



# ME1313 Industrial and Technical Transformation 6.0 credits

## Industriell och teknisk omvandling

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

On 11/04/2019, the Dean of the ITM school has decided to establish this official course syllabus to apply from spring term 2020 (registration number M-2019-0794).

## Grading scale

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

## Education cycle

First cycle

## Main field of study

Technology

## 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 students should be able to:

1. describe and explain theories and models that are used in the research field industrial dynamics
2. describe and explain the dynamic development processes in the Swedish industrial policy development
3. explain models and concepts in strategic management of technological innovation work
4. apply theories, models and concepts in a given empirical context experiencing industrial transformation
5. describe and explain mechanisms and dynamic processes behind industrial and technological transformation
6. critically reflect on a given analysis approach, analysis and its conclusions

## Course contents

The course intends to provide knowledge of mechanisms and dynamic processes behind industrial and technological transformation. To achieve this, the course is built-up around three modules:

- Lectures that should help the students to understand and be able to apply theories and models.
- Assignments to learn to apply models and be able to critically reflect on analyses.
- Seminars to help the students to reflect, discuss and debate their solutions to given questions and problems.
- Written examination in the form of a test and a project report.

## Specific prerequisites

ME1314 Introduction to Industrial Engineering and Management completed

Participated in ME1310 Economics for I

## Examination

- INL1 - Assignment, 2.0 credits, grading scale: P, F
- TEN1 - Examination, 4.0 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.

## 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.