Programme syllabus

Technical Preparatory Year
Tekniskt basår, KTH Södertälje
60.0 credits

Valid for students admitted to the education from autumn 19 (HT - Autumn term; VT - Spring term).

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

Programme objectives

The purpose of the education is to deepen and broaden the competence of students who left secondary school without the specific admission requirements necessary for undergraduate studies at KTH.

Technical Preparatory Year is a qualifying pre-education to undergraduate engineering programmes at KTH. The Technical Preparatory Year aims to deepen and broaden the students’ competence in mathematics, physics and chemistry as well as to prepare the students for further studies at a university level.

A student who has completed Technical Preparatory Year should be able to

Knowledge and understanding

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

Skills and abilities

- demonstrate the ability to work in teams and to collaborate in groups with different compositions, and
- demonstrate the ability to, verbally and in writing, explain and discuss basic problems and solutions in science

Ability to make judgements and adopt a standpoint

- demonstrate independence 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 specializations.
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’s regulations, www.kth.se

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 semesters and periods as described on www.kth.se.

All courses are mandatory. There are no 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.

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

Technical Preparatory Year (TBASE), Programme syllabus for studies starting in autumn 2019

**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>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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<td>ML0023</td>
<td>Chemistry for Technical Preparatory Year I</td>
<td>9.0</td>
<td>Pre-university level</td>
</tr>
<tr>
<td>ML0024</td>
<td>Mathematics for Technical Preparatory Year II</td>
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</tr>
<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 2019

This programme has no specialisations.