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 14 (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 degree by the National Agency for Higher Education there are specific goals for this programme. The participant examined from this programme should...

Knowledge and understanding

- Demonstrate knowledge and understanding of how variation and risk affects the project
- Be able to plan projects in accordance with internationally recognized standards
- Demonstrate knowledge of how smaller and larger projects can be managed using project standards

Skills and abilities

- Demonstrate skills in the use of group development models for the development of project management
- Demonstrate an understanding of the critical factors for a formalized management system
- Demonstrate skills in the use of planning tools
- Demonstrate the ability to build models for stochastic simulation and risk analysis
- Demonstrate skills in stochastic simulation
- Demonstrate the ability to develop and implement a management system for project management or risk analysis
- Demonstrate the ability to do risk analysis

Ability to make judgements and adopt a standpoint

- Ability to be critical of theories and models on the topics project management and business development
- Have awareness of society's goals for resource management, economy and environment
KTH's local degree ordinance can be found in KTH's regulatory framework, 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 for the program, applicants must have at least a 3-year bachelor's degree from University or University College. This requires that the participant have mandatory previous knowledge in Mathematical Statistics at degree level or practical experience in statistical work, alternatively, quality assurance and courses in leadership (Management) or professional experience.
The eligibility requirements can be evaluated and considered not met if:

- The degree issuing Training Unit does not meet its national requirements on licensing
- The issued degree is not qualifying to a master training in their own country

The selection is based on the following criteria in order of priority:

- Valuation of the University
- Level of education
- Grades in courses in undergraduate degree
- Work experience relevant to the program

For more information, see KTH's admission regulations found in KTH's regulatory framework, www.kth.se.

Implementation of the education

Structure of the education

Academic year, semesters, study periods can be found in KTH's regulatory framework, www.kth.se

The program is structured so that it has two distinct tracks that make it possible to read the program as a part-time program. The tracks are independent of each other so it is irrelevant which track is taken first. However, it is not appropriate in the program to change tracks because later steps builds on previous knowledge from previous courses.

Track 1

Leadership for Operational Development (7.5 ECTS) Project Management (15 ECTS)

Track 2
The Organisation and Management System, Applied Industrial Statistics (7,5 ECTS), Advanced Risk Management (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.

Conditions for participation in the programme

When the autumn semester (HT) starts, semester registration is done in connection with the enrolment to the program. Course registration, on the other hand, is made by the student via the “personal menu” in www.kth.se

When the spring semester (VT) starts, the student is expected to carry out both semester registration and course registrations via the “personal menu” in www.kth.se.

The student must accomplish minimum 10 ECTS credits during the autumn semester to be permitted to attend the courses in the spring semester.

Recognition of previous academic studies

Students may apply to include credit results from course/courses at other higher education institution/university within or outside of the country. Registration form can be found on KTH's website www.kth.se.

Studies abroad

No parts of the program can be studied at other universities in Sweden or abroad. However, thanks to a www-based communication tools, some parts can be made from any location.

Degree project

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

- The degree project comprises 15 ECTS credits. At least 30 ECTS credits must be completed before start, and when final grade exists in relevant courses that concern the contents of the degree project
- It may start after the assignment has been approved by the examiner
- It is based on the knowledge that has been acquired during the studies and should normally be carried out during the spring semester
- It should constitute proof of an independent work comprising theoretical and/or experimental work with accompanying report writing and oral presentation
• The supervisor is appointed by the examiner

KTH's rules for degree projects can be found in KTH's regulatory framework, www.kth.se

**Degree**

In order to graduate Degree of Master (one 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 consists of the compulsory courses that the student has attended to and the degree project. The study plan should comprise at least 60 ECTS credits.

KTH's local degree ordinance can be found in KTH's regulatory framework, 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 2014

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>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, Second Cycle</td>
<td>15.0 hp Second cycle</td>
</tr>
<tr>
<td>ML2104</td>
<td>Applied Industrial Statistics</td>
<td>7.5 hp  Second cycle</td>
</tr>
<tr>
<td>ML2106</td>
<td>Project Management</td>
<td>15.0 hp Second cycle</td>
</tr>
</tbody>
</table>

Supplementary information

Course list: Information is based upon the curriculum for academic year 2014/2015 Changes may occur.
Appendix 2: Specialisations

Master's Programme, Project Management and Operational Development, 60 credits (TPLVM), Programme syllabus for studies starting in autumn 2014

This programme has no specialisations.