

Mechanical Engineering, B Sc in Engineering

180 credits

Högskoleingenjör i maskinteknik

6IMAS

Valid from: 2016 Spring semester

Determined by

Board of Studies for Mechanical
Engineering and Design

Date determined

2016-01-19

Entry requirements

Degree in Swedish

Högskoleingenjör och Teknologie kandidat, 180 hp

Curriculum

Semester 2 (Spring 2017)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|------------------------------------|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TAIU05 | Linear Algebra | 6 | G1X | 4 | C |
| TAIU07 | Computations with MATLAB | 4 | G1X | 1 | C |
| TMMI03 | Engineering Mechanics | 8* | G1X | 3 | C |
| TGTU35 | Introduction to University Studies | 2* | G1X | - | V |
| Period 2 | | | | | |
| TMMI03 | Engineering Mechanics | 8* | G1X | 3 | C |
| TMMI70 | Production Engineering | 6 | G1X | 4 | C |
| TSIU06 | Automatic Control | 6 | G1X | 2 | C |
| TGTU35 | Introduction to University Studies | 2* | G1X | - | V |

Semester 3 (Autumn 2017)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|-----------------------------------|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TMKT73 | CAD, second course | 6* | G2X | 1 | C |
| TMMI69 | Fluid Mechanics and Heat Transfer | 6 | G1X | 3 | C |
| TSIU61 | Automatic Control | 6 | G1X | 2 | C |
| Period 2 | | | | | |
| TMKT73 | CAD, second course | 6* | G2X | 1 | C |
| TMMI13 | Hydraulics and Pneumatics | 6 | G2X | 3 | C |
| TMMI17 | Solid Mechanics, basic course | 6 | G2X | 2 | C |

Semester 4 (Spring 2018)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|--------------------------------|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TMEI01 | Electrical Engineering | 6 | G1X | 3 | C |
| TMMI18 | Engineering Materials | 6 | G1X | 2 | C |
| TMMI37 | The Finite Element Method, FEM | 6* | G2X | 1 | C |
| Period 2 | | | | | |
| TAIU06 | Mathematical Statistics | 6 | G1X | 4 | C |
| TMMI16 | Machine Elements | 6 | G2X | 3 | C |
| TMMI37 | The Finite Element Method, FEM | 6* | G2X | 1 | C |
| TPTE06 | Industrial Placement | 6 | G1X | - | E |

Semester 5 (Autumn 2018)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|---|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TMMI68 | CAD and Drafting Techniques, Continued Course | 6* | G2X | 2 | C |
| TADI02 | Numerical Algorithms | 6 | G2X | 2 | E |
| TAIU08 | Calculus in Several Variables | 6 | G1X | 3 | E |
| TFMT08 | Measurement Technology | 6 | G2X | 3 | E |
| TMAL02 | Aircraft and Vehicle Design | 6 | G2X | 4 | E |
| TMKM16 | Sustainable Material Selection | 6 | A1X | 4 | E |
| TMKT80 | Wood - Material | 6 | G2X | 2 | E |
| TMME14 | Machine Elements, Second Course | 6 | A1X | 3 | E |
| TMMI19 | Engineering Design Methodology | 6 | G2X | 1 | E |
| TMMI47 | Production Development | 6 | G2X | 1 | E |
| TMMI56 | Energy Engineering | 6 | G2X | 1 | E |
| TMMV57 | Applied Energy Engineering | 6* | G2X | 3 | E |
| TMPS33 | Virtual Manufacturing | 6 | A1X | 4 | E |
| TMPT03 | Production Engineering - Continuing Course | 6 | G2X | 2 | E |
| Period 2 | | | | | |
| TMMI68 | CAD and Drafting Techniques, Continued Course | 6* | G2X | 4 | C |
| TEAE01 | Industrial Economics, Basic Course | 6 | G1X | 2 | E |
| TEIO29 | Leadership and Organisation | 6 | G1X | 4 | E |
| TMKT81 | Wood - Realisation | 6 | G2X | 1 | E |
| TMMI09 | Vibrations and Fatigue in Mechanical Structures | 6 | G2X | 3 | E |
| TMMI46 | Industrial Automation | 6 | G2X | 3 | E |
| TMMI71 | Engineering Mechanics, Advanced course | 6 | G2X | 2 | E |
| TMMV57 | Applied Energy Engineering | 6* | G2X | 3 | E |

Specialisation: Design Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|---|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TMMI19 | Engineering Design Methodology | 6 | G2X | 1 | C |
| Period 2 | | | | | |
| TMMI09 | Vibrations and Fatigue in Mechanical Structures | 6 | G2X | 3 | C |

Specialisation: Energy Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|----------------------------|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TMMI56 | Energy Engineering | 6 | G2X | 1 | C |
| TMMV57 | Applied Energy Engineering | 6* | G2X | 3 | C |
| Period 2 | | | | | |
| TMMV57 | Applied Energy Engineering | 6* | G2X | 3 | C |

Specialisation: Production Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|--|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TMMI47 | Production Development | 6 | G2X | 1 | C |
| TMPS33 | Virtual Manufacturing | 6 | A1X | 4 | E |
| TMPT03 | Production Engineering - Continuing Course | 6 | G2X | 2 | E |
| Period 2 | | | | | |
| TMMI46 | Industrial Automation | 6 | G2X | 3 | C |

Semester 6 (Spring 2019)

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|------------------------------------|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TGTU58 | Communication | 2 | G2X | 2 | C |
| TMMI52 | Industrial Automation - Project | 12 | G2X | 1 | E |
| TMMI53 | Engineering Design - Project | 12 | G2X | 1 | E |
| TMMI54 | Energy Engineering - Project | 12 | G2X | 1 | E |
| Period 2 | | | | | |
| TQXX11 | Degree project - Bachelor's Thesis | 16 | G2X | - | C |

Specialisation: Design Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|------------------------------|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TMMI53 | Engineering Design - Project | 12 | G2X | 1 | C |

Specialisation: Energy Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|------------------------------|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TMMI54 | Energy Engineering - Project | 12 | G2X | 1 | C |

Specialisation: Production Engineering

| Course code | Course name | Credits | Level | Timetable module | ECV |
|-----------------|---------------------------------|---------|-------|------------------|-----|
| Period 1 | | | | | |
| TMMI52 | Industrial Automation - Project | 12 | G2X | 1 | C |

ECV = Elective / Compulsory / Voluntary

*The course is divided into several semesters and/or periods