



ME2033 Industrial Dynamics and Technical Change 6,0 hp

Industrial Dynamics and Technical Change

När kurs inte längre ges har student möjlighet att examineras under ytterligare två läsår.

Fastställande

Kursplan för ME2033 gäller från och med HT07

Betygsskala

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

Utbildningsnivå

Avancerad nivå

Huvudområden

Industriell ekonomi

Särskild behörighet

Second level course ME2032/4D1053 from the Industrial dynamics track (or another equivalent course) plus at least another Second level course (at least 6hp) in industrial economics/management is compulsory for attending this course. Students following other programmes (e.g. Erasmus students) may apply for exemption.

Undervisningsspråk

Undervisningsspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

Lärandemål

The aim of the course is to:

- deepen the knowledge on the mechanisms behind industrial and technical change/transformation with a broad focus on the knowledge
- provide the students with knowledge on the research frontier in the area of industry, engineering, innovation and technology analyses, and evolutionary industrial processes.
- provide the knowledge base for qualified analyses of policies, strategies and processes related to industrial and technical change on many systems levels

Kursinnehåll

Assuming that the students have knowledge in industrial dynamics and are familiar with the dominant concepts and theories this course deepens the knowledge base so that students may independently analyse processes of industrial and technical change on different systems levels and relate them to their own technological activity. Innovation systems approaches are analyzed in theory and practice as are historical innovation processes as well as the development of generic technologies. Knowledge formation processes in industry and technology and related phenomena like technological paradigms, regimes and trajectories are analyzed.

The theoretical foundation for the course is innovation theory with strong connection to evolutionary and institutional economics. The course has a cross disciplinary character, however, with connection to disciplines like history and sociology of technology (like STS); economic history as well economic geography. In addition the course is based on theories of knowledge formation and learning in firms and technical systems.

The teaching consists of lectures and seminars. One seminar may be in the form of a study visit.

Kurslitteratur

Selection of 15 – 20 research papers or book chapters related to the syllabus

Examination

- SEM1 - Seminarier, 1,5 hp, betygsskala: P, F
- TEN1 - Tentamen, 4,5 hp, betygsskala: A, B, C, D, E, FX, F

Examinator beslutar, baserat på rekommendation från KTH:s handläggare av stöd till studenter med funktionsnedsättning, om eventuell anpassad examination för studenter med dokumenterad, varaktig funktionsnedsättning.

Examinator får medge annan examinationsform vid omexamination av enstaka studenter.

Övriga krav för slutbetyg

Active participation in seminars and approved delivery of seminar/working papers (SEM1, 1,5hp). Approved written final examination (may sometimes be in the form of a home examination) (TEN1, 4,5hp).

Etiskt förhållningssätt

- Vid grupparbete har alla i gruppen ansvar för gruppens arbete.
- Vid examination ska varje student ärligt redovisa hjälp som erhållits och källor som använts.
- Vid muntlig examination ska varje student kunna redogöra för hela uppgiften och hela lösningen.