



ME2713 Economics of Innovation 7.5 credits

Innovation och ekonomi

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 ME2713 valid from Spring 2018

Grading scale

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

Education cycle

Second cycle

Main field of study

Technology and Economics

Specific prerequisites

At least 120 cr of higher education, of which at least 30 cr within industrial economics/mathematics/economics/statistics, and documented knowledge in English B or the equivalent

Language of instruction

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

Intended learning outcomes

On completion of the course the students should be able to:

- Understand the meaning of concepts such as R&D, technology, technology dispersion, markets for technology, invention, innovation, productivity.
- Understand the importance of the innovation processes of the companies and the leverage effect that can be created by utilising industrial, regional and national innovation systems.
- Show ability to understand the often complex nature of the innovative activities
- Understand why funding of innovative activities can be a problem
- Understand why the private return on investment on innovative activities is often lower than the social return on investment
- Understand how innovative activities can be converted to new knowledge, technical changes and economical growth.
- Understand the importance of the globalisation for innovative activities.

Course contents

Observation, interpretation, measurement and understanding of R&D, innovation and productivity

- Creation and dispersion of technology and knowledge
- Risk and funding of innovative activities
- Innovation and technology policy

Course literature

Hall, B.H., Rosenberg, N. (2010), Handbooks in Economics: Economics of Innovation, North Holland

Examination

- TEN1 - Exam, 5.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Assignments, 2.5 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.

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.