Utbildningsplan

Masterprogram, innovations- och tillväxtekonomi
Master's Programme, Economics of Innovation and Growth, 120 credits
120,0 högskolepoäng

Gäller för antagna till utbildningen från HT11.

Utbildningens mål

The information is valid for students who started the program academic year 2011/2012. Later decisions may affect year 2 in the program. Please look at www.kth.se/studies/?l=en_UK for further information.

Innovation is a prime factor behind value creation, economic prosperity and employment growth. These processes take place at the level of enterprise, region and nation and will lead to new businesses as well as to increased competitiveness of the existing ones. The growing awareness of the importance of innovation among knowledge-based firms, financial markets and policymakers has created demand for a programme which integrates aspects of technology, economy, financing and other related areas.

Kunskap och förståelse

The programme is focused on the economic aspects of the innovation process, i.e. on the process of commercializing inventions. Innovations are created in a process of trying to solve production problems, to learn from experience, to find new and better ways of doing things, to profit from opening up of new markets, and sometimes just to satisfy curiosity. The intensity and direction of innovation activities are conditioned by laws, institutions, customs and regulations that affect their incentive and their ability to appropriate rents from newly created technologies. The Master Programme aims to provide students with the analytical tools derived from modern economic theories. They include developing, specialization, diversification and dissemination of ideas and knowledge, innovation activities, international competition, trade and growth. Another objective is to make the participants in the program familiar with applied techniques for analysing, measuring and predicting specialisation, trade flows and price patterns in the context of a global economy with dynamic competitive advantages and increasing returns.

Färdigheter och förmågor

The student should acquire a qualified training in understanding and solving complex problems in modern economics and in producing solid foundations for policy decision by knowledge-based firms, financial markets and policymakers.

Värderingsförmåga och förhållningssätt

The student should acquire an analytical view of thinking and a critical understanding of the relationship between innovation and growth and of its methodological and scientific issues.

Utbildningens omfattning och innehåll

The duration of the programme is two years and corresponds to 120 ECTS points – three semesters of course work (90 ECTS points) and one semester of Degree project (30 ECTS points). The education is at the advanced level. The literature and all other course material are in English, which also is the teaching language.
Behörighet och urval

The basic requirement for admission to a Master’s program at advanced level is a national university degree at basic level (first cycle) of at least 180 hp or an equivalent international degree.

Specific admission requirements

The specific requirements may be assessed as not fulfilled if

1. the average grade is in the lower third on the grading scale used (above pass level),
2. the degree awarding institution is not considered to meet acceptable quality standards by the authorities of the country in which the institution is located,
3. the degree does not qualify for admission to equivalent Master level in the country where the degree is awarded.

According to the specific eligibility requirements for Economics of Innovation and Growth, the Bachelor’s degree should be in economics, mathematics, statistics or engineering and include at least 30 ECTS points (or equivalent) in economics and/or mathematics and/or statistics. The students are required to be proficient in English, equivalent to English studies at upper secondary level (post-16) in Sweden, called English B. Equivalent knowledge in English can be verified through an internationally recognised test as for example:

- IELTS (an overall mark of 6.5 and no section below 5.5)
- TOEFL.

The selection process for Economics of Innovation is based on a total evaluation of the following selection criteria: university, GPA and course work related to the programme (economics, mathematics, statistics).

Utbildningens genomförande

Utbildningens upplägg

The Academic year in Sweden consists of an autumn and a spring term. More information on the structure of the academic year, semesters and other study periods can be found by using the link: http://www.kth.se/studies/calendar?l=en.

The academic year covers 40 weeks, starting in September divided into two terms, which each consists of two study periods (KTH-Handbook 2, Flap 4.2). Each study period concludes with a regular examination period of at least one week. In addition, three re-exam periods are scheduled – after New Year (January), after the regular examination period of study period 4 (June) and before the start of a new academic year (August).

The programme starts with four compulsory courses that provide fundamental tools for studying economics of innovation and conducting research projects. The first term also includes a non-compulsory course in mathematics. The second term comprises one compulsory and three non-compulsory courses that will deepen the theoretical and empirical understanding of economics of innovation and growth. In addition to these courses, a compulsory course in research methodology will be provided in close proximity to the master thesis work.

The remaining courses required can be chosen from the conditionally elective courses. The course in mathematics can also be added to the list of elective courses. The final term is devoted to the writing of a compulsory Degree Project.

Kurser

Utbildningen sker i kursform. Kurslistor finns i bilaga 1.

The programme is course-based. Lists of courses are included in Appendix 1.

