



ME2034 Management of New Technology and Industrial Creativity 6,0 hp

Management of New Technology and Industrial Creativity

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

Fastställande

Kursplan för ME2034 gäller från och med HT07

Betygsskala

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

Utbildningsnivå

Avancerad nivå

Huvudområden

Industriell ekonomi

Särskild behörighet

At least 6 hp on first level courses in industrial economics or neighboring disciplines. That means that either ME1301/4D1124 or ME1005/4D1028 must be finished (preferably both). Students following other programs (eg. Erasmus students) may apply for exemption.

Undervisningspråk

Undervisningspråk 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 focus on the management aspects of these processes.
- * provide the students with knowledge on the research frontier in the area of management of innovation/technology
- * widen the innovation concept towards industrial creativity
- * provide the knowledge base for action in (management of) environments characterized by rapid industrial and technical change.

Kursinnehåll

Assuming that the students have basic knowledge in the economics of industrial and technical change this course focuses on the management aspects of those processes. Concepts like dominant design, various classifications of innovations (like architectural, modular or radical innovations) are introduced as are concepts related to learning, acquisition and the appropriability of technology. The innovation management concept is widened to include creativity and to include non manufacturing (service) sectors/activities. The role of venture capital and intellectual property rights in relation to the innovation management process is also analyzed.

The course is based on modern theory of management of innovation related to the new theory of the (resource based) firm and its dynamic capabilities. 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

Tidd, Bessant & Pavitt, latest ed., Managing Innovation

- * Utterback, 1996, Mastering the Dynamics of Innovation
- * Smith & Smith, latest ed. Entrepreneurial Finance (two chapters)
- * Sundbo, 2005, Contemporary Management of Innovation (one chapter)
- * distributed material

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 on 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.