ME2067 Industrial Transformation and Technical Changes (ITTEC) 6.0 credits

Industriell omvandling och teknisk förändring (ITTEC)

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

Course syllabus for ME2067 valid from Spring 2011

Grading scale

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

Education cycle

Second cycle

Main field of study

Industrial Management

Specific prerequisites

Enroled for Master in Industrial Management, TINEM from Autumn 2010 and after, and ME2501 Perspectives on Industrial Management.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The aim of the course is to

- deepen the knowledge on the mechanisms behind industrial and technical change/transformation with a focus on the management (and policy) aspects of structural change, innovation processes and shifts of technologies
- make the students familiar with the research frontier within the above mentioned knowledge areas

Course contents

The course starts with a condensed summary of the theories (economic and others) of industrial and technical change (transformation) as well as of innovation theory. The course is focused on "meso" level, i.e. on a systems level were the units of analyses are industries, technologies and technological and innovation systems rather than firms or parts of firms. That includes analyzing the context (conditions, climate) for industrial and technical activity. The course continues with combining case analyses - historical cases as well as actual cases selected by the students themselves - with theory to deepen the understanding of the dynamics of industrial processes - thus contributing to a solid ground for management (and policy) analyses and decisions

Course literature

The course contains research papers - original texts as well as secondary analyses of such texts - within the knowledge area. In addition the course may contain a textbook (like e.g. Utterback: Mastering the Dynamics of Innovation or Smith: Exploring Innovation). Individual course material may shift between years within the overall framework of the course content

Examination

- SEM1 - Seminars, 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.

A written examination. Parts of the examination may be performed in the form of a a group based homework presented and defended in a seminar. The final written examination may also be performed as a home examination.

To pass the student must participate actively in seminars organizad during the course. The amount of seminars may differ between years (normally 1-3)

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.