The programme covers 120 ECTS points, including 45 ECTS points in compulsory courses, 45 ECTS points in eligible courses and a compulsory Degree Project corresponding to 30 ECTS points.
Betygssystem
För kurser på KTH används en sjugradig målrelaterad betygsskala A-F som slutbetyg för kurser på grundnivå och avancerad nivå. A-E är godkända betyg med A som högsta betyg. Betygen godkänd (P) och underkänd (F) används som slutbetyg då särskilda skäl föreligger.

All courses, including the Degree Project, are graded on a scale from A to F. A-E are passing grades with A being the highest grade. The grades pass (P) and fail (F) are used for certain tasks, like project assignments.

Villkor för deltagande i utbildningen
To be enrolled in the programme, you must be duly accepted into the programme with a valid admission letter issued by KTH Central Admissions Office.

With the enrolment, the student has submitted their intention of studying and participating in the programme. After that it is possible for the student to:

- register for courses,
- register for the term,
- get the academic record.

In addition to signing in as course participant at the beginning of a course and attending lectures, participation in class exercises and projects is a compulsory part of enrolling in any course.

Conditions for being promoted to the next level

For studies in study year 2: At least 45 ECTS points from study year 1 must be completed by the exam period in August. Students who have not fulfilled this requirement must set up an individual study plan. The main goal with the study plan is that the student should complete the remaining courses during the next study year. In the study plan, the remaining elements and also suitable courses from the next study year are included. Special regard should be taken to the courses prerequisites.

Tillgodoräknanden

The Royal Institute of Technology has a policy for recognising previous academic studies. The decision on recognising documented results from similar education at other universities is taken by the vice dean of education at the School of Architecture and the Build Environment upon application by the student.

Utlandsstudier

It is presently not possible for Master students at the Economics of Innovation and Growth to exchange semester one, two or three for studies abroad.

Examensarbete

The Degree Project (30 ECTS points) is compulsory in order to apply for a Master Degree at KTH. The prerequisite for starting the degree project is completed courses corresponding to 60 ECTS points. The Degree project is graded on a scale A-F, where A-E are passing grades with A as the highest grade.

Examen

Students who have successfully completed the programme will be awarded a "Degree of Master of Science (two years)" with a specialisation in Economics of Innovation and Growth. The student must apply for the degree certificate. All courses should be completed and reported before application. Documents to hand in to the Master administrator are: 1) The application form; 2) Attested photocopy of the previous university degree.

Bilaga 1 - Kurslista
Bilaga 2 - Inriktningsbeskrivningar

Utbildningsplan för Masterprogram, innovations- och tillväxtekonomi antagna från HT11.
### Bilaga 1: Kurslista

Masterprogram, innovations- och tillväxtekonomi (TEINM), Utbildningsplan för kull HT2011

#### Gemensamma kurser

**Årskurs 1**

**Obligatoriska kurser (37,5 hp)**

<table>
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<tr>
<th>Kurskod</th>
<th>Kursnamn</th>
<th>hp</th>
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<tr>
<td>AH2001</td>
<td>Microeconomics</td>
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<td>AH2002</td>
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<td>AH2004</td>
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<td>AH2011</td>
<td>Economics of Innovation</td>
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**Valfria kurser**

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<tbody>
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<td>Economic Geography</td>
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<td>AH2007</td>
<td>International Economics</td>
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<td>AH2008</td>
<td>Public Economics</td>
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<td>AH2009</td>
<td>Mathematics for Economic Analysis</td>
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<td>Avancerad nivå</td>
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<td>AH2015</td>
<td>Managerial Economics</td>
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<td>AH2020</td>
<td>Macroeconomics for Business</td>
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<td>Avancerad nivå</td>
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<td>AI2901</td>
<td>Finansiell ekonomi och marknader I</td>
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**Årskurs 2**

**Obligatoriska kurser (7,5 hp)**

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<td>AH2014</td>
<td>Theory and Methodology of Science</td>
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### Villkorligt valfria kurser

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<td>AH2010</td>
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<td>AH2012</td>
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<td>AH2013</td>
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<td>AH2018</td>
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<td>AH2019</td>
<td>Innovation och entreprenörskap</td>
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<td>Finansiell ekonomi och marknader II</td>
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<td>Avancerad nivå</td>
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### Kompletterande information

Mins 3 av de villkorligt valbara kurserna ska läsas.
Bilaga 2: Inriktningar

Masterprogram, innovations- och tillväxtekonomi (TEINM), Utbildningsplan för kull HT2011

Programmet har inga inriktningar.