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 10 (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 by the Higher Degree ordinance, there are also specific goals for this programme.

A graduate from this programme must:

Knowledge and understanding

- show knowledge and understanding for how quality assurance in projects is achieved. This includes implementing the American, but internationally known, ANSI 99 – 001 – 2000[1] and the international ISO 10006 which, both, are related to quality assurance in project management work.
- show knowledge and understanding for how variation and risk affect project planning

Skills and abilities

- show the ability to work as a project leader, even in large projects
- show the ability to use the FIRO technique for development of project management
- show insight into the critical factors for a formalised management system
- show the ability to use planning tools
- show the ability to build models for stochastic simulations and risk analyses
- show abilities in stochastic simulations
- show the ability to develop and implement a management system for project management or risk analysis
- show the ability to do risk analyses

Ability to make judgements and adopt a standpoint
• Show awareness about the ISO and ANSI standards which give participants clear criteria in order to evaluate planning and execution of projects

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

**Extent and content of the programme**

The programme comprises 60 higher education credits which corresponds to 1 year of full-time studies

The programme level is mainly in the second cycle

The programme is given only in English

**Eligibility and selection**

In order to be eligible for the programme, the applicant must have at least a 3-year Bachelor degree from a university or higher education institution. Beyond this, participants are required to have obligatory prerequisites within mathematical statistics on university level or practical experience of statistics work, or quality assurance work and courses in leadership (Management) or professional experience.

Eligibility requirements can be evaluated and judged as not fulfilled if:

The degree-giving educational institution does not fulfil the requirements its own country’s degree-awarding powers.

The completed degree is not eligibility-providing for a Master’s degree in the country where it was completed.

Selection is based on the following criteria in priority order:
Assessment of the university
Level of education
Grades in the Bachelor degree courses
Work experience relevant to the programme

**Implementation of the education**

**Structure of the education**

Each of the 6 courses awards 7.5 ECTS. The programme is structured so that there are two distinct specialisations which makes it possible to carry out the programme at half the speed of full-time studies. The specialisations are independent from each other and thus it is possible to choose either of them. Although, it is not suitable to switch specialisations since the latter portions of the specialisations are built upon the earlier elements.

*Track 1:*
Project Management 1 (7,5 ECTS), Project Management 2 (7,5 ECTS) and Leadership for Operational Development (7,5 ECTS)

Track 2

Practical Statistics (7,5 ECTS), Advanced Risk Management (7,5 ECTS) and The Organisation and Management System.

Followed by the degree project

**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**

When the programme is started in the second half of August, the students must be enrolled in the term and in the course. At the same time, a plan with the student’s choice of courses must be submitted.

The following courses can be started even if the earlier courses are not passed. The exemption is the degree project work, where at least 4 of the 6 courses must be passed in order to start.

**Course registration**

Since it is possible to divide the participation in the courses, course registration for each individual course is mandatory.

**Recognition of previous academic studies**

Courses taken after the fundamental eligibility-providing programme can, if they are in the same area and cycle or adjacent area, be recognized as a part of the Master’s degree. The student must apply for this.

**Studies abroad**

No portions of the programme can be taken at another university in Sweden or internationally. Although, thanks to [www-based communication tools](#), certain portions of the programme can be taken from an optional area of Sweden.

**Degree project**
The degree project must show that the student has understood the programme’s intention and message. This means that the subject area for the degree project must lie within the frame of reference which the programme encompasses.

Selection of area must be done in collaboration with the examiner. The degree project will be graded on the same grading system as the other courses, except for the grade “failed”. Instead, students will have the opportunity to correct and improve the degree project until the quality is deemed as acceptable.

**Degree**

In order to receive the degree, all portions of all courses must be passed and the degree project must be passed. The title of the degree is Master of Science in Engineering in Project Management and Operational Development (one year)

[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 2010

General courses

Year 1

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>HM1M06</td>
<td>Project Management I</td>
<td>7.5 hp</td>
<td>First cycle</td>
</tr>
<tr>
<td>HM1M07</td>
<td>Project Management II</td>
<td>7.5 hp</td>
<td>First cycle</td>
</tr>
<tr>
<td>HM2003</td>
<td>Leadership for Operational Development</td>
<td>7.5 hp</td>
<td>Second cycle</td>
</tr>
<tr>
<td>HM2004</td>
<td>Practical Statistics</td>
<td>7.5 hp</td>
<td>Second cycle</td>
</tr>
<tr>
<td>HM2005</td>
<td>The Organisation and the Management System</td>
<td>7.5 hp</td>
<td>Second cycle</td>
</tr>
<tr>
<td>HM2006</td>
<td>Advanced Risk Management</td>
<td>7.5 hp</td>
<td>Second cycle</td>
</tr>
<tr>
<td>HM200X</td>
<td>Degree Project in Project Management and Operational Development, Second Cycle</td>
<td>15.0 hp</td>
<td>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 2010

This programme has no specialisations.