Programme syllabus

Technical Preparatory Year
Tekniskt basår, KTH Södertälje
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

The purpose of education is to broaden the skills of students who left secondary school without the special permission required for technical and scientific education.

The technical preparatory year is a professional pre-formation related to the basic engineering courses at KTH and to which the student is guaranteed a place from the beginning, provided by the approved technical preparatory year.

The technical preparatory year training adapted to the subsequent training and, in addition to the widening of the subject-specific skills also train the students ability for universities and higher education.

After the completion of professional education, the student should

Knowledge and understanding

- demonstrate knowledge in the scientific fields of mathematics, physics and chemistry

Skills and abilities

- demonstrate the capacity for team work and collaboration in groups with different composition, and
- demonstrate the ability to verbally and in writing to explain and discuss the basic science, problems and solutions

Ability to make judgements and adopt a standpoint

- show the ability of independent and critical thinking

Extent and content of the programme

The program includes 1 study year and 60 credits, and is at a preliminary level.
The program has no tracks.
The program follows the secondary school curriculum.

Eligibility and selection

Upper secondary school before 1 July 2011 and upper secondary education before July 1, 2012:

General admission requirements and specific admission requirements corresponding to Mathematics B with a grade of Pass or 3.

Upper secondary school from 1 July 2011 and upper secondary education as of July 1, 2012:
General admission requirements and specific admission requirements corresponding to Mathematics 2 with a grade of Pass.

For more information see KTH Handbook http://intra.kth.se/regelverk/utbildning-forskning/grundutbildning/antagning

The technical preparatory year 60 credits is a professional education and provides guaranteed seat at the KTH Bachelor and Master of Science in Engineering programs.

**Implementation of the education**

**Structure of the education**

The academic year is divided in terms and periods and is described in the KTH Handbook http://www.intra.kth.se/regelverk/utbildning-forskning/allmant/lasarets-forlagning-och-placering-1.27175

The program consists of mandatory basic courses in mathematics, physics and chemistry.

This program does not have any elective or optional courses.

**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.

**Recognition of previous academic studies**

Students who read the corresponding course in another qualifying education at KTH can be eligibility of the course in the program with the same ratings by “change of course”. Otherwise there are no possibility of crediting.

**Degree project**

Degree Project is not included in the technical preparatory year.

**Degree**

The program will not give eligibility for engineering programmes and will not lead to a degree.

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

Technical Preparatory Year (TBASE), 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</th>
<th>Edu. level</th>
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<tbody>
<tr>
<td>ML0021</td>
<td>Mathematics for Technical Preparatory Year I</td>
<td>12.0</td>
<td>Pre-university level</td>
</tr>
<tr>
<td>ML0022</td>
<td>Physics for Technical Preparatory Year I</td>
<td>9.0</td>
<td>Pre-university level</td>
</tr>
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<tr>
<td>ML0024</td>
<td>Mathematics for Technical Preparatory Year II</td>
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<tr>
<td>ML0025</td>
<td>Physics for Technical Preparatory Year II</td>
<td>18.0</td>
<td>Pre-university level</td>
</tr>
</tbody>
</table>
Appendix 2: Specialisations

Technical Preparatory Year (TBASE), Programme syllabus for studies starting in autumn 2014

This programme has no specialisations.