# Computer Engineering, B Sc in Engineering

180 credits

Högskoleingenjör i datateknik

6IDAT

Valid from: 2015 Spring semester

**Determined by**
Board of Studies for Computer Science and Media Technology

**Date determined**

# Entry requirements

## Degree in Swedish

Högskoleingenjör och Teknologie kandidat, 180 hp

# Curriculum

## Semester 4 (Spring 2017)

*Specialisation: Embedded Systems*

| Course code | Course name | Credits | Level | Timetable module | ECV |
|---|---|---|---|---|---|
| **Period 1** | | | | | |
| TDIU11 | Operating Systems | 6 | G2X | 3 | C |
| TDTS04 | Computer Networks and Distributed Systems | 8 | G2X | 2 | C |
| TAMS11 | Probability and Statistics, first course | 6 | G2X | 1 | E |
| TEIE77 | Civil and Commercial Law | 4 | G1X | 4 | E |
| TEIE88 | Computer Law | 4 | G1X | 1 | E |
| TGTU01 | Technology and Ethics | 6 | G1X | 1 | E |
| TSEI11 | Circuit Theory and Transform Methods | 10* | G1X | 2 | E |
| **Period 2** | | | | | |
| TDDI11 | Embedded Software | 6 | G2X | 2 | C |
| TDIU16 | Concurrent and Operating Systems Programming | 4 | G2X | 3 | C |
| TAIU06 | Mathematical Statistics | 6 | G1X | 4 | E |
| TDDD12 | Database Technology | 6 | G2X | 4 | E |
| THIU01 | English | 4 | G1X | 1 | E |
| TMIU02 | Man, Technology and Organization | 4 | G1X | 2 | E |
| TPTE06 | Industrial Placement | 6 | G1X | - | E |
| TSEI11 | Circuit Theory and Transform Methods | 10* | G1X | 2 | E |
| TSRT04 | Introduction in Matlab | 2 | G1X | 1 | E |

*Specialisation: Software Engineering*

| Course code | Course name | Credits | Level | Timetable module | ECV |
|---|---|---|---|---|---|
| **Period 1** | | | | | |
| TDIU11 | Operating Systems | 6 | G2X | 3 | C |
| TDTS04 | Computer Networks and Distributed Systems | 8 | G2X | 2 | C |
| TAMS11 | Probability and Statistics, first course | 6 | G2X | 1 | E |
| TEIE77 | Civil and Commercial Law | 4 | G1X | 4 | E |
| TEIE88 | Computer Law | 4 | G1X | 1 | E |
| TGTU01 | Technology and Ethics | 6 | G1X | 1 | E |
| TSEI11 | Circuit Theory and Transform Methods | 10* | G1X | 2 | E |
| **Period 2** | | | | | |
| TDDD12 | Database Technology | 6 | G2X | 4 | C |
| TDIU16 | Concurrent and Operating Systems Programming | 4 | G2X | 3 | C |
| TAIU06 | Mathematical Statistics | 6 | G1X | 4 | E |
| TDDI11 | Embedded Software | 6 | G2X | 2 | E |
| THIU01 | English | 4 | G1X | 1 | E |
| TMIU02 | Man, Technology and Organization | 4 | G1X | 2 | E |
| TPTE06 | Industrial Placement | 6 | G1X | - | E |
| TSEI11 | Circuit Theory and Transform Methods | 10* | G1X | 2 | E |
| TSRT04 | Introduction in Matlab | 2 | G1X | 1 | E |

