Programme syllabus

Technical Preparatory Semester
Tekniskt basår, termin 2, KTH Campus
30.0 pre-education credits

Valid for students admitted to the education from spring 20 (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 semester 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 and also increase thenumber of women in mathematics, science and technical education.

After the completion of professional education, the student should be able to:

Knowledge and understanding

• demonstrate knowledge in the scientific fields of mathematics and physics

Skills and abilities

• demonstrate the capacity for team work and collaboration in groups with different composition
• 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 semester, 30 credits. The program is at a preliminary level. The programme is given in Swedish.

The program follows the secondary school curriculum to a large extent. The content and depth of knowledge is customized to prepare the student for higher education.

The program provides guaranteed seat at the KTH Bachelor and Master of Science in Engineering programs. The student is not guaranteed a place at their first choice.

Note that achieved credits on the Technical Preparatory semester can not be included in a degree in engineering.

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 C, Chemistry A and Physics A with a grade of Pass or 3.

Upper secondary school from 1 July 2011 and upper secondary education as of July 1, 2012 (Gy2011).

General admission requirements and specific admission requirements corresponding to Mathematics 3b or 3c, Chemistry 1 and Physics 1a or 1b1 and1b2 with a grade of E

For admission, eligibility and selection principles, see KTH’s admissions policy. www.kth.se

Implementation of the education

Structure of the education

The academic year is described in the regulations of KTH, www.kth.se.

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 Semester (TBTMD), Programme syllabus for studies starting in spring 2020

**General courses**

**Year 1**

**Mandatory courses (30.0 Pre-education credits)**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Credits</th>
<th>Edu. level</th>
</tr>
</thead>
<tbody>
<tr>
<td>KH0024</td>
<td>Mathematics for Technical Preparatory Year II</td>
<td>12.0</td>
<td>Pre-university level</td>
</tr>
<tr>
<td>KH0025</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 Semester (TBTMD), Programme syllabus for studies starting in spring 2020

This programme has no specialisations.