



FME3553 IEM: Research Frontiers and Theoretical Foundations 7.5 credits

Industriell ekonomi: forskningsfronter och teoretiska grunder

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

Establishment

Course syllabus applies from Spring semester 2024 according to ITM School decision on 2023-11-27, M-2023-2436.

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

The course is eligible for doctoral students in one of the following doctoral programs/post-graduate subjects:

- Industrial Economics and Management at KTH
- Industrial Management and Organization at Mälardalen University
- Industrial Engineering at Uppsala University

If there are space available, doctoral students from equi-valent subject areas at other universities are welcome

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 have acquired skills and knowledge:

1. To be able to describe the subject area of Industrial Engineering and Management (IEM), in Swedish “Industriell ekonomi”, and its historical development
2. To be able to describe the ongoing research in IEM at the participating institutions
3. To understand which central theoretical foundations and new perspectives this research is based on
4. To reflect independently on IEM as an academic subject area and its relationship to other related fields
5. To relate and connect own research with IEM as an academic subject area

Course contents

The course is a joint introduction and orientation course to research in Industrial Engineering and Management (IEM) in the broad sense in the Nordic region. The course aims:

- To provide an orientation on the ongoing research in the subject area at KTH, Mälardalen University (MDU) and Uppsala University (UU).
- To show important theoretical foundations and new perspectives on which the ongoing research is based.
- To create a common identity of industrial engineering and management as a postgraduate subject
- To strengthen the regional network within the subject of industrial engineering and management

Examination

- SEM1 - Presentation, 2.0 credits, grading scale: P, F
- INL2 - Hand-in assignment, 2.5 credits, grading scale: P, F
- DEL1 - Active participation, 3.0 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.