Programme syllabus

Master's Programme, Industrial Management, 120 credits
Masterprogram, industriell ekonomi
120.0 credits

Valid for students admitted to the education from autumn 09 (HT - Autumn term; VT - Spring term).

This is a translation of the Swedish, legally binding, programme syllabus.

Programme objectives

Beyond the goals which are specified in the Higher Degree Ordinance, there are also specific goals for this programme.

A graduate from the programme must:

Knowledge and understanding

- Show a deep knowledge about established and newer theories and models within the area of Industrial Management and organisation as a complement to and a continuation of the earlier acquired technical and natural science knowledge
- Show a deep knowledge about establishing, managing, planning, follow-up, development, and termination of companies and other organisations based on strategic choices and how these choices affect the organisations efficiency and its stakeholders support and exchange
- Show a deep knowledge about scientific tools used to analyse, work with and evaluate facts, and about how knowledge develops in the region between technology, natural science and social science.

Skills and abilities

- Show the ability to, through perspective adoption, constructively and creatively reflect over, handle and solve technical, economical and organisational problems in industrial organisations each for their own as well as together and, then, also be able to set individual organisation and technologies in a larger organisational context.
- Show the ability to utilise theories within industrial management in practical contexts with regards to technical and natural scientific aspects and with regards taken to relevant scientific, professional and social judgements and approaches
- Show the ability to complete planning and management related assignments on different levels within modern and future technology-intensive companies individually, as well as in groups

Ability to make judgements and adopt a standpoint

- Show a reflective approach with regards to responsibility, ethics, equality, global balance, gender equality and ecological balance which are the conditions for today’s and tomorrow’s business organisations
- Show an analytical ability for a reflexive and critical thought process in relation to the established theories and practices, and to how knowledge develops within natural science, technology and social sciences

KTH’s local degree ordinance can be found in KTH’s guidelines www.kth.se

Extent and content of the programme

The programme comprises 120 higher education credits which correspond to two years of full-time study. The programme is primarily in the second cycle and starts once per year.
The language of instruction is English

Eligibility and selection

In order to be eligible for the Master’s programme, a relevant higher education degree, Bachelor of Science in Engineering, technical Bachelor, or other corresponding technical or natural scientific degree in the second cycle comprising 180 higher education credits is required.

Other studies or work experiences are judged by competencies referred to. For KTH’s programmes with English as the language of instruction, there is a special requirement of English B or the corresponding knowledge.

Selection into the programme is done by the programme’s scientific committee in collaboration with the admissions office at the respective institutions and in accordance with the directives which the European Commission provides for the Erasmus Mundus programme.

For more information, refer to KTH’s degree ordinance which can be found in KTH’s guidelines, www.kth.se

Implementation of the education

Structure of the education

Study years, terms, and study periods are described in KTH’s guidelines, www.kth.se

Structure of the education

The programme is carried out during four terms, where the first term is taken at UPM in Madrid, the second term is carried out at POLIMI in Como and the third term is carried out at KTH. During the fourth term, the students will carry out a degree project which is supervised by one of the above named universities. The first term’s courses can be described as fundamental within the area of Industrial Economy where the students are introduced to organisation theory economical management, marketing, and strategy.

The second term is focused within the area of "Operations Management". The courses comprise production, quality management, and supply chain management.

The third term mainly continues the knowledge development upon the foundation provided and the intention is to integrate the specialised knowledge from the second term to one unit. The term comprises advanced courses in economical management, marketing, project management, and entrepreneurship.

During the fourth term, the students apply their theoretical knowledge through work with their degree projects which preferably are done in cooperation with partners in the industry

Courses

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

Grading system

Courses in the first and the second cycle are graded on a scale from A to F. A-E are passing grades, A is the highest grade. The grades pass (P) and fail (F) are used for courses under certain circumstances.

Conditions for participation in the programme

Term enrolment

A condition in order to participate in the studies is that the student, each spring and autumn must enrol for the coming term. This is done through “Mina sidor”, between the 1st and 15th of November and the 1st and 15th of May, respectively.
By completing term enrolment, the student has confirmed their intention to study and participate in the programme. Only after that may the student be able to:

• Register for the term
• Register for courses
• Get reported results

**Course registration.**

Choice of optional courses (beyond the programme) is done in collaboration with the programme coordinator.

*In order for the student to be able to be promoted to the next coming term, it is required that the student has a maximum of 9 higher education credits remaining from the earlier term or totally.*

**Recognition of previous academic studies**

Students have the possibility to apply for recognition of previous academic studies from course(s) at another higher education institution or university, both national and international.

KTH’s entire policy for recognition of previous academic studies can be found in KTH’s guidelines, www.kth.se

**Studies abroad**

Students in the programme have the possibility to carry out the degree project in Europe.

**Degree project**

KTH’s rules for the degree project can be found in KTH’s guidelines, www.kth.se. Generally, a large portion of the studies must be completed before the degree project can be started.

**Degree**

In order to earn Degree of Master of Science in Industrial Economy (Two Years), passing grades in all courses which are included in the student’s study plan are required. The study plan must comprise 120 higher education credits which include a degree project consisting of 30 higher education credits, in the second cycle.

KTH’s local degree ordinance can be found at http://intra.kth.se/regelverk/

Appendix 1 - Course list
Appendix 2 - Programme syllabus descriptions
Appendix 1: Course list

Master's Programme, Industrial Management, 120 credits (TIMIM), Programme syllabus for studies starting in autumn 2009

General courses

Year 1

Year 2

Mandatory courses (60.0 credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME202X</td>
<td>Degree Project in Industrial Management, Second Cycle</td>
<td>30.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>ME2601</td>
<td>Industrial Project Management</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>ME2602</td>
<td>Human Resource Management</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>ME2603</td>
<td>Entrepreneurship</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>ME2604</td>
<td>Advanced Industrial Marketing</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
<tr>
<td>ME2605</td>
<td>Cost Management and Control</td>
<td>6.0</td>
<td>Second cycle</td>
</tr>
</tbody>
</table>
Appendix 2: Specialisations

Master's Programme, Industrial Management, 120 credits (TIMIM), Programme syllabus for studies starting in autumn 2009

This programme has no specialisations.