## Semester 5 (Autumn 2017)

*Specialisation: Embedded Systems*

| Course code | Course name | Credits | Level | Timetable module | ECV |
|---|---|---|---|---|---|
| **Period 1** | | | | | |
| TDDI41 | Introduction to System Administration | 8* | G1X | 1 | C |
| TADI02 | Numerical Algorithms | 6 | G2X | 2 | E |
| TAIU08 | Calculus in Several Variables | 6 | G1X | 3 | E |
| TDDD23 | Design and Programming of Computer Games | 6 | A1X | 2 | E |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | 2 | E |
| TSEA29 | Microcomputer, Project Laboratory | 8* | G2X | 3 | E |
| TSIU61 | Automatic Control | 6 | G1X | 2 | E |
| **Period 2** | | | | | |
| TDDI07 | Distributed Embedded Software and Networks | 4 | G2X | 1 | C |
| TDDI41 | Introduction to System Administration | 8* | G1X | 2 | C |
| TSIT01 | Computer Security | 4 | G2X | 3 | C |
| TAMS11 | Probability and Statistics, first course | 6 | G2X | 4 | E |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | - | E |
| TDDD49 | Programming in C# and .NET Framework | 4 | G2X | 3 | E |
| TEIO29 | Leadership and Organisation | 6 | G1X | 4 | E |
| TFMT13 | Measurement Technology | 4 | G1X | 1 | E |
| TSEA29 | Microcomputer, Project Laboratory | 8* | G2X | - | E |
| TSEI01 | Analog Electronic Circuits | 8 | G1X | 3 | E |

*Specialisation: Software Engineering*

| Course code | Course name | Credits | Level | Timetable module | ECV |
|---|---|---|---|---|---|
| **Period 1** | | | | | |
| TDDI41 | Introduction to System Administration | 8* | G1X | 1 | C |
| TADI02 | Numerical Algorithms | 6 | G2X | 2 | E |
| TAIU08 | Calculus in Several Variables | 6 | G1X | 3 | E |
| TDDB84 | Design Patterns | 6 | A1X | 4 | E |
| TDDC17 | Artificial Intelligence | 6 | G2X | 3 | E |
| TDDD23 | Design and Programming of Computer Games | 6 | A1X | 2 | E |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | 2 | E |
| TSEA29 | Microcomputer, Project Laboratory | 8* | G2X | 3 | E |
| TSIU61 | Automatic Control | 6 | G1X | 2 | E |
| **Period 2** | | | | | |
| TDDI41 | Introduction to System Administration | 8* | G1X | 2 | C |
| TSIT01 | Computer Security | 4 | G2X | 3 | C |
| TAMS11 | Probability and Statistics, first course | 6 | G2X | 4 | E |
| TDDD38 | Advanced Programming in C++ | 6* | A1X | - | E |
| TDDD49 | Programming in C# and .NET Framework | 4 | G2X | 3 | E |
| TDDD55 | Compilers and Interpreters | 4 | G2X | 1 | E |
| TEIO29 | Leadership and Organisation | 6 | G1X | 4 | E |
| TFMT13 | Measurement Technology | 4 | G1X | 1 | E |
| TSEA29 | Microcomputer, Project Laboratory | 8* | G2X | - | E |

## Semester 6 (Spring 2018)

*Specialisation: Embedded Systems*

| Course code | Course name | Credits | Level | Timetable module | ECV |
|---|---|---|---|---|---|
| **Period 1** | | | | | |
| TDDD50 | Green Computing | 4 | G2X | 4 | C |
| TDDI08 | Embedded Systems Design | 4 | G2X | 1 | C |
| TDIU14 | Introduction to Bachelor Thesis | 4 | G2X | 2 | C |
| TDDD97 | Web Programming | 6 | G2X | 3 | E |
| TEIE88 | Computer Law | 4 | G1X | 1 | E |
| TSIU04 | Automatic Control, Advanced Course | 4 | G2X | 4 | E |
| **Period 2** | | | | | |
| TQXX11 | Degree project - Bachelor's Thesis | 16 | G2X | - | C |

*Specialisation: Software Engineering*

| Course code | Course name | Credits | Level | Timetable module | ECV |
|---|---|---|---|---|---|
| **Period 1** | | | | | |
| TDDD50 | Green Computing | 4 | G2X | 4 | C |
| TDDD97 | Web Programming | 6 | G2X | 3 | C |
| TDIU14 | Introduction to Bachelor Thesis | 4 | G2X | 2 | C |
| TSIU04 | Automatic Control, Advanced Course | 4 | G2X | 4 | E |
| **Period 2** | | | | | |
| TQXX11 | Degree project - Bachelor's Thesis | 16 | G2X | - | C |

ECV = Elective / Compulsory /Voluntary
*The course is divided into several semesters and/or periods