Programme syllabus

Master's Programme, Project Management and Operational Development, 60 credits
Magisterprogram, projektledning och verksamhetsutveckling 60.0 credits

Valid for students admitted to the education from autumn 13 (HT - Autumn term; VT - Spring term).

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

Programme objectives

In addition to the goals that are specified in the decree by the National Agency for Higher Education there are specific goals for this programme. The participant examined from this programme should...

Knowledge and understanding

- Being able to plan projects according to international standards
- Show knowledge about how variation and risk affects the project planning

Skills and abilities

- Function as a project manager even in large projects
- Develop the project management team
- Use the tools necessary for planning and executing projects
- Design stochastic models for simulating risks processes and project execution
- Take the responsibility as a sponsor for more than one project by having proven tools for follow-ups and a management system that really works
- Develop and implement the management system that serves its purpose
- Develop risk analysis with models suited for the purpose
- Act as project risk manager and company risk manager

Ability to make judgements and adopt a standpoint

- Show awareness about project standards and how they will give clear criteria to evaluate panning and performance of projects
- Be aware of the goals of society for resources, economy and environment
KTH local examination instructions are to be found in the KTH Management System, www.kth.se

**Extent and content of the programme**

The education comprises 1 year of full time studies equal to 60 ECTS credits.

Main part of the education is on advanced level.

The courses are given only in English.

**Eligibility and selection**

To be eligible to the programme the applicant must have at least a 3-year complete academic exam at BSc or BA level from a recognised university. The study courses are all but the two Project Management study courses, on advanced level.

This implies the applicant must have profound knowledge in Mathematical Statistics, Quality Control and Management. This could be either by academic training and courses or from practical experience.

The eligibility is not fulfilled if:

1. The University or University College in the native country of the applicant does not fulfil the requirements for giving the exam
2. The exam does not give eligibility to Master studies in the applicants native country

The admission is based on the following criteria:

1. The standard of the university for the BSc or BA
2. Level of education
3. Grading and results in the exam
4. Work experience relevant for the program

**Implementation of the education**

**Structure of the education**

The two tracks of the education are executed in parallel. The two tracks of the programme could be studied independently and it is irrelevant which track is taken first.

**Track 1**
Project Management (15 ECTS), Leadership for Operational Development (7.5 ECTS)

**Track 2**
Practical Statistics (7.5 ECTS), Advanced Risk Management (7.5 ECTS), Organisation and Management System (7.5 ECTS),

Followed by Degree Project (15 ECTS)
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.

Studies abroad

The master degree has no parts that preferably can be studied at any other university in Sweden or abroad. Since using, though, a web-based communication tool, some, but not all, of the work can be performed at any location in the world with access to www.

Degree project

The degree project yields 15 ECTS and is on advanced level.

For degree project:

- It can start only if at least 30 ECTS is finished and reported and the topic for the project is covered by a finished study course within the programme
- It may start only after the topic being accepted by the examiner
- It is founded in the knowledge obtained in the programme and should preferably be performed in spring semester
- It should be showing an independently performed assignment comprising a theoretical and/or experimental part followed by a report and a oral presentation
- The academic supervisor will be appointed by the examiner

Degree

In order to graduate Degree of Master (1 year) in Project Management and Operational Development the student must be approved in every course that is included in the student’s study plan. The study plan must consist of 60 credits including 15 credits of degree project work.

Reference to the local degree policy is available in the KTH-Regulations, www.kth.se

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

Master's Programme, Project Management and Operational Development, 60 credits (TPLVM), Programme syllabus for studies starting in autumn 2013

General courses

Year 1

Mandatory courses (60.0 Credits)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM2003</td>
<td>Leadership for Operational Development</td>
<td>7.5 hp  Second cycle</td>
</tr>
<tr>
<td>HM2004</td>
<td>Practical Statistics</td>
<td>7.5 hp  Second cycle</td>
</tr>
<tr>
<td>HM2005</td>
<td>The Organisation and the Management System</td>
<td>7.5 hp  Second cycle</td>
</tr>
<tr>
<td>HM2006</td>
<td>Advanced Risk Management</td>
<td>7.5 hp  Second cycle</td>
</tr>
<tr>
<td>HM200X</td>
<td>Degree Project in Project Management and Operational Development</td>
<td>15.0 hp Second cycle</td>
</tr>
<tr>
<td>ML2106</td>
<td>Project Management</td>
<td>15.0 hp Second cycle</td>
</tr>
</tbody>
</table>
Appendix 2: Specialisations

Master's Programme, Project Management and Operational Development, 60 credits (TPLVM), Programme syllabus for studies starting in autumn 2013

This programme has no specialisations.