the project management over the whole life cycle of the project, in industrial and technology-intensive environments and how leadership can be exercised,

5. Reflect on the science of project management from both a practical and a scientific perspective,

6. Analyse how learning and development of knowledge take place in the project management field, both for the individual and the organisation.

Course contents

The project management science is a practically and scientifically emerging knowledge field whose practitioner must be able to handle complex assignments with focus on technology, finance, sustainability, intersectionality, ethics and social progress. The project is a working method that in several ways complements and differs from classical methods for industrial organisation, while it is well-established in both classical and contemporary research about organisation, leadership and management. A project is a structural solution to handling of temporary and unique assignments, which a focus on both sequential and agile planning and follow-up. However, the management and control of the project also requires insights that are retrieved from the general organisational research; an understanding of human resource management, political processes, company culture and leadership.

The course focuses on management and working methods in business, development and innovation projects in industrial enterprises. The project form and its use are anchored in the organisation, leadership and management research. During the course, the structural theory of project management is compared to political and cultural perspectives and case studies. Major emphasis is placed on how the surrounding world conditions influence the project management, as well as on the client role and handling of stakeholders.

Examination

- PRO2 - Project plan, 2.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN3 - Digital exam, 2.5 credits, grading scale: A, B, C, D, E, FX, F

- INL2 - Assignment, 2.0 credits, grading scale: P, F
- INL3 - Assignment, 1.0 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.

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

